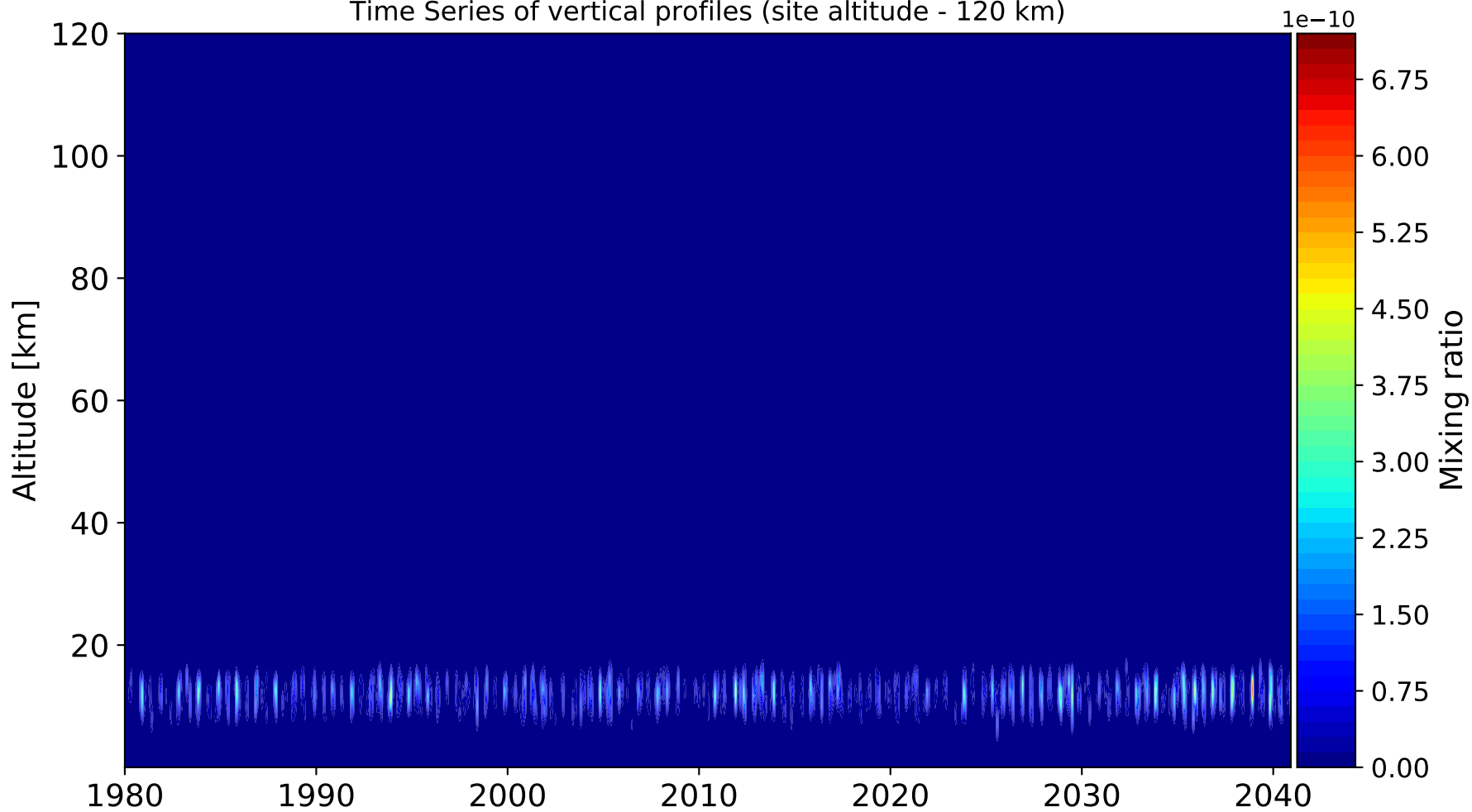
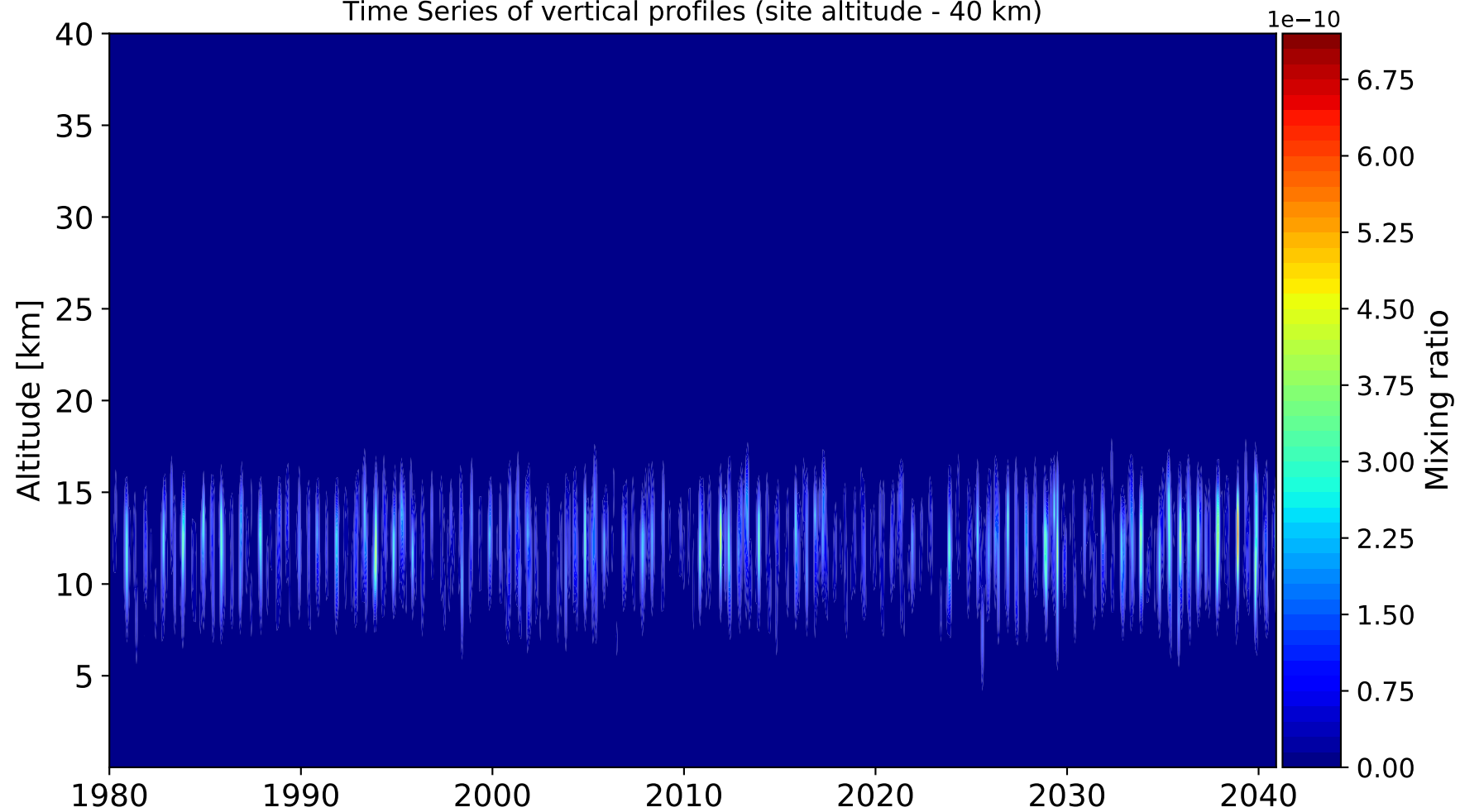


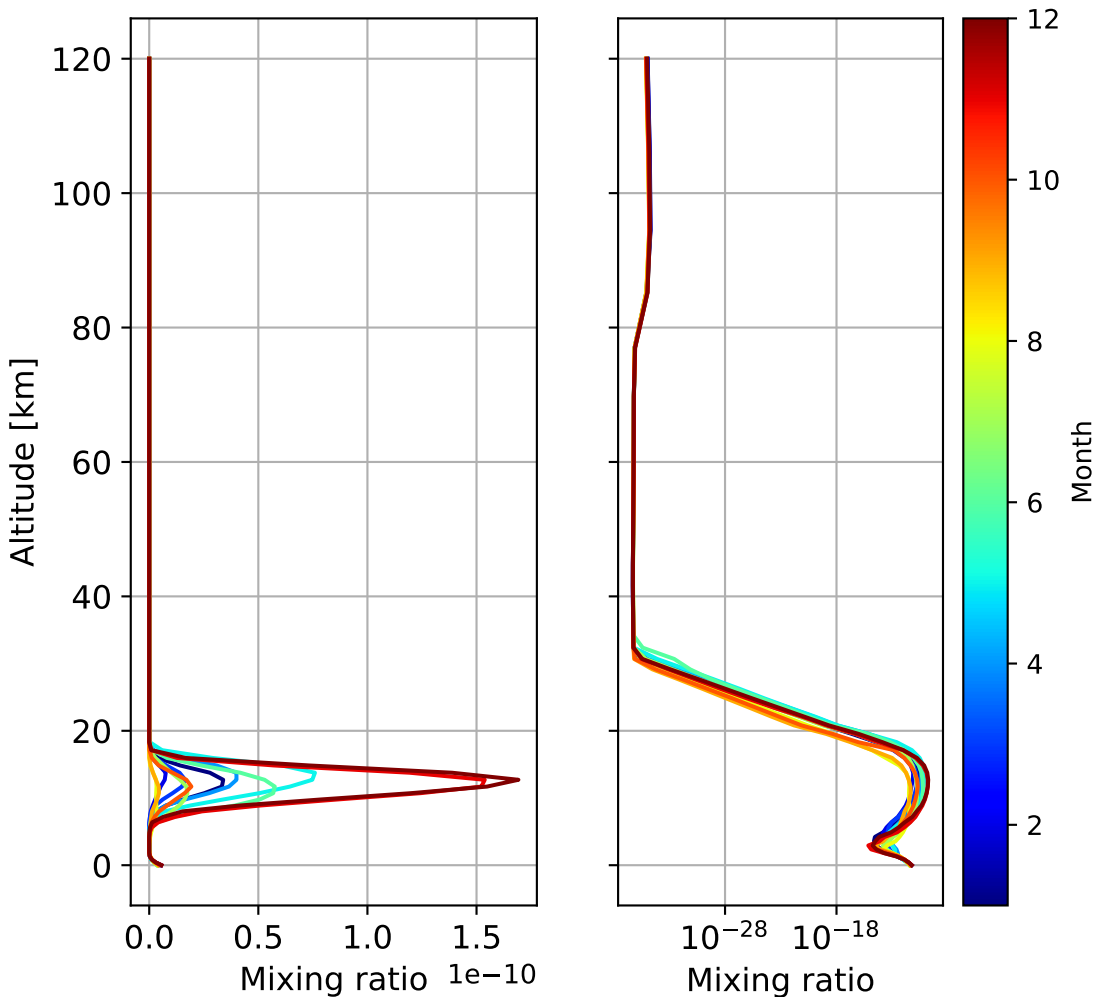
Time Series of vertical profiles (site altitude - 120 km)



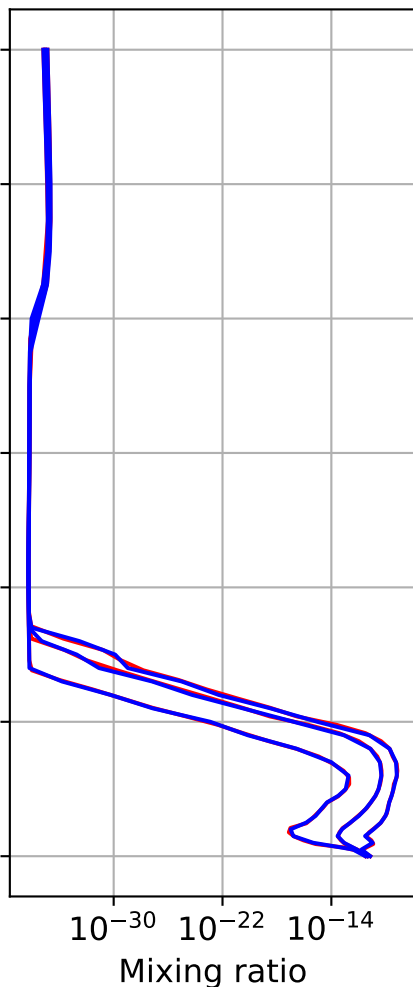
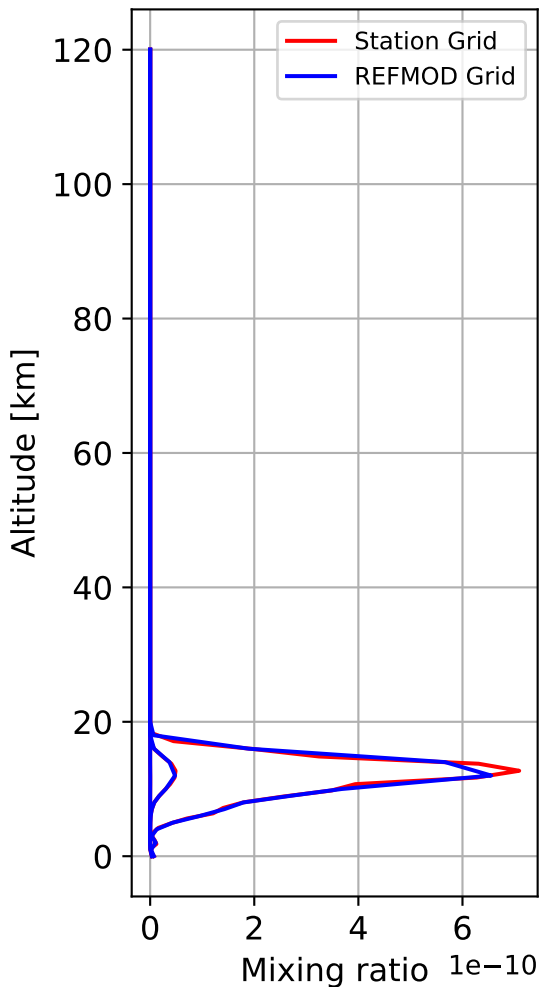
Time Series of vertical profiles (site altitude - 40 km)



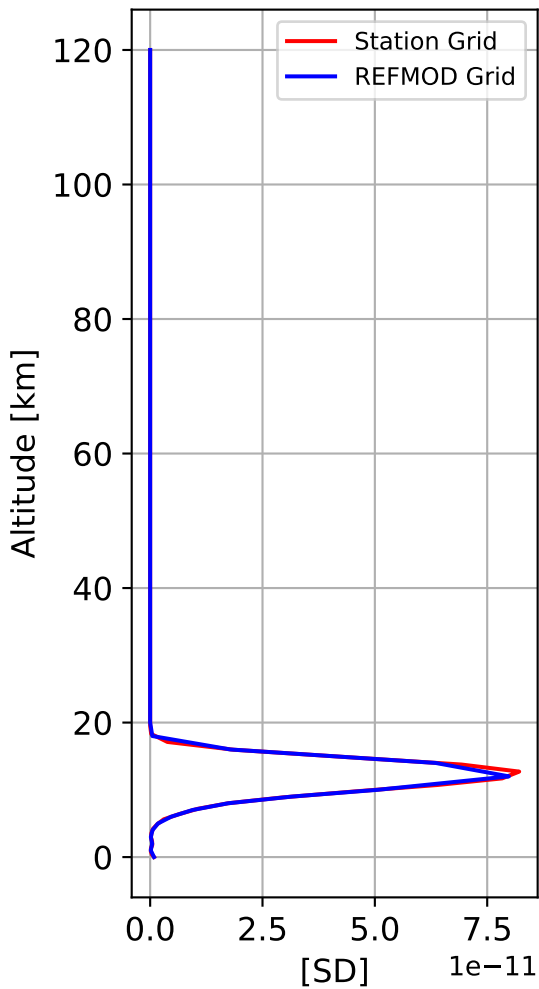
Monthly mean WACCM profile (interpolated to station grid)
Ascension, -7.9165N, 345.6675E, 0.01kmasl



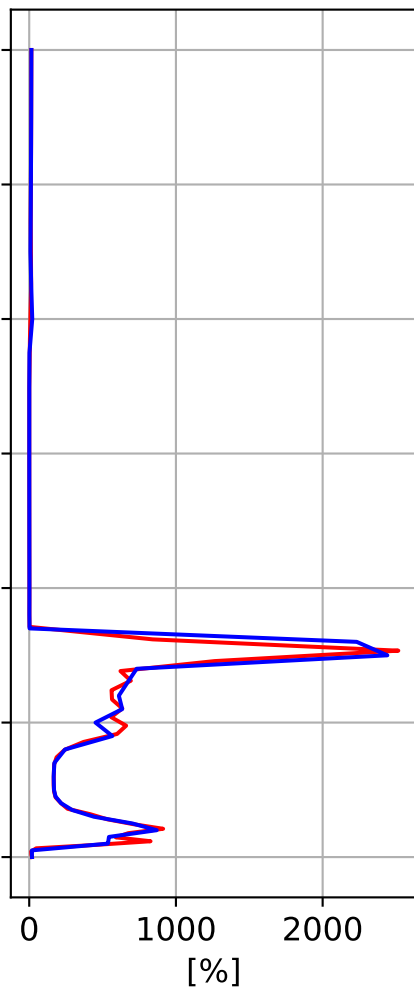
Min, Max, Mean of 732 profiles
Ascension, -7.9165N, 345.6675E, 0.01kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

 $1e-21$

Altitude [km]

120

100

80

60

40

20

20

Altitude [km]

40

60

80

100

120

6.75

6.00

5.25

4.50

3.75

3.00

2.25

1.50

0.75

0.00

Mixing ratio[~ 2]