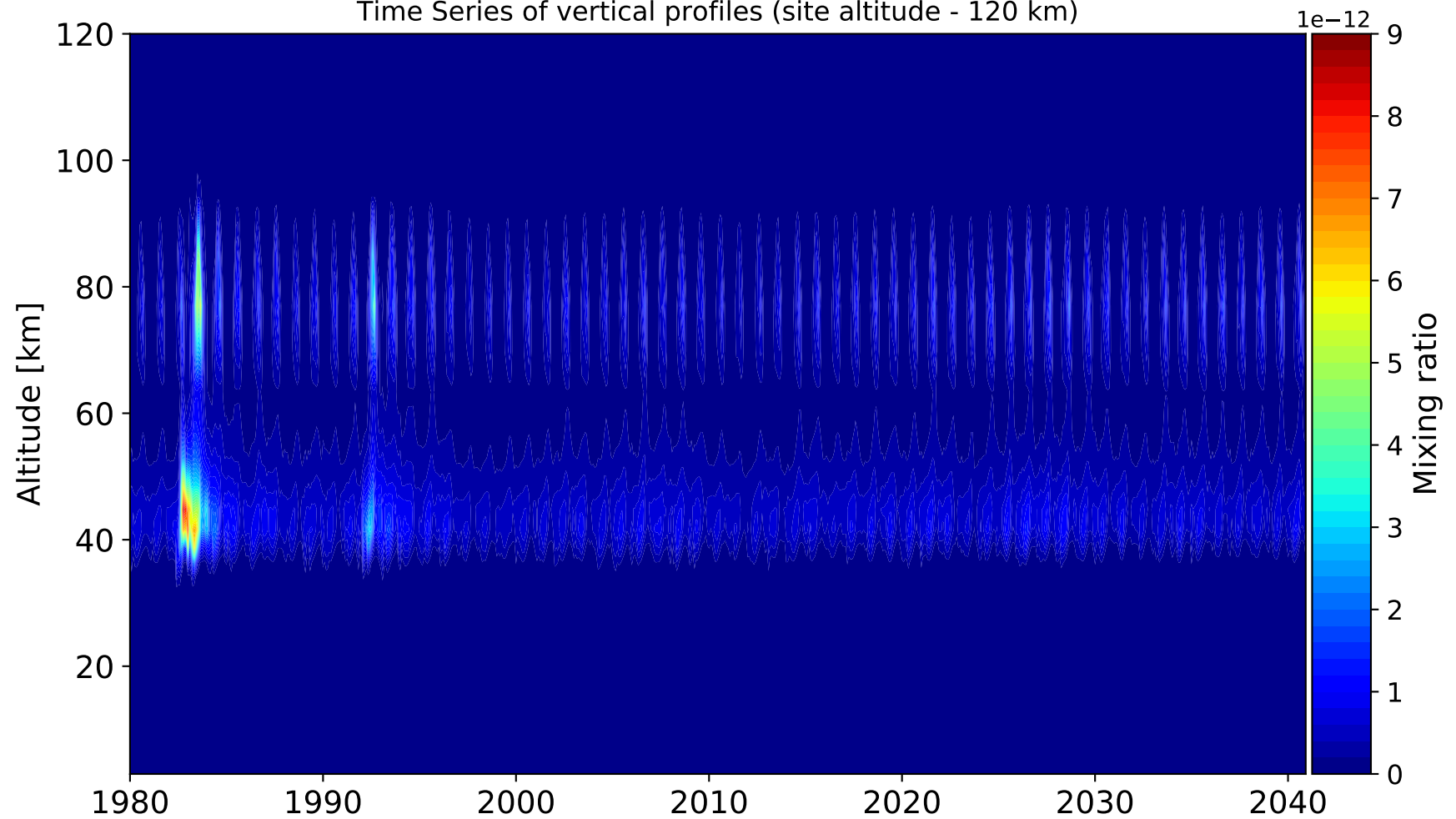
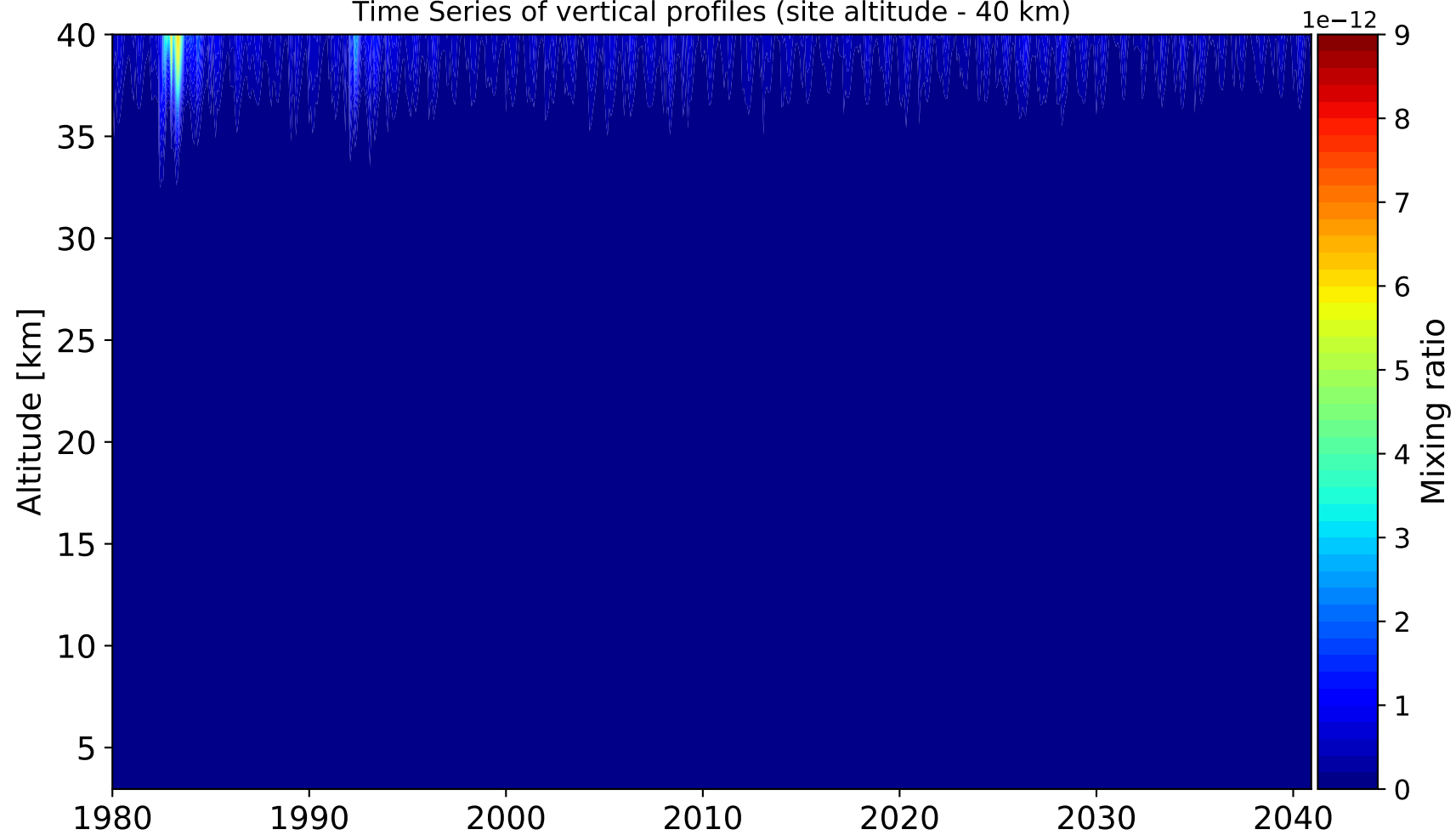


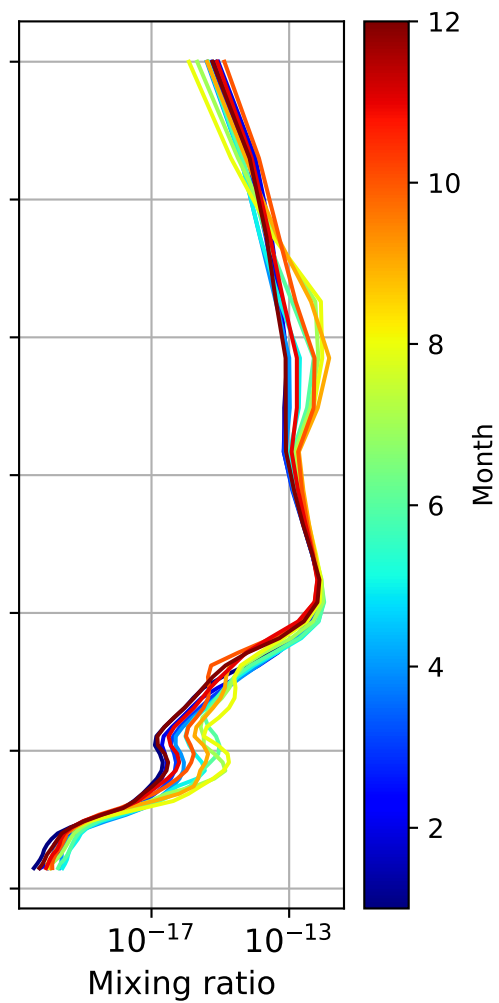
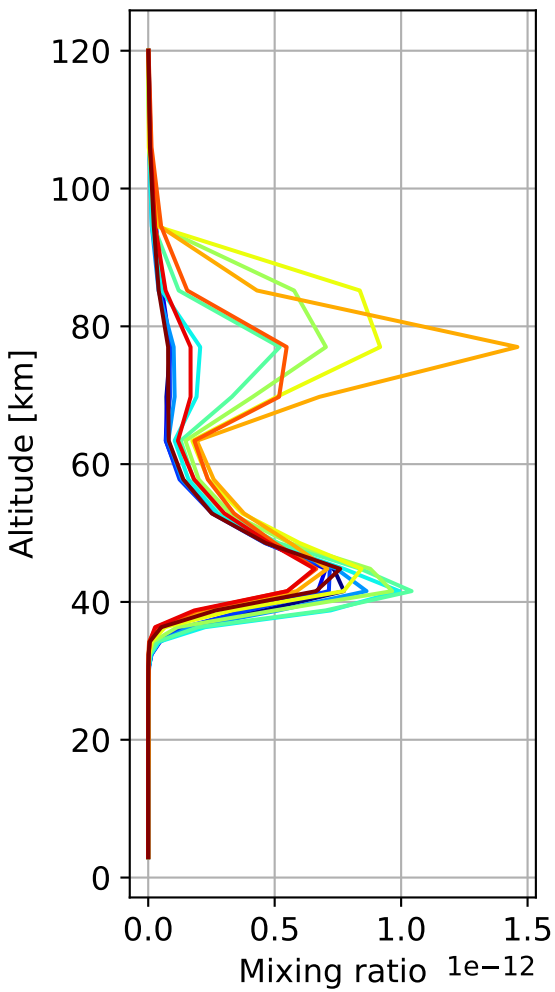
Time Series of vertical profiles (site altitude - 120 km)



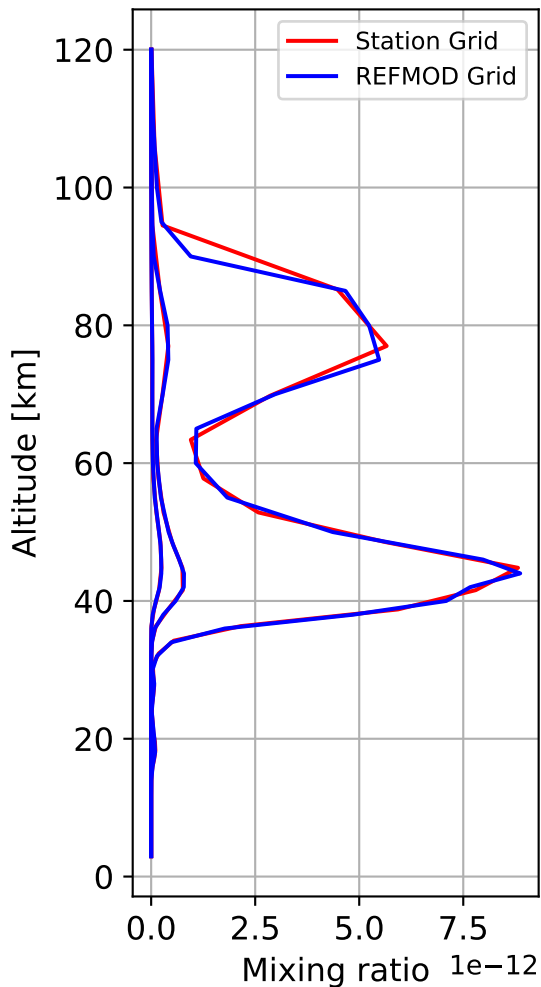
Time Series of vertical profiles (site altitude - 40 km)



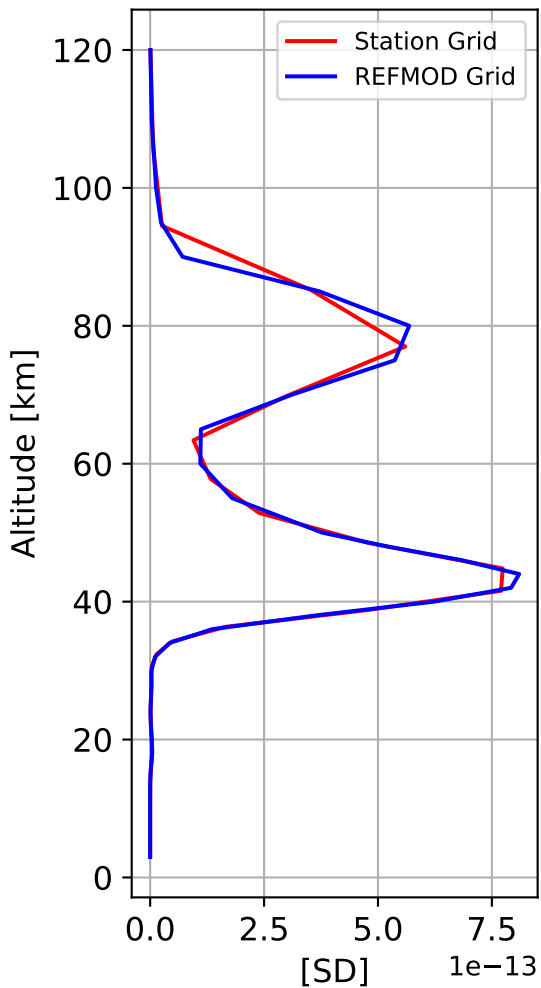
# Monthly mean WACCM profile (interpolated to station grid) Zugspitze, 47.42N, 10.98E, 2.964kmasl



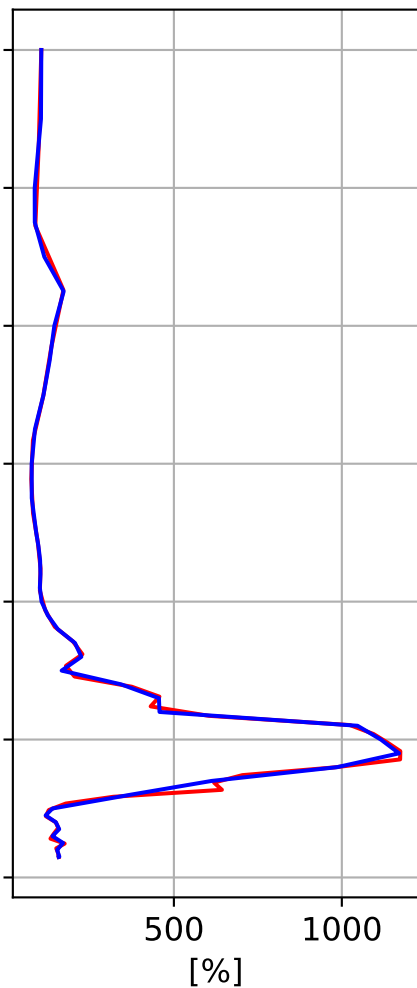
Min, Max, Mean of 732 profiles  
Zugspitze, 47.42N, 10.98E, 2.964kmasl



Std. Deviation



Percent Deviation



# Level covariance matrix

1e-25

Altitude [km]

120

100

80

60

40

20

20

40

60

80

100

120

Altitude [km]

6.00

5.25

4.50

3.75

3.00

2.25

1.50

0.75

0.00

Mixing ratio[ $\sim 2$ ]

