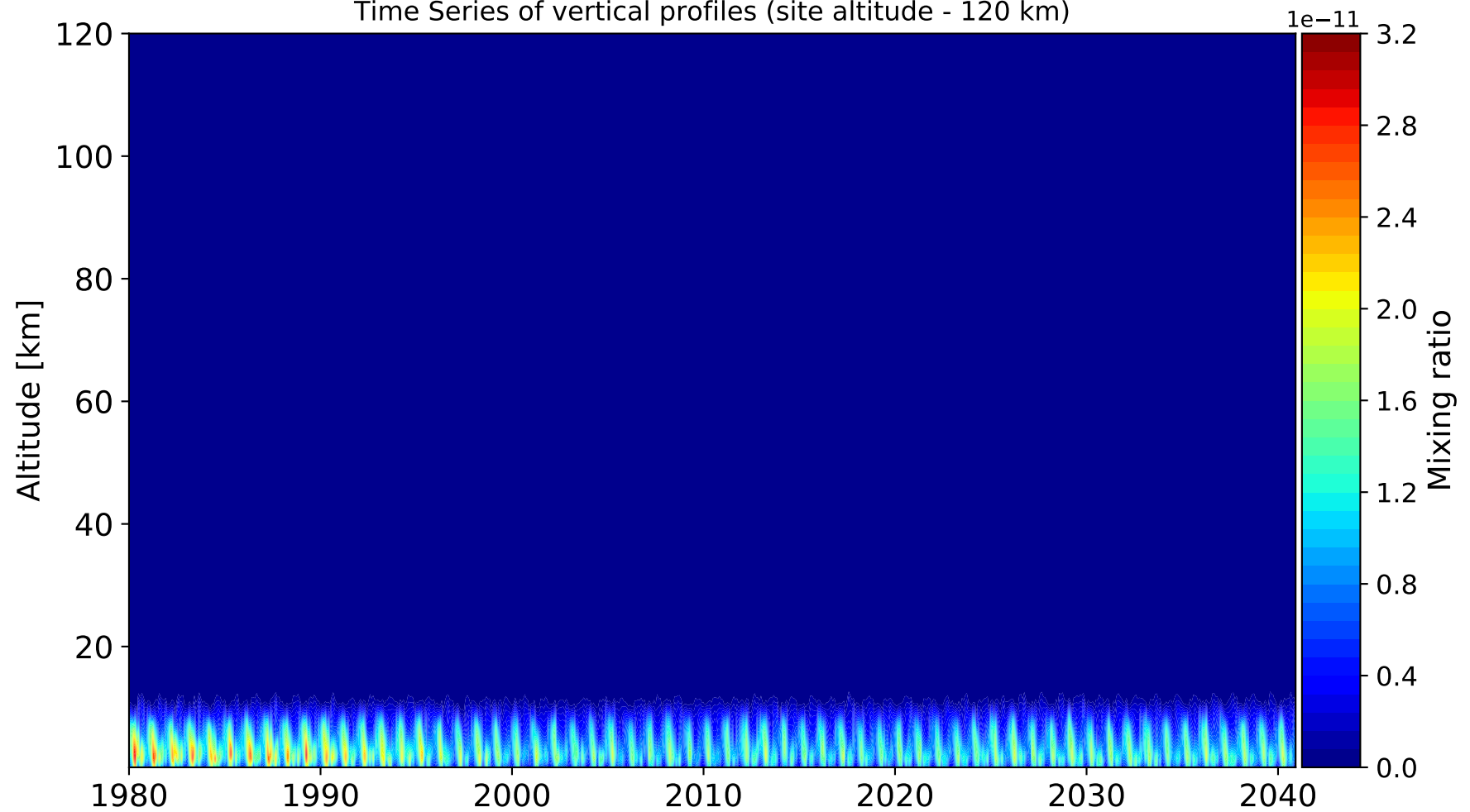
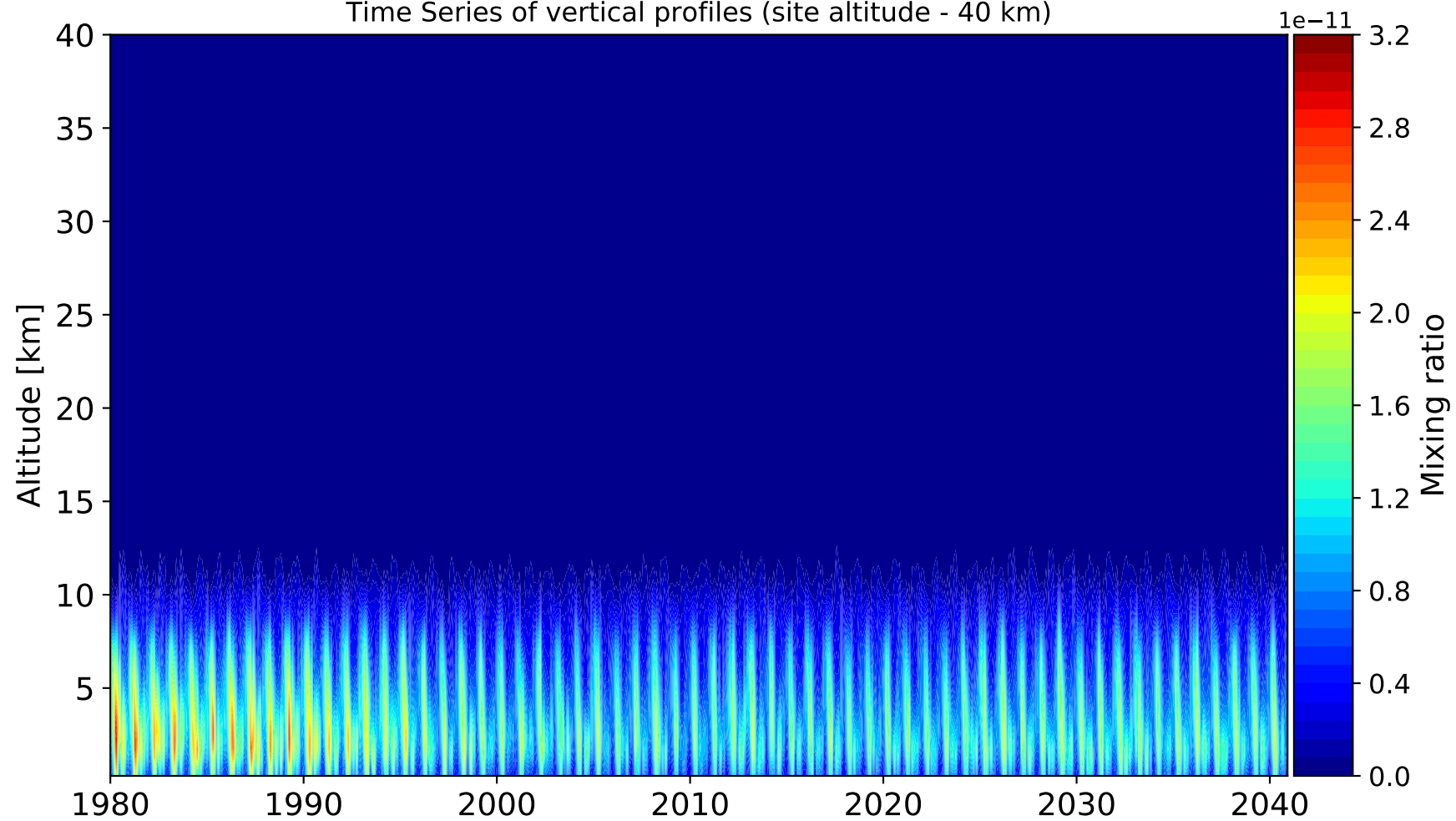


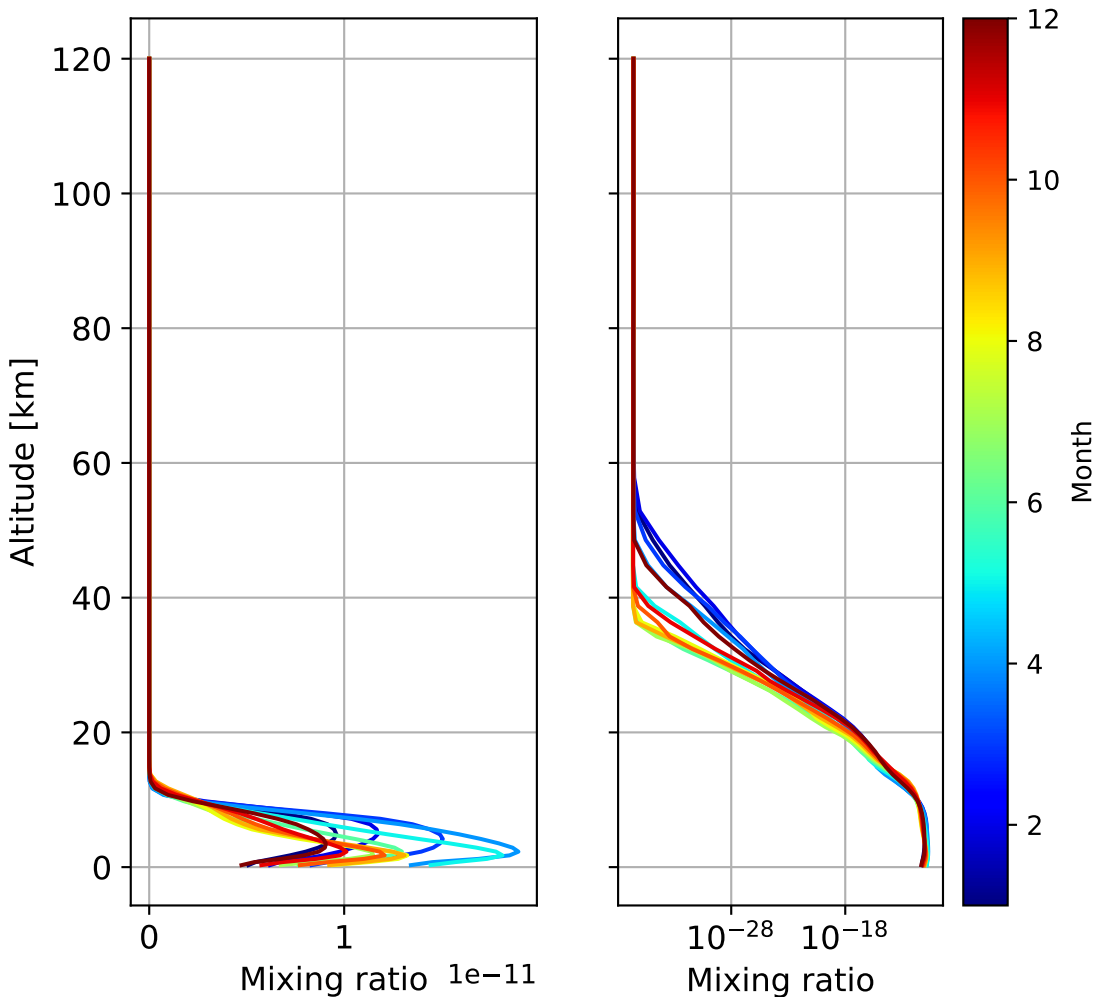
Time Series of vertical profiles (site altitude - 120 km)



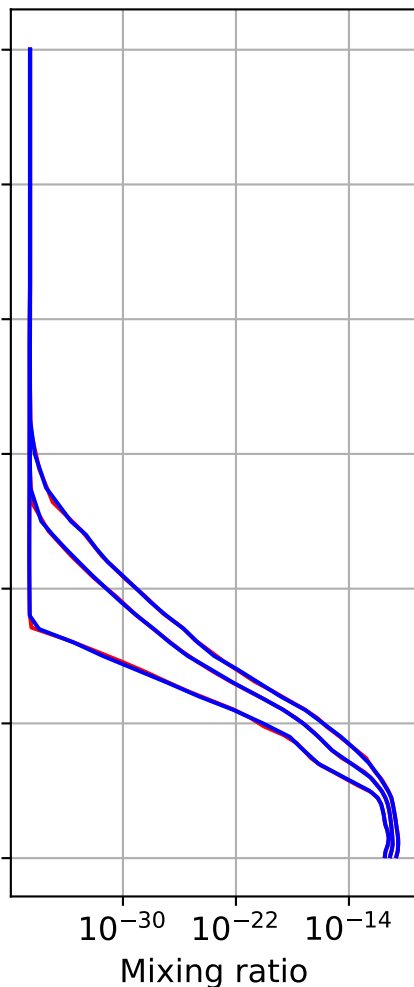
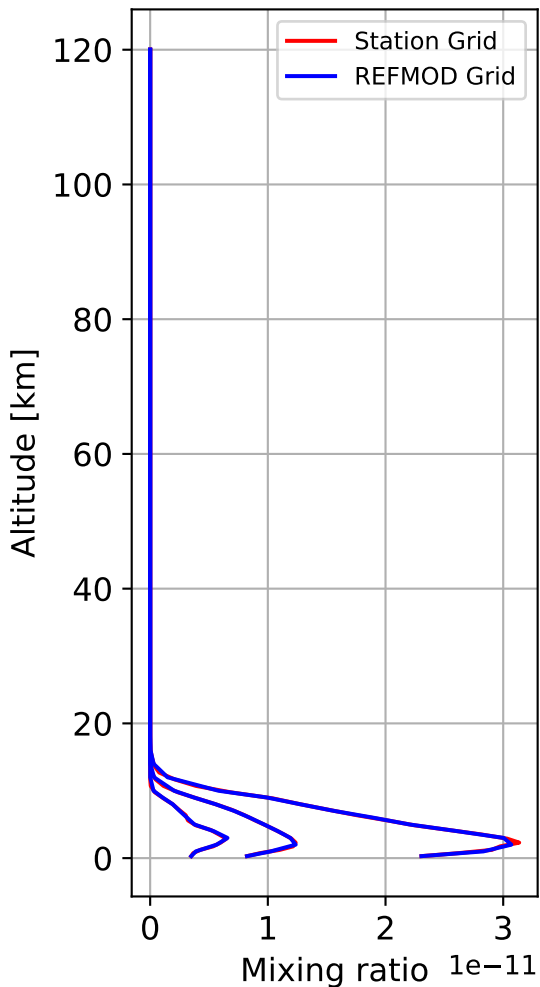
Time Series of vertical profiles (site altitude - 40 km)



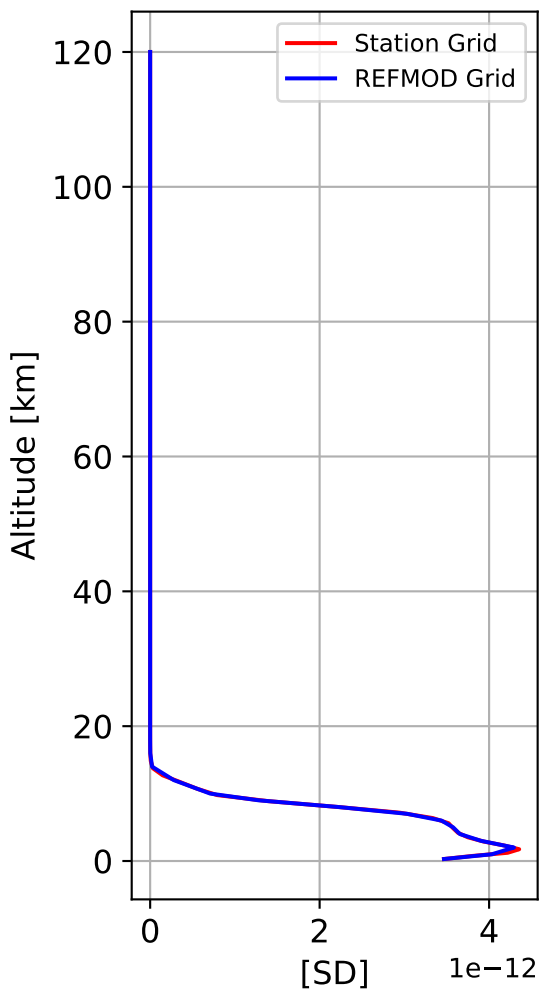
Monthly mean WACCM profile (interpolated to station grid)  
Timmins, 48.57N, 278.62E, 0.295kmasl



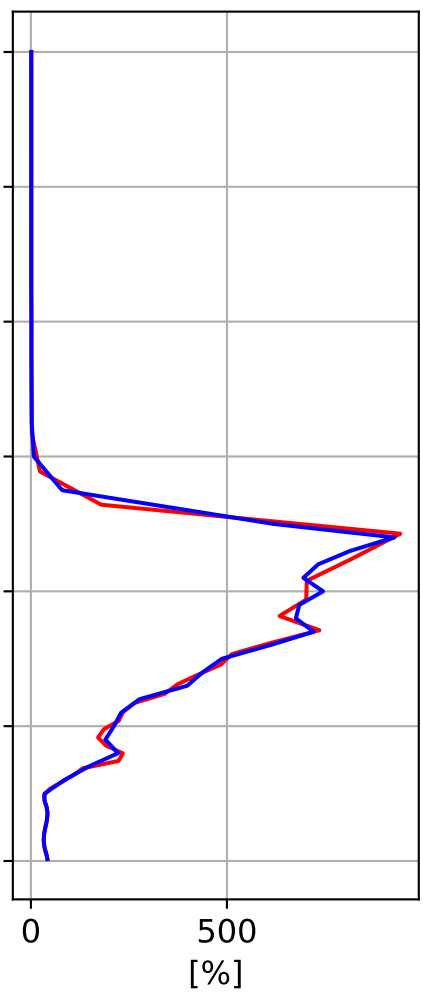
Min, Max, Mean of 732 profiles  
Timmins, 48.57N, 278.62E, 0.295kmasl



### Std. Deviation



### Percent Deviation



# Level covariance matrix

1e-23

Altitude [km]

120  
100  
80  
60  
40  
20

20 40 60 80 100 120

Altitude [km]

1.92  
1.68  
1.44  
1.20  
0.96  
0.72  
0.48  
0.24  
0.00

Mixing ratio[ $\sim 2$ ]

