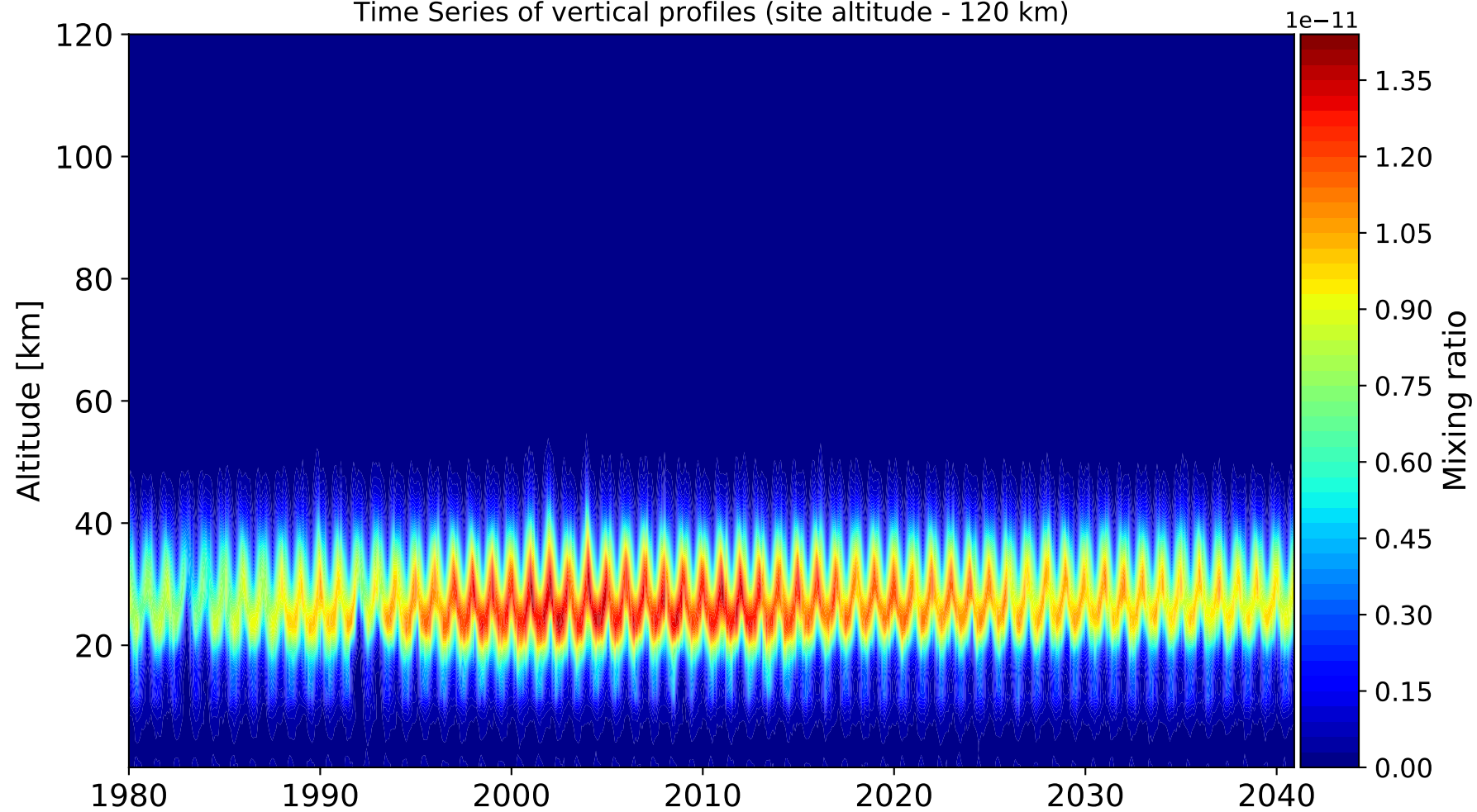
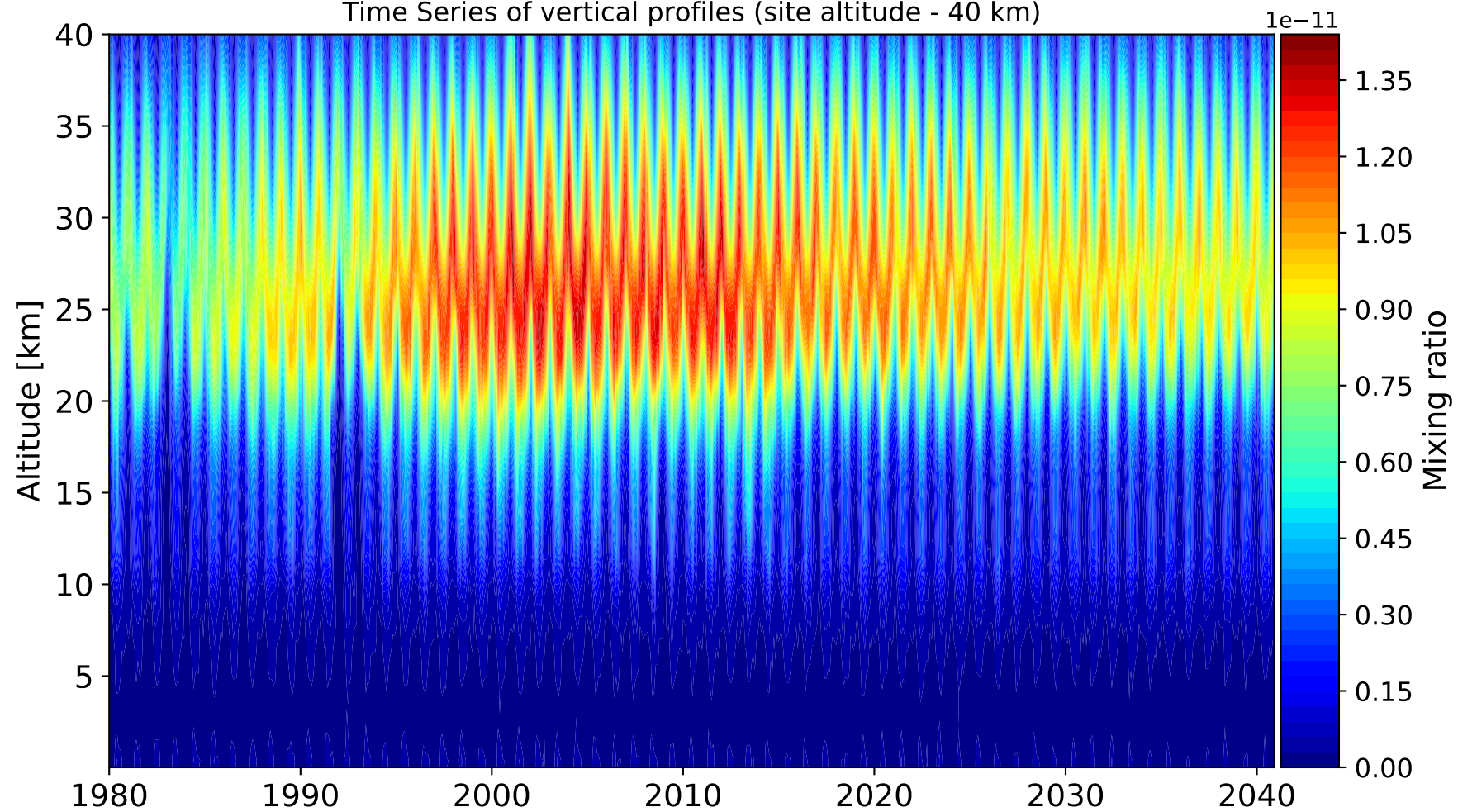


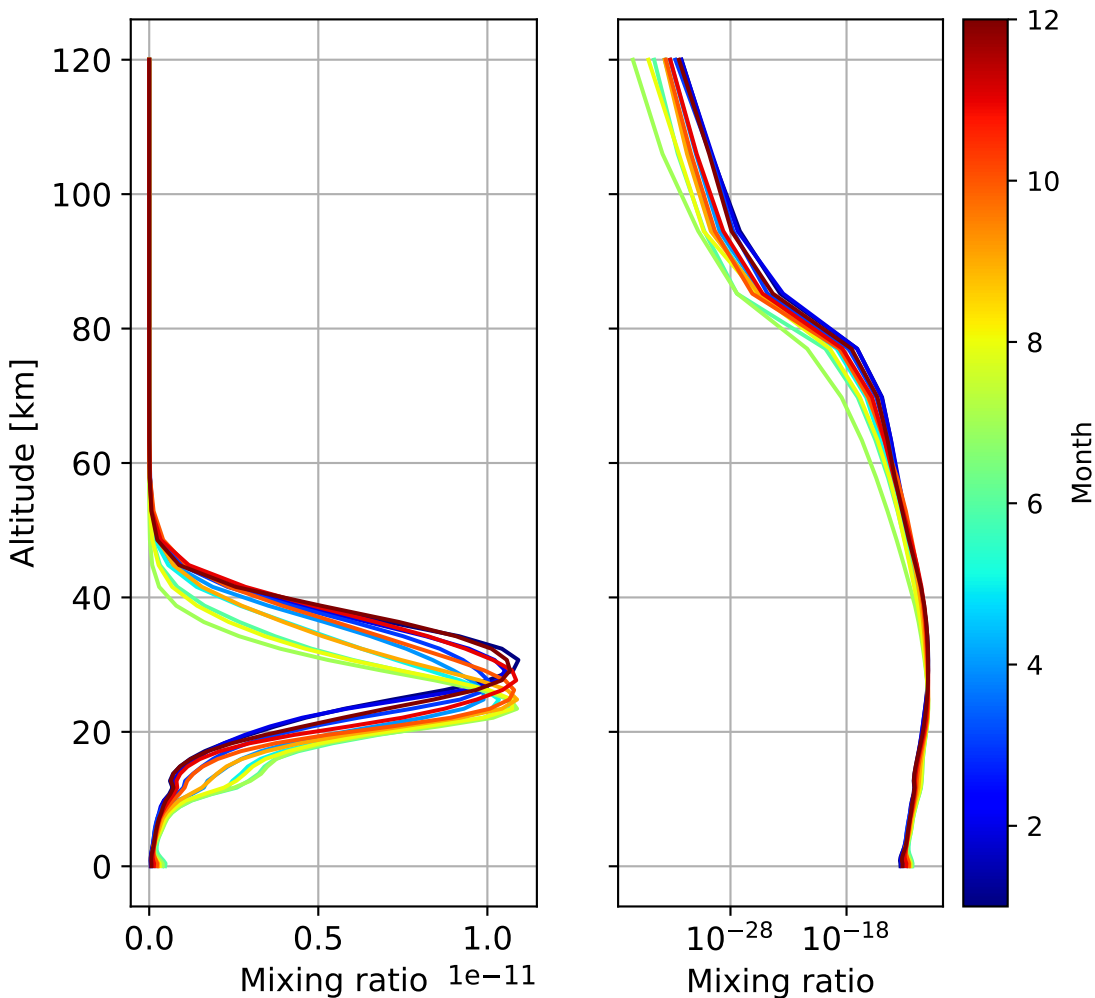
Time Series of vertical profiles (site altitude - 120 km)



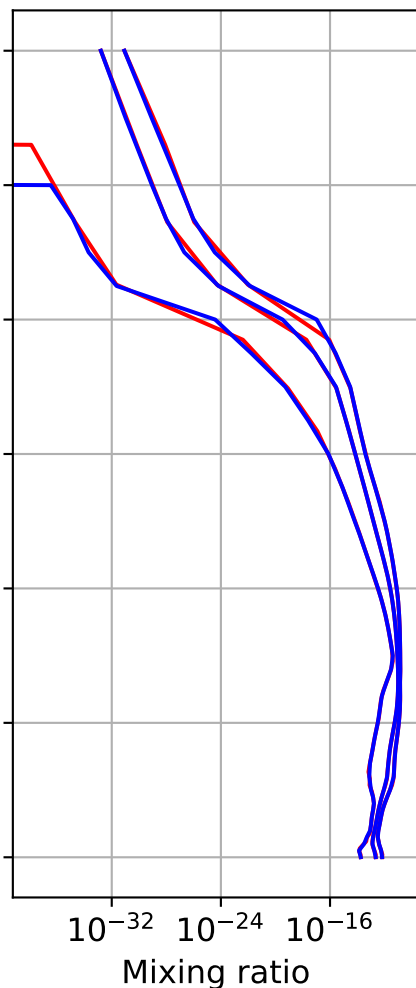
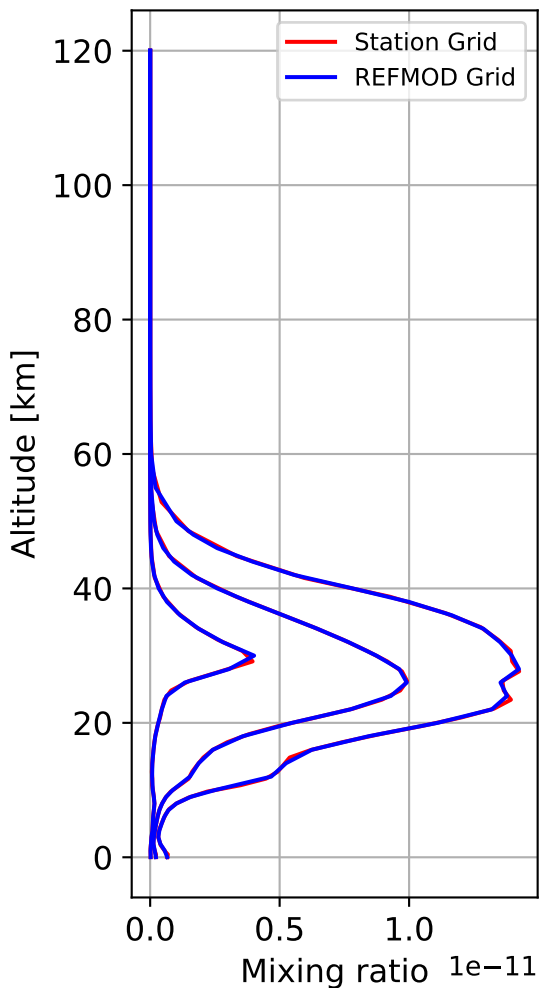
Time Series of vertical profiles (site altitude - 40 km)



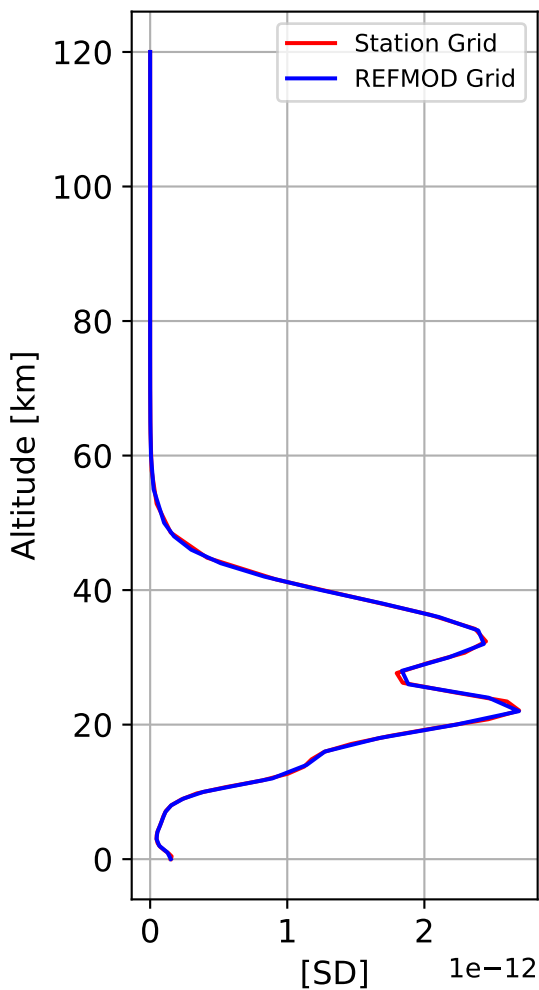
Monthly mean WACCM profile (interpolated to station grid)
St_Petersburg, 59.88N, 29.83E, 0.02kmasl



Min, Max, Mean of 732 profiles
St_Petersburg, 59.88N, 29.83E, 0.02kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-24

Altitude [km]

120
100
80
60
40
20Mixing ratio[~ 2]7.2
6.0
4.8
3.6
2.4
1.2
0.0
-1.2
-2.4

20

Altitude [km]

40

60

80

100

120

