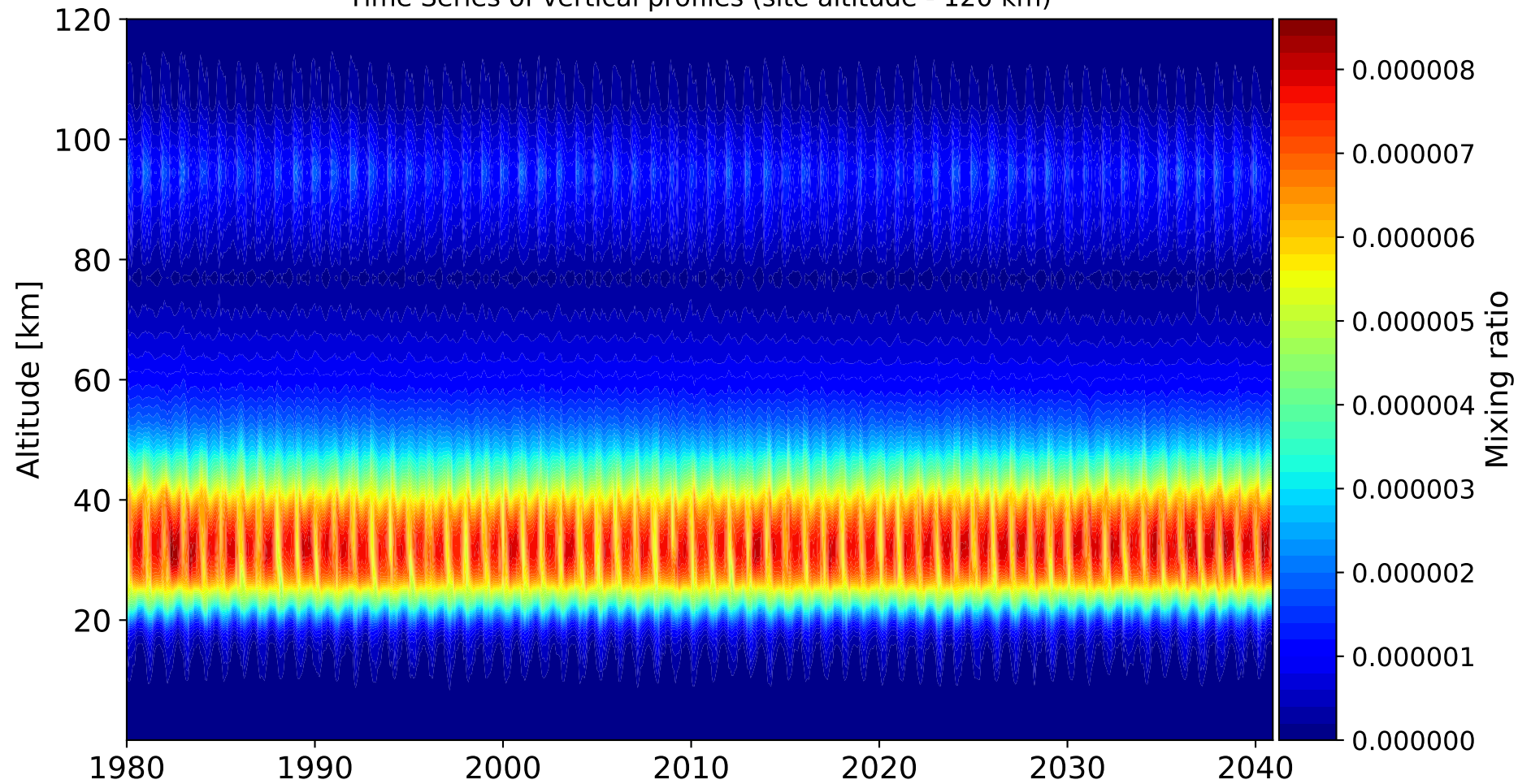
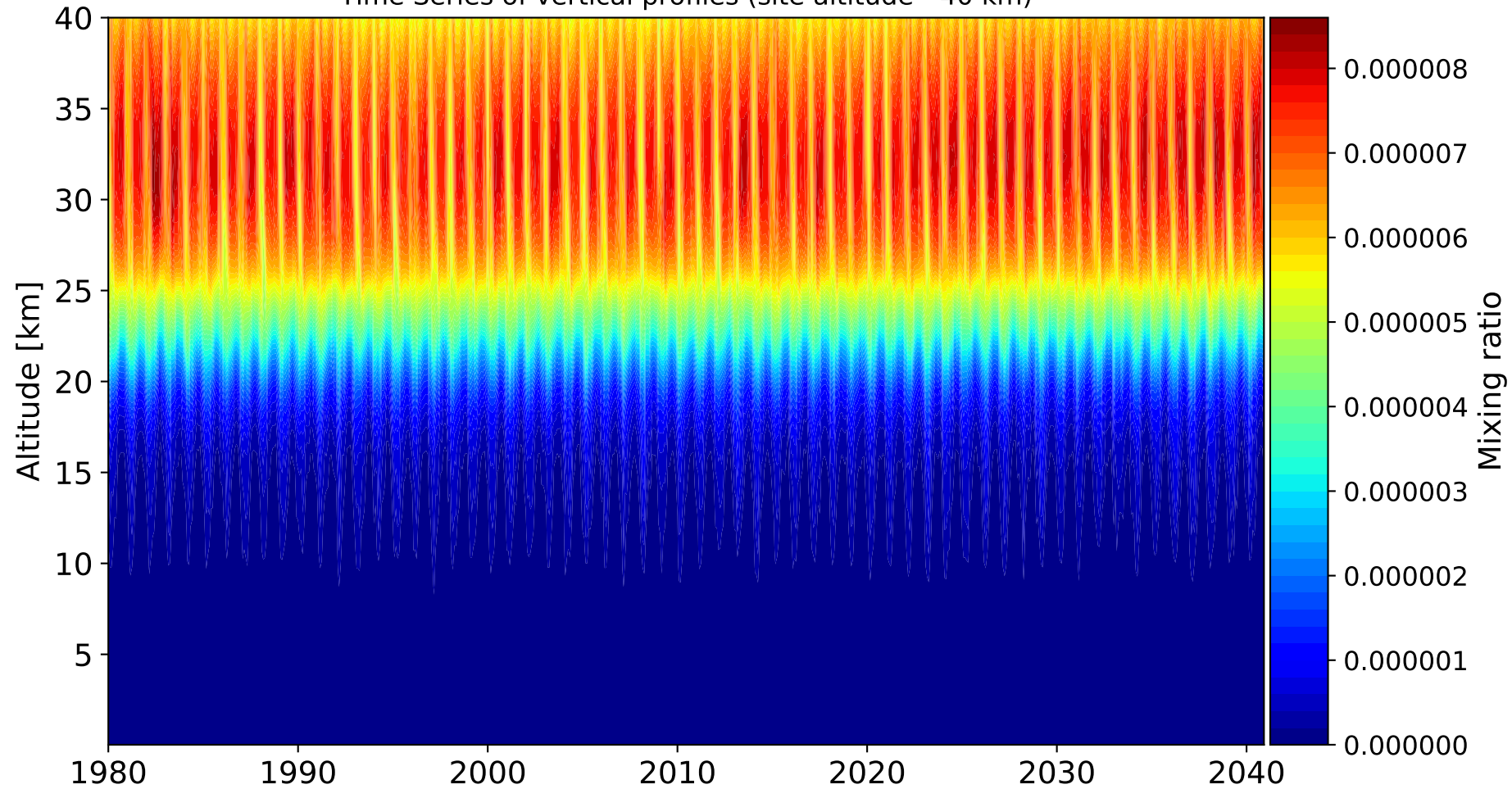


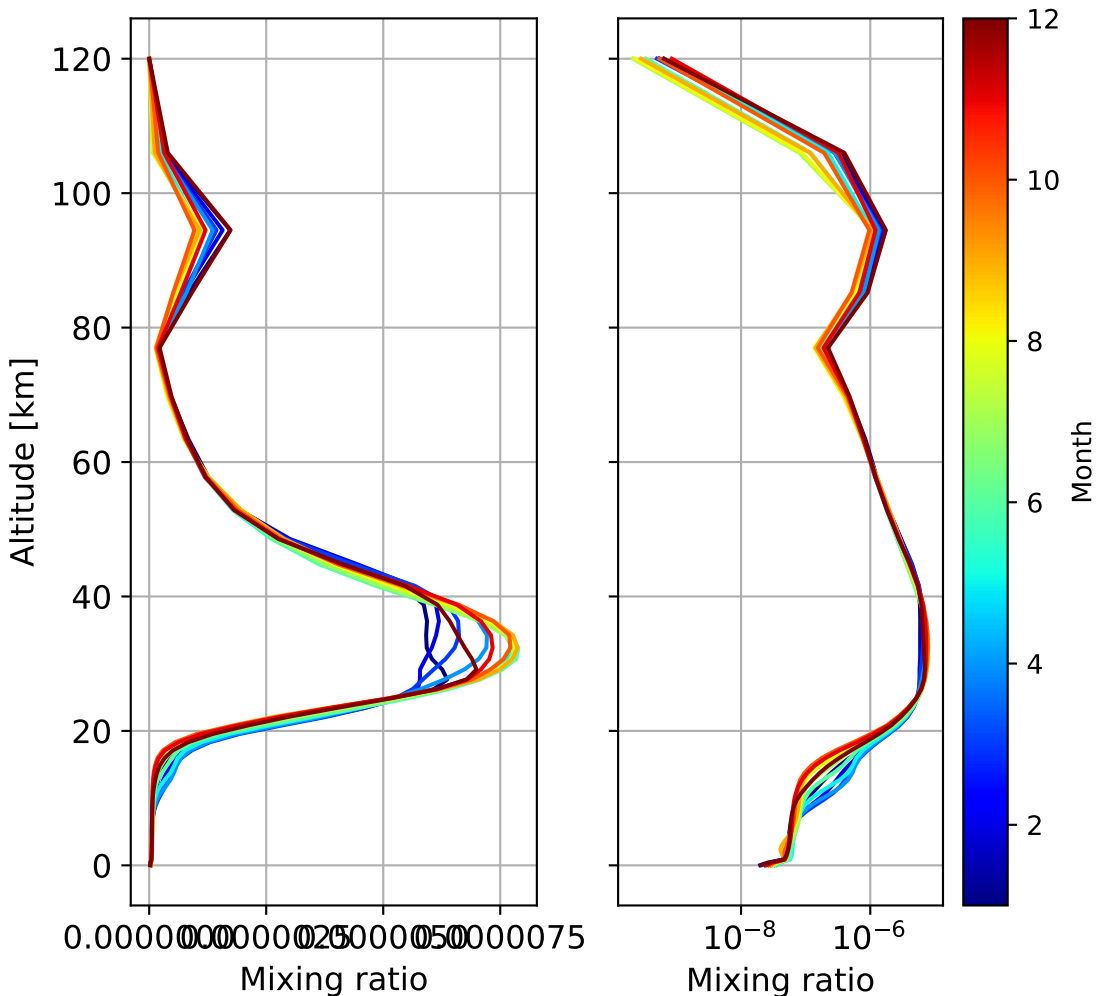
Time Series of vertical profiles (site altitude - 120 km)



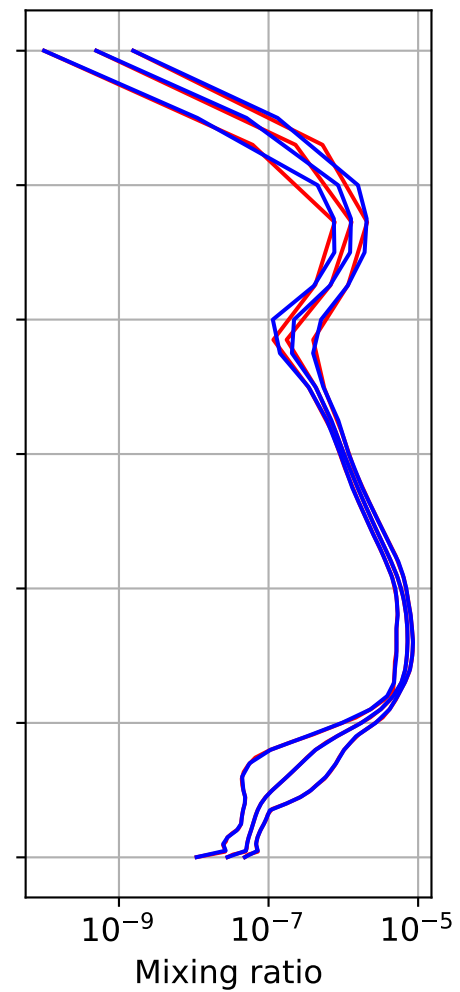
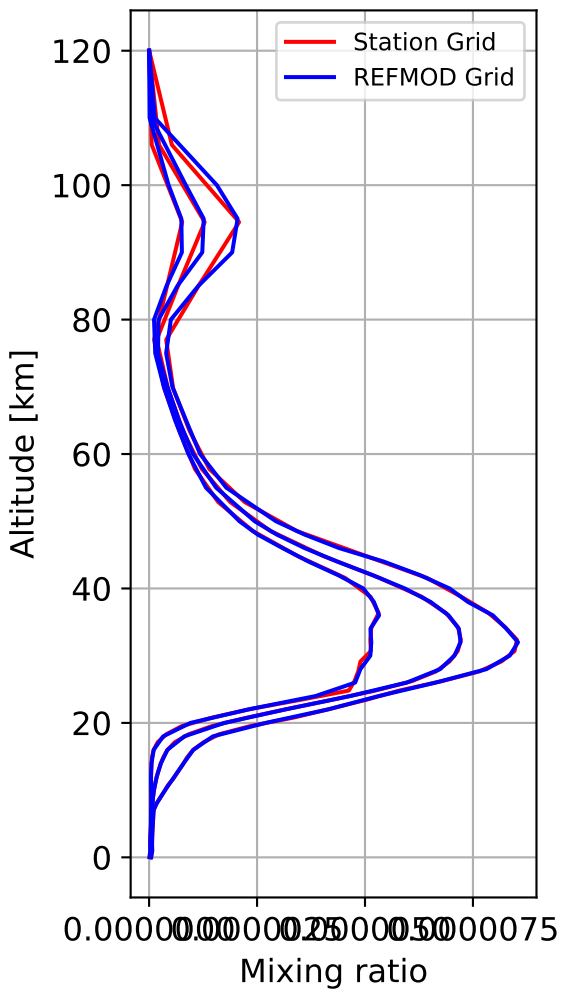
Time Series of vertical profiles (site altitude - 40 km)



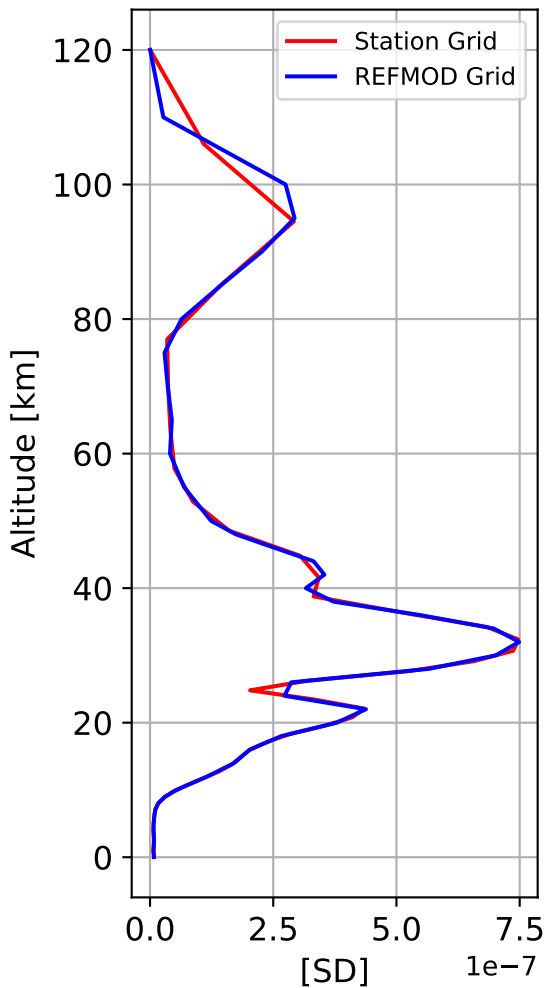
Monthly mean WACCM profile (interpolated to station grid)
Tsukuba, 36.05N, 140.12E, 0.031km/sl



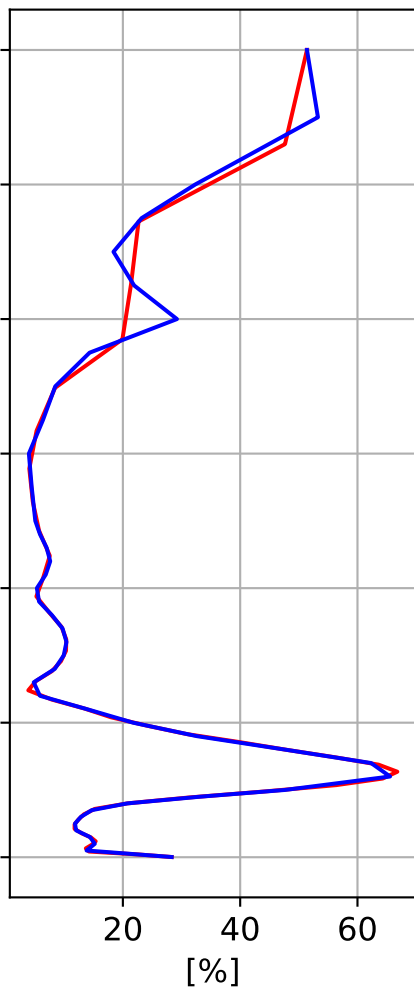
Min, Max, Mean of 732 profiles
Tsukuba, 36.05N, 140.12E, 0.031kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-13

Altitude [km]

120

100

80

60

40

20

20

Altitude [km]

40

60

80

100

120

5.4

4.5

3.6

2.7

1.8

0.9

0.0

-0.9

-1.8

Mixing ratio[~ 2]