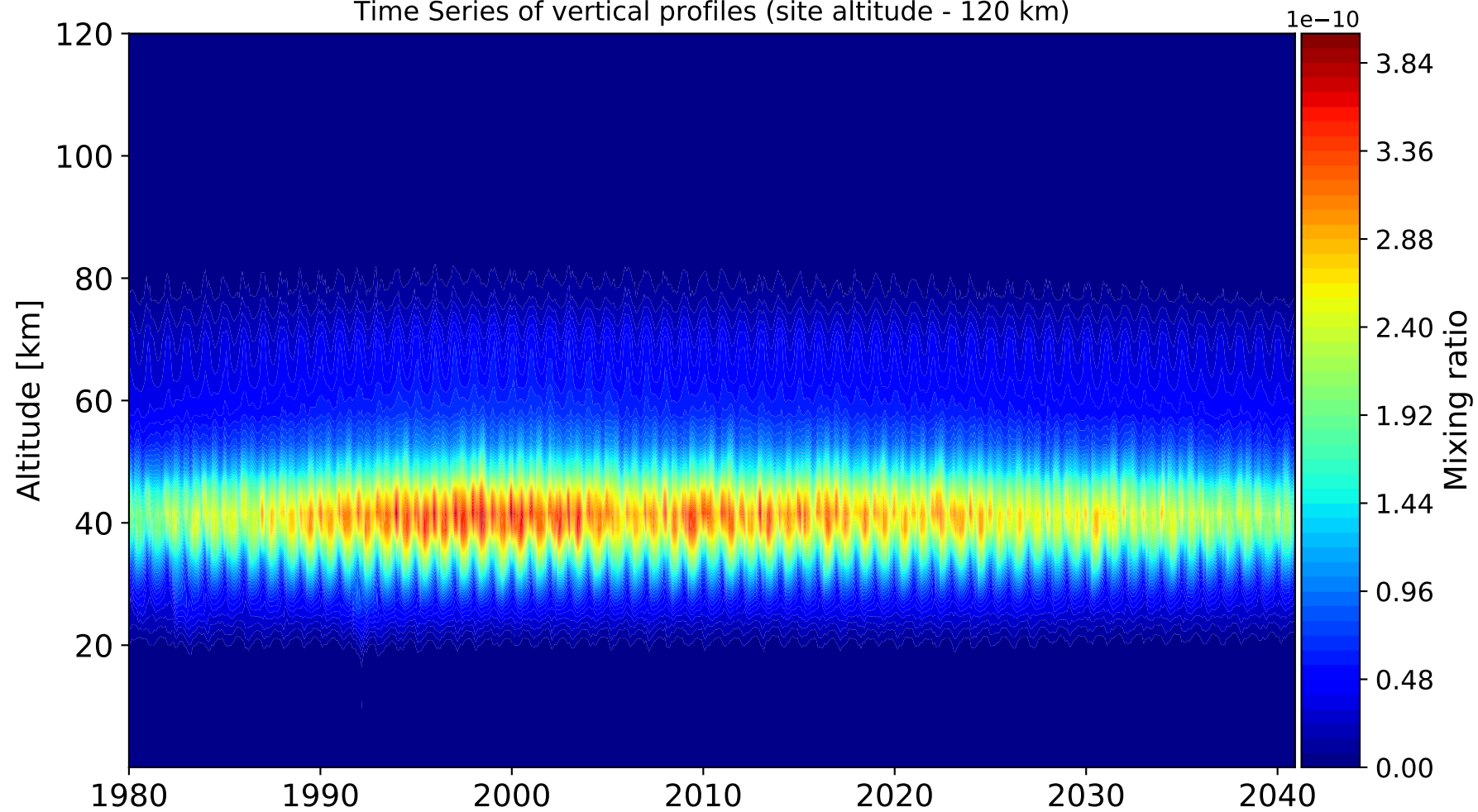
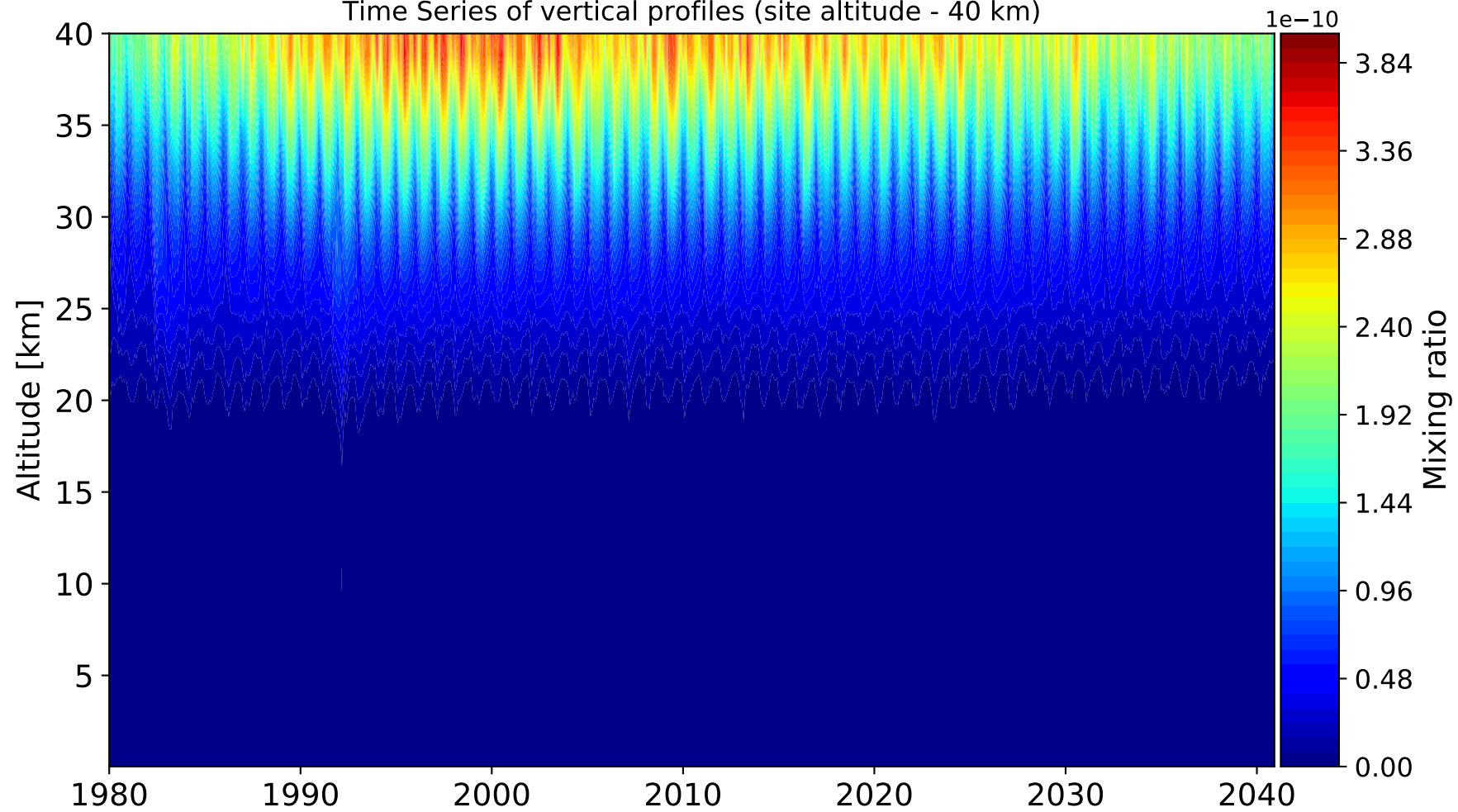


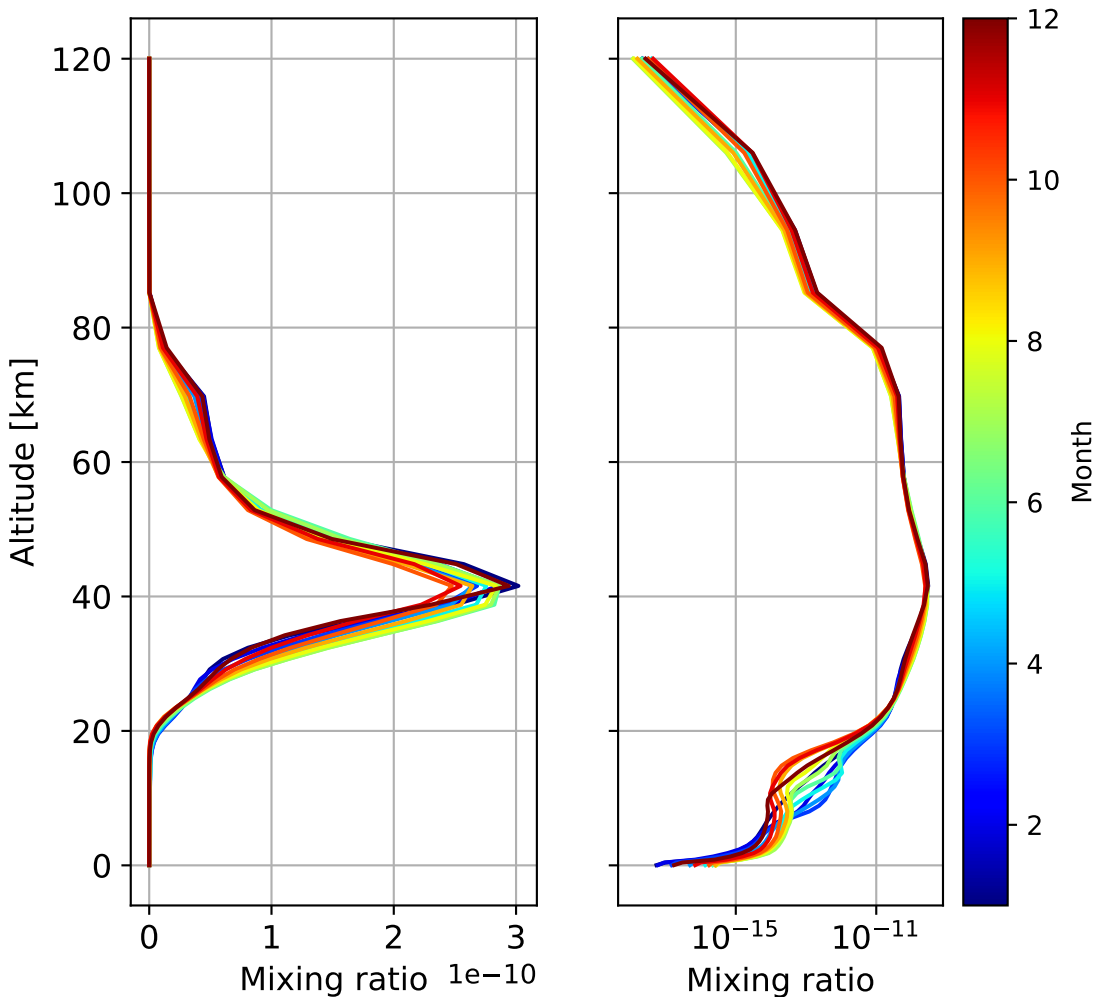
Time Series of vertical profiles (site altitude - 120 km)



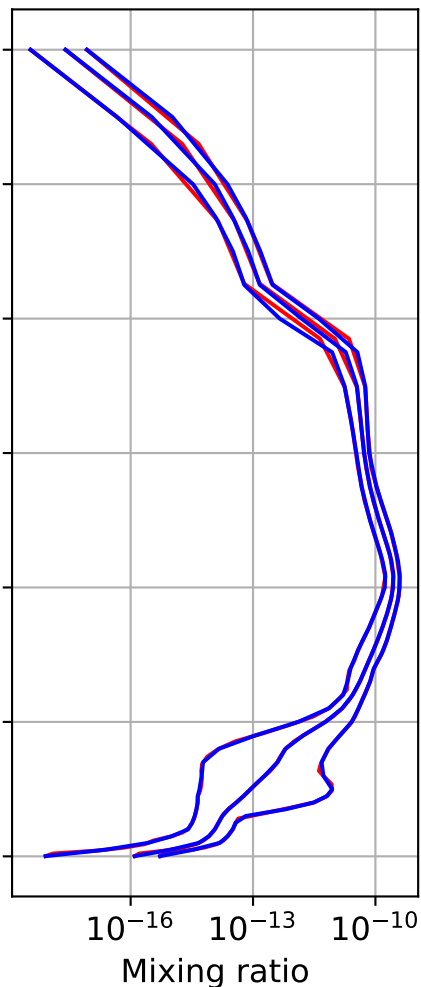
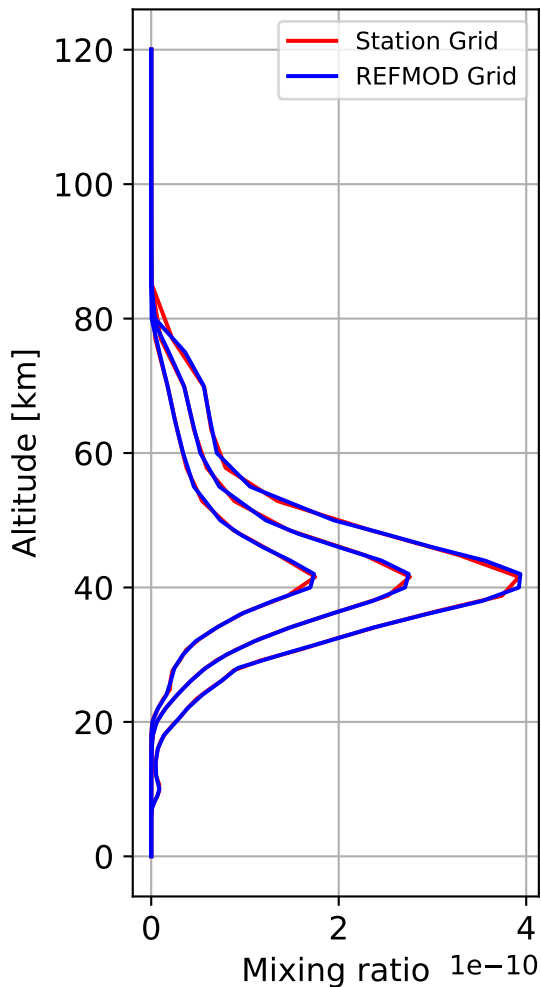
Time Series of vertical profiles (site altitude - 40 km)



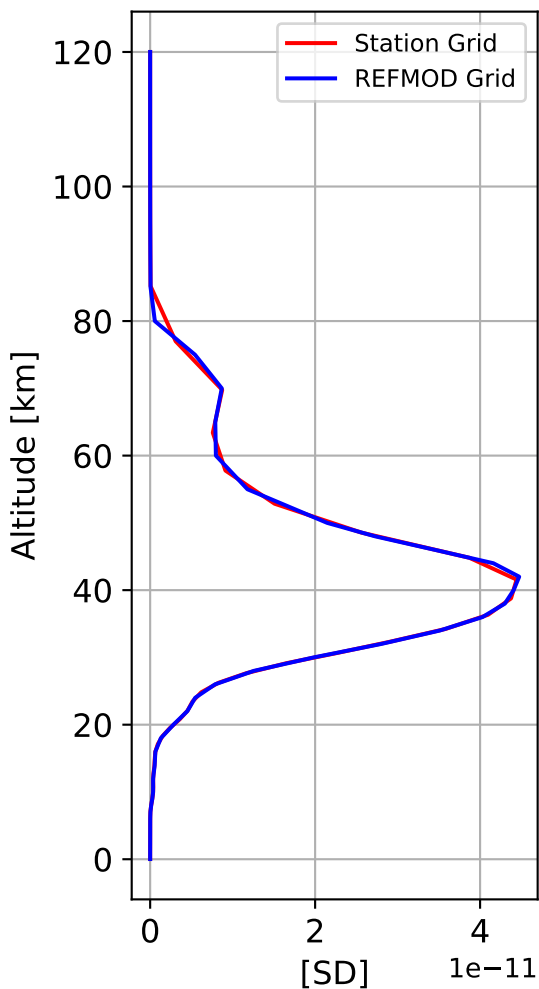
Monthly mean WACCM profile (interpolated to station grid) Tsukuba, 36.05N, 140.12E, 0.031km/sl



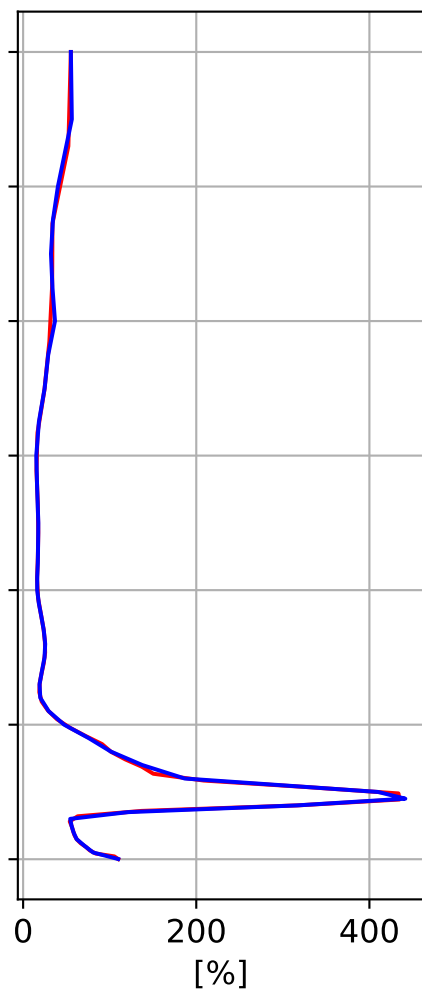
Min, Max, Mean of 732 profiles
Tsukuba, 36.05N, 140.12E, 0.031kmasl



Std. Deviation



Percent Deviation

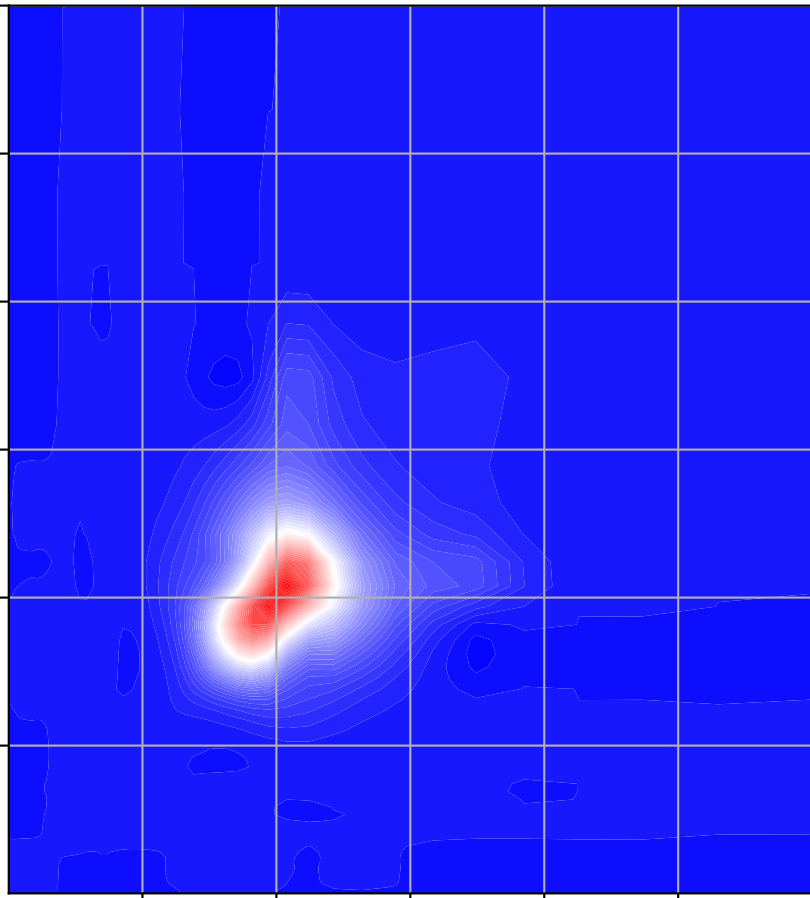


Level covariance matrix

$1e-21$

Altitude [km]

120
100
80
60
40
20



1.92
1.68
1.44
1.20
0.96
0.72
0.48
0.24
0.00

Mixing ratio[~ 2]

Altitude [km]