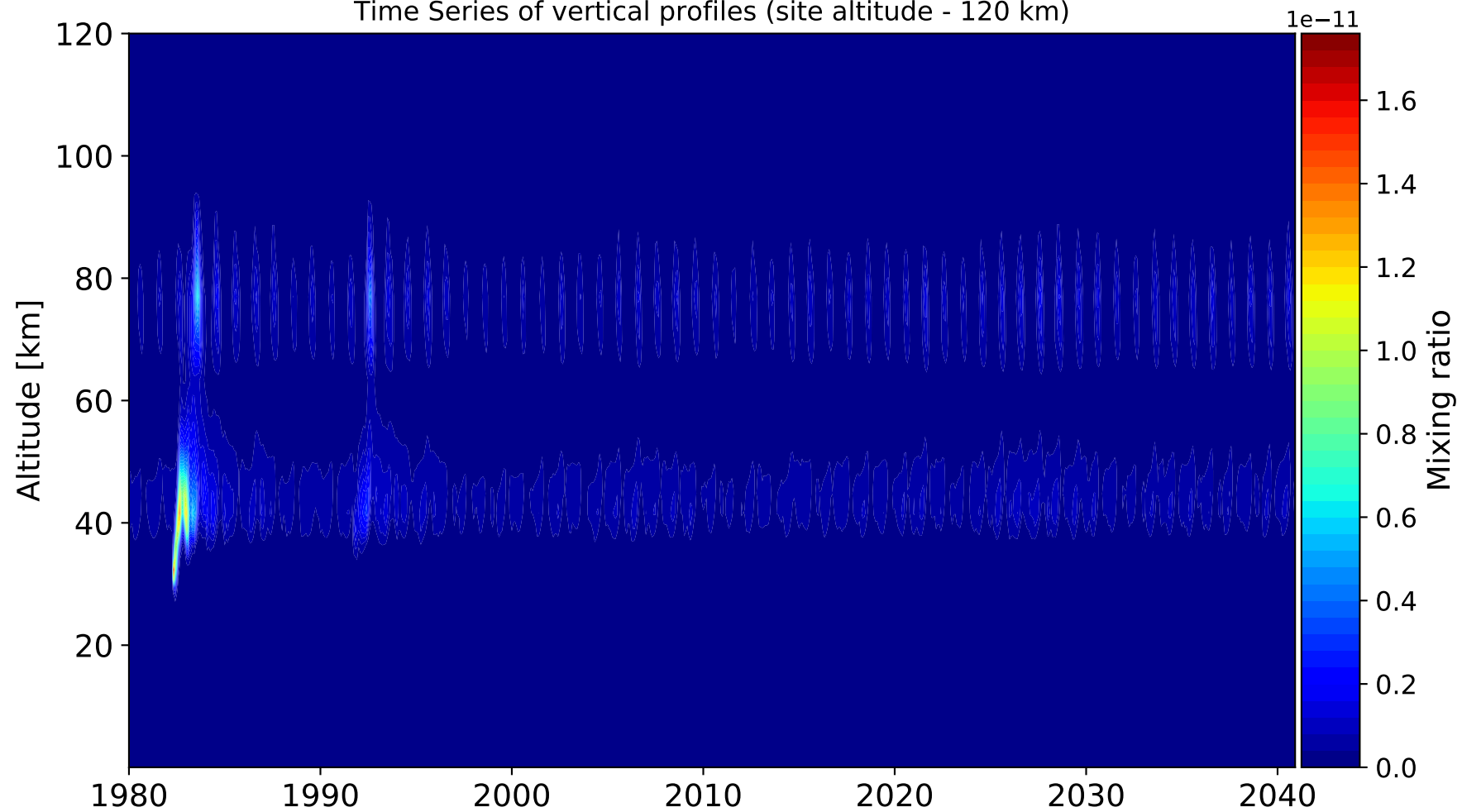
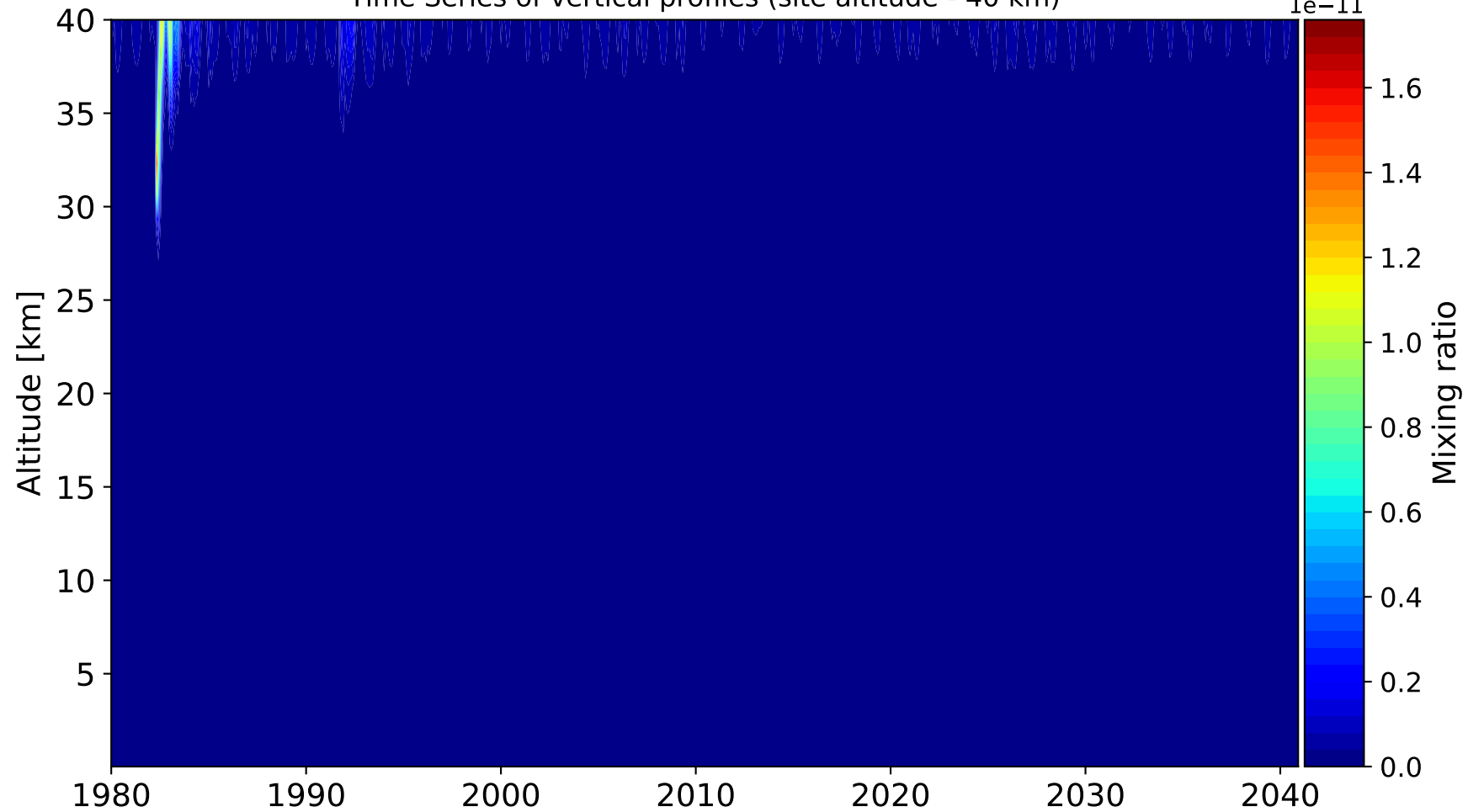


Time Series of vertical profiles (site altitude - 120 km)

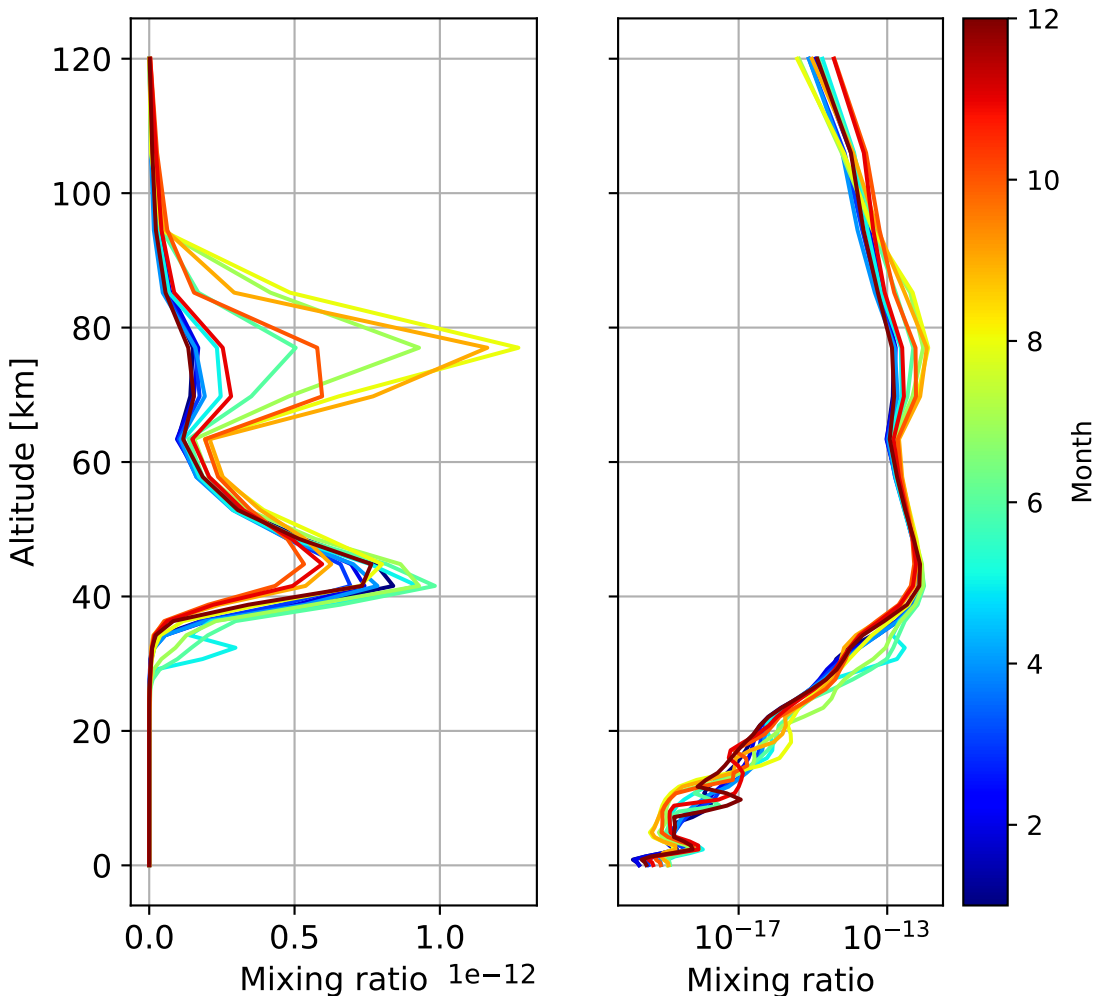


Time Series of vertical profiles (site altitude - 40 km)

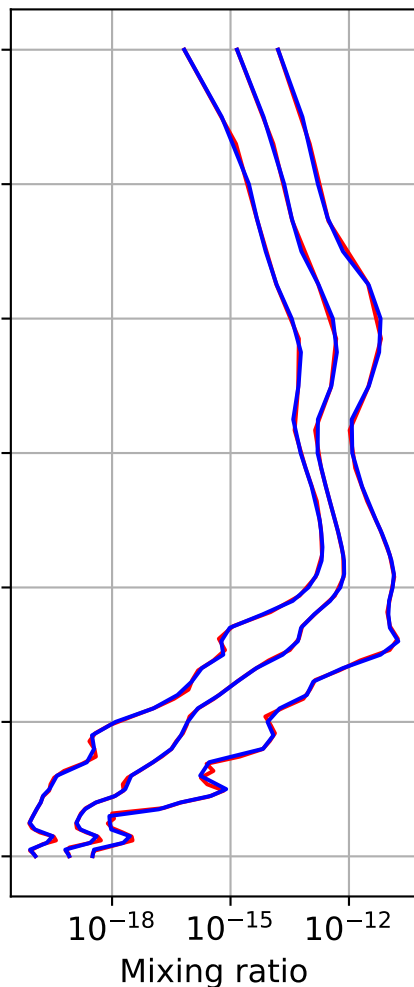
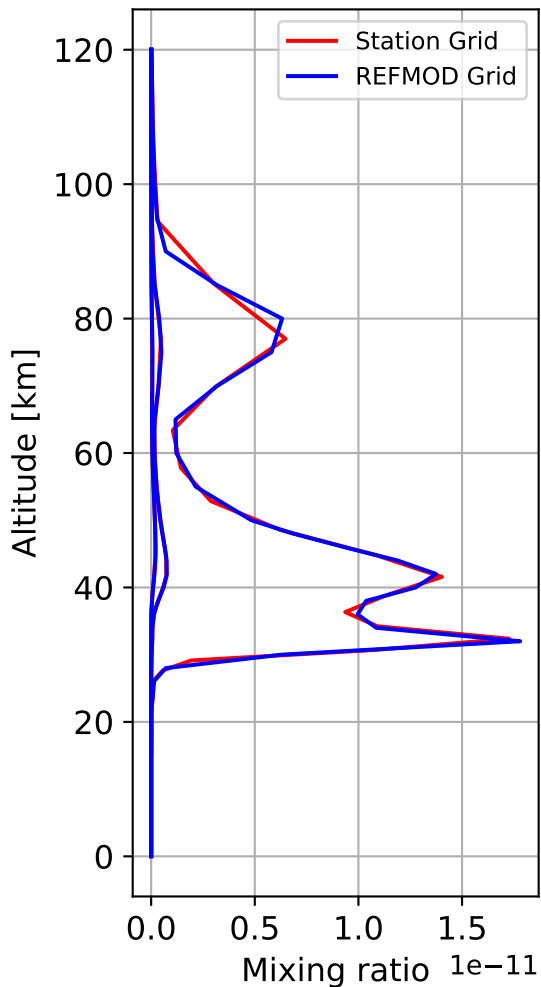
$1e-11$



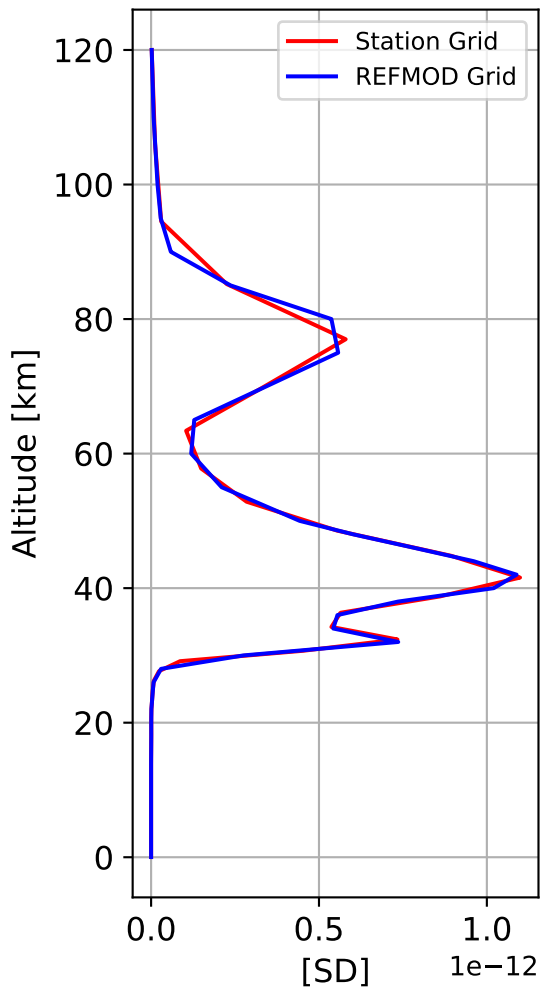
Monthly mean WACCM profile (interpolated to station grid)
Tsukuba, 36.05N, 140.12E, 0.031kmasl



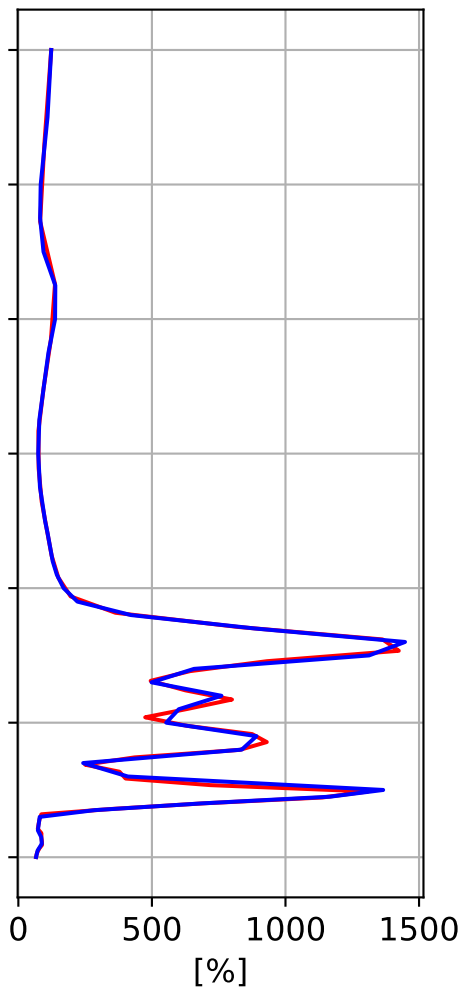
Min, Max, Mean of 732 profiles
Tsukuba, 36.05N, 140.12E, 0.031kmasl



Std. Deviation



Percent Deviation

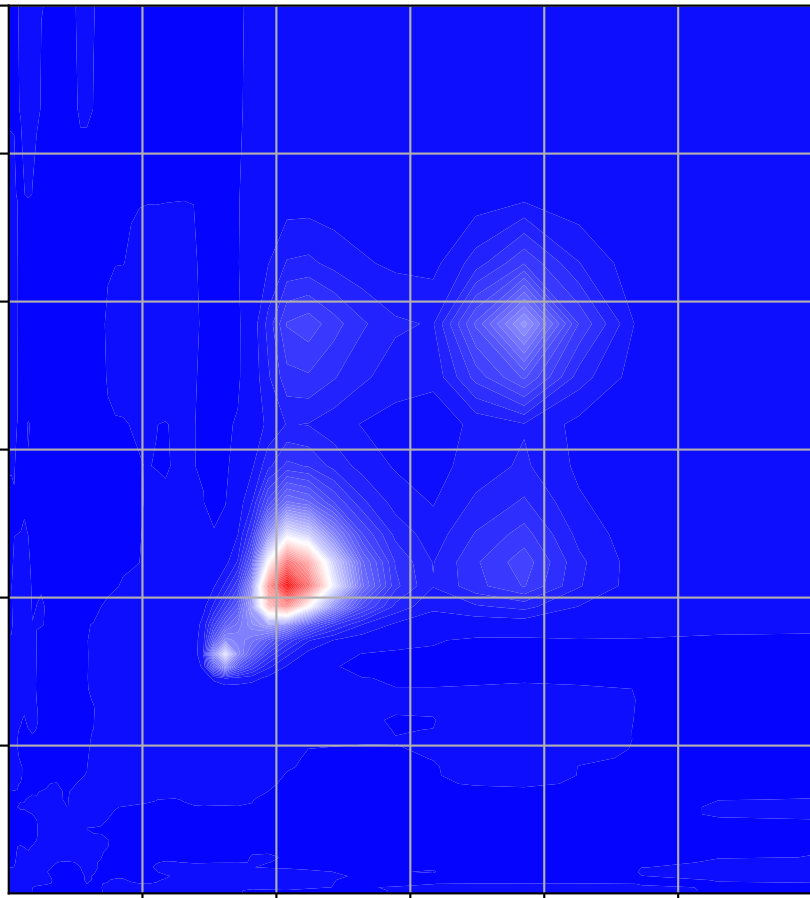


Level covariance matrix

$1e-24$

Altitude [km]

120
100
80
60
40
20



1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00

Mixing ratio[²]

20 40 60 80 100 120

Altitude [km]