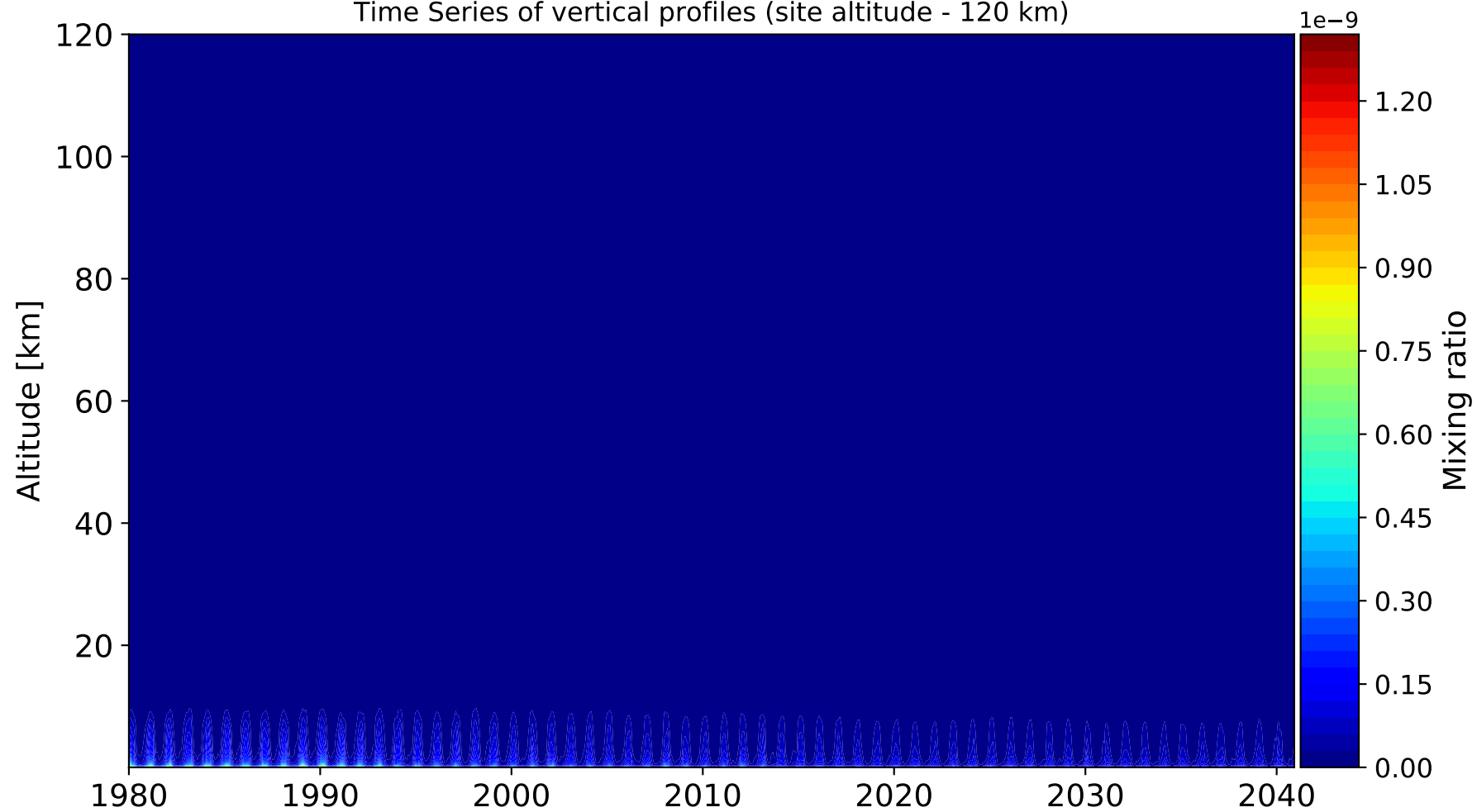
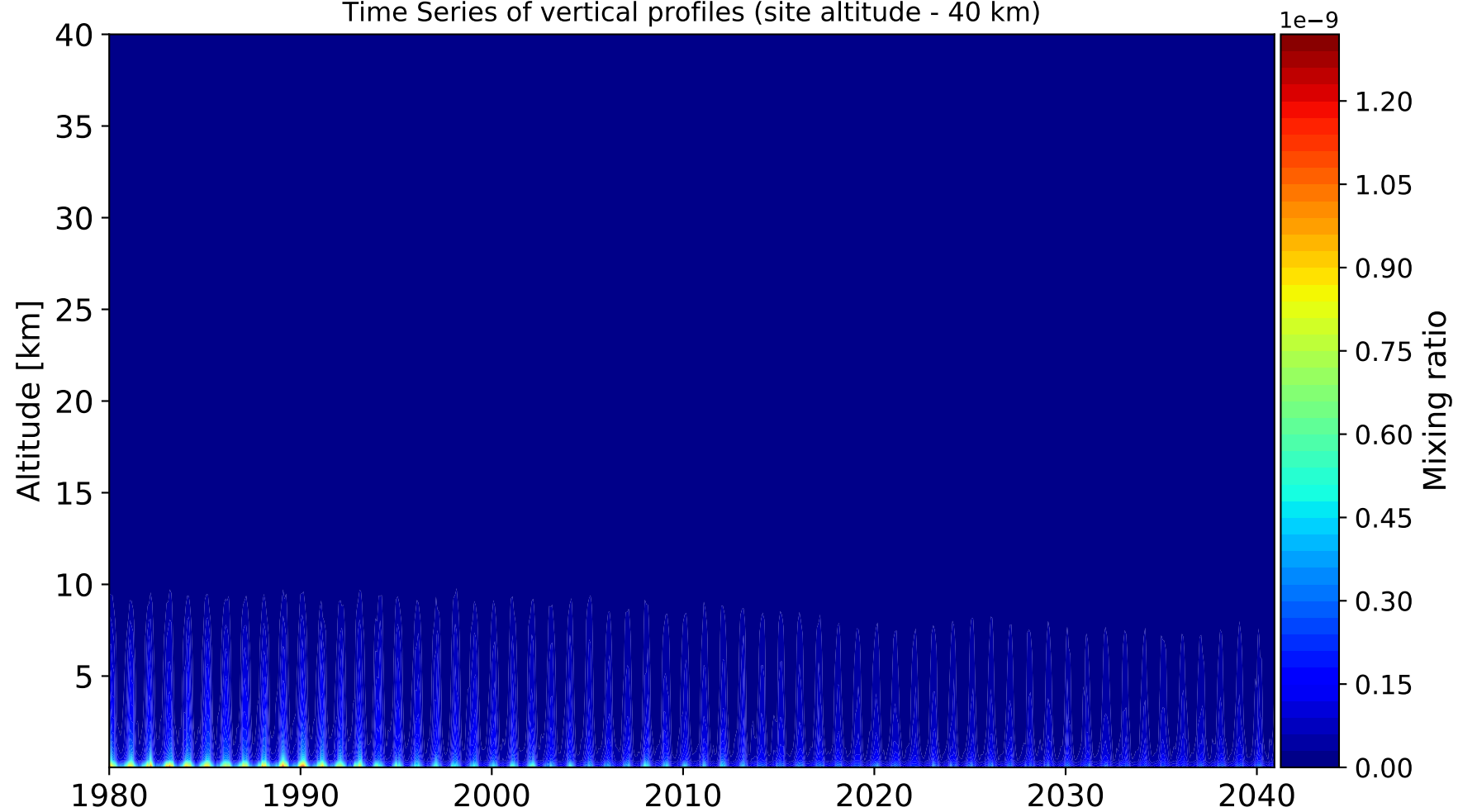


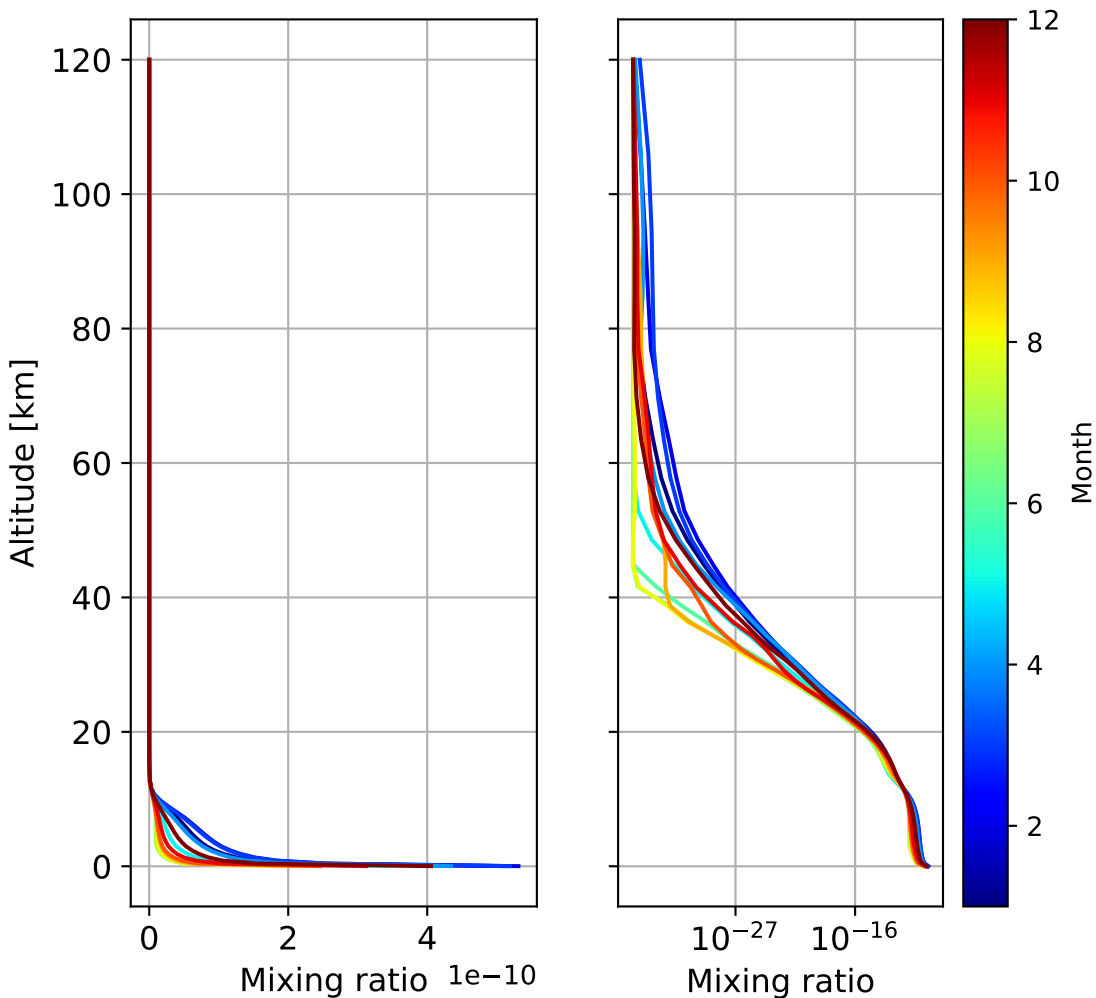
Time Series of vertical profiles (site altitude - 120 km)



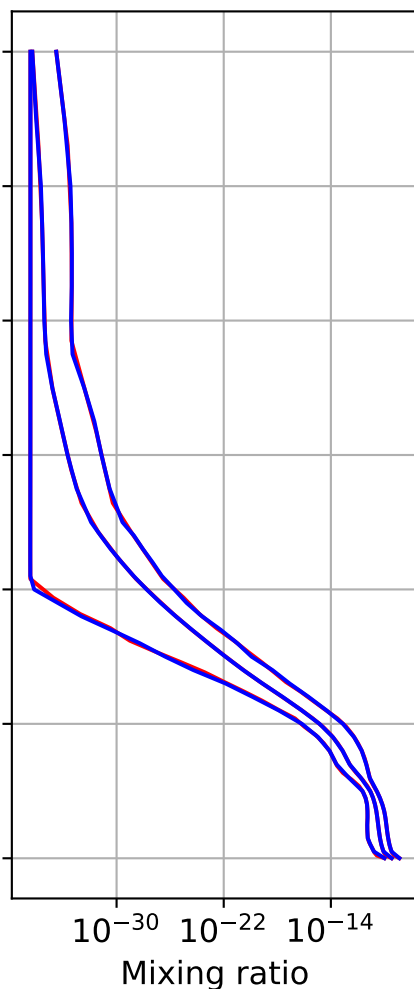
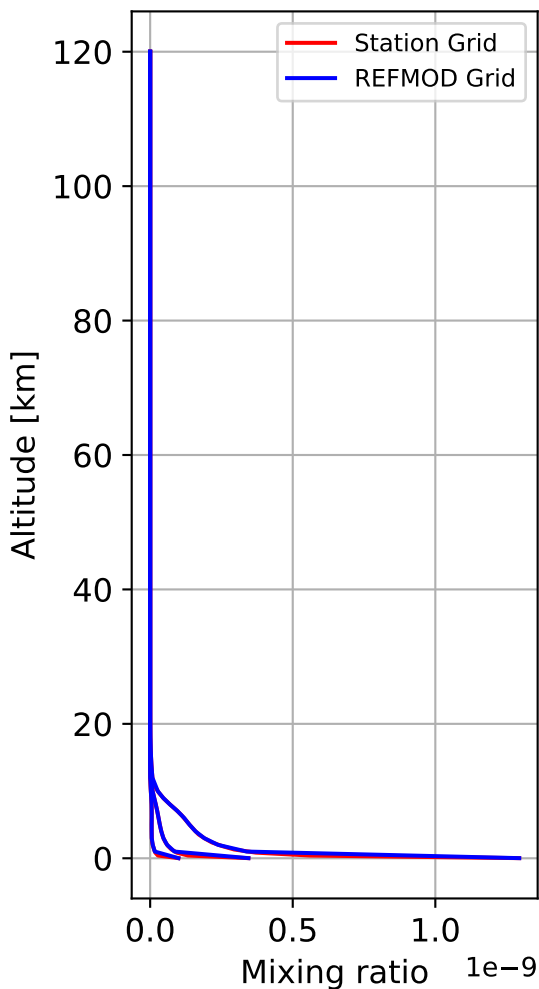
Time Series of vertical profiles (site altitude - 40 km)



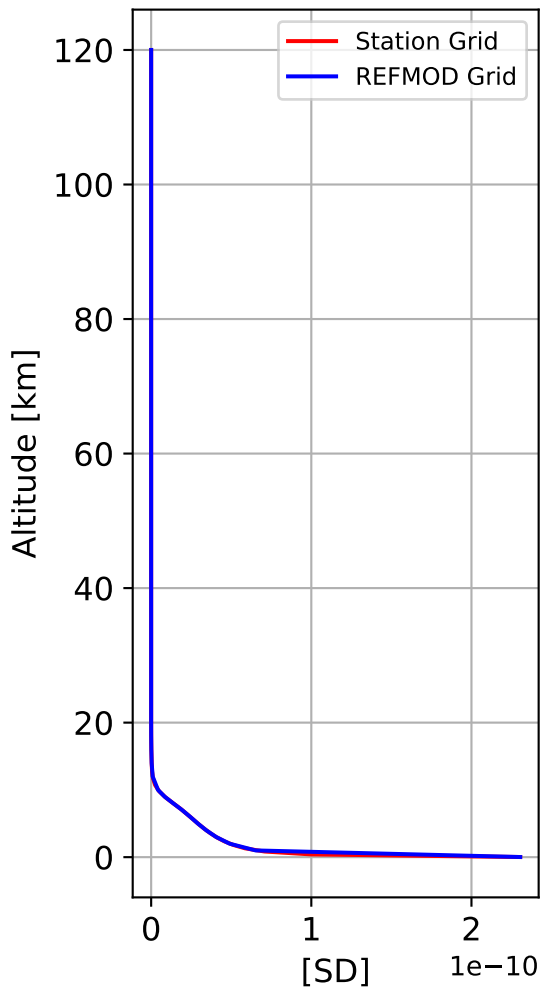
Monthly mean WACCM profile (interpolated to station grid)  
St\_Petersburg, 59.88N, 29.83E, 0.02kmasl



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



# Std. Deviation



# Percent Deviation



Level covariance matrix

1e-20

Altitude [km]

Mixing ratio[ $\sim 2$ ]120  
100  
80  
60  
40  
205.4  
4.8  
4.2  
3.6  
3.0  
2.4  
1.8  
1.2  
0.6  
0.0

Altitude [km]

20

40

60

80

100

120

