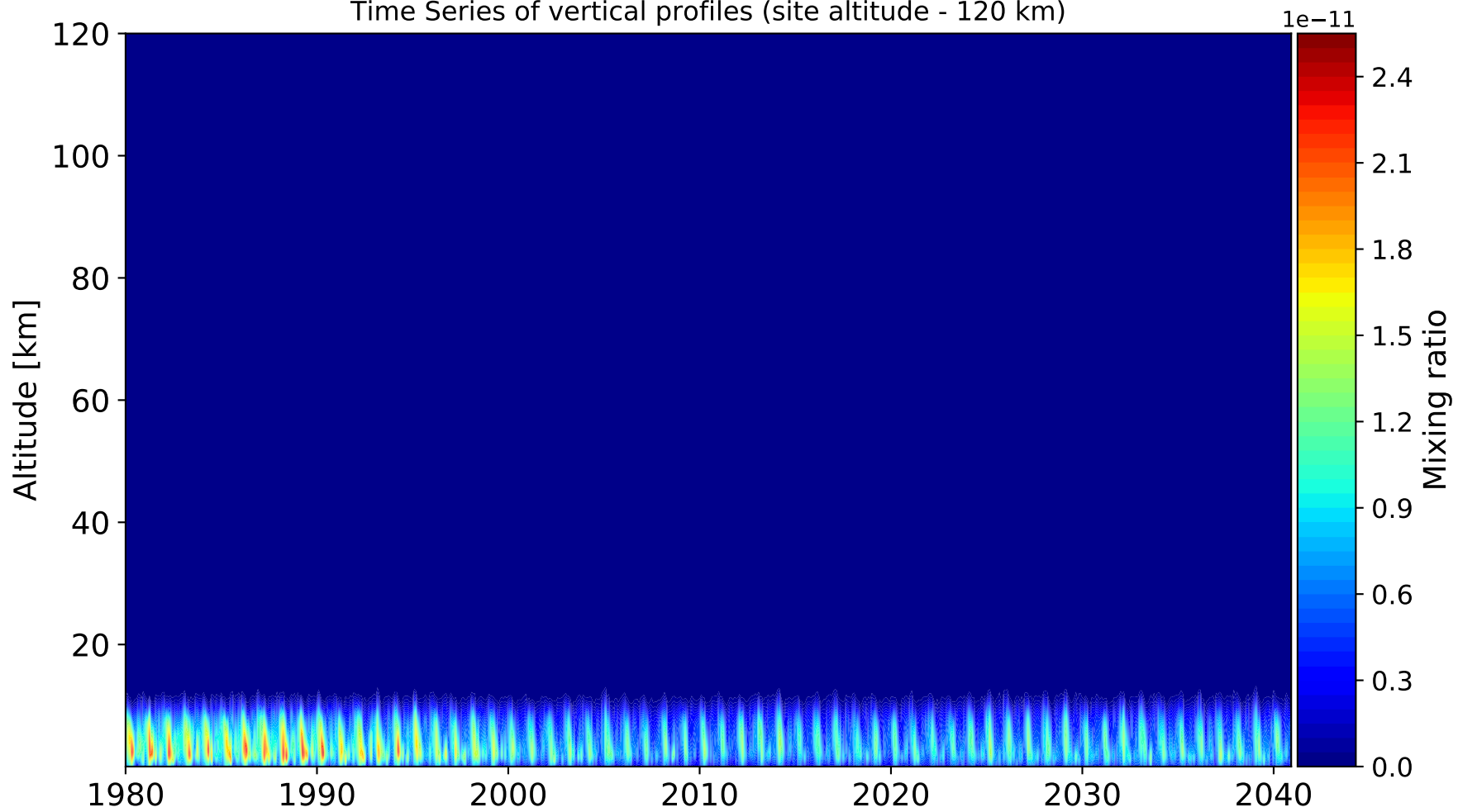
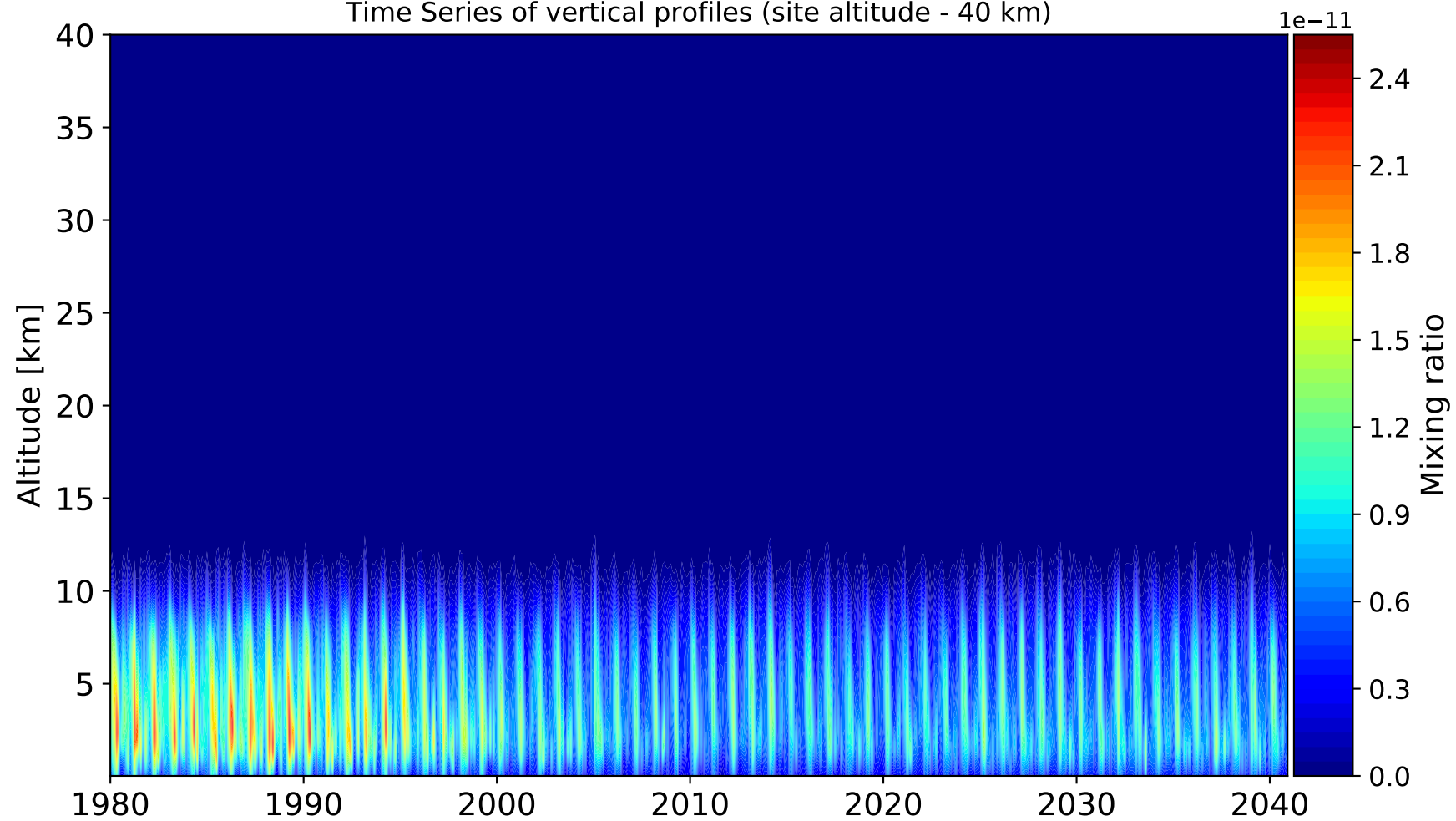


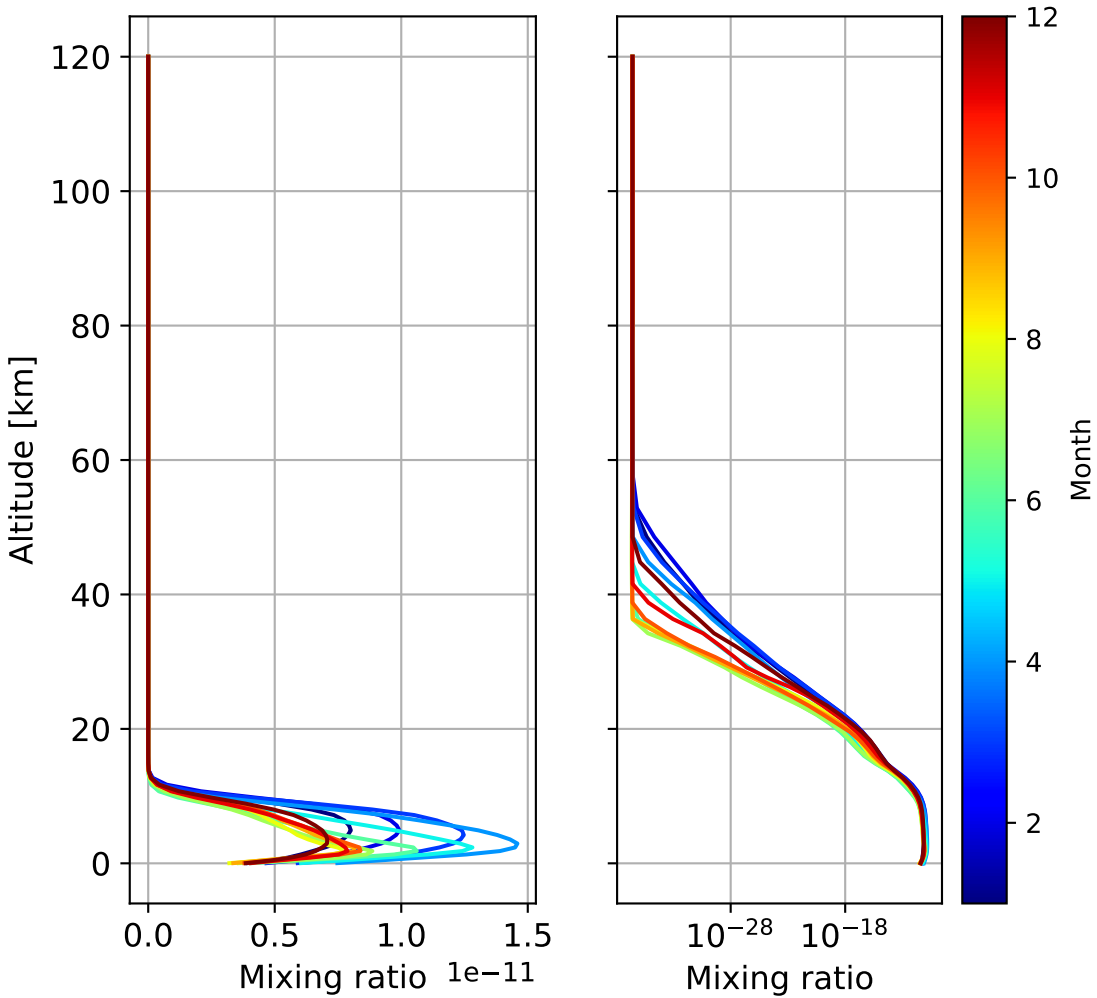
Time Series of vertical profiles (site altitude - 120 km)



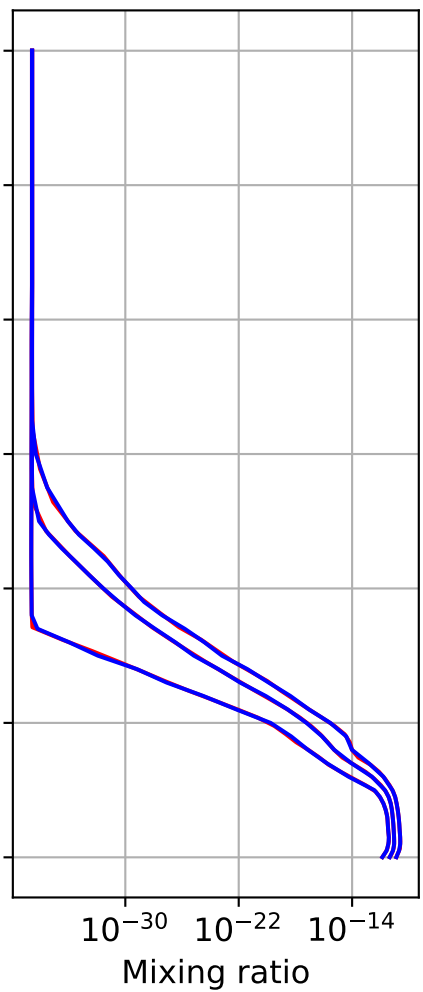
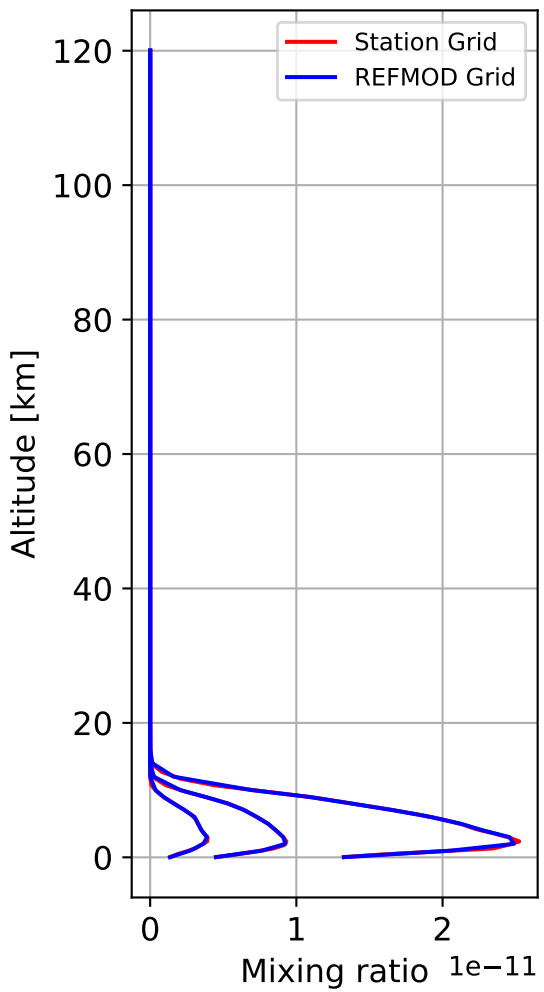
Time Series of vertical profiles (site altitude - 40 km)



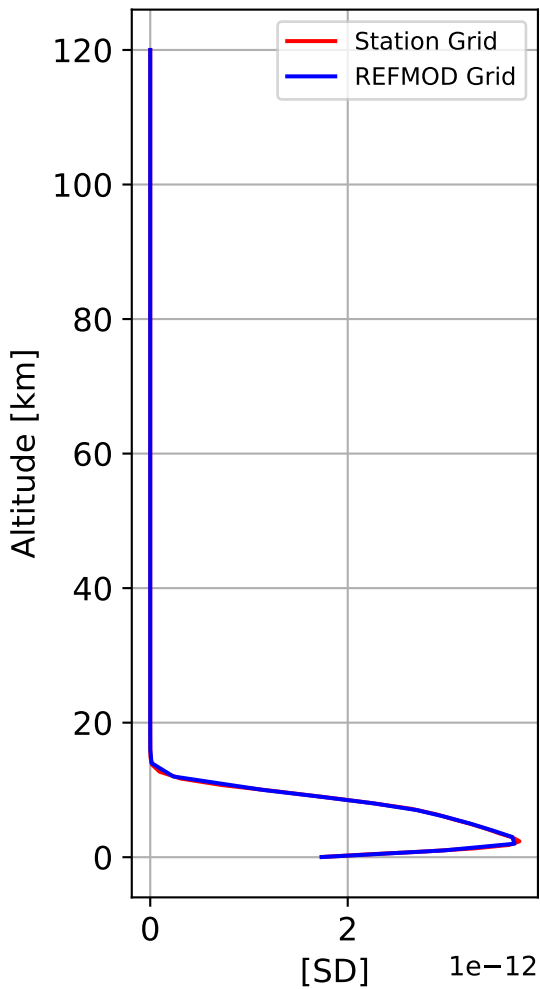
Monthly mean WACCM profile (interpolated to station grid) Bremen, 53.1N, 8.9E, 0.027kmasl



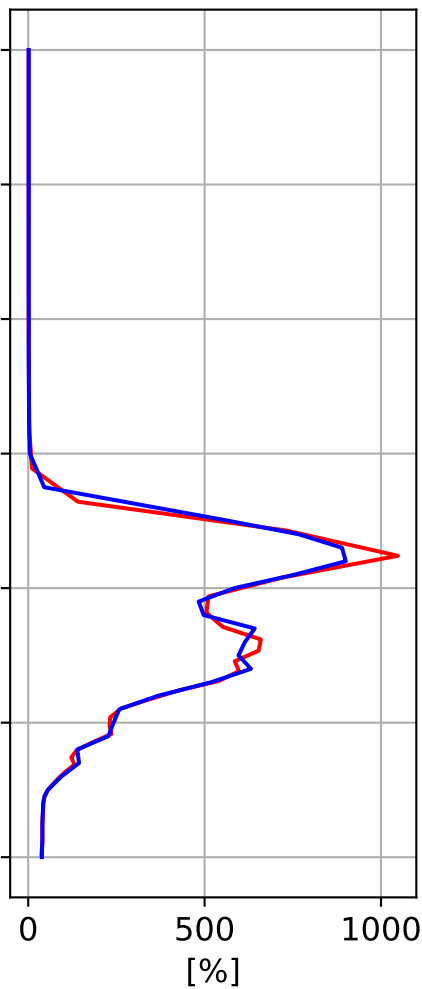
Min, Max, Mean of 732 profiles Bremen, 53.1N, 8.9E, 0.027kmasl



Std. Deviation



Percent Deviation

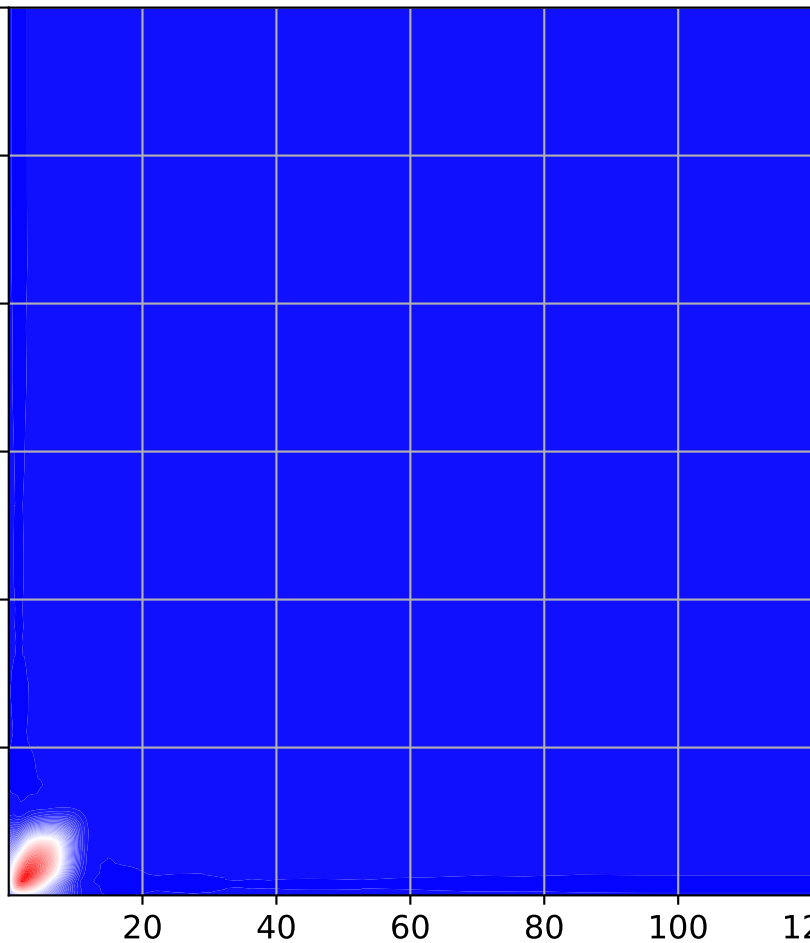


Level covariance matrix

1e-23

Altitude [km]

120
100
80
60
40
20



Mixing ratio[²]

1.35
1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00

20 40 60 80 100 120

Altitude [km]