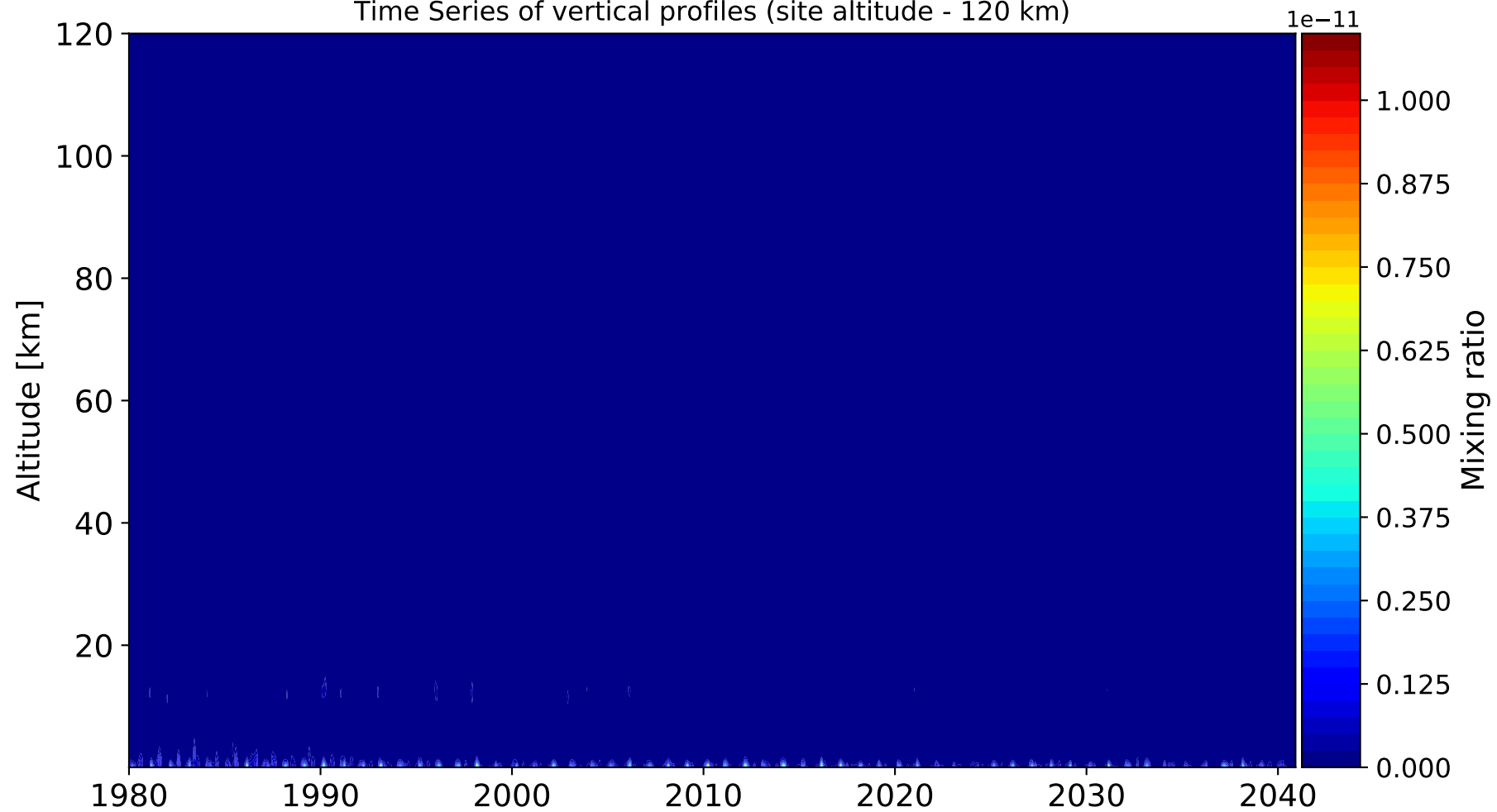
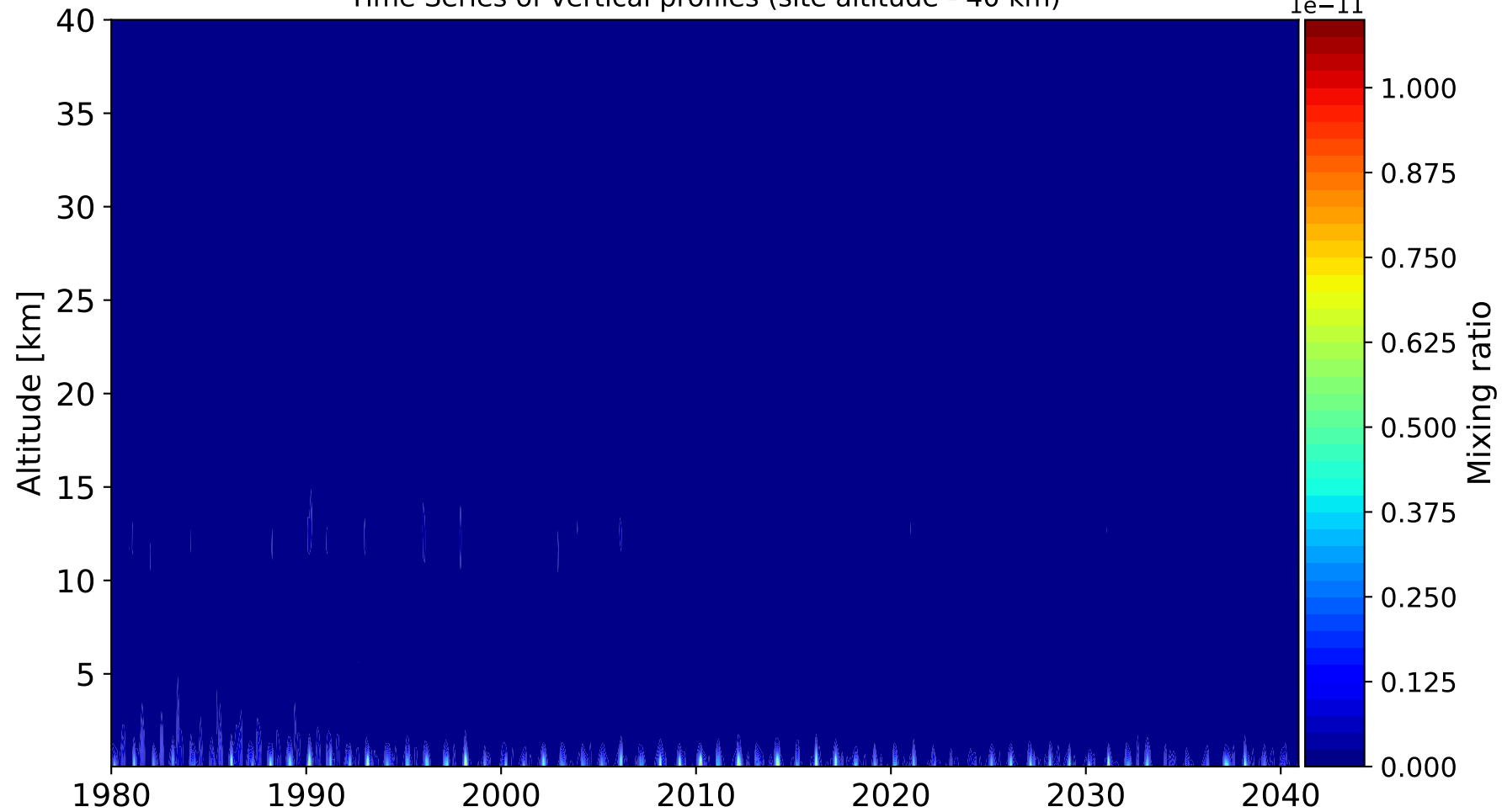


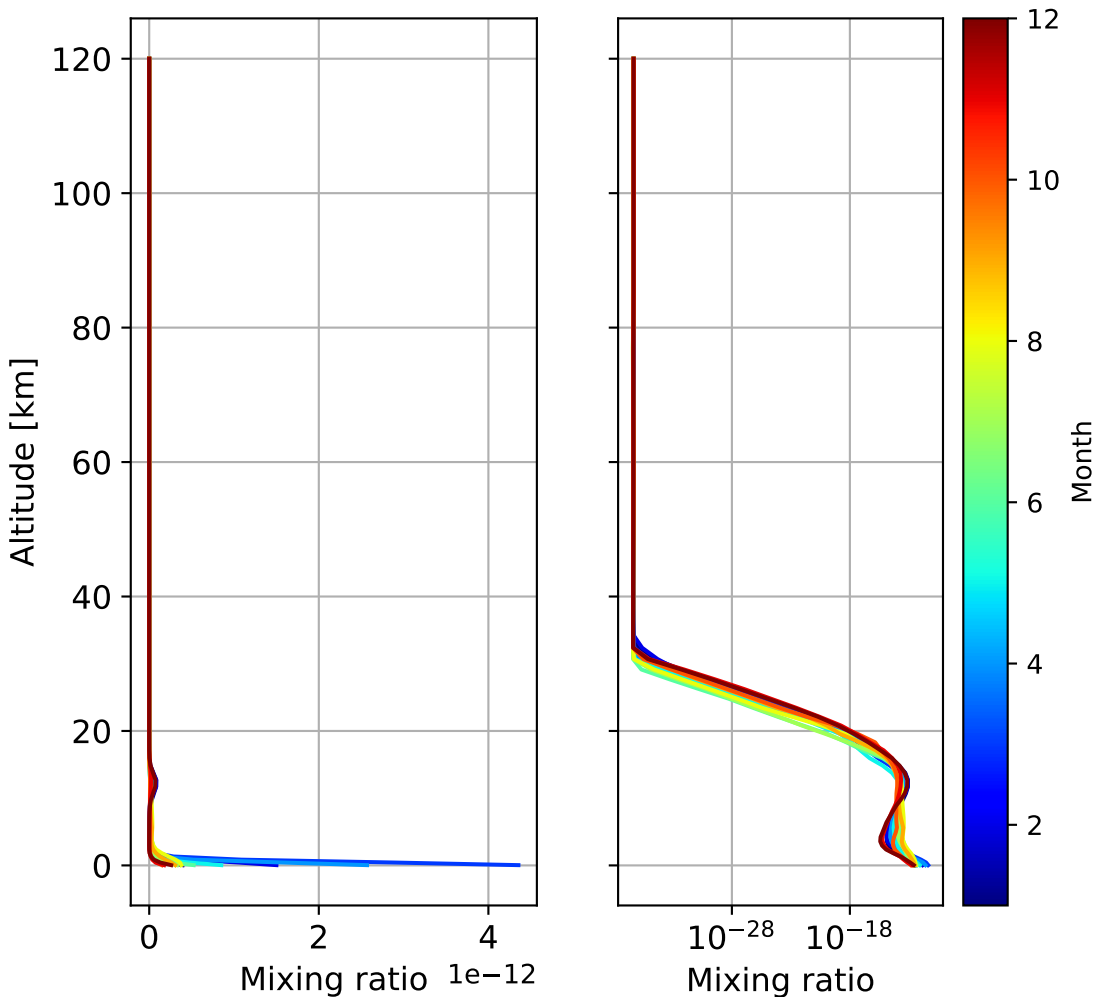
Time Series of vertical profiles (site altitude - 120 km)



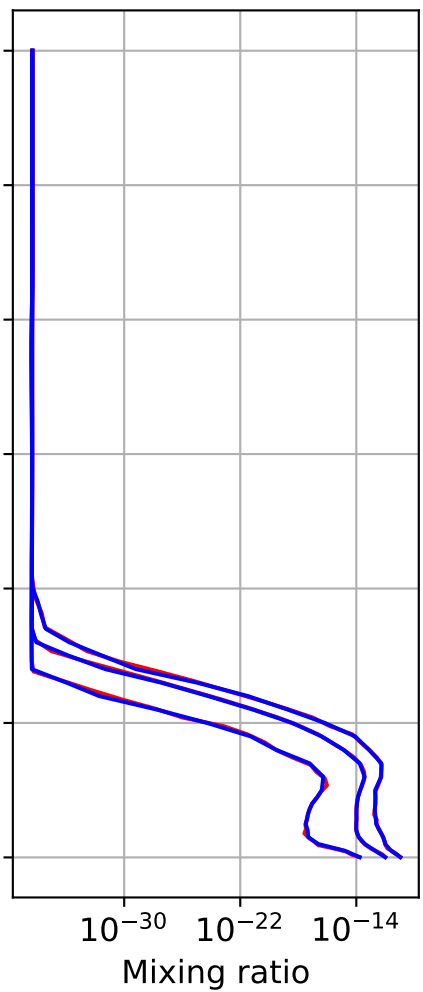
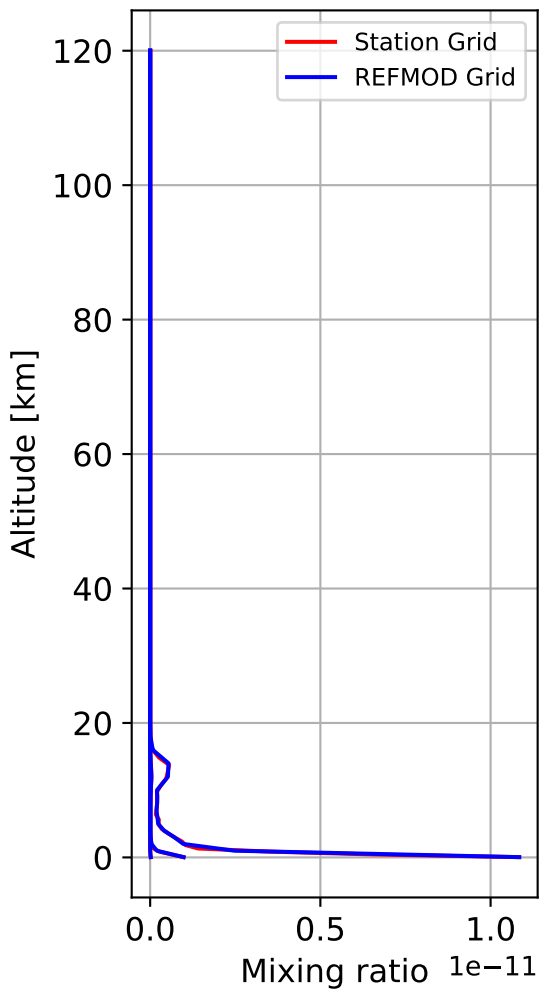
Time Series of vertical profiles (site altitude - 40 km)



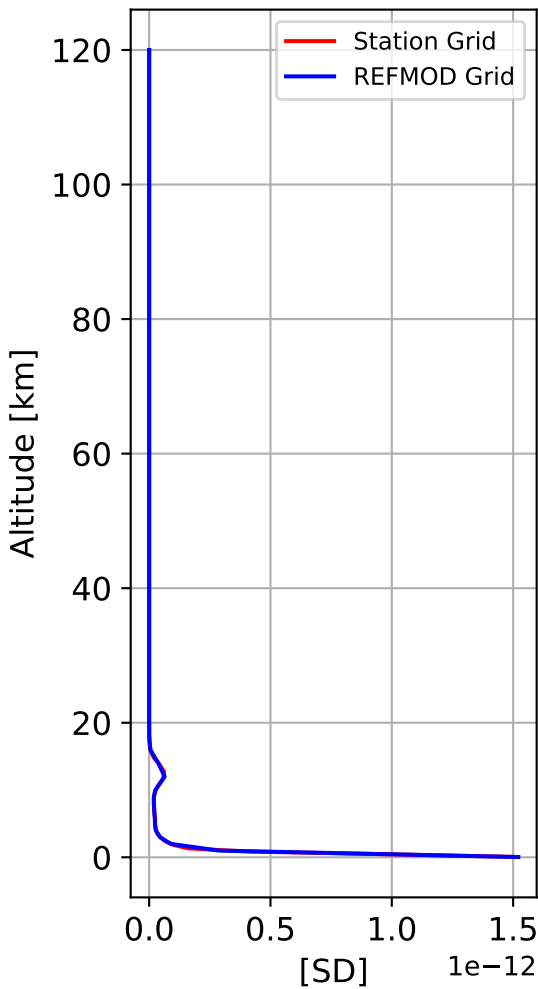
Monthly mean WACCM profile (interpolated to station grid)
Hefei, 31.9N, 117.17E, 0.04kmasl



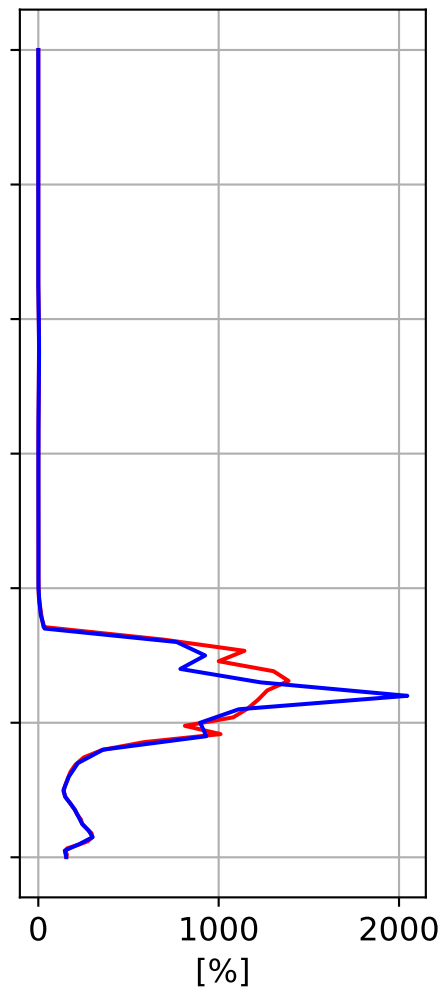
Min, Max, Mean of 732 profiles Hefei, 31.9N, 117.17E, 0.04kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

 $1e-24$

Altitude [km]

120

100

80

60

40

20

20

Altitude [km]

40

60

80

100

120

2.25

2.00

1.75

1.50

1.25

1.00

0.75

0.50

0.25

0.00

Mixing ratio[~ 2]