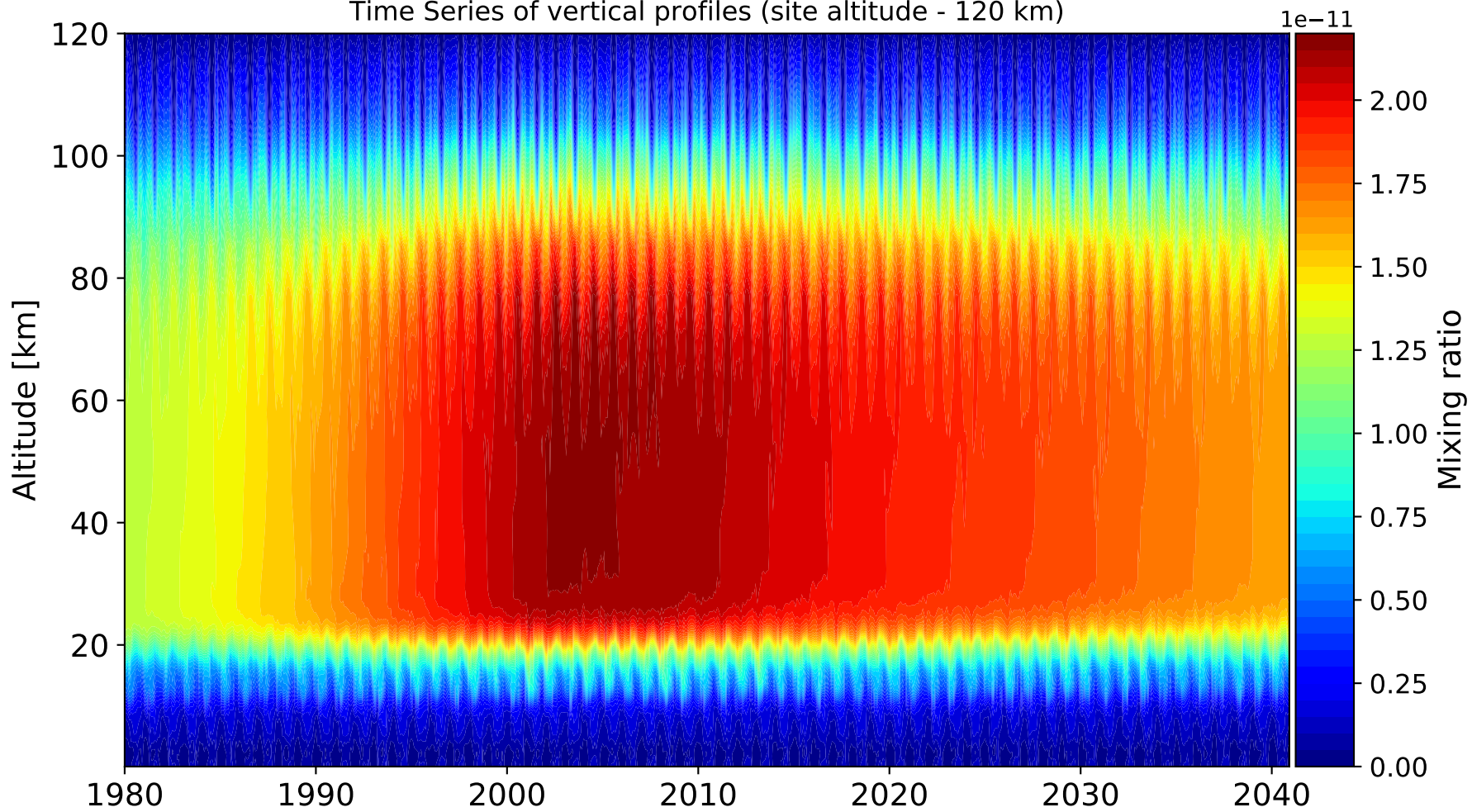
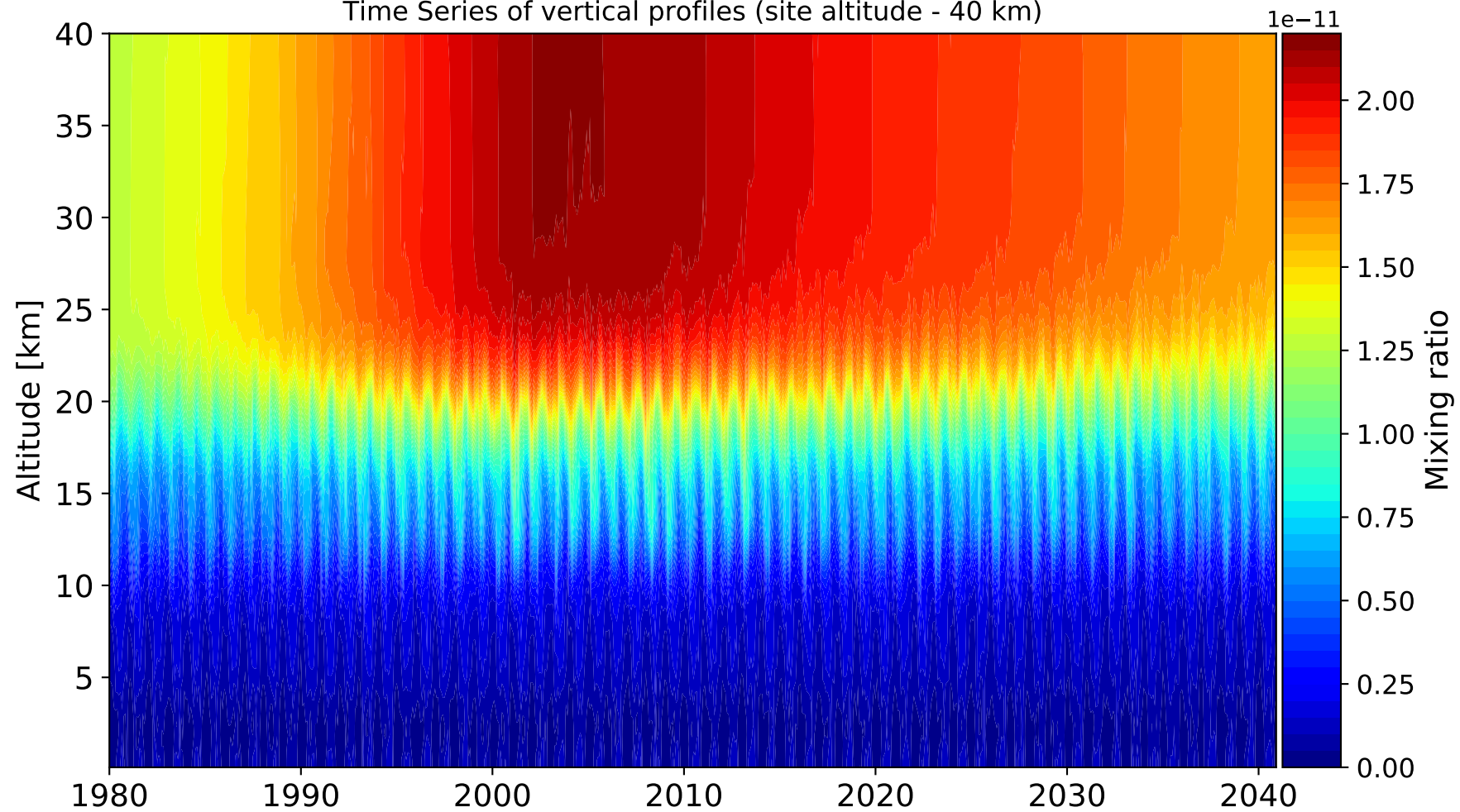


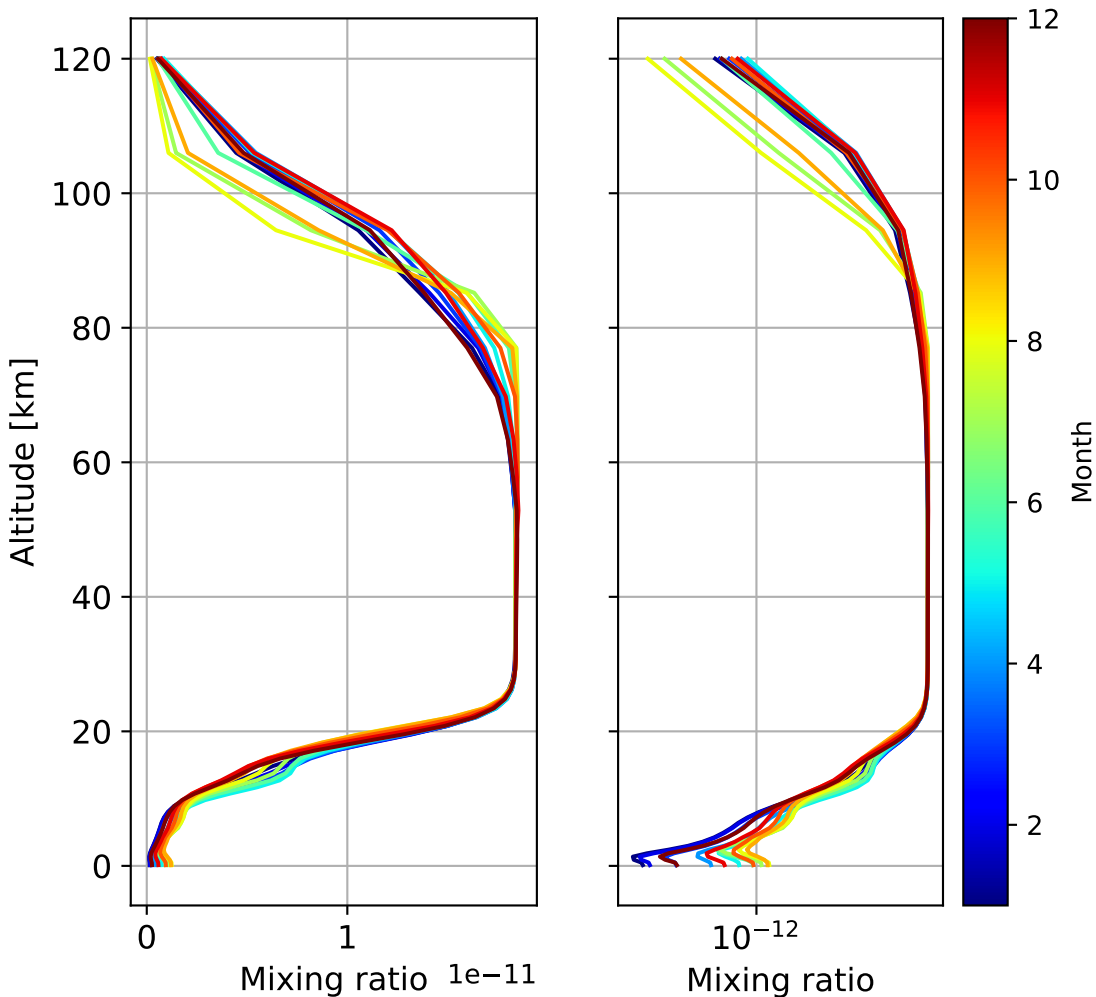
Time Series of vertical profiles (site altitude - 120 km)



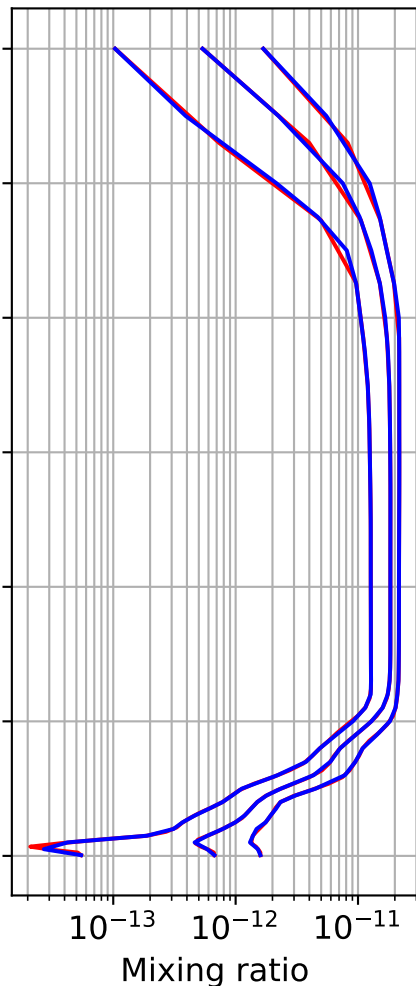
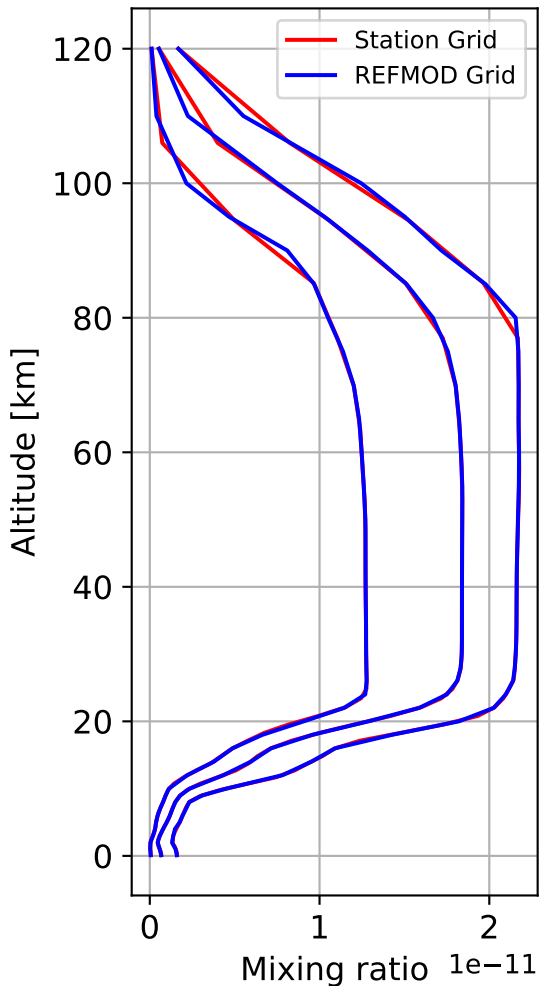
Time Series of vertical profiles (site altitude - 40 km)



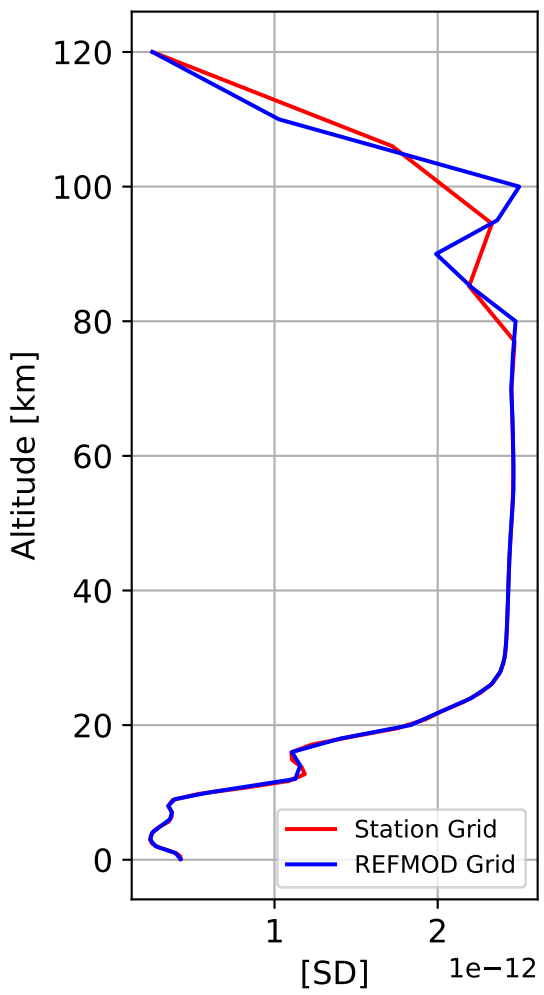
Monthly mean WACCM profile (interpolated to station grid) Karlsruhe, 49.09N, 8.43E, 0.11kmasl



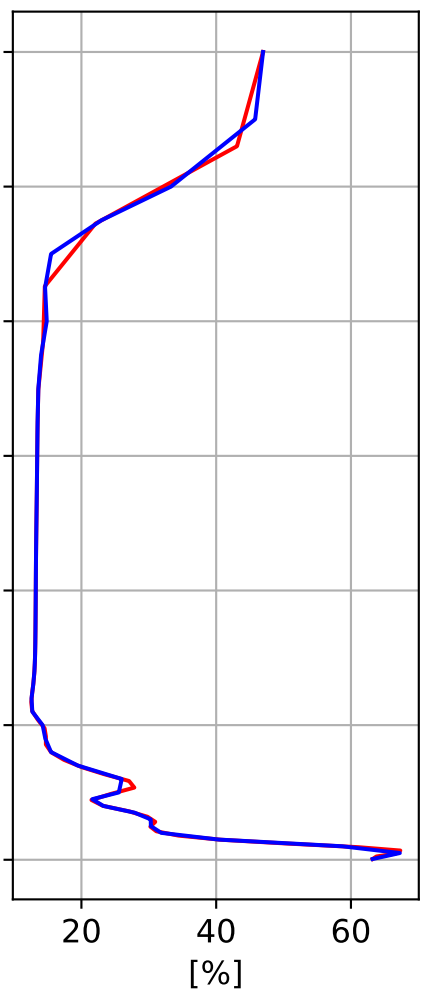
Min, Max, Mean of 732 profiles
Karlsruhe, 49.09N, 8.43E, 0.11kmasl



Std. Deviation



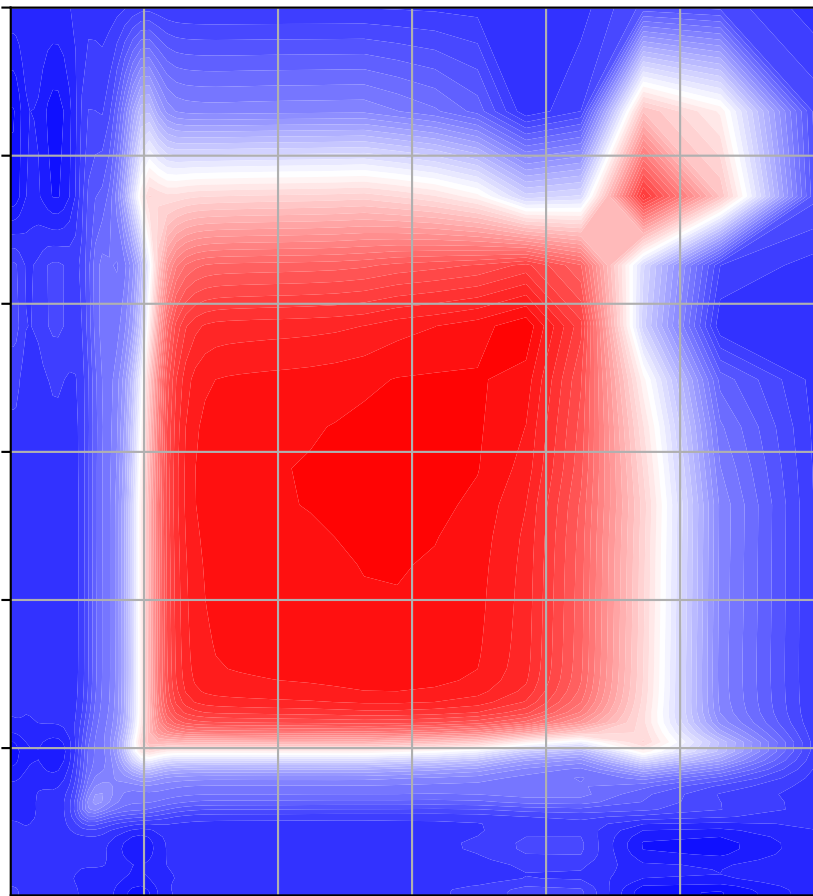
Percent Deviation



Level covariance matrix

1e-24

Altitude [km]

120
100
80
60
40
206.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00Mixing ratio[\sim^2]

20 40 60 80 100 120

Altitude [km]