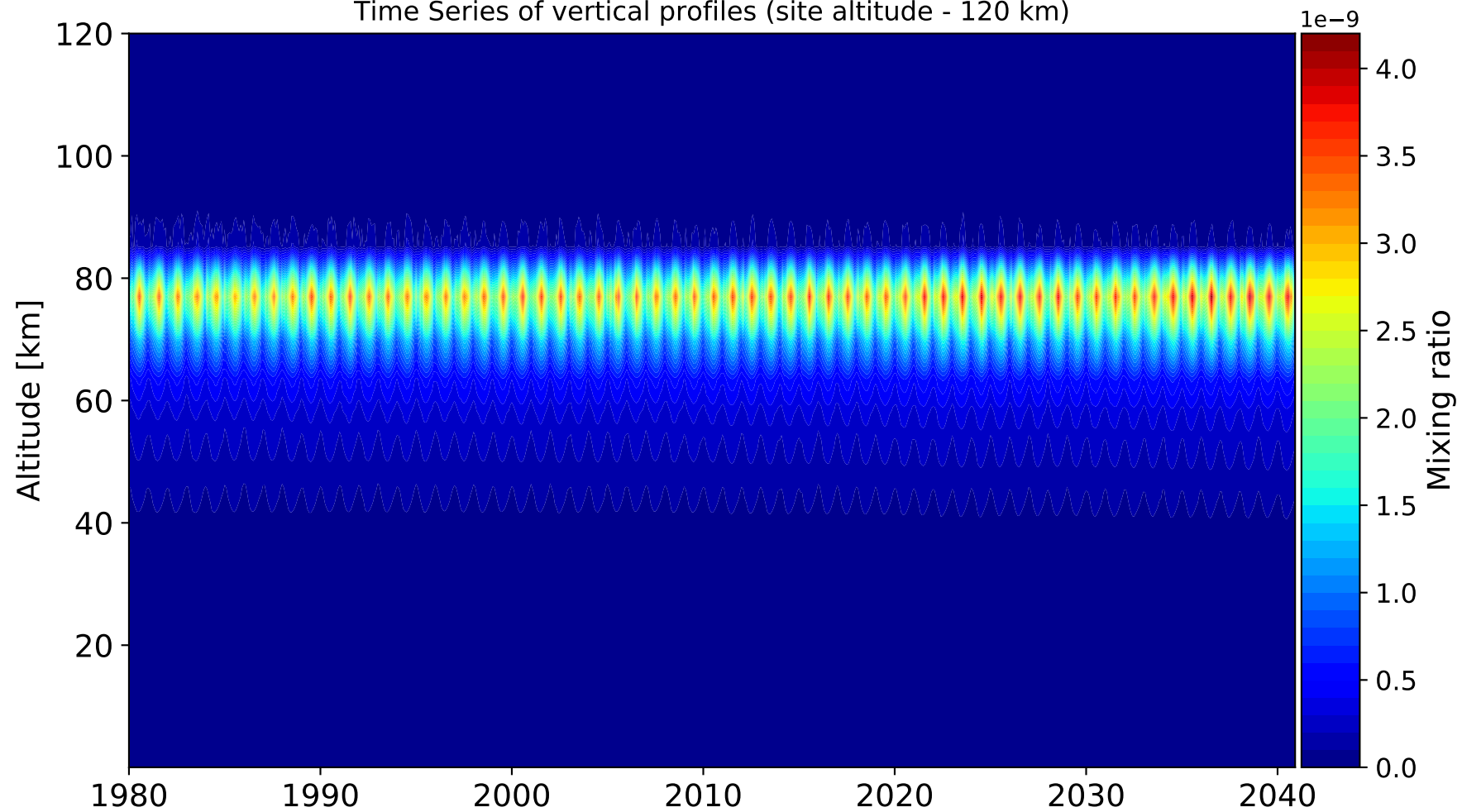
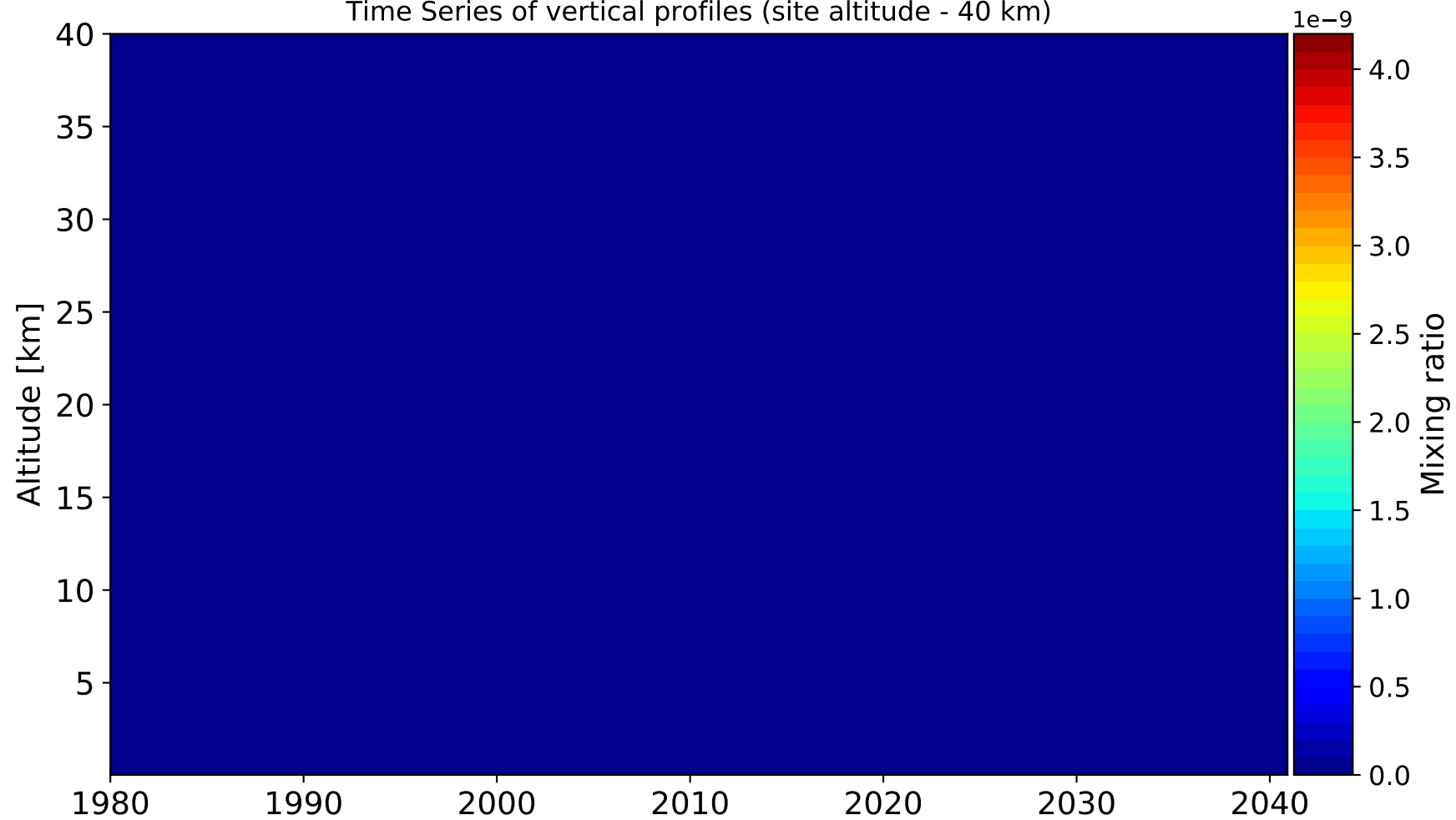


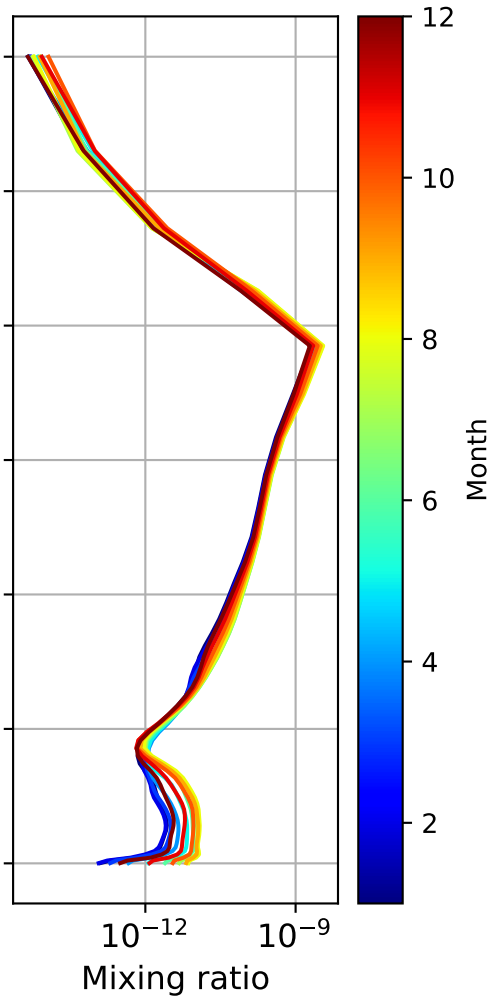
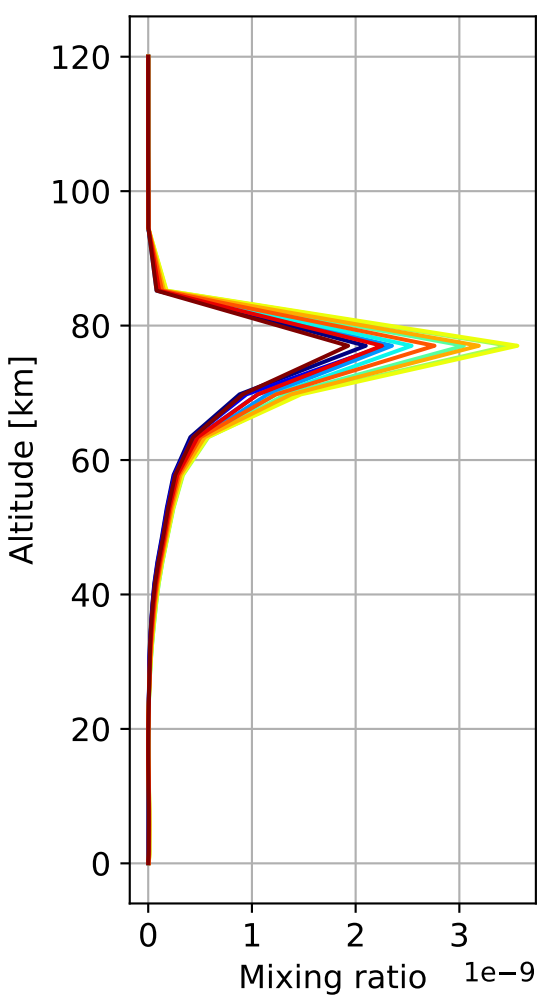
Time Series of vertical profiles (site altitude - 120 km)



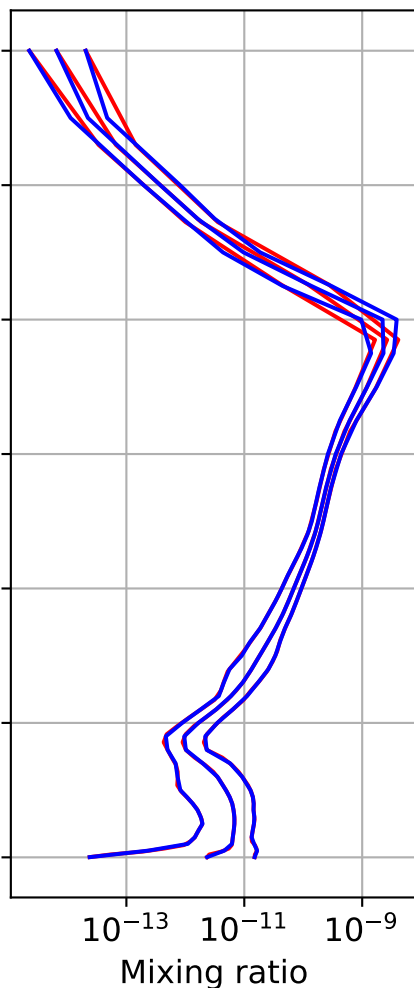
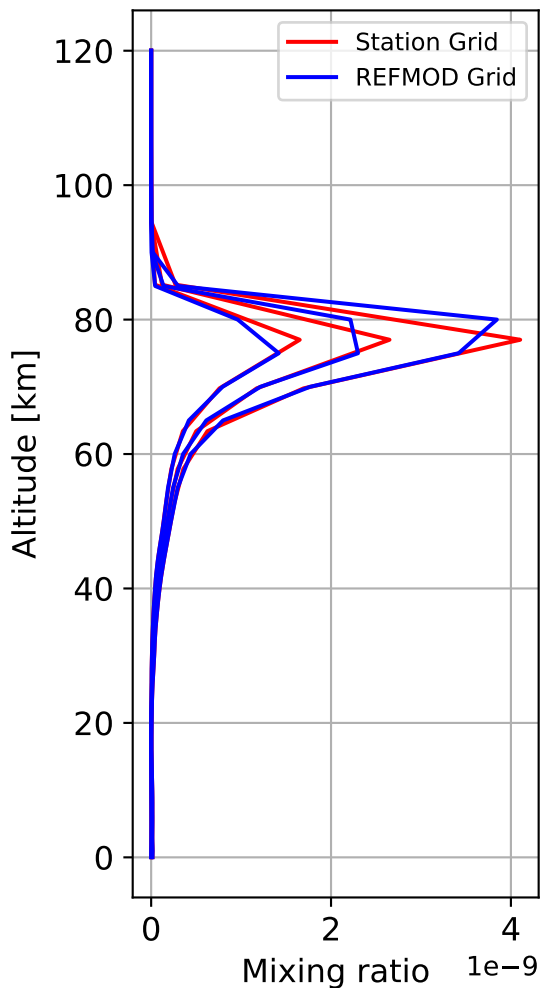
Time Series of vertical profiles (site altitude - 40 km)



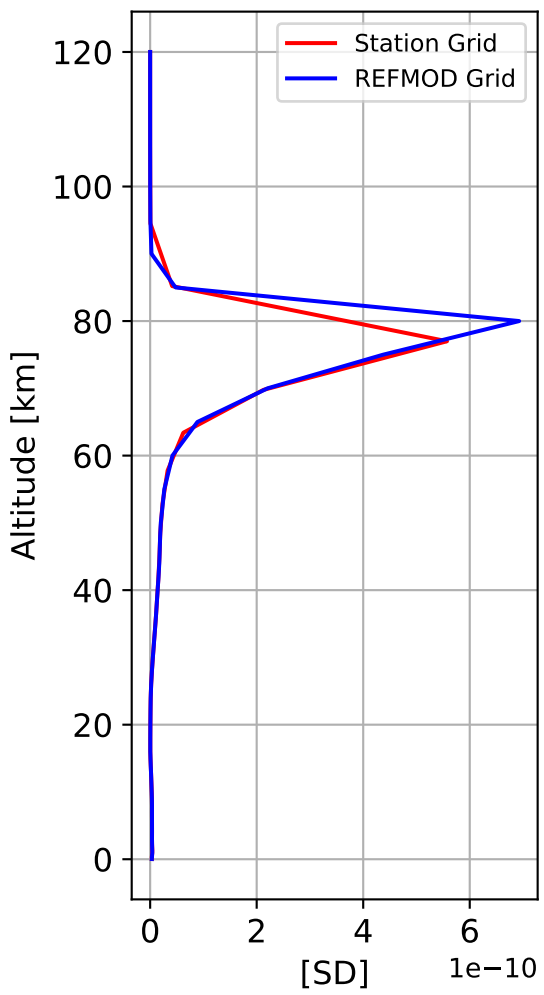
Monthly mean WACCM profile (interpolated to station grid)
Tsukuba, 36.05N, 140.12E, 0.031km/sl



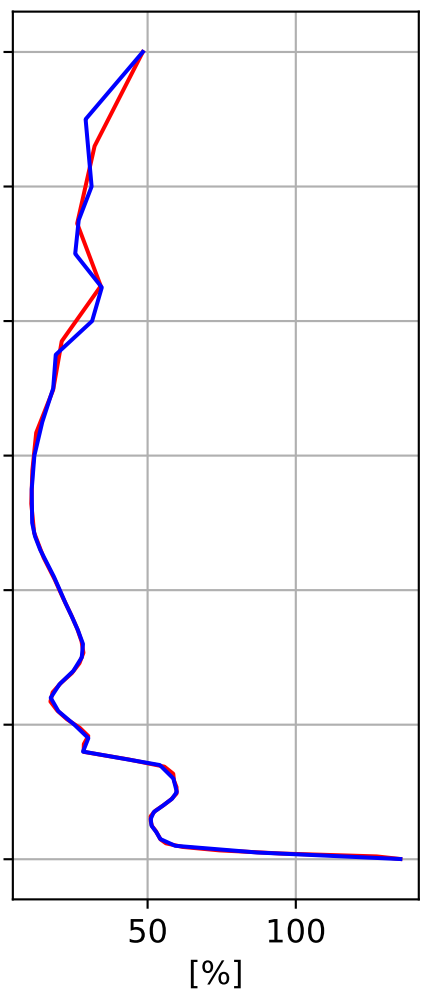
Min, Max, Mean of 732 profiles
Tsukuba, 36.05N, 140.12E, 0.031kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-19

Altitude [km]

120
100
80
60
40
20

20

40

60

80

100

120

Altitude [km]

2.8

2.4

2.0

1.6

1.2

0.8

0.4

0.0

Mixing ratio[~ 2]