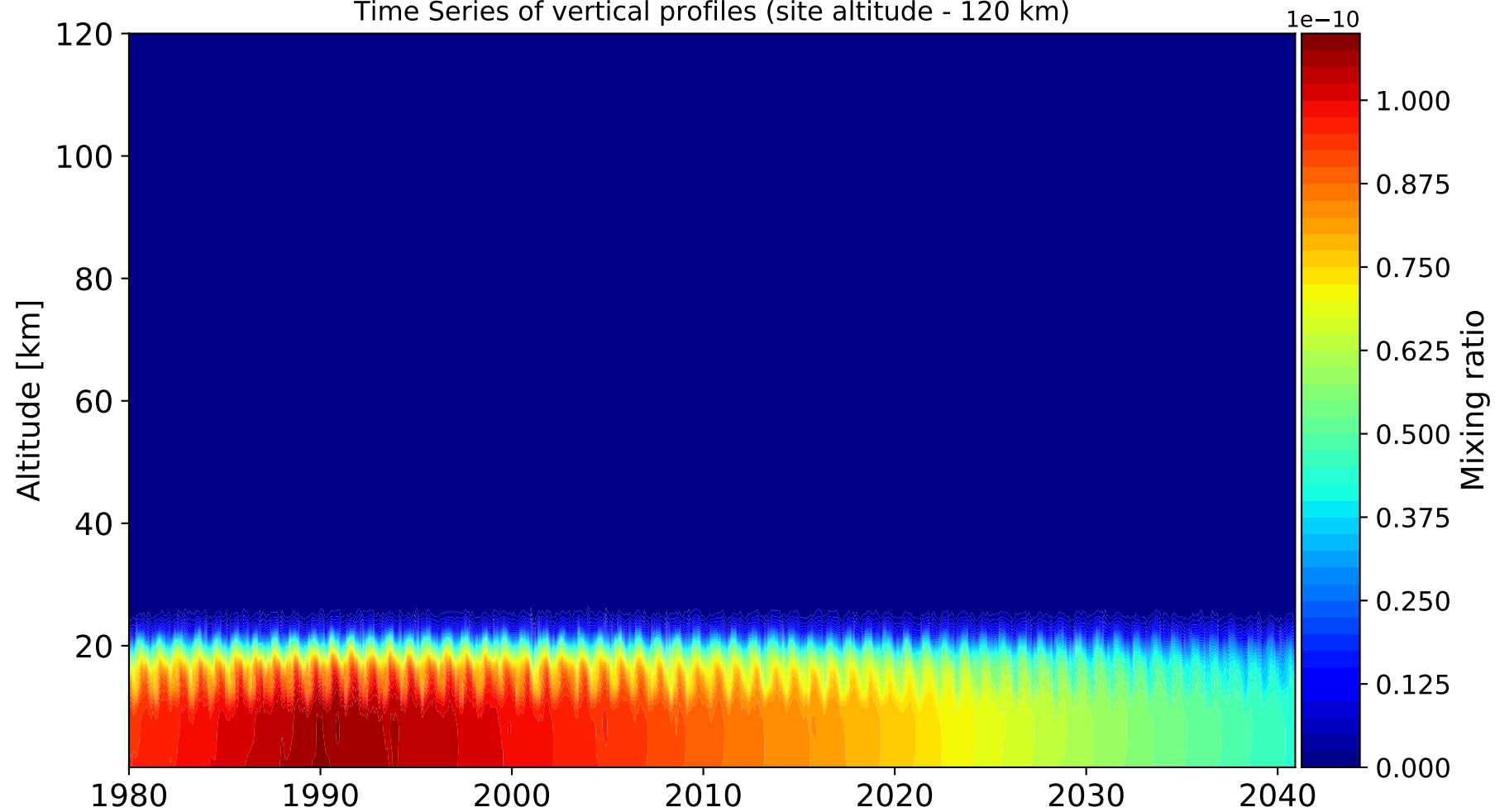
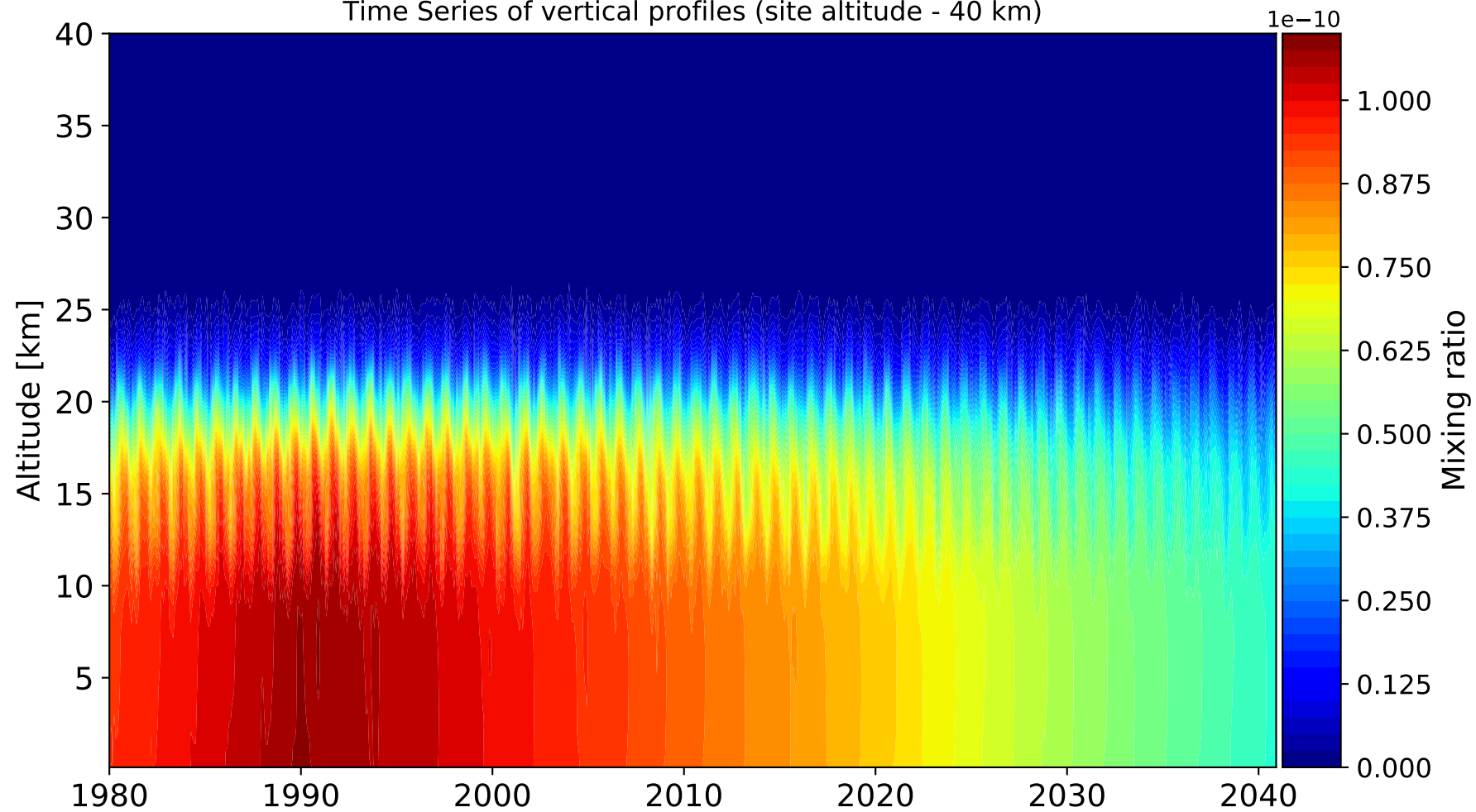


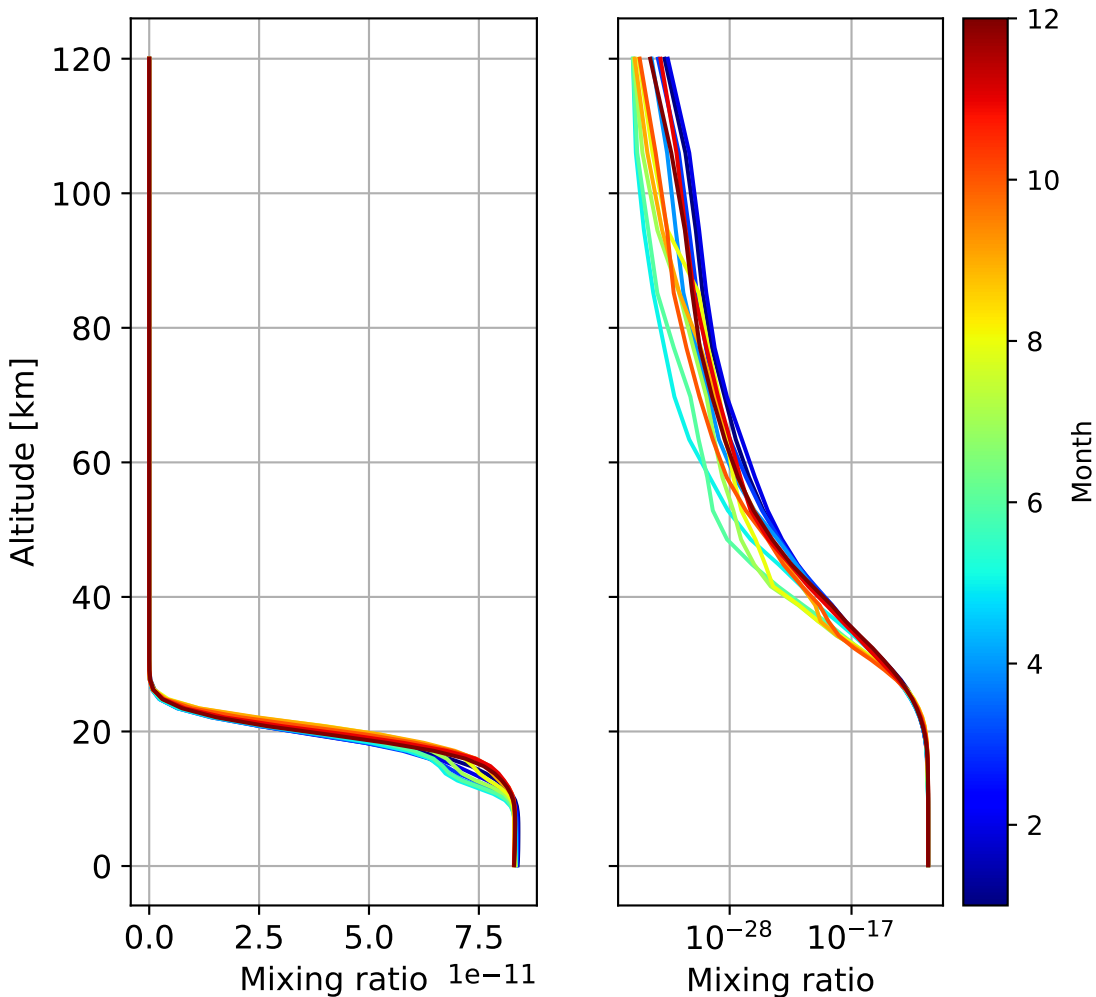
Time Series of vertical profiles (site altitude - 120 km)



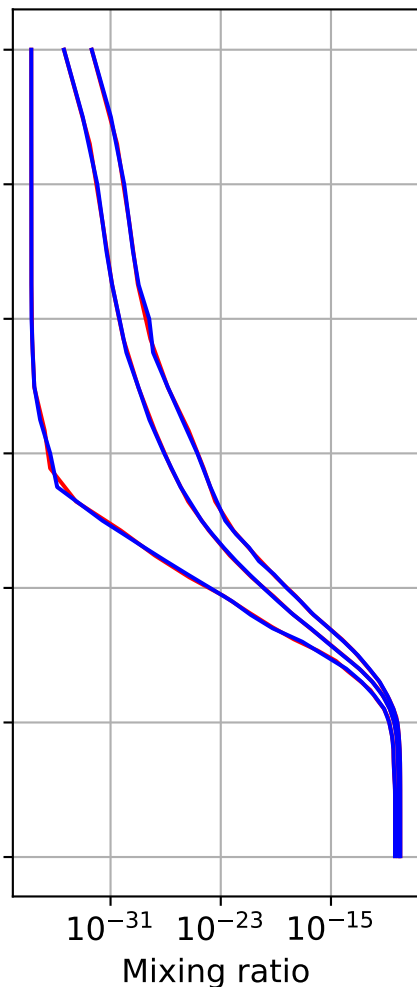
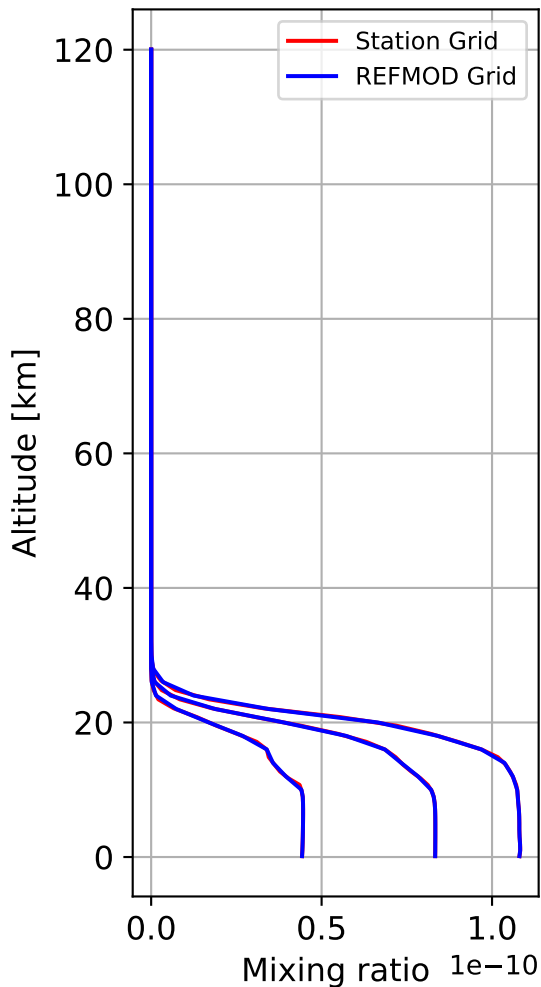
Time Series of vertical profiles (site altitude - 40 km)



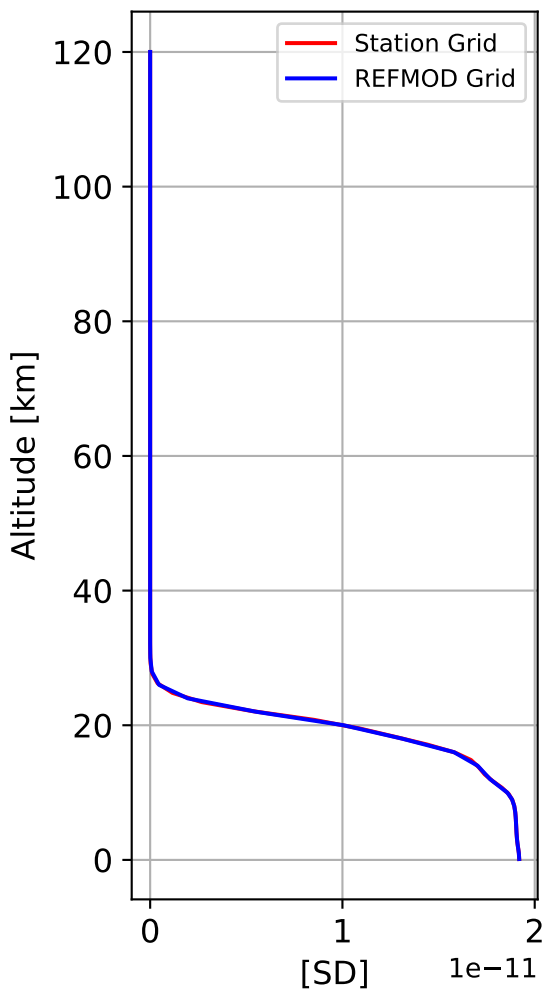
Monthly mean WACCM profile (interpolated to station grid)  
Orleans, 47.965N, 2.113E, 0.132kmasl



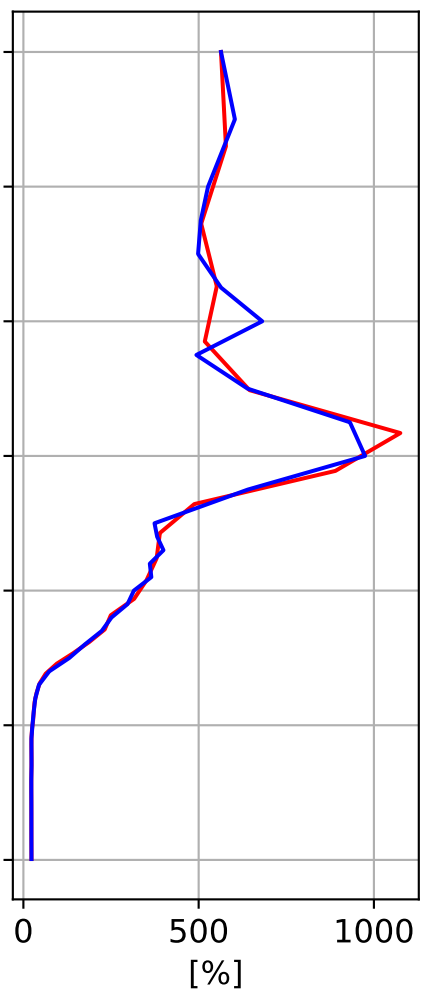
Min, Max, Mean of 732 profiles  
Orleans, 47.965N, 2.113E, 0.132km/s



### Std. Deviation



### Percent Deviation



# Level covariance matrix

1e-22

Altitude [km]

120

100

80

60

40

20

20

40

60

80

100

120

Altitude [km]

3.6

3.2

2.8

2.4

2.0

1.6

1.2

0.8

0.4

0.0

Mixing ratio[ $\sim 2$ ]

