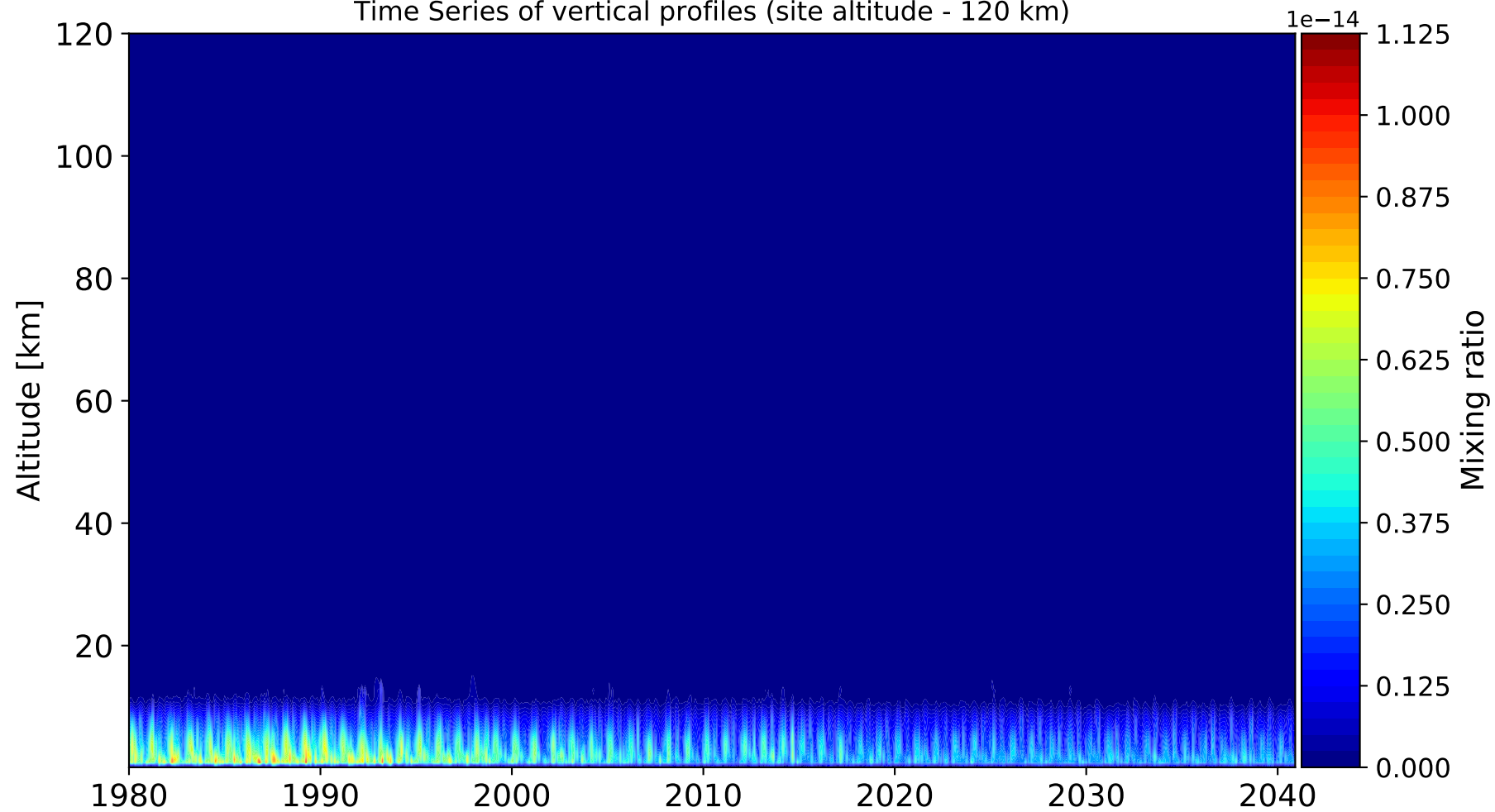
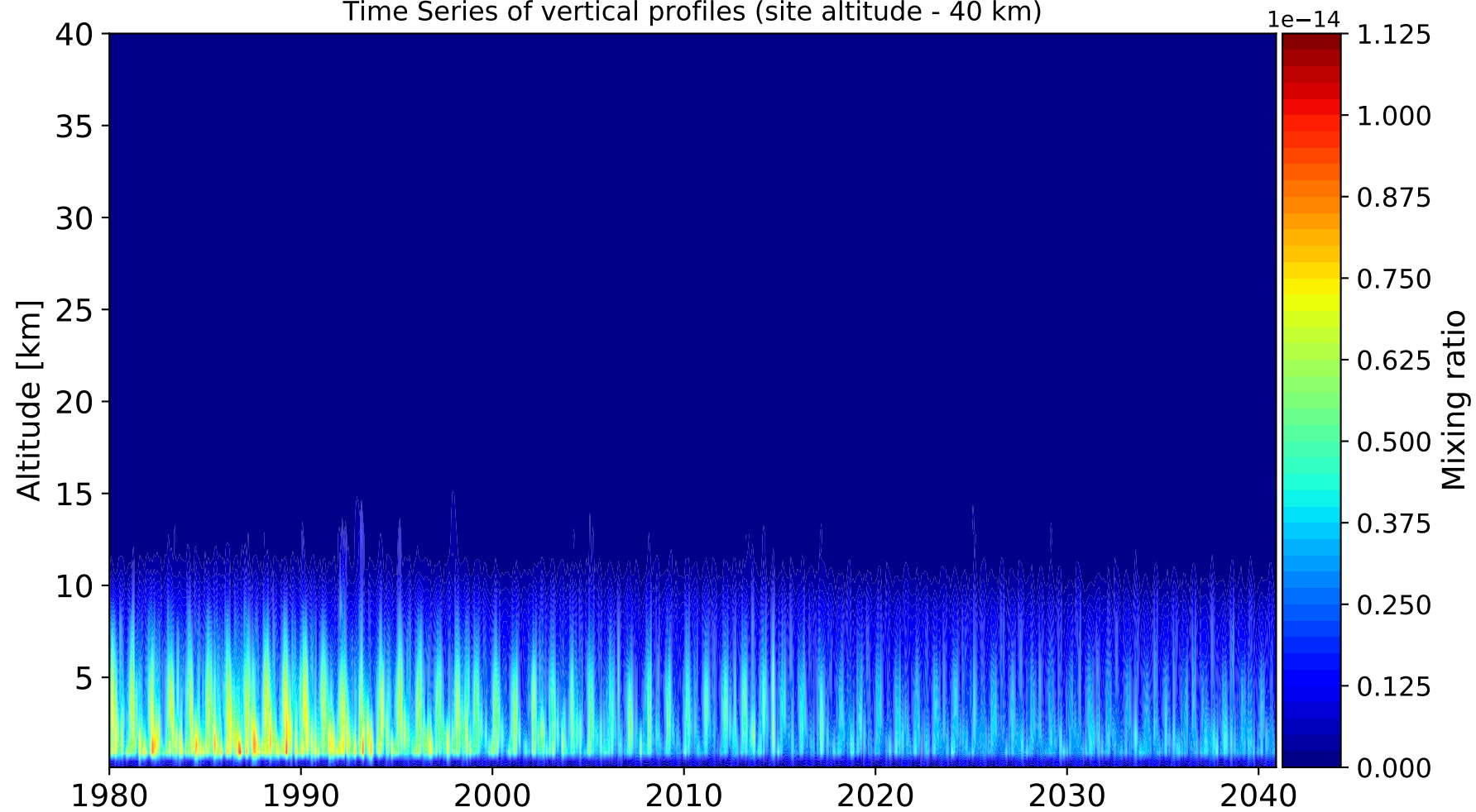


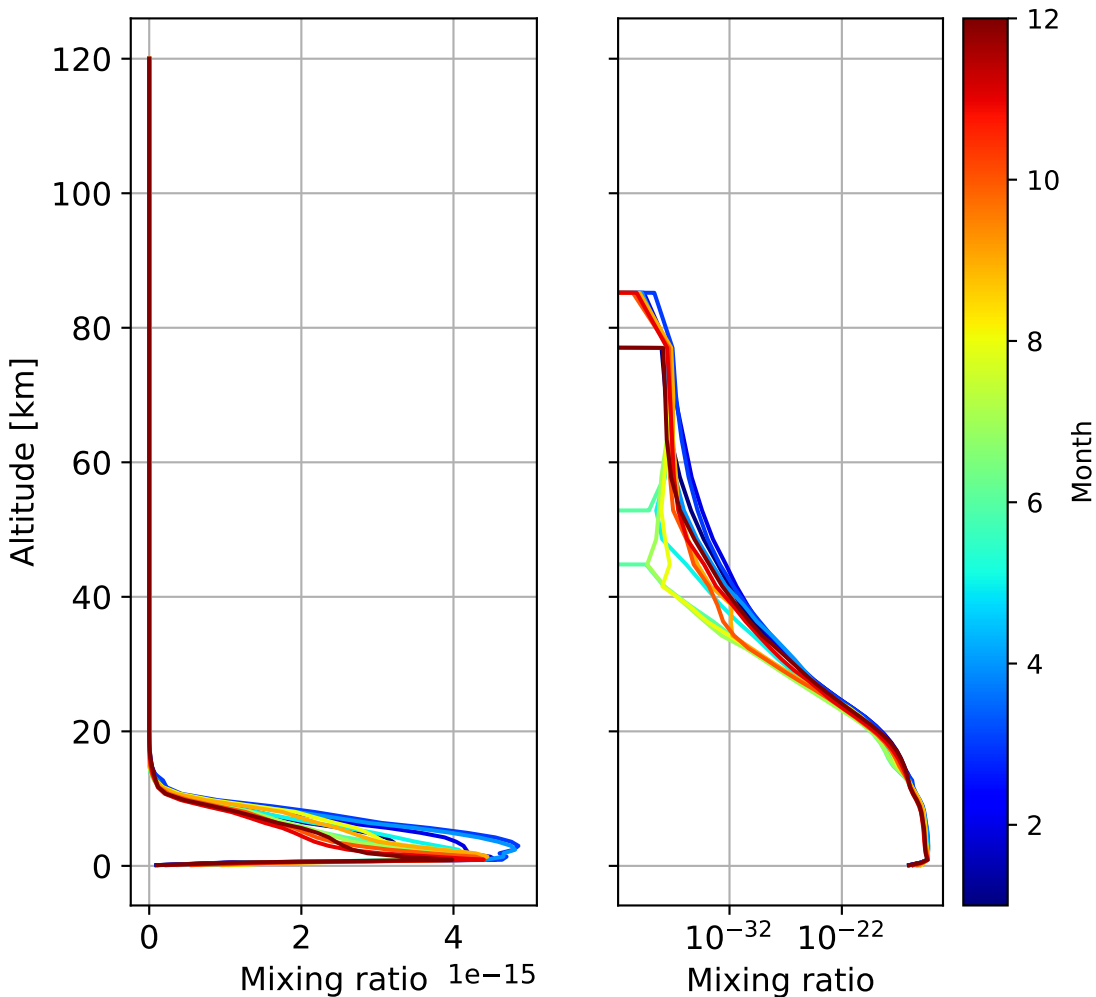
Time Series of vertical profiles (site altitude - 120 km)



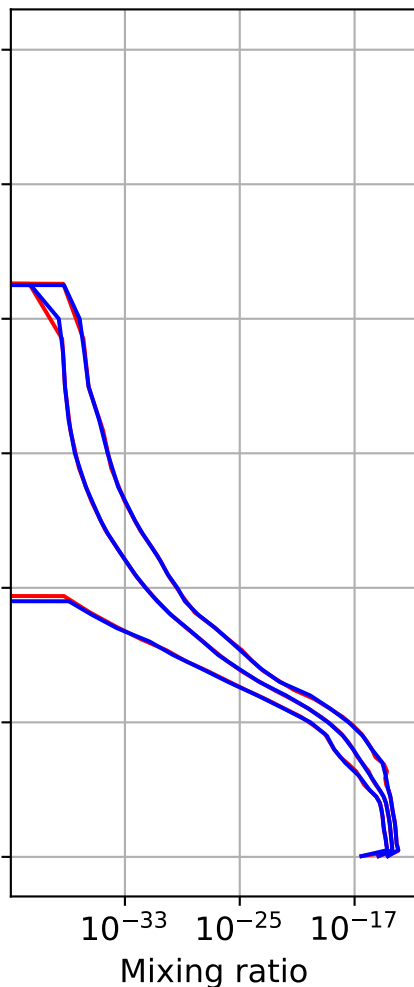
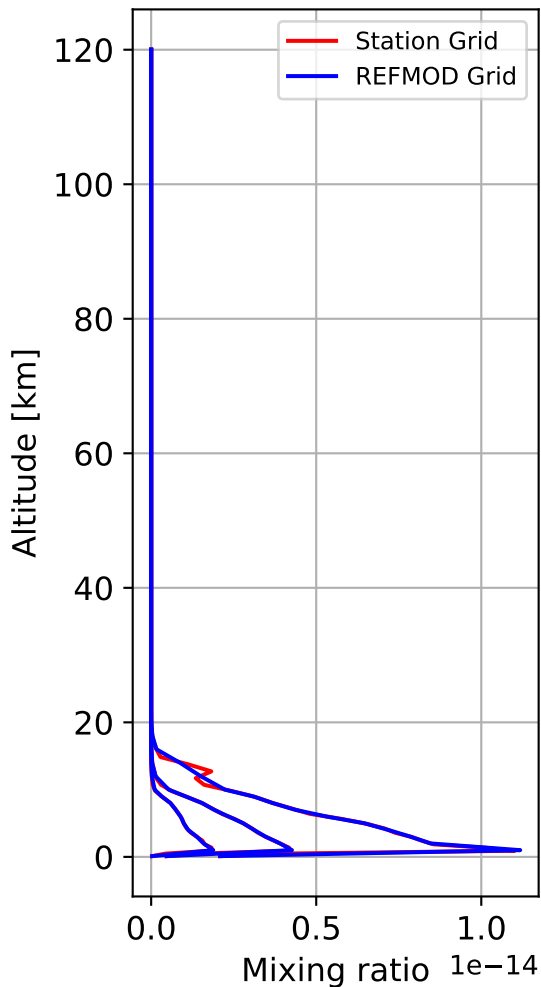
Time Series of vertical profiles (site altitude - 40 km)



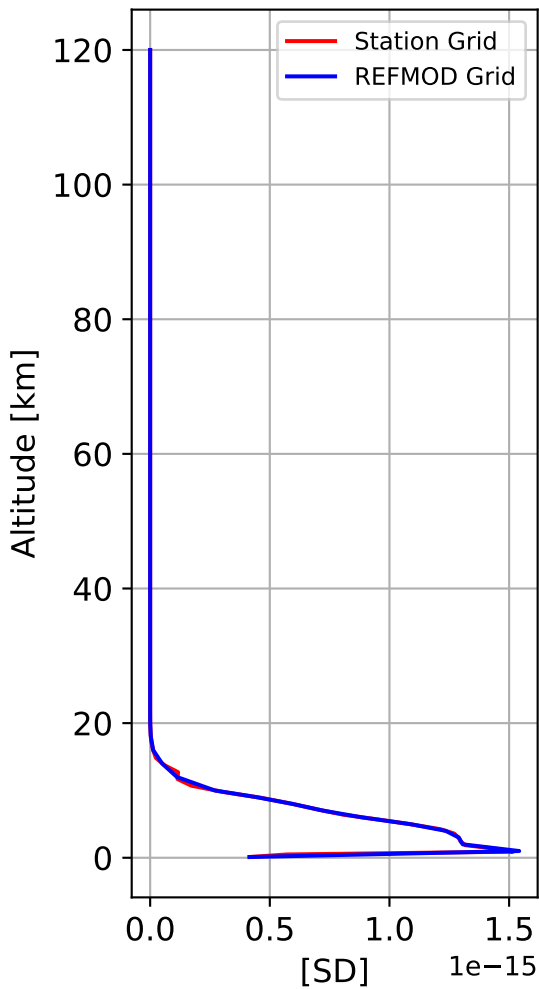
Monthly mean WACCM profile (interpolated to station grid) Karlsruhe, 49.09N, 8.43E, 0.11kmasl



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



Std. Deviation



Percent Deviation

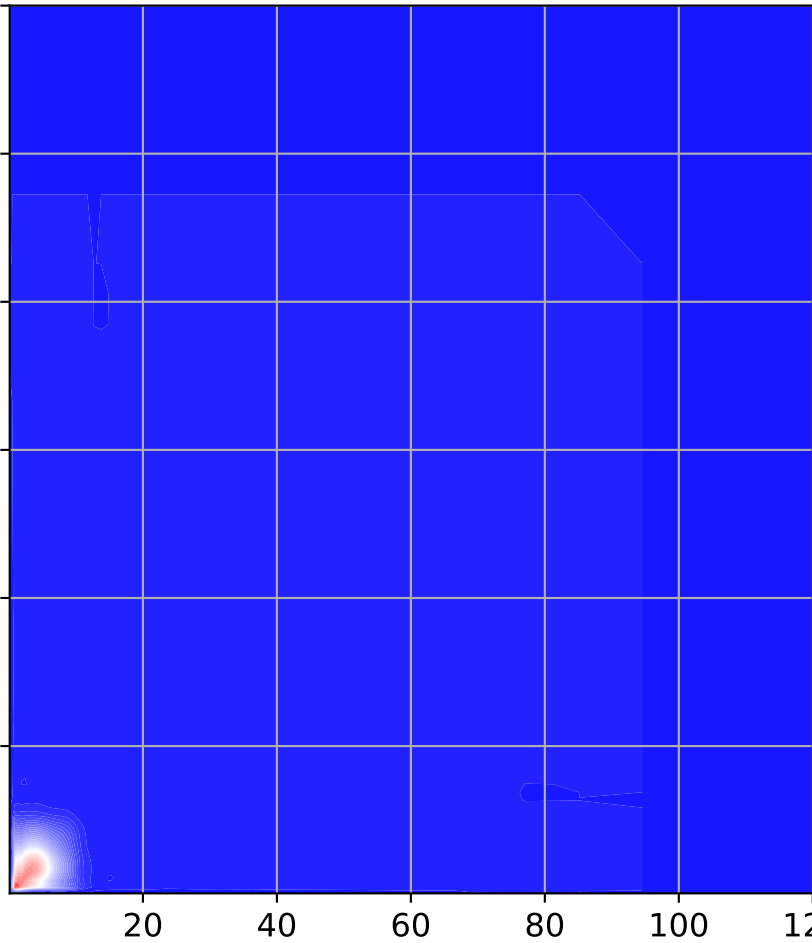


Level covariance matrix

1e-30

Altitude [km]

120
100
80
60
40
20



Mixing ratio[~ 2]

2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0

Altitude [km]

20

40

60

80

100

120