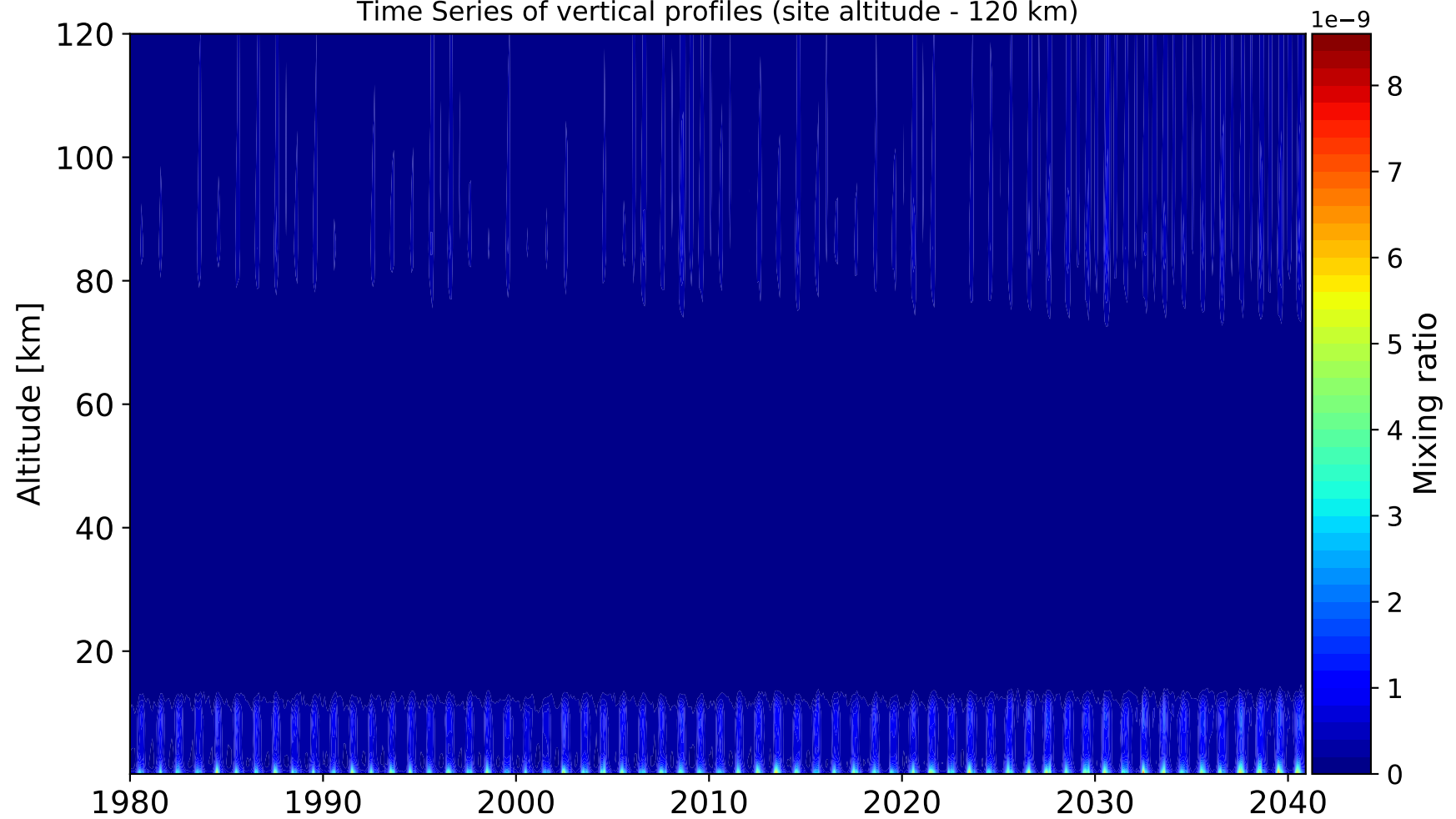
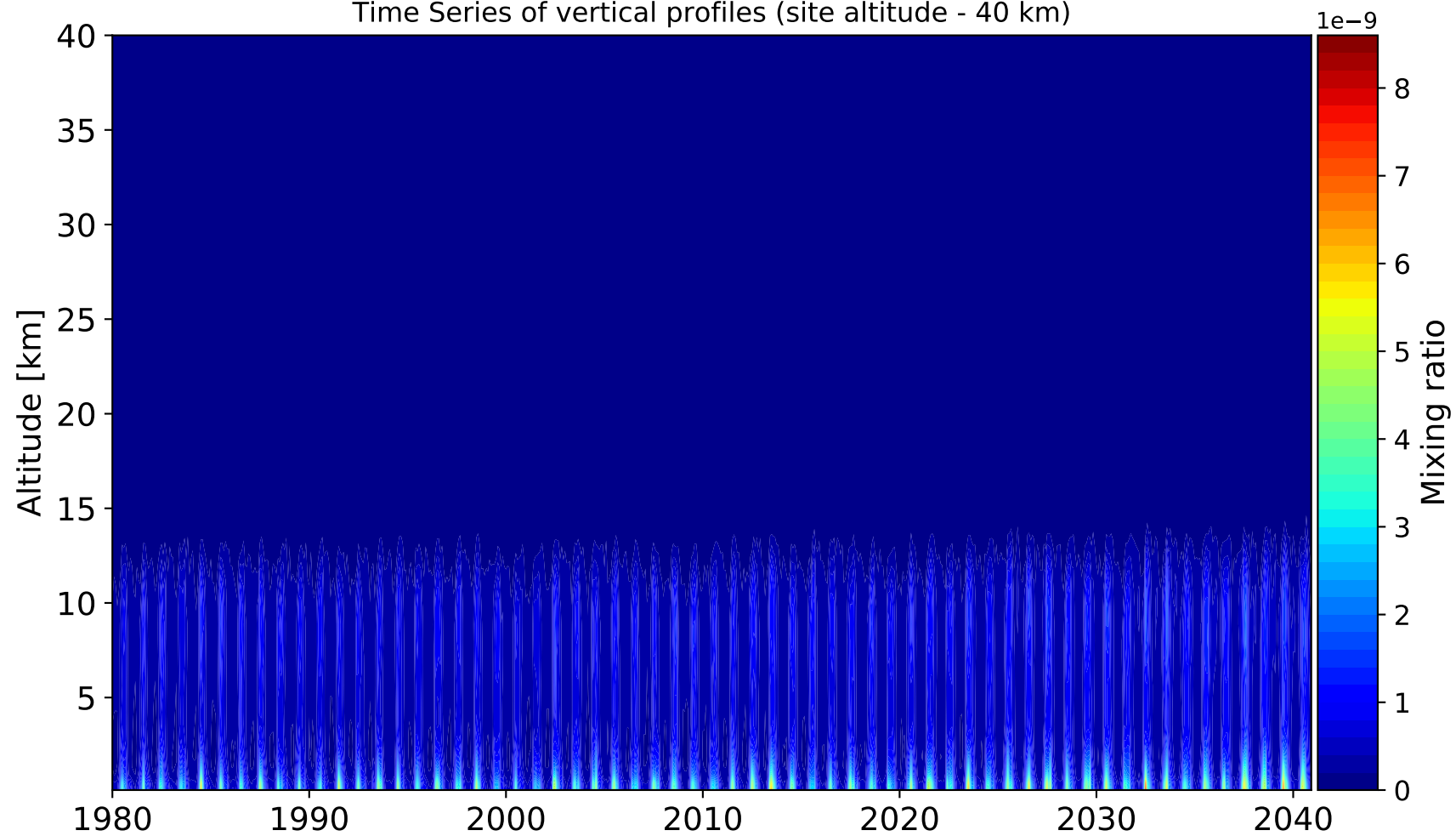


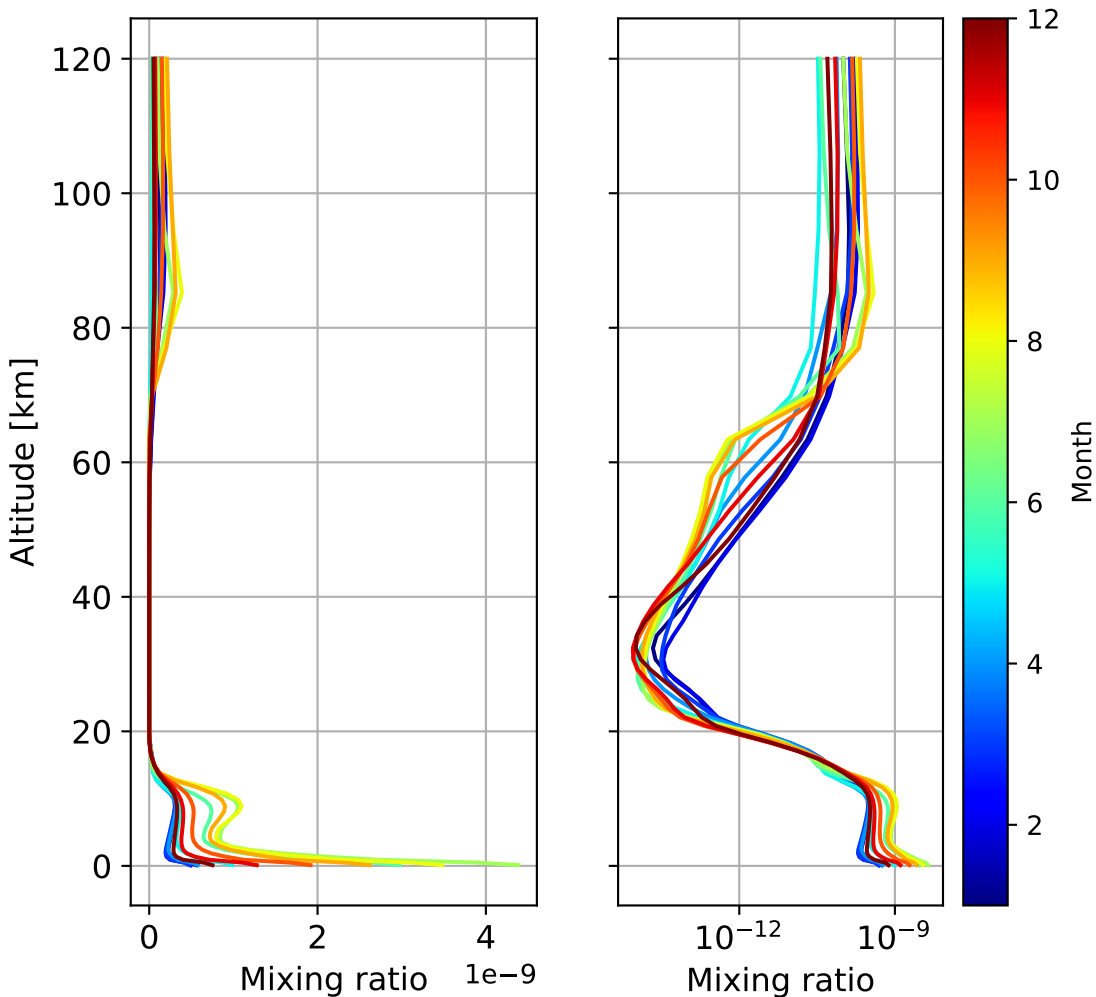
Time Series of vertical profiles (site altitude - 120 km)



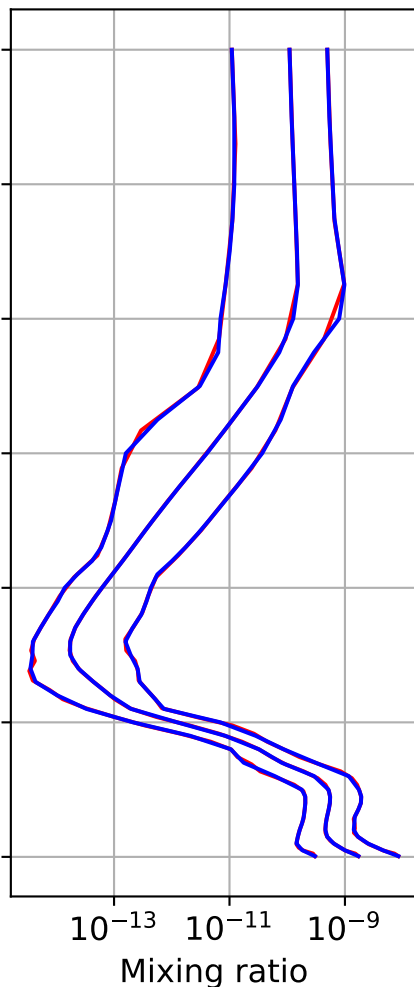
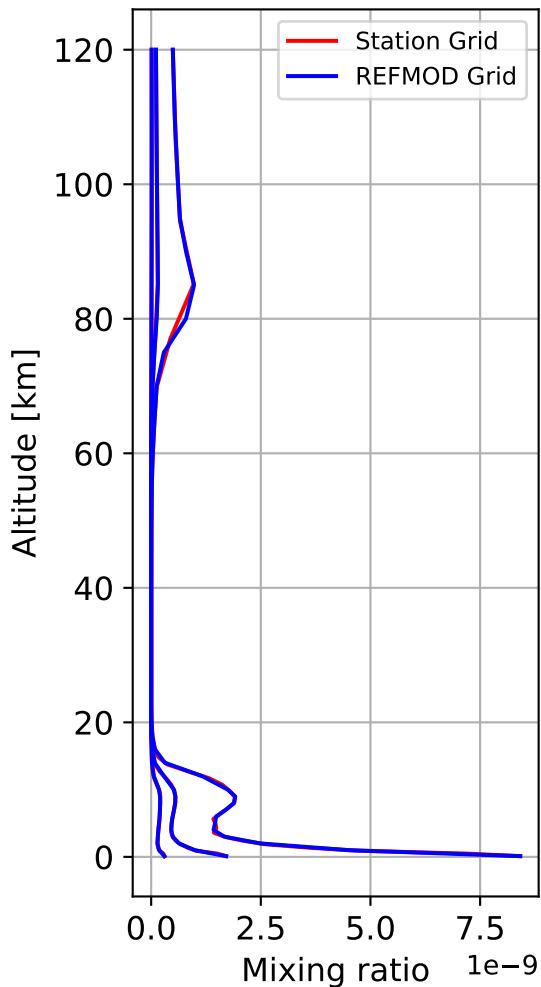
Time Series of vertical profiles (site altitude - 40 km)



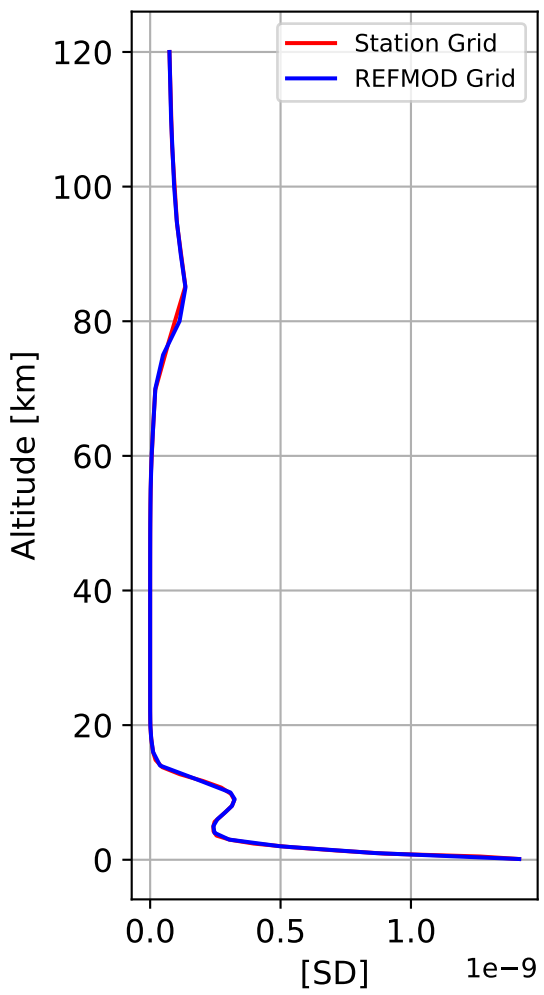
Monthly mean WACCM profile (interpolated to station grid) Karlsruhe, 49.09N, 8.43E, 0.11kmasl



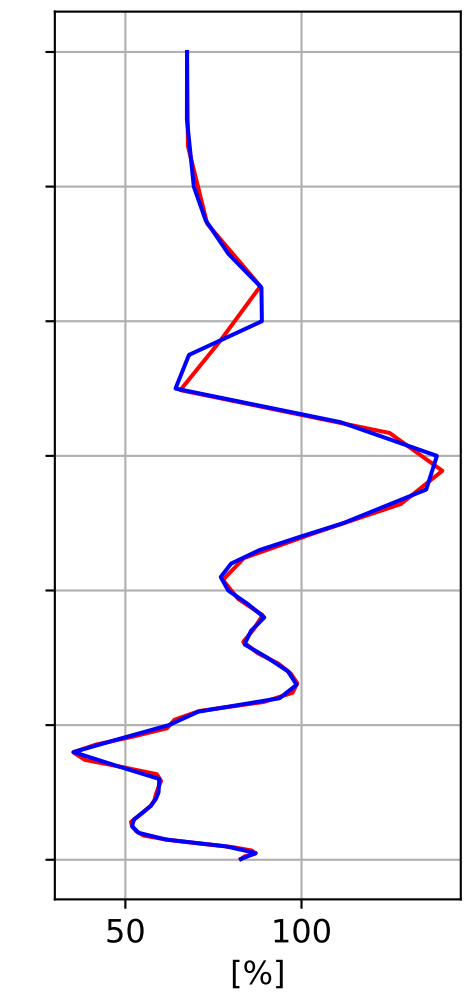
Min, Max, Mean of 732 profiles
Karlsruhe, 49.09N, 8.43E, 0.11kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-18

Altitude [km]

120
100
80
60
40
20

Altitude [km]

20 40 60 80 100 120

Mixing ratio[~ 2]

1.92
1.68
1.44
1.20
0.96
0.72
0.48
0.24
0.00

