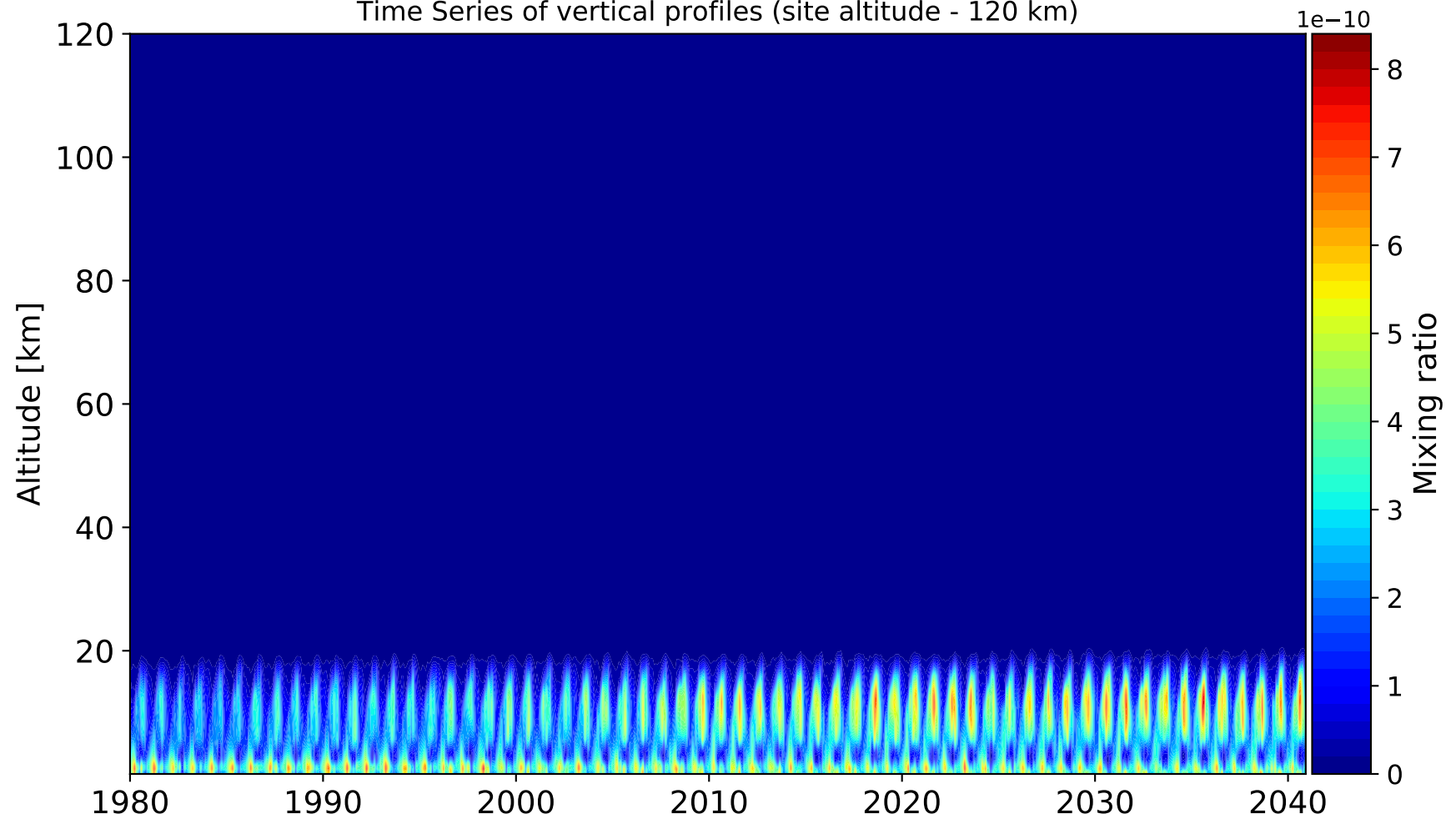
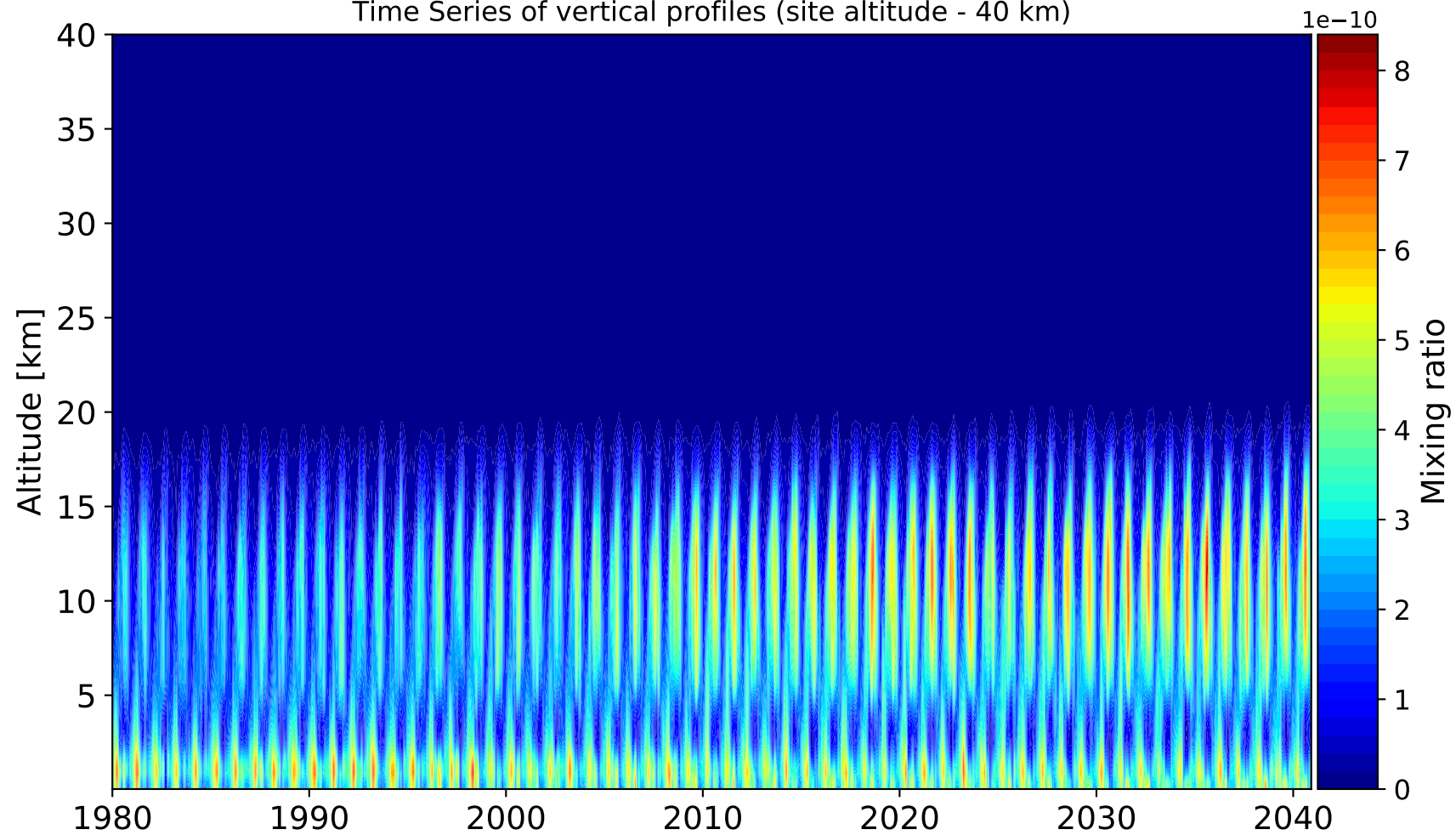


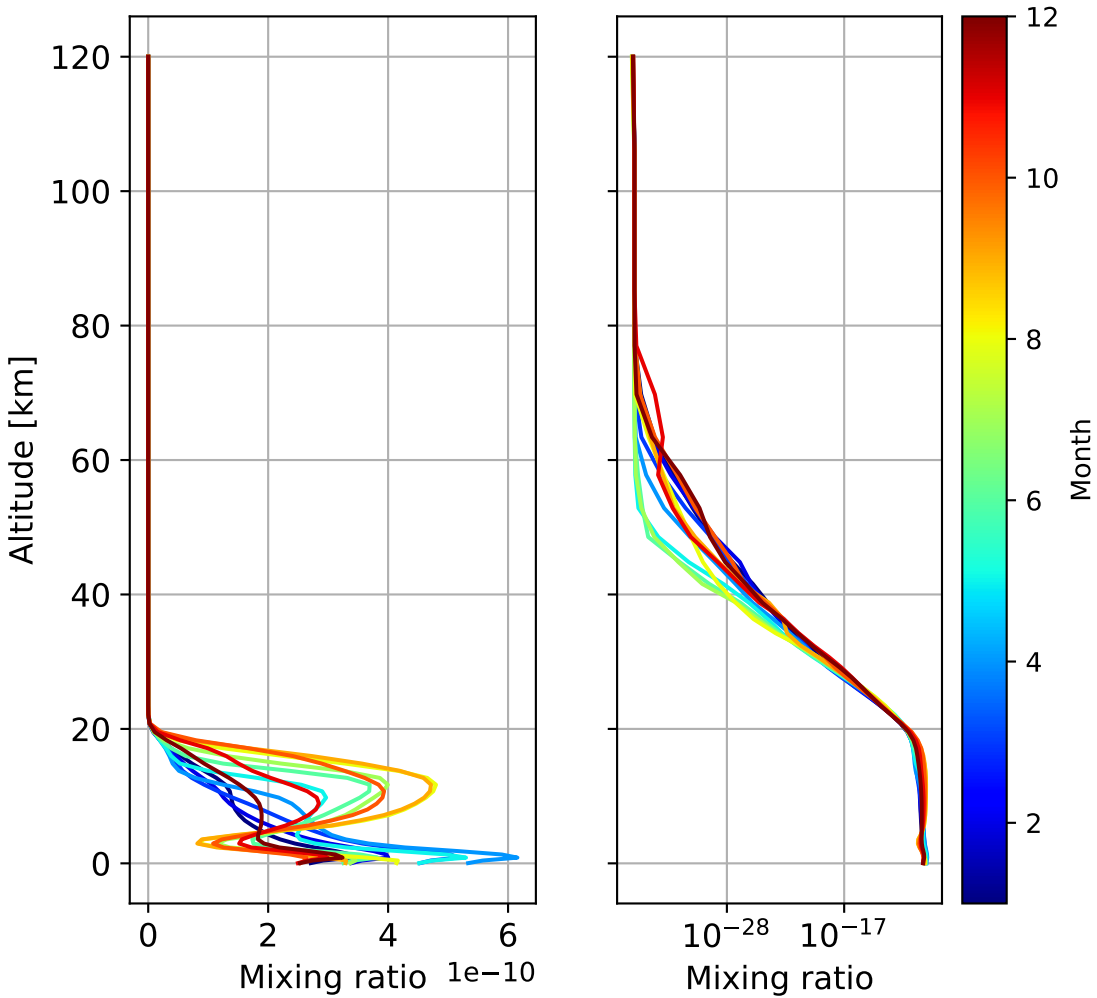
Time Series of vertical profiles (site altitude - 120 km)



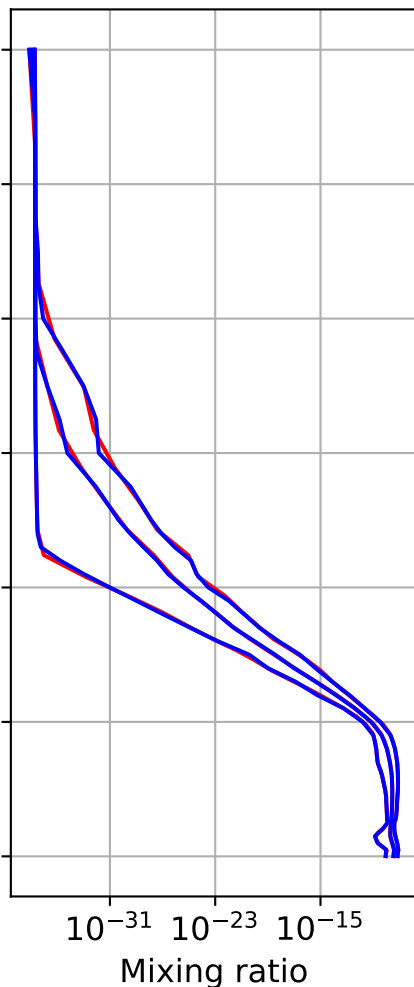
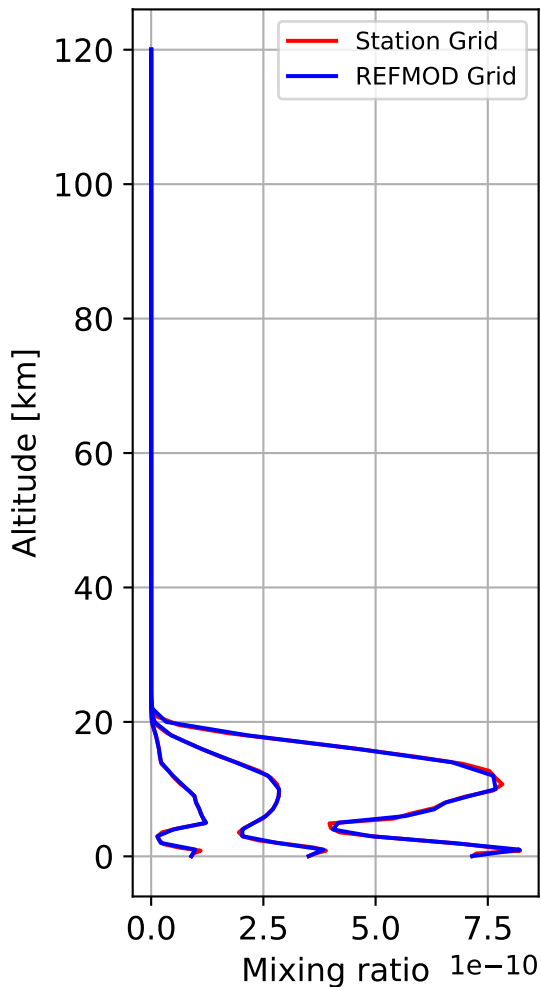
Time Series of vertical profiles (site altitude - 40 km)



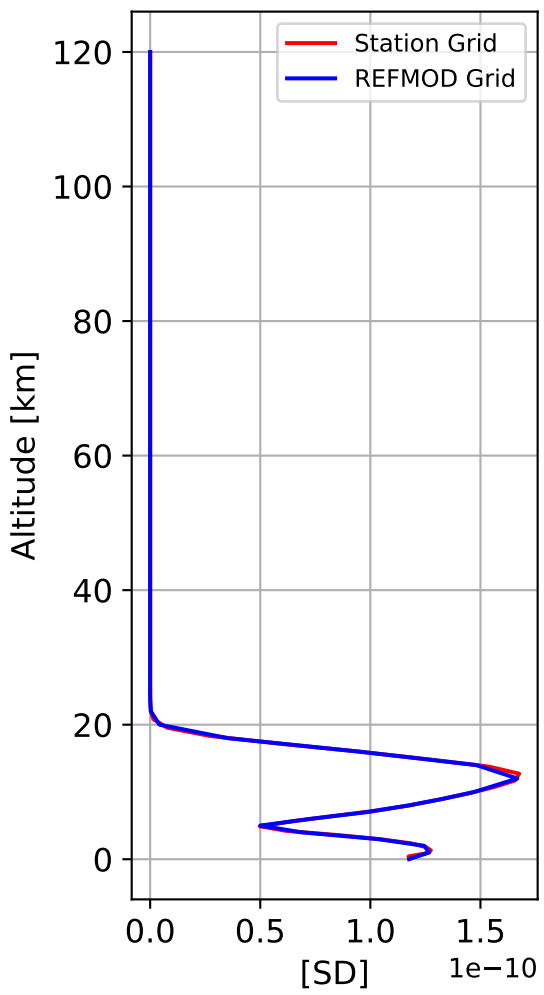
Monthly mean WACCM profile (interpolated to station grid) Tsukuba, 36.05N, 140.12E, 0.031km/sl



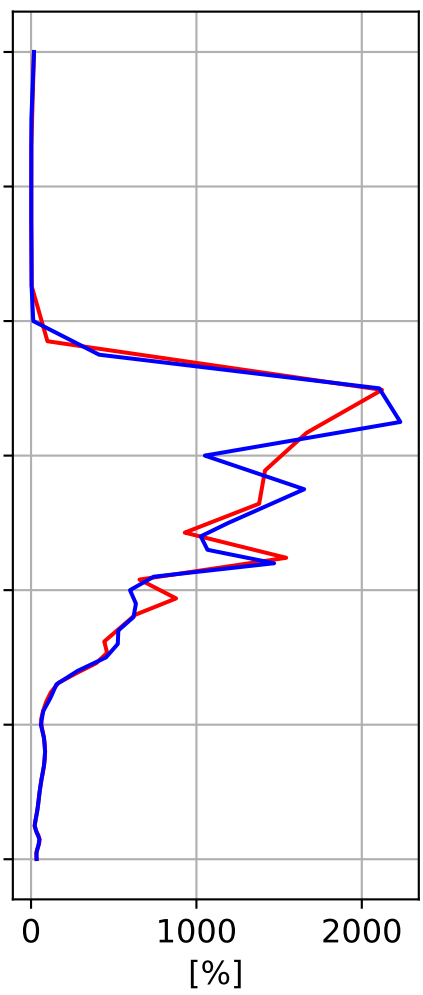
Min, Max, Mean of 732 profiles
Tsukuba, 36.05N, 140.12E, 0.031kmasl



Std. Deviation



Percent Deviation

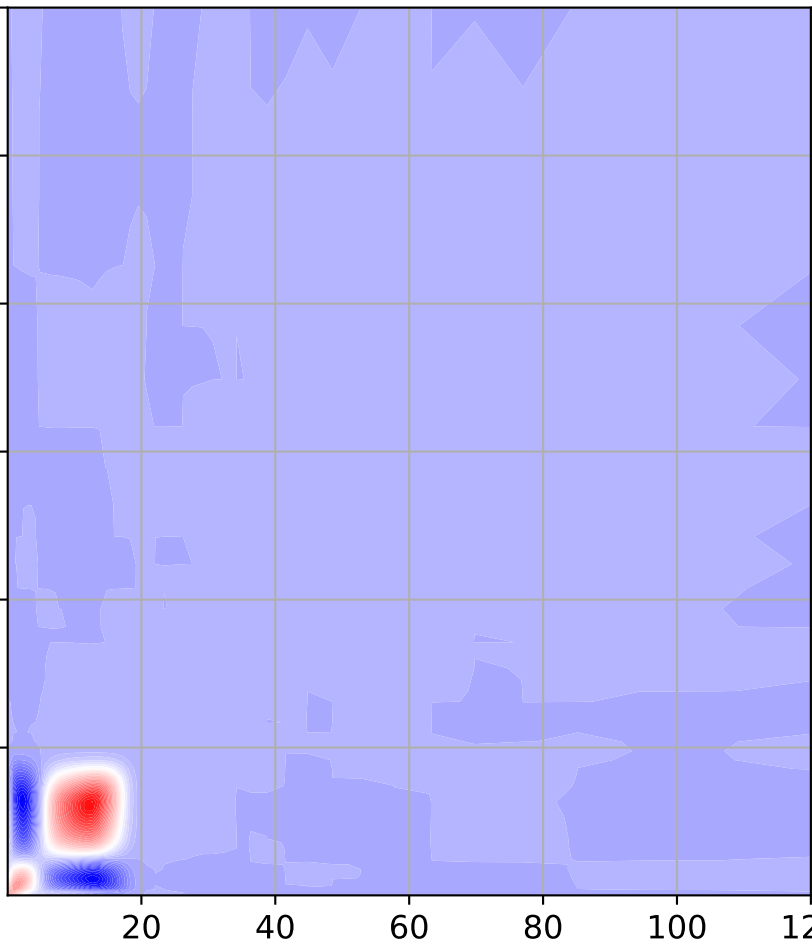


Level covariance matrix

1e-20

Altitude [km]

120
100
80
60
40
20



Mixing ratio²

2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5

Altitude [km]