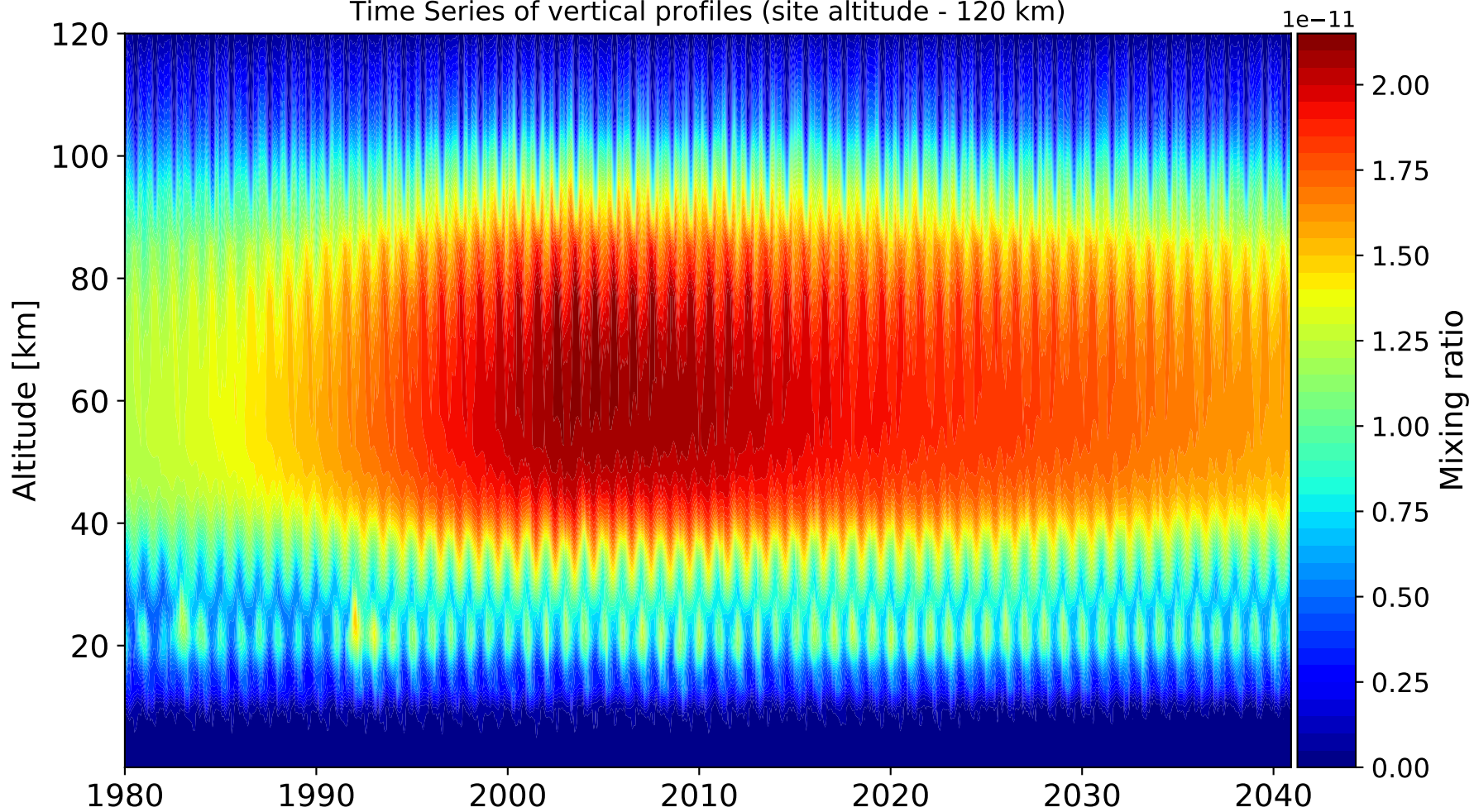
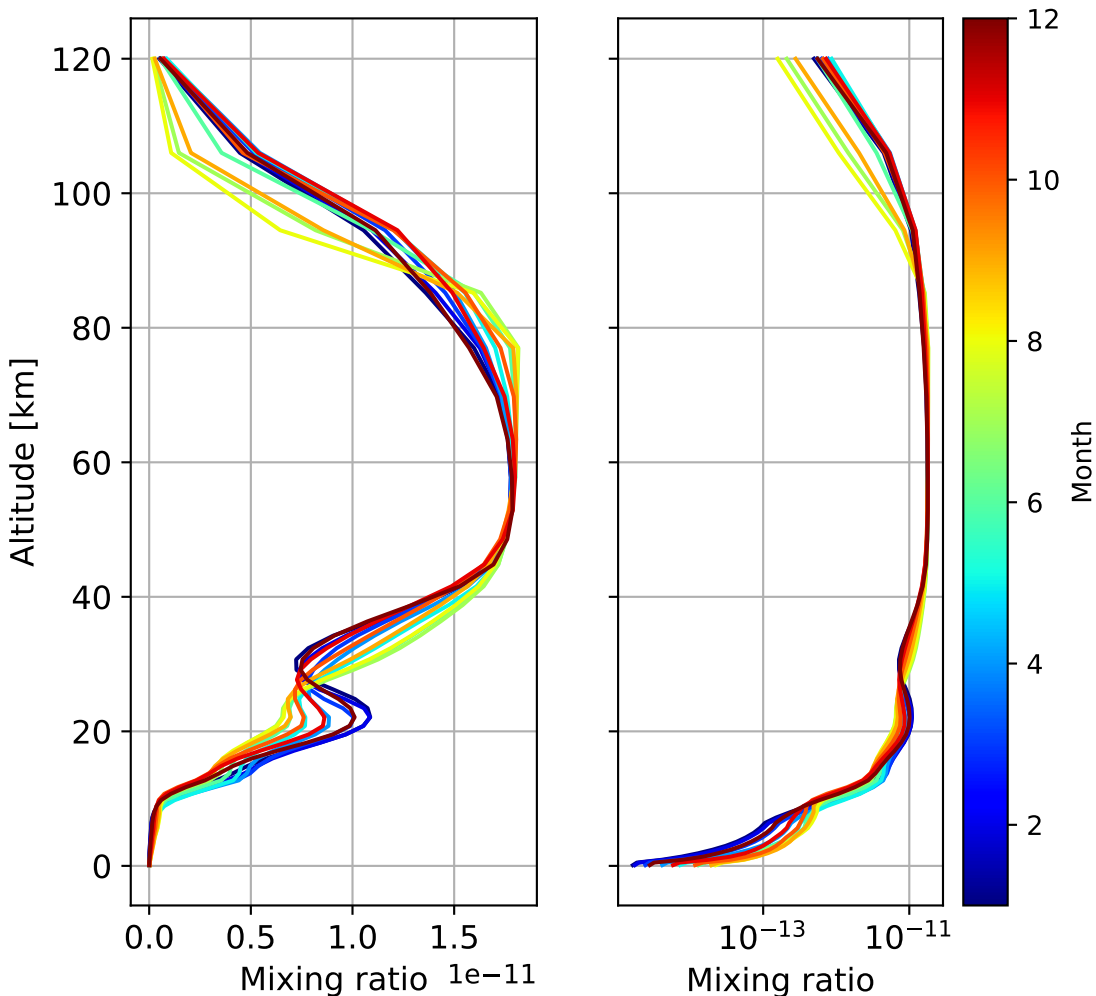


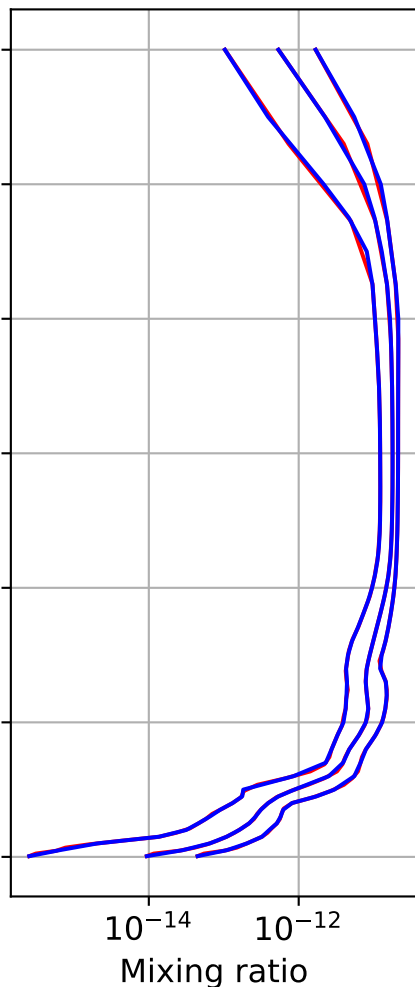
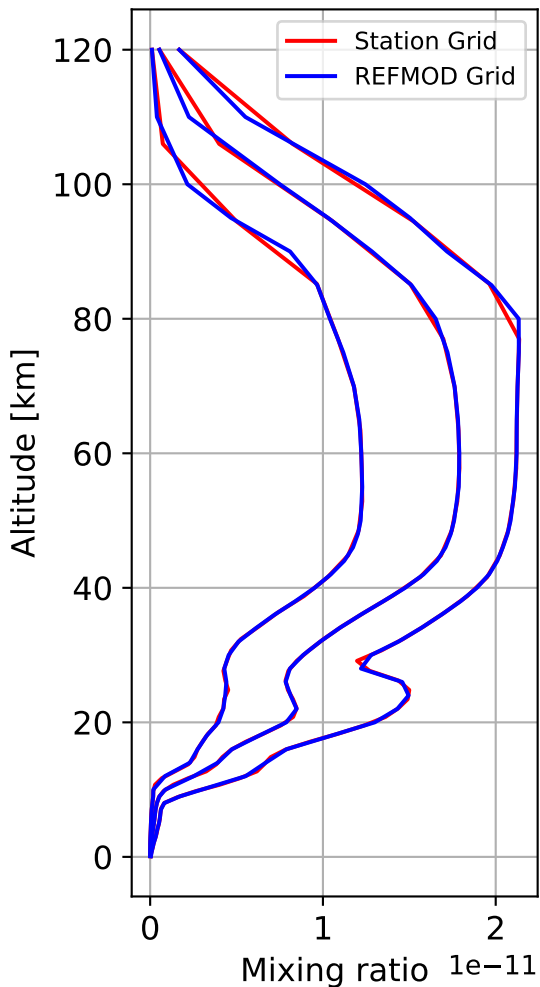
Time Series of vertical profiles (site altitude - 120 km)



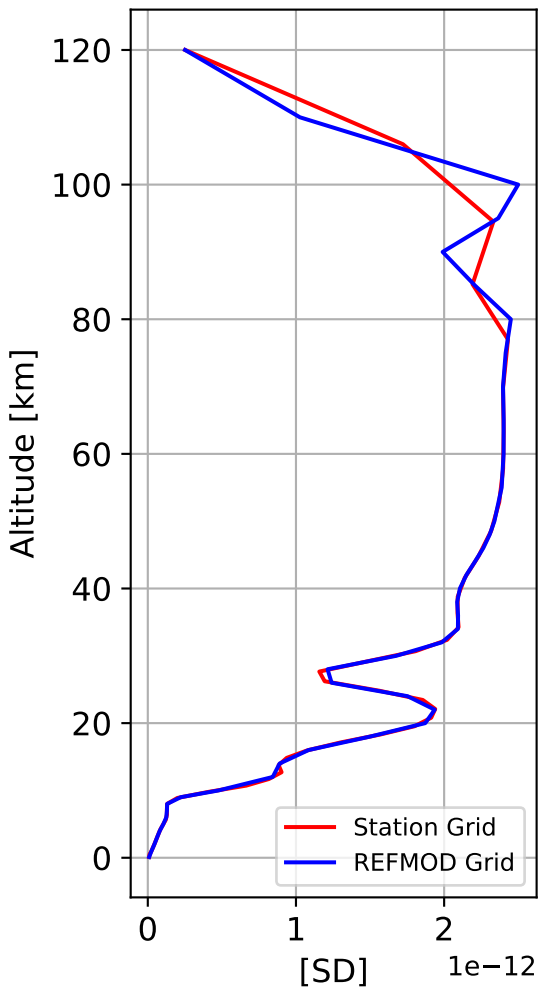
Monthly mean WACCM profile (interpolated to station grid) Karlsruhe, 49.09N, 8.43E, 0.11kmasl



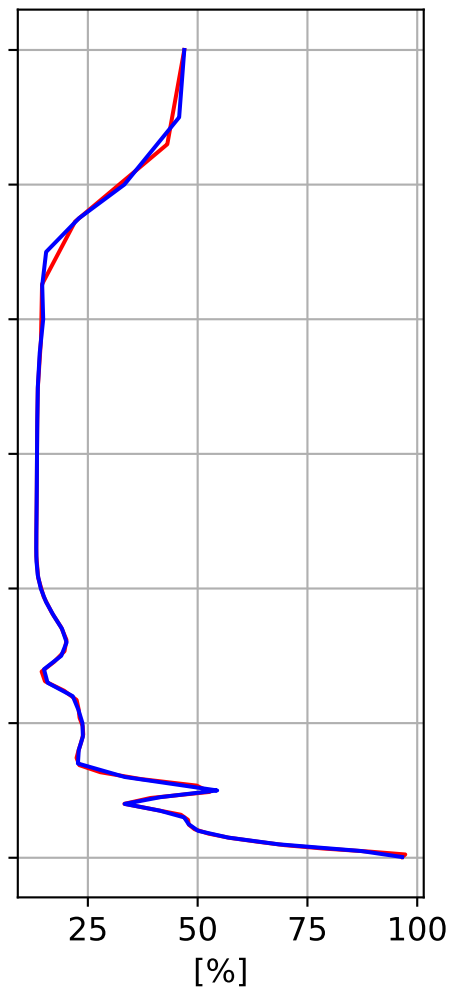
Min, Max, Mean of 732 profiles
Karlsruhe, 49.09N, 8.43E, 0.11kmasl



Std. Deviation



Percent Deviation

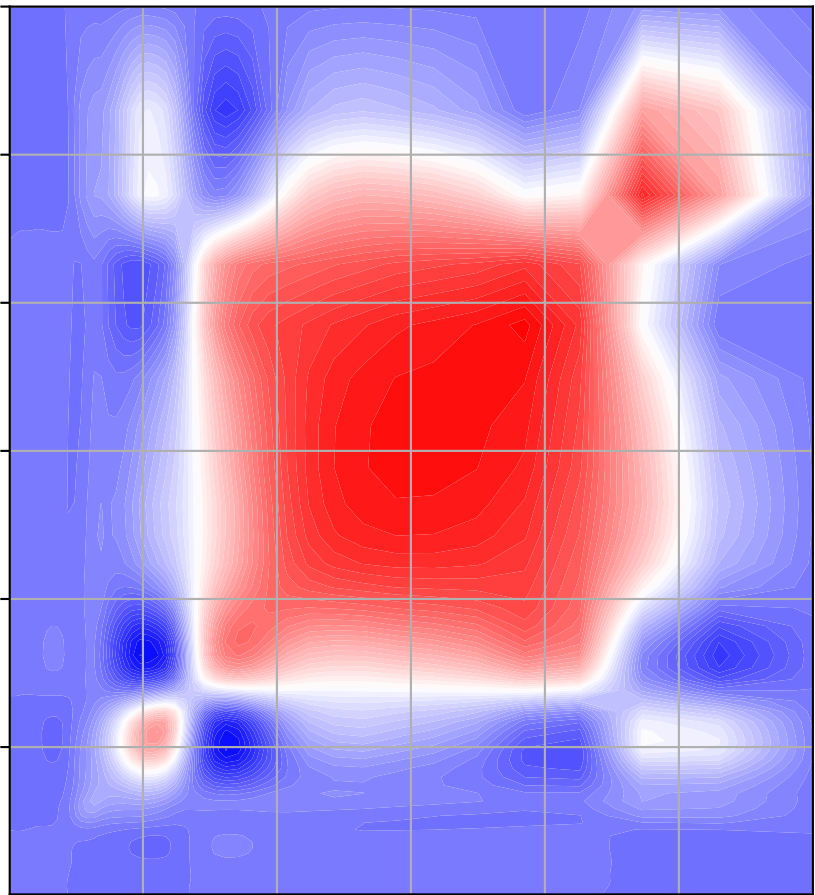


Level covariance matrix

1e-24

Altitude [km]

120
100
80
60
40
20



Mixing ratio[²]

5.4
4.5
3.6
2.7
1.8
0.9
0.0
-0.9
-1.8

20 40 60 80 100 120

Altitude [km]