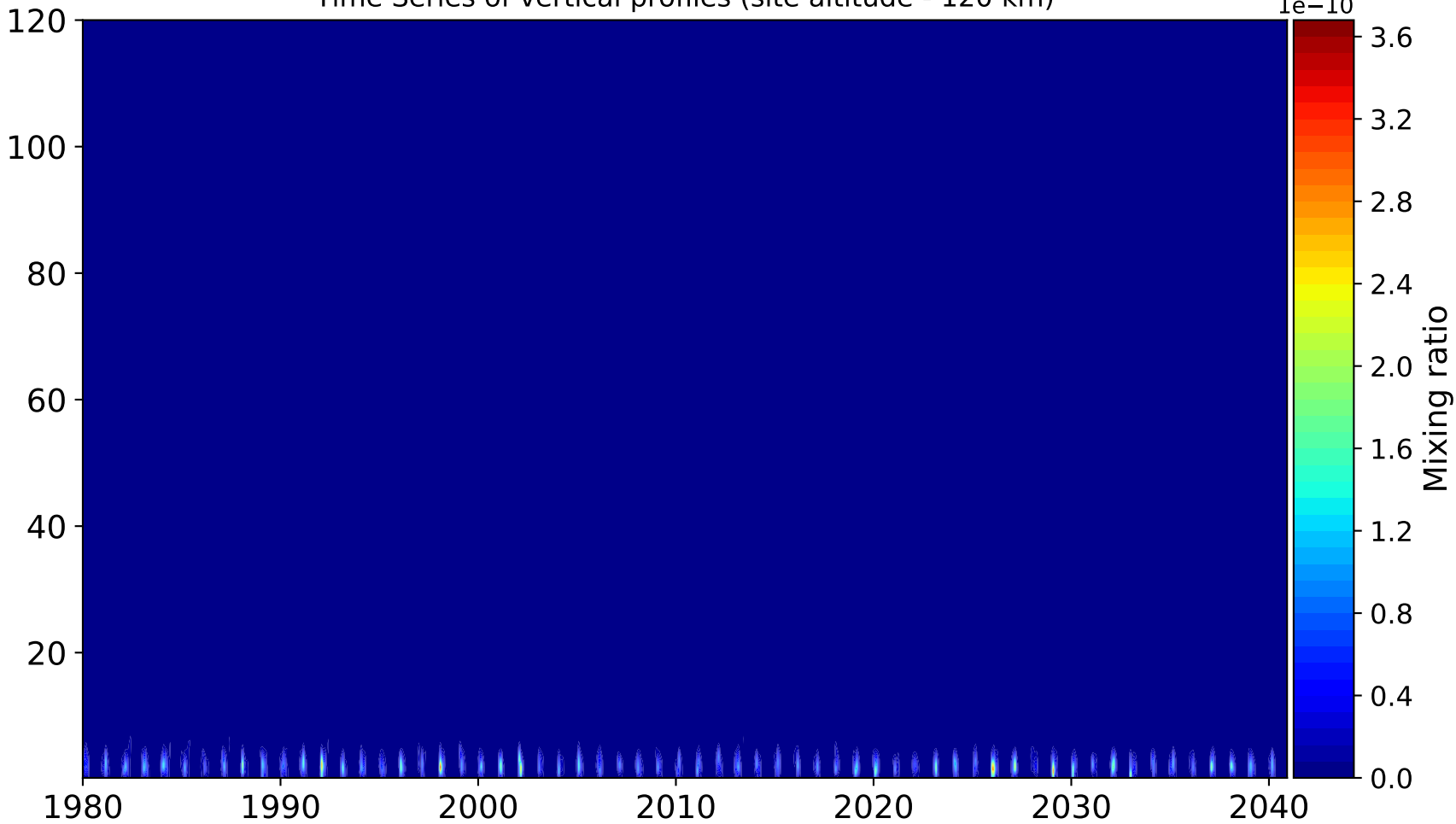
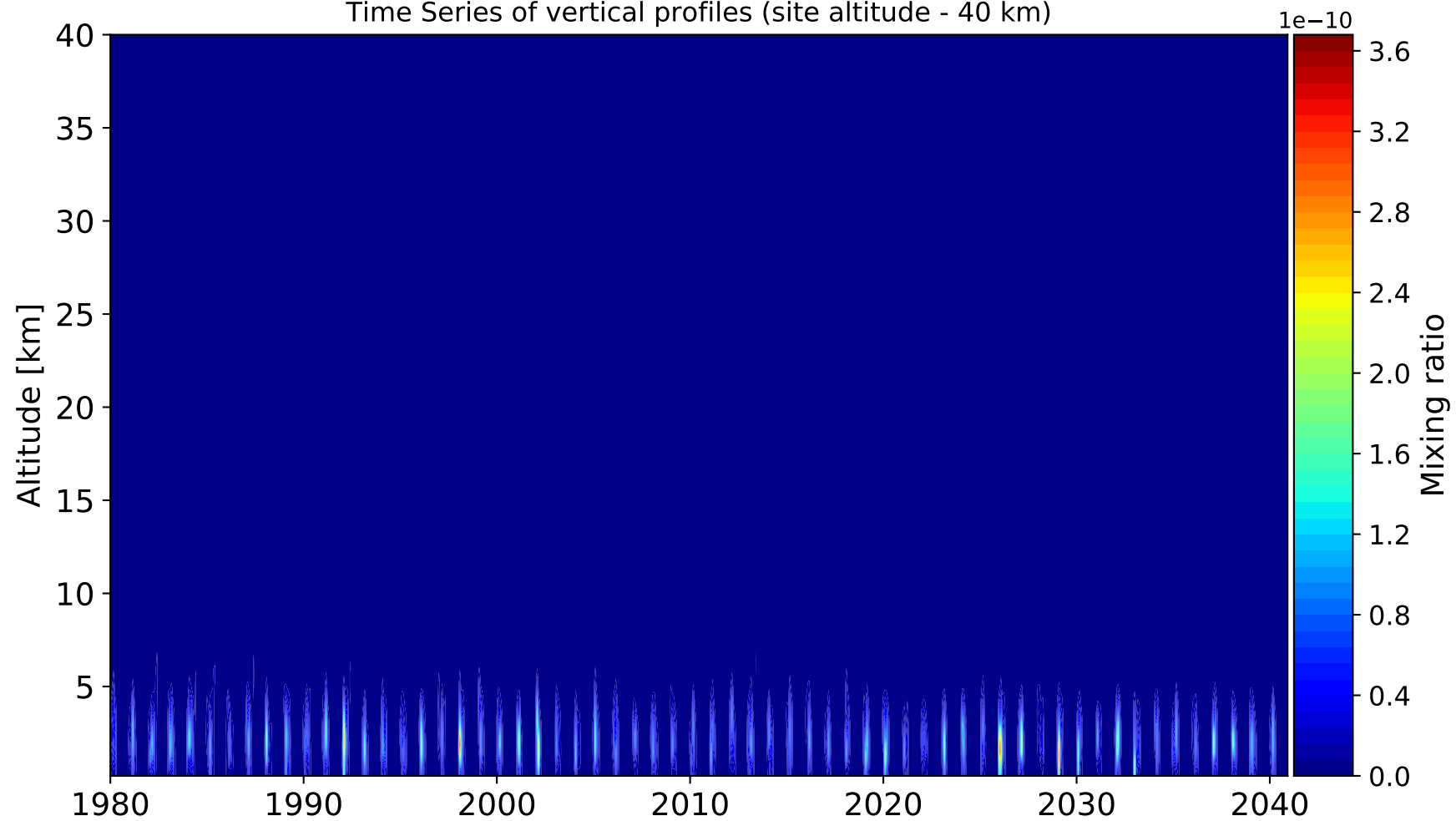


Time Series of vertical profiles (site altitude - 120 km)

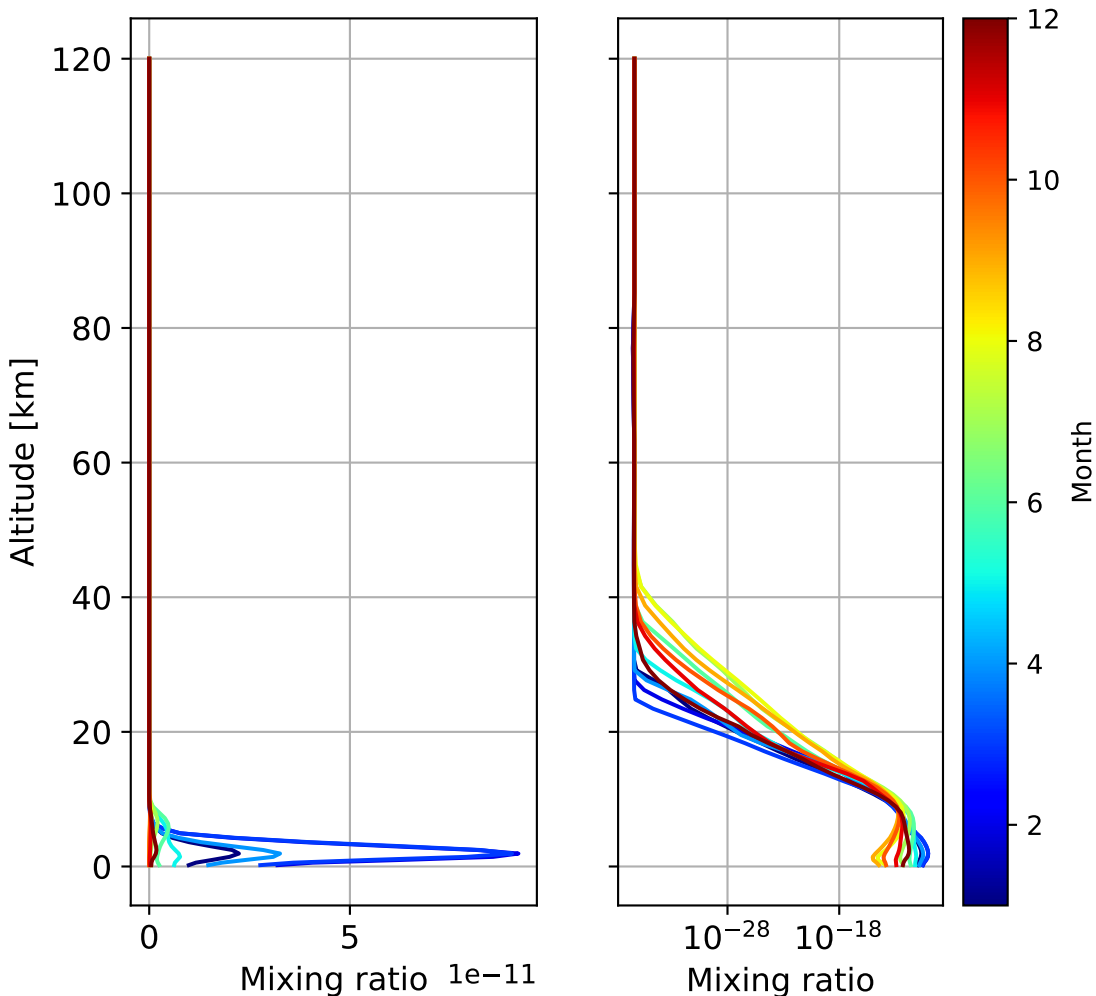
Altitude [km]



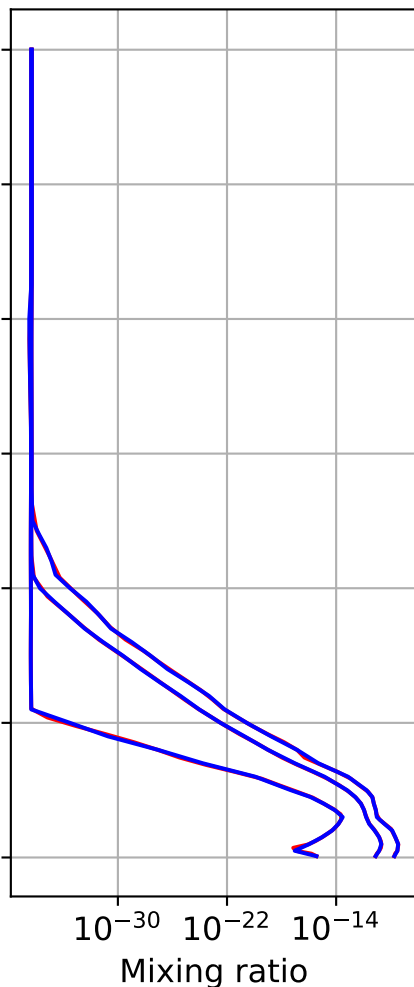
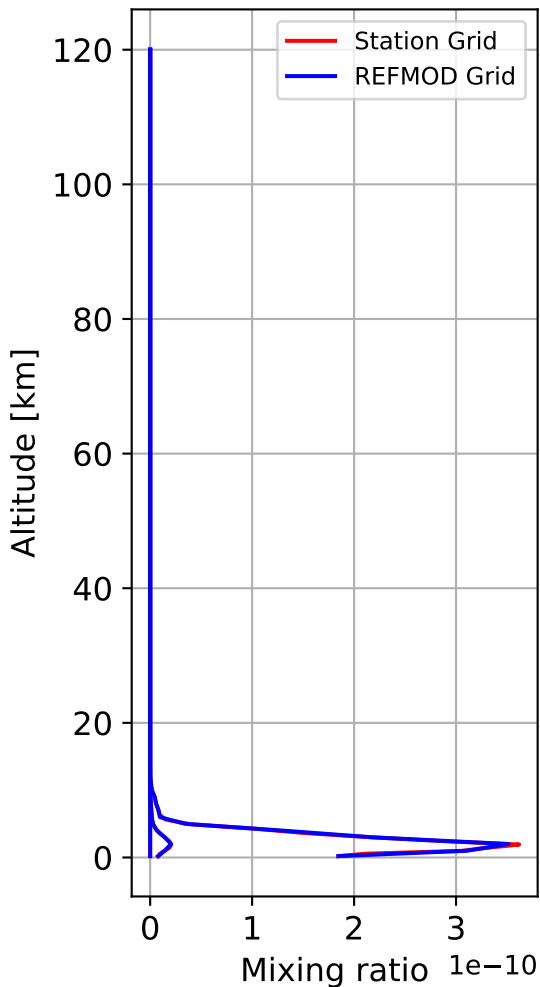
Time Series of vertical profiles (site altitude - 40 km)



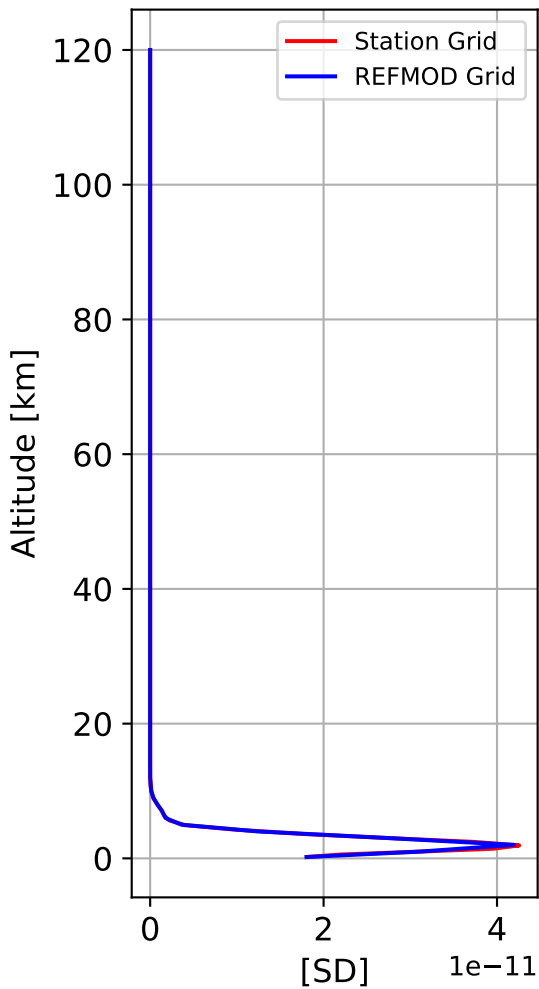
Monthly mean WACCM profile (interpolated to station grid)  
Arrival\_Heights, -78.83N, 166.66E, 0.2kmasl



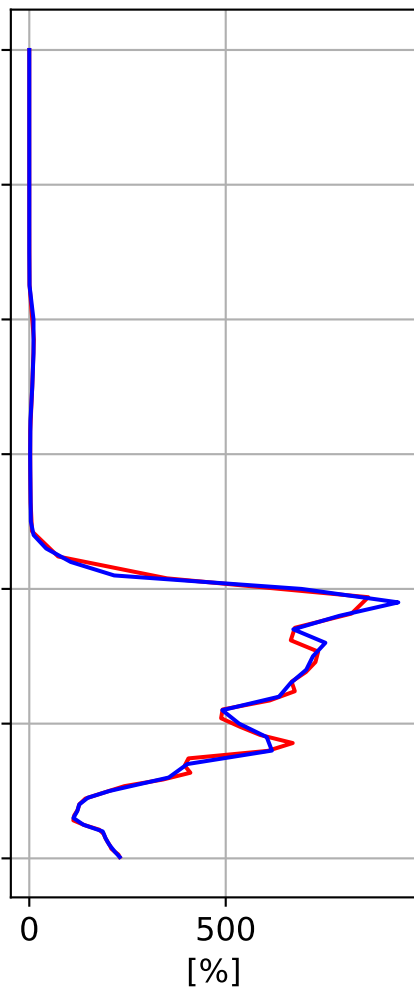
Min, Max, Mean of 732 profiles  
Arrival\_Heights, -78.83N, 166.66E, 0.2kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-21

Altitude [km]

120  
100  
80  
60  
40  
20

20 40 60 80 100 120

Altitude [km]

Mixing ratio[ $\sim 2$ ]1.8  
1.6  
1.4  
1.2  
1.0  
0.8  
0.6  
0.4  
0.2  
0.0