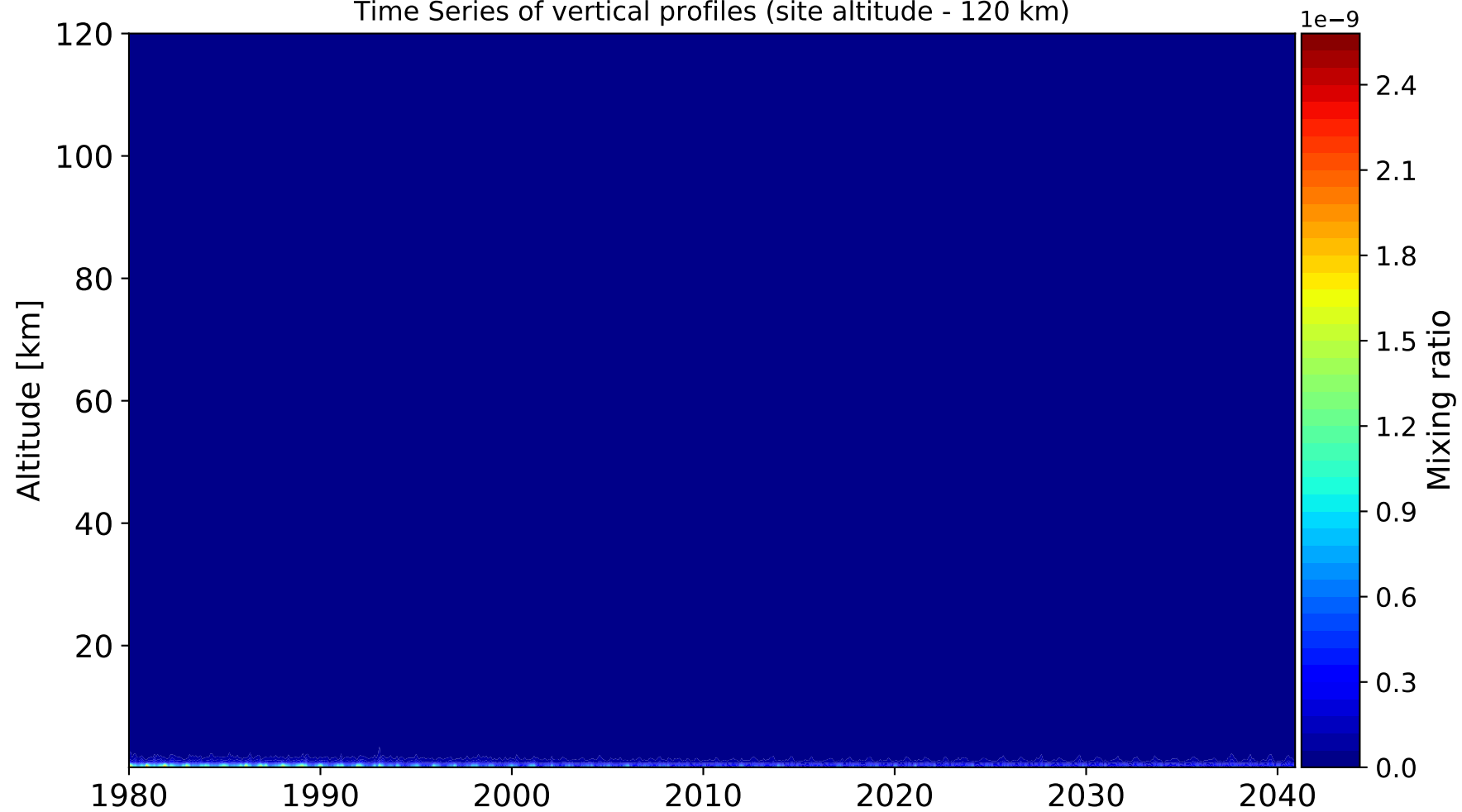
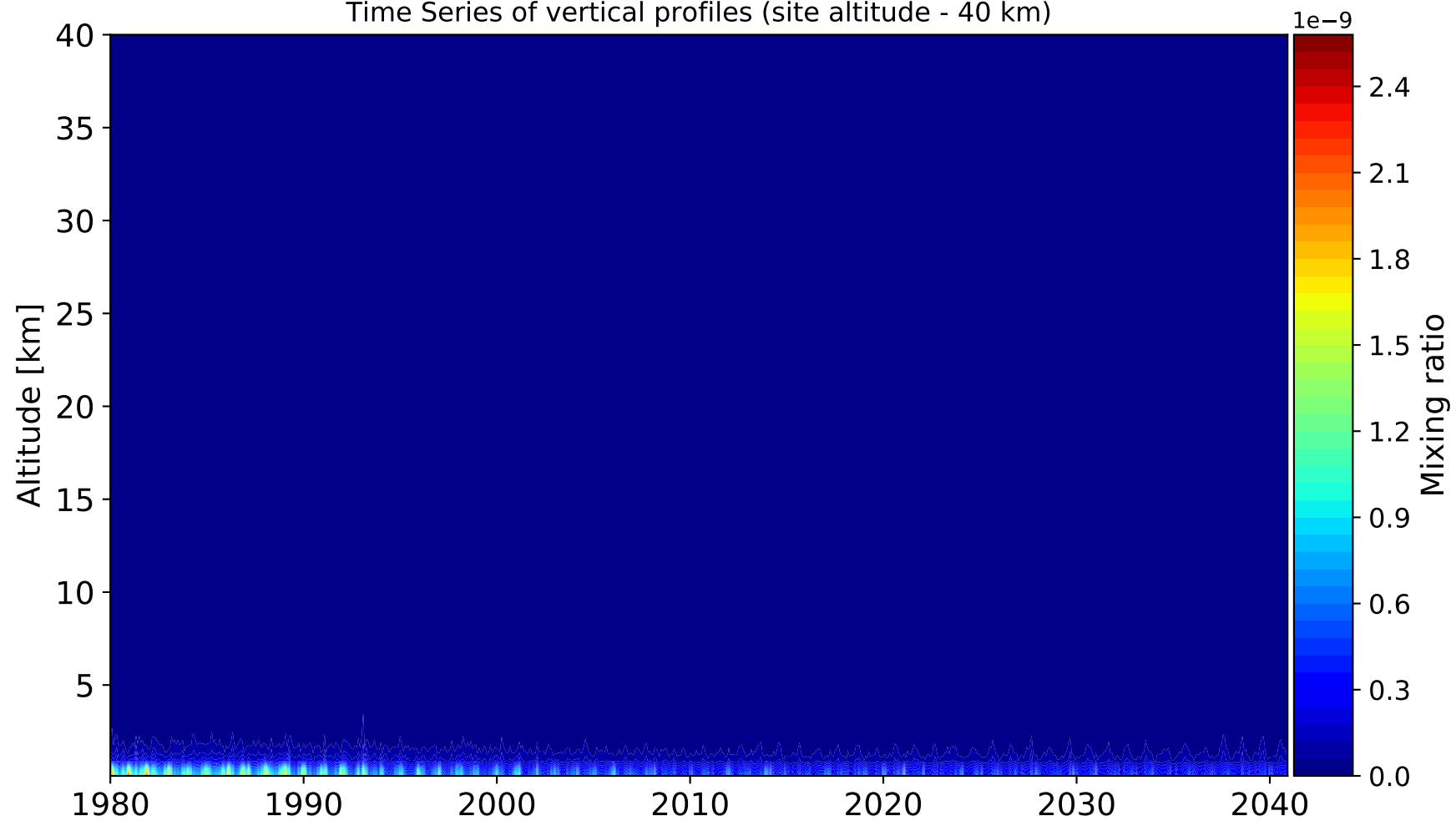


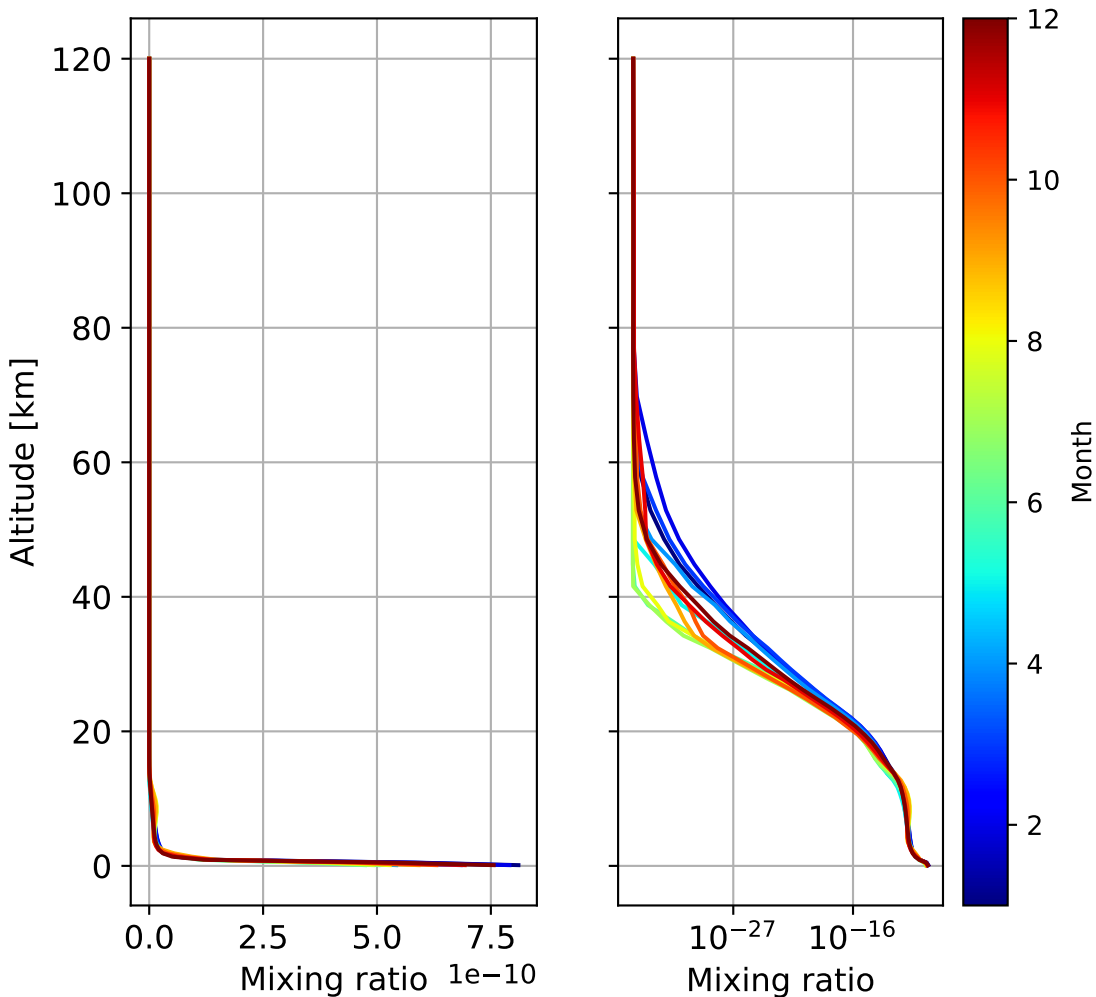
Time Series of vertical profiles (site altitude - 120 km)



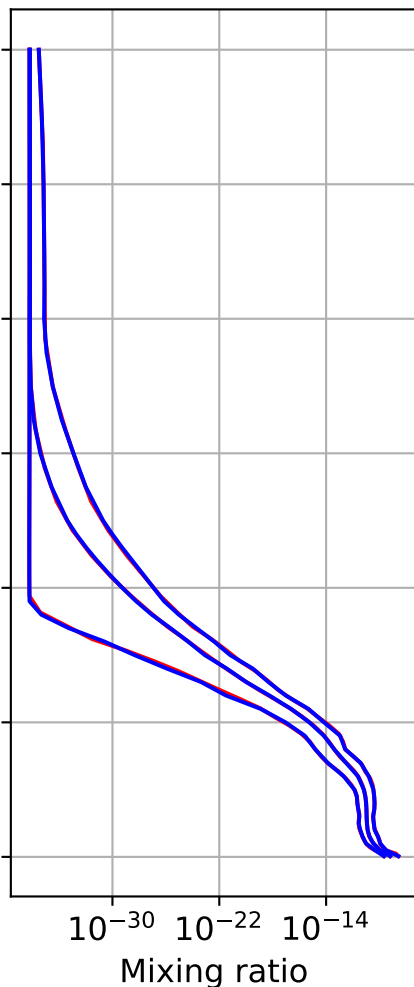
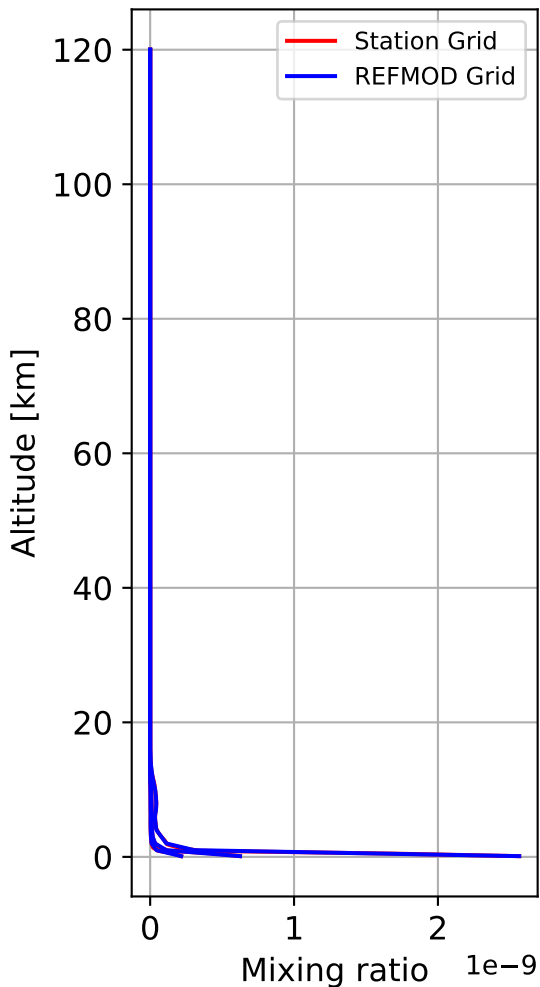
Time Series of vertical profiles (site altitude - 40 km)



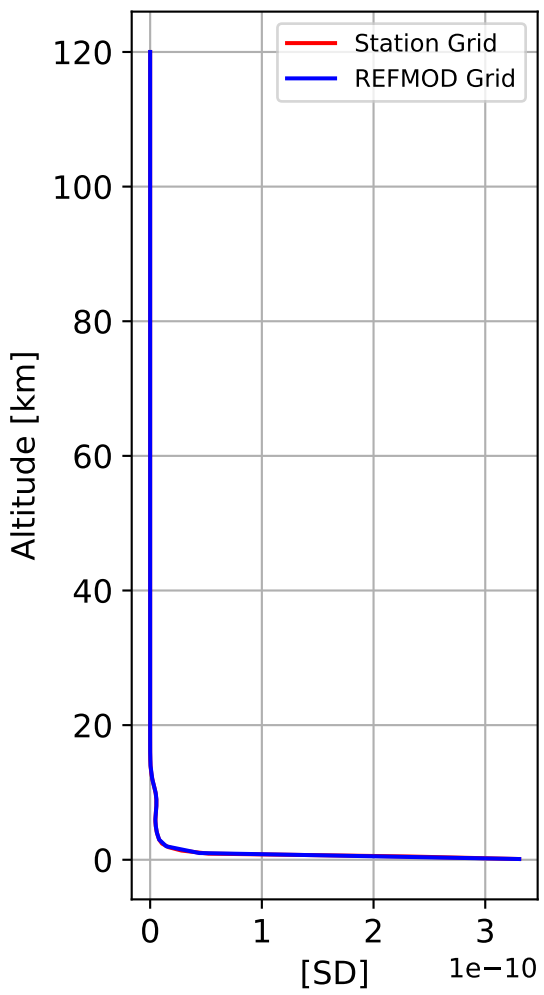
Monthly mean WACCM profile (interpolated to station grid) Karlsruhe, 49.09N, 8.43E, 0.11kmasl



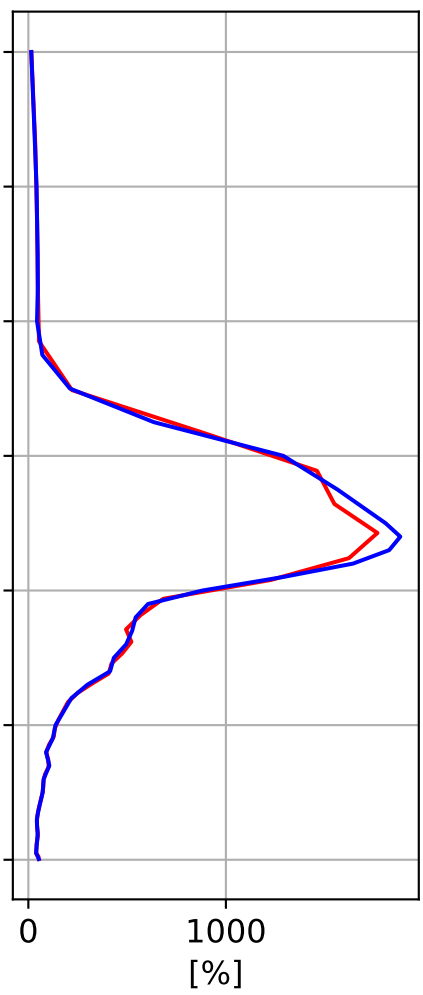
Min, Max, Mean of 732 profiles
Karlsruhe, 49.09N, 8.43E, 0.11kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

$1e-19$

Altitude [km]

120
100
80
60
40
20

20

Altitude [km]

40

60

80

100

120

Mixing ratio[$\wedge 2$]

1.000

0.875

0.750

0.625

0.500

0.375

0.250

0.125

0.000