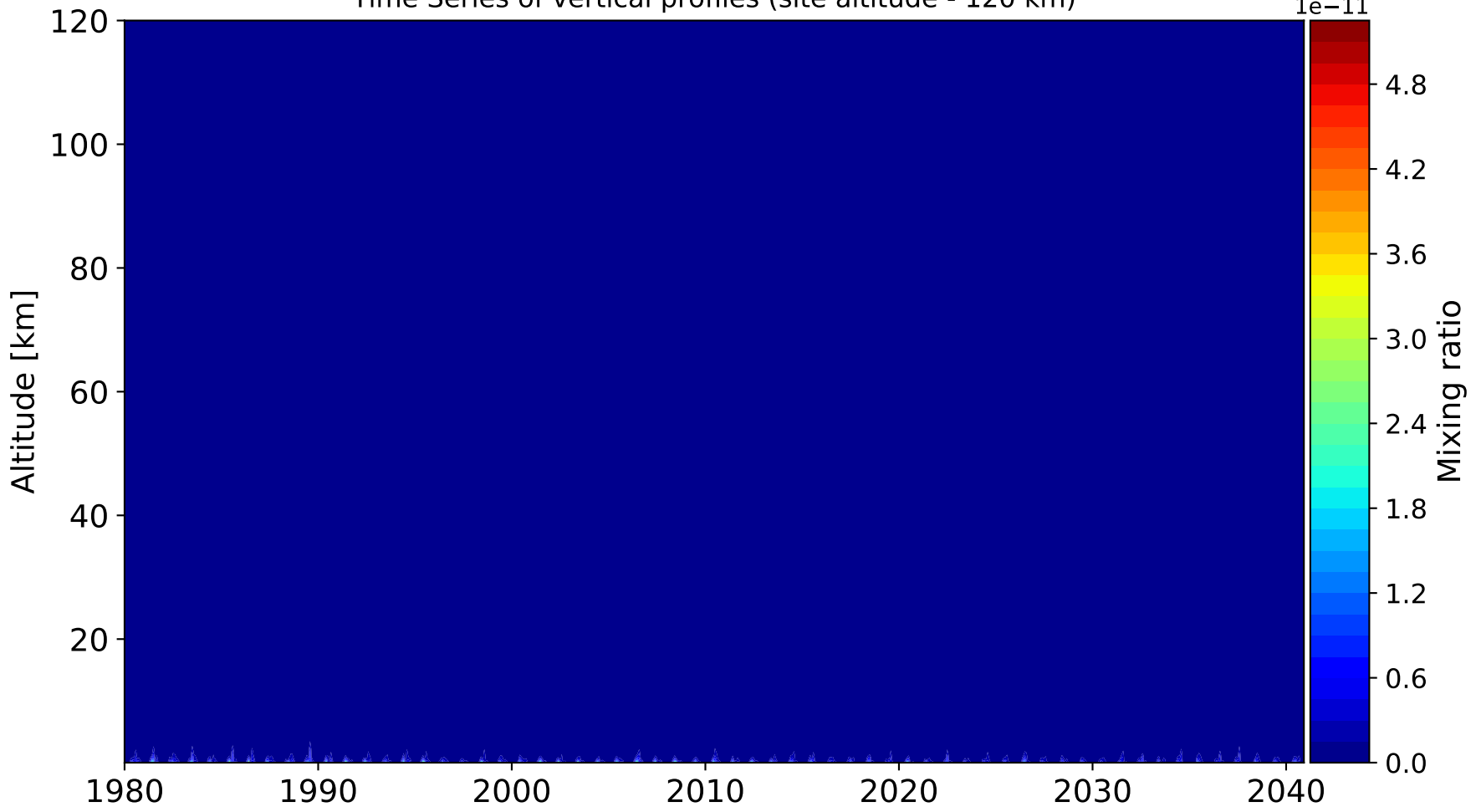


Time Series of vertical profiles (site altitude - 120 km)

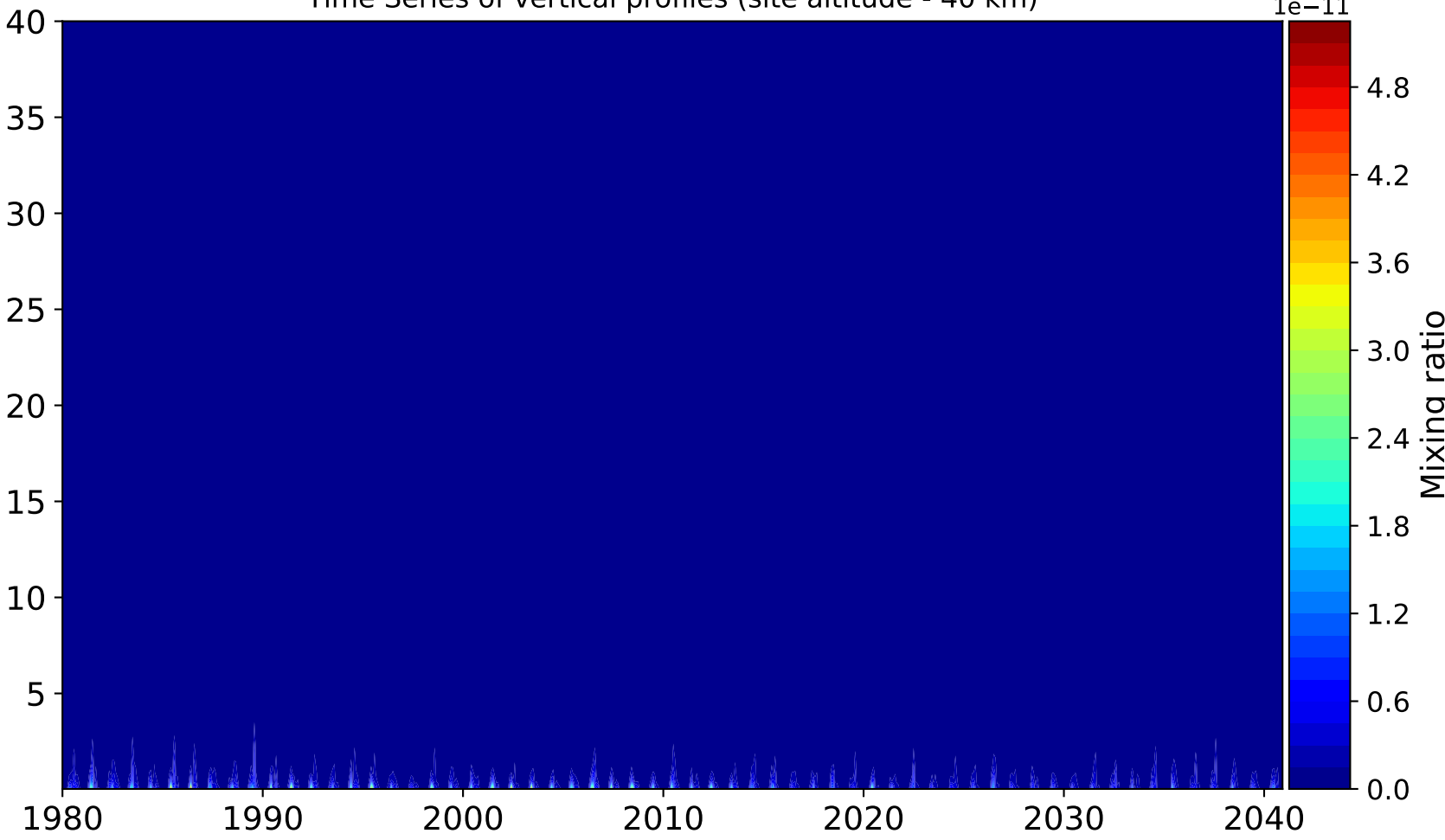
1e-11



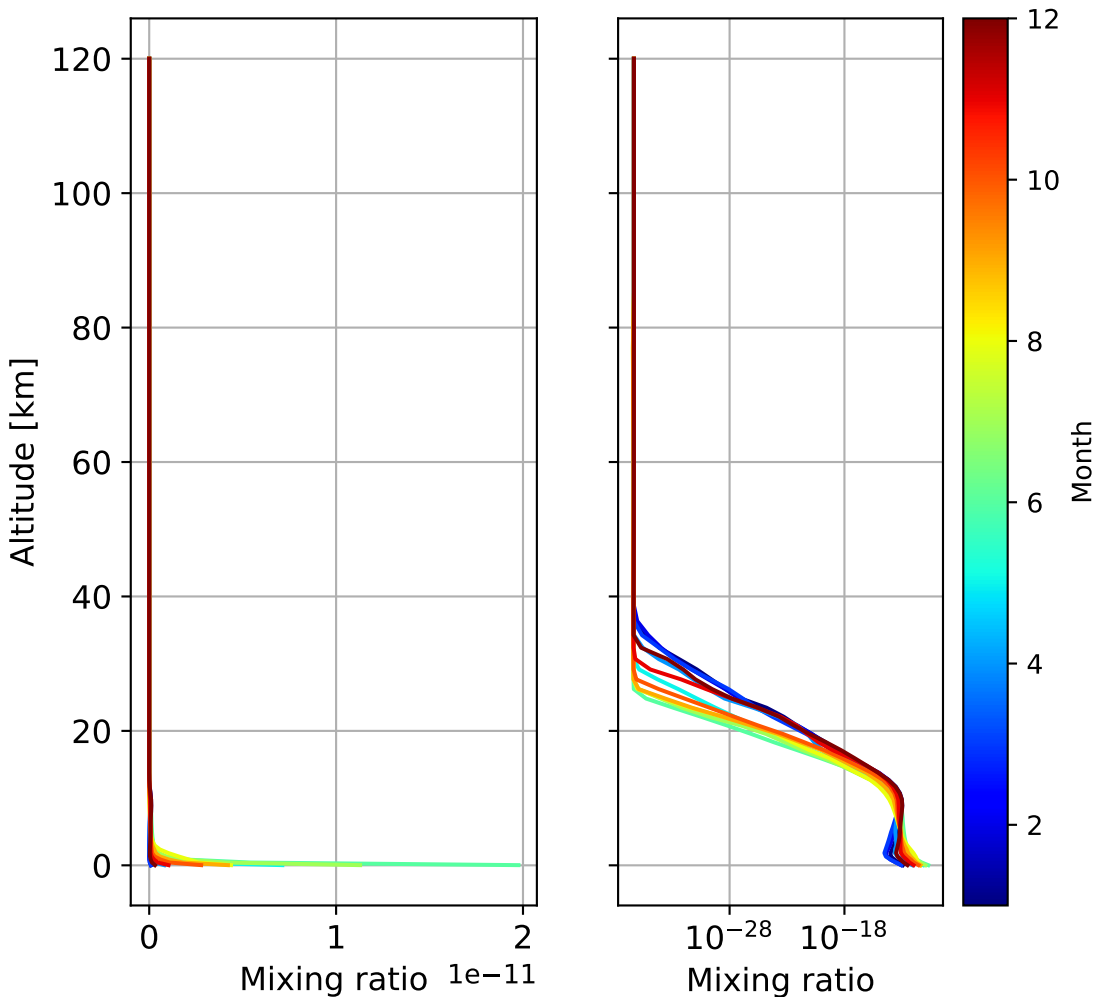
Time Series of vertical profiles (site altitude - 40 km)

$1e-11$

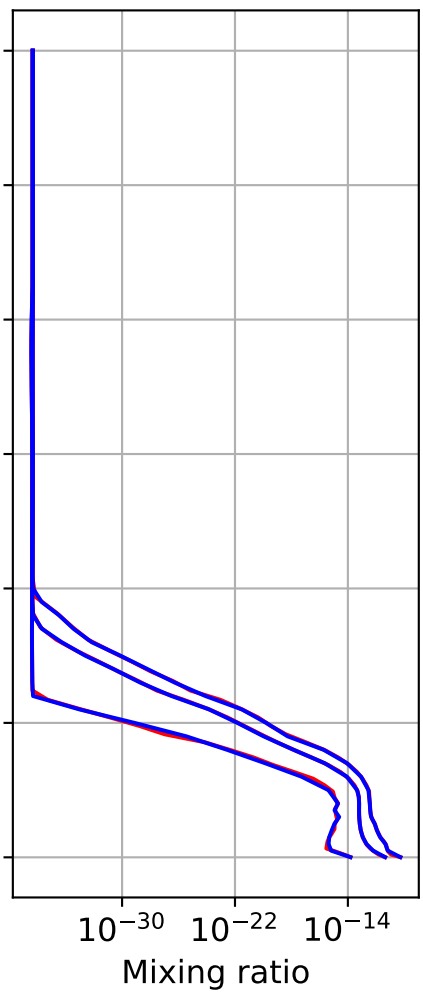
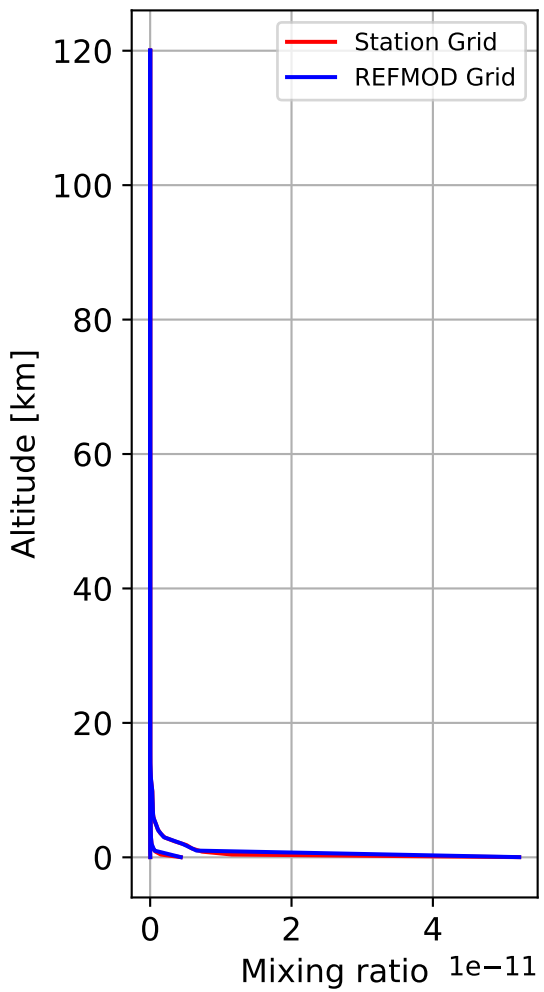
Altitude [km]



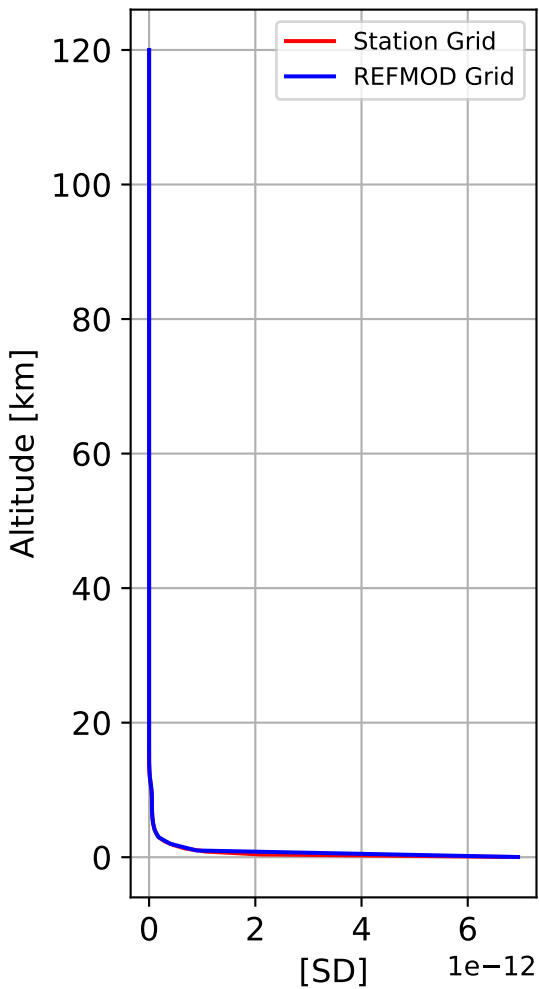
Monthly mean WACCM profile (interpolated to station grid) Bremen, 53.1N, 8.9E, 0.027kmasl



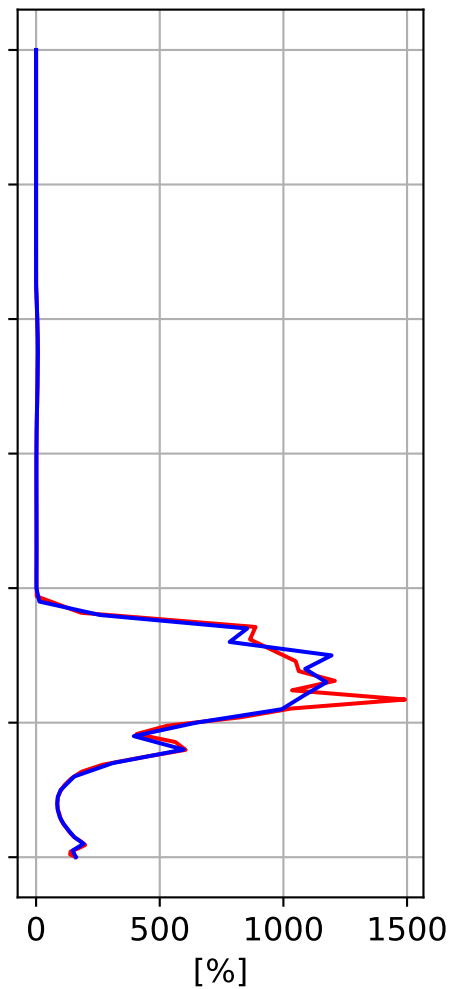
Min, Max, Mean of 732 profiles Bremen, 53.1N, 8.9E, 0.027kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

$1e-23$

Altitude [km]

120
100
80
60
40
20

20 40 60 80 100 120

Altitude [km]

Mixing ratio[~ 2]

4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0

