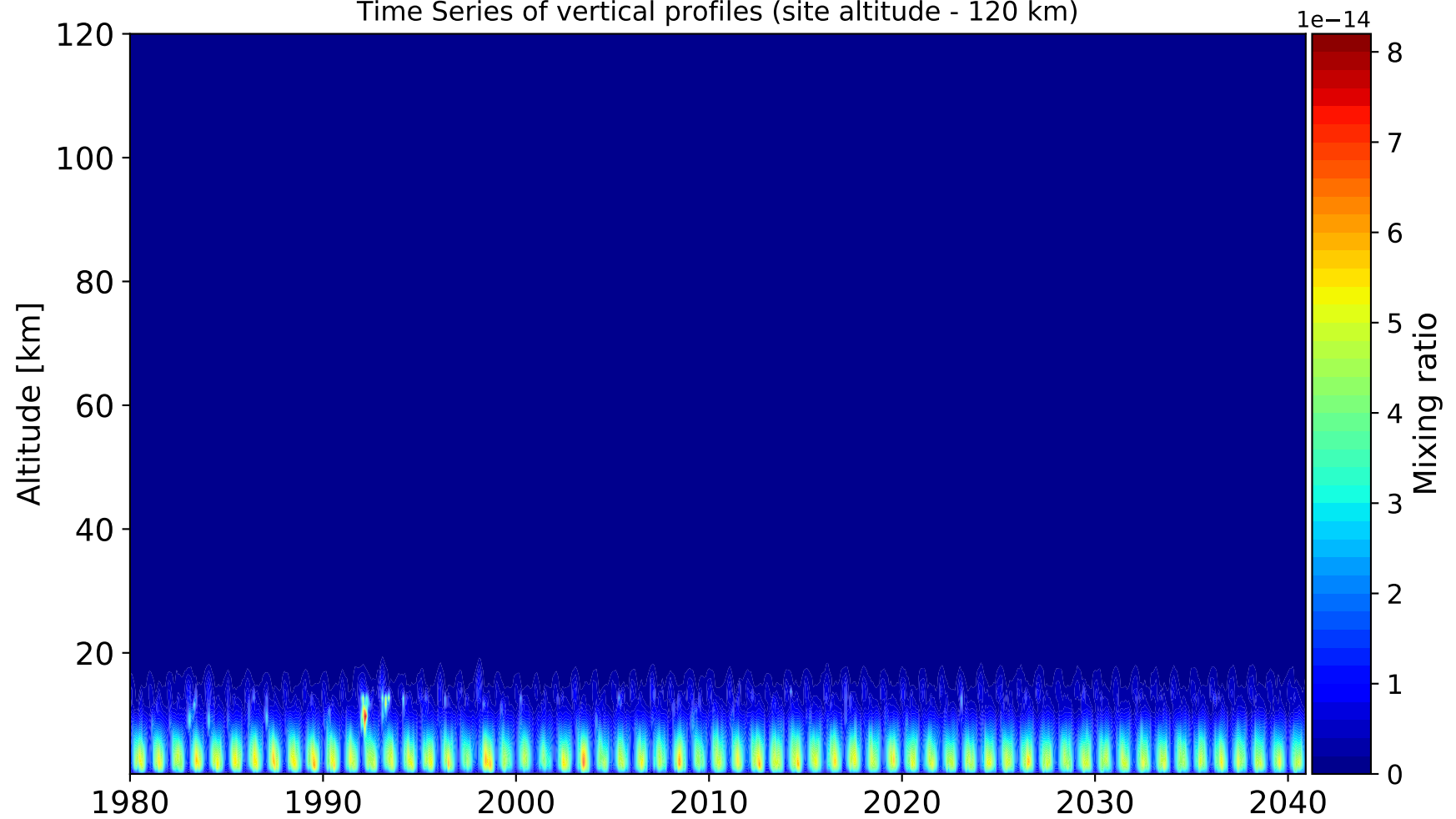
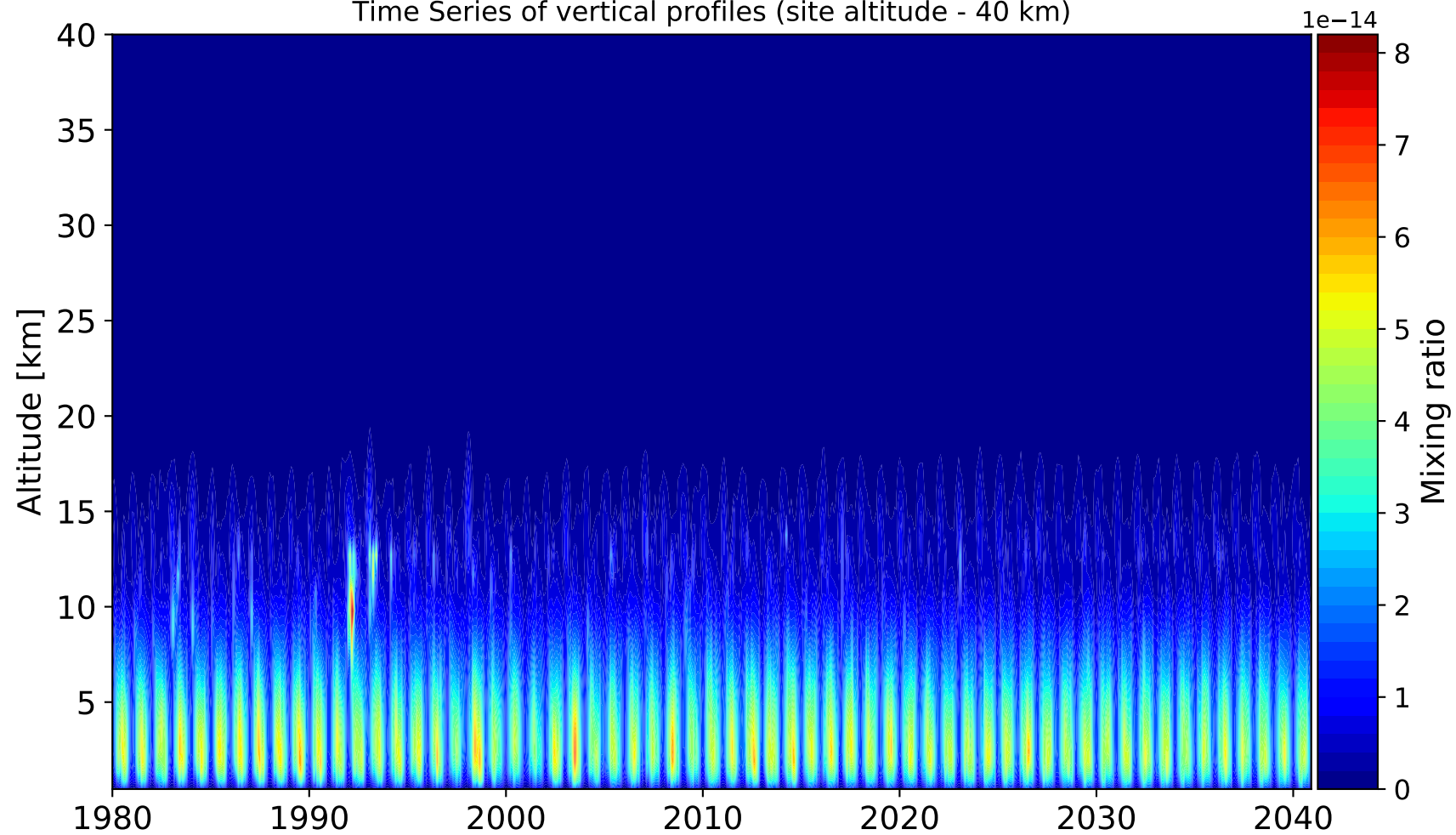


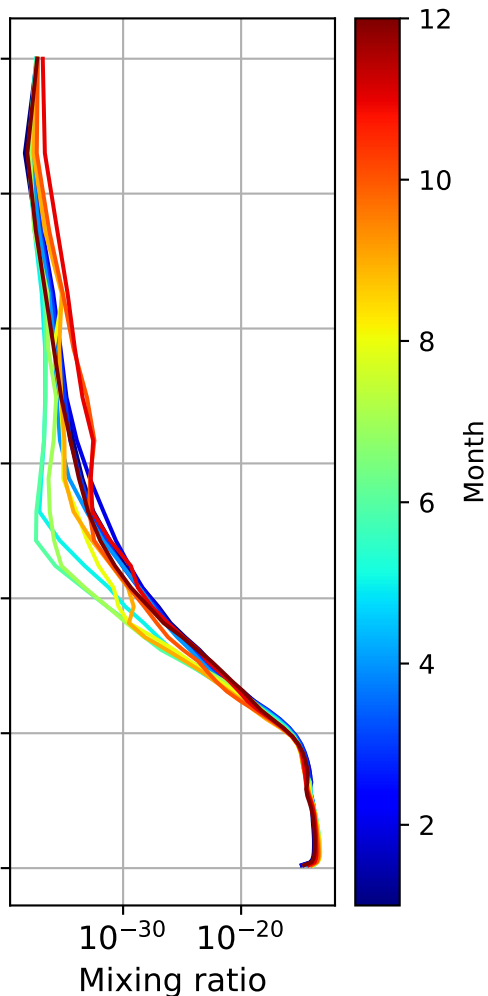
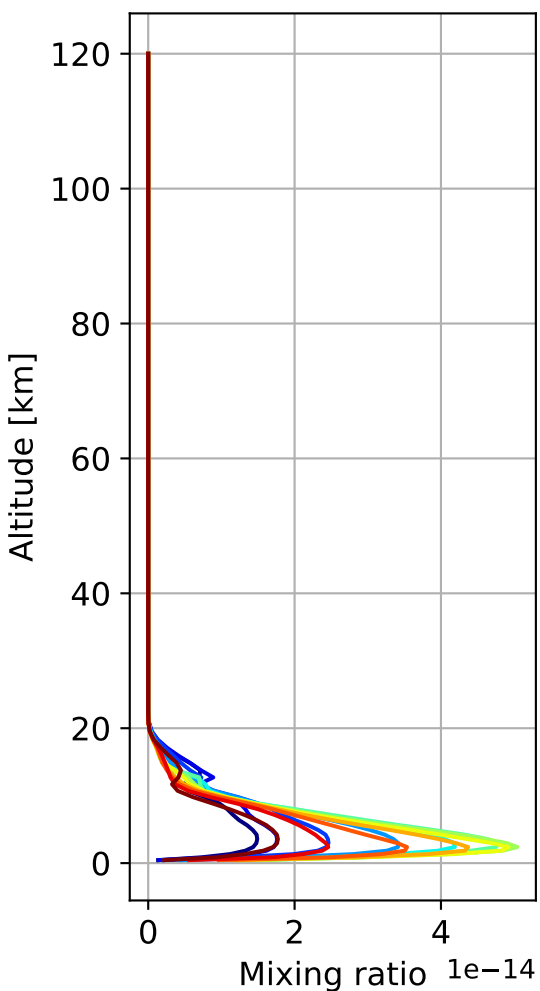
Time Series of vertical profiles (site altitude - 120 km)



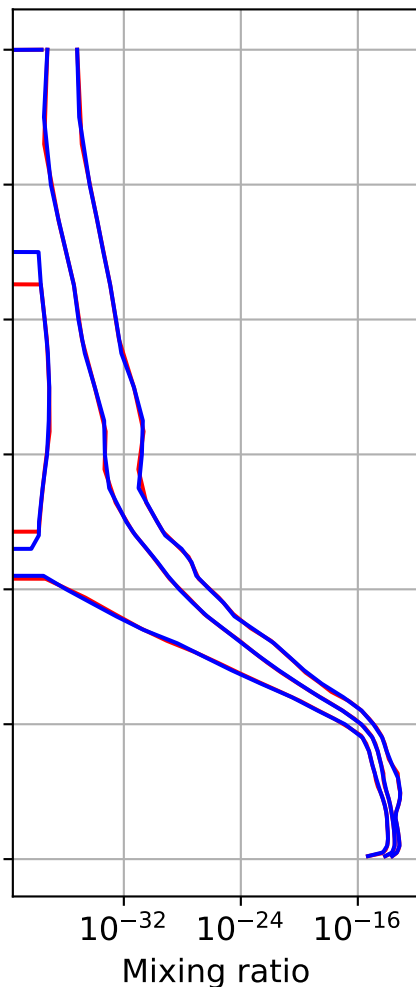
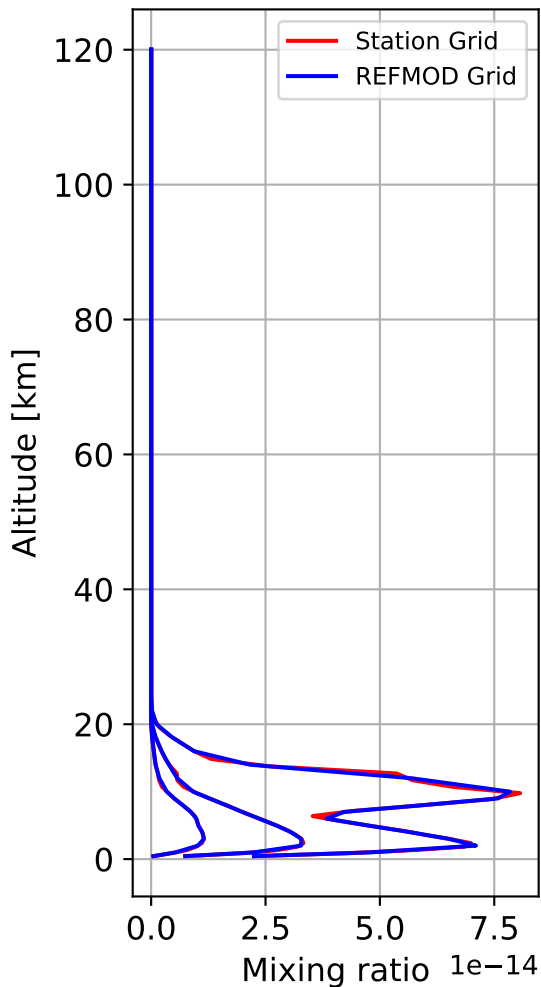
Time Series of vertical profiles (site altitude - 40 km)



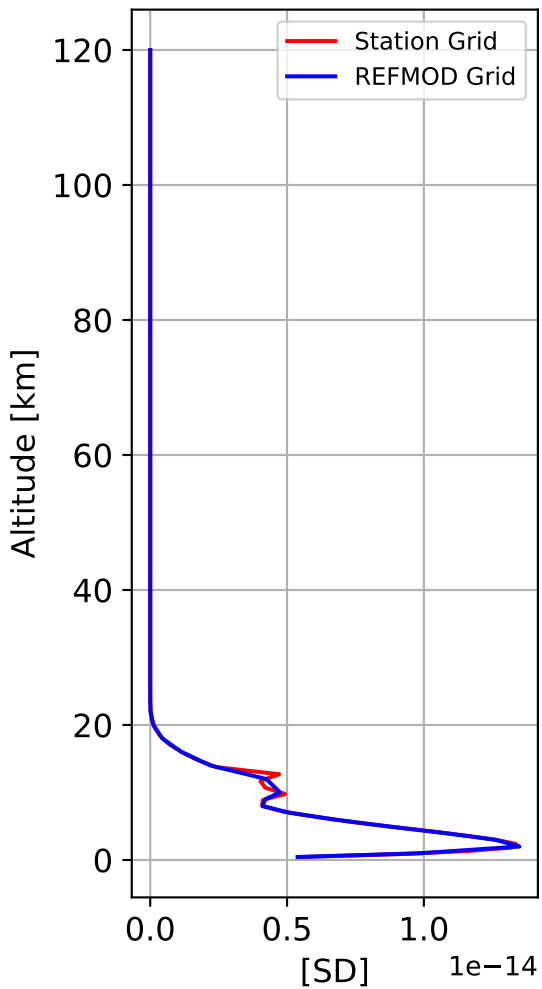
Monthly mean WACCM profile (interpolated to station grid)  
Park\_Falls, 45.945N, 269.727E, 0.442kmasl



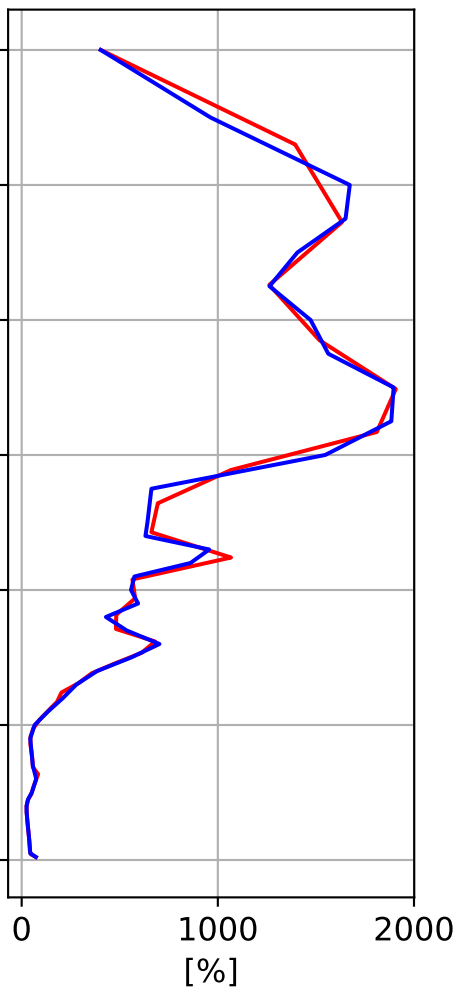
Min, Max, Mean of 732 profiles  
Park\_Falls, 45.945N, 269.727E, 0.442kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-28

Altitude [km]

120

100

80

60

40

20

20

40

60

80

100

120

Altitude [km]

1.8

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0.0

Mixing ratio[ $\sim 2$ ]