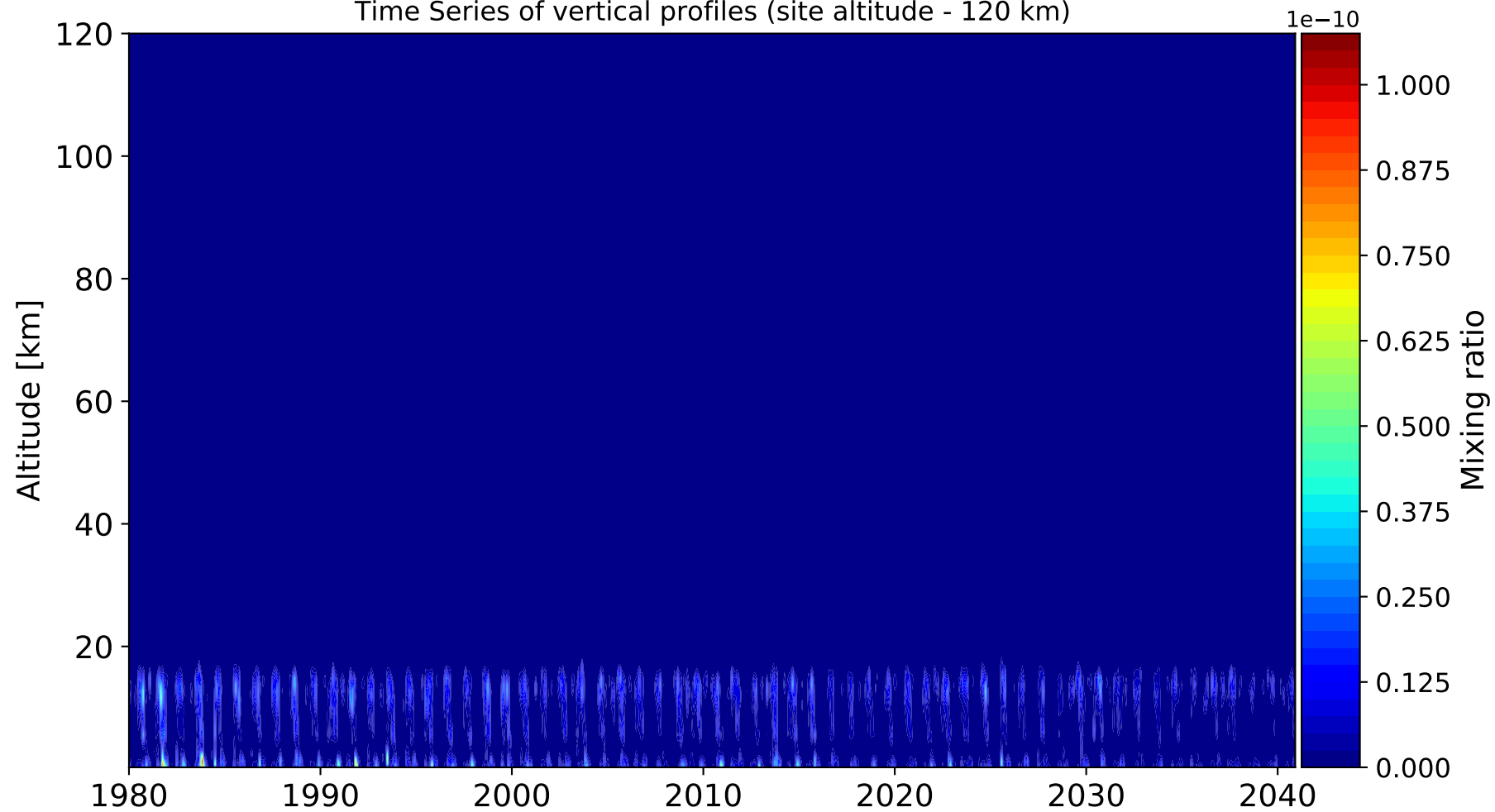
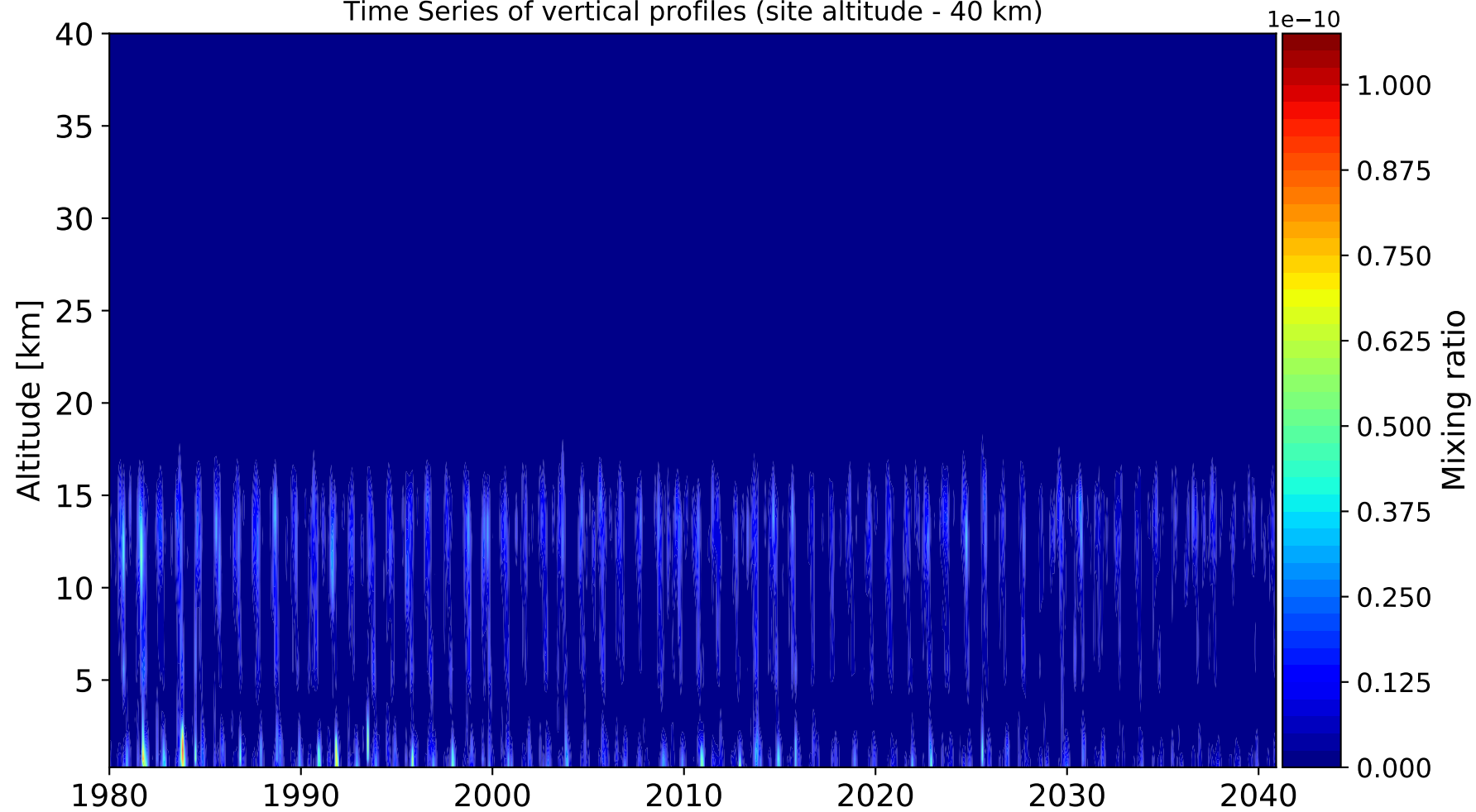


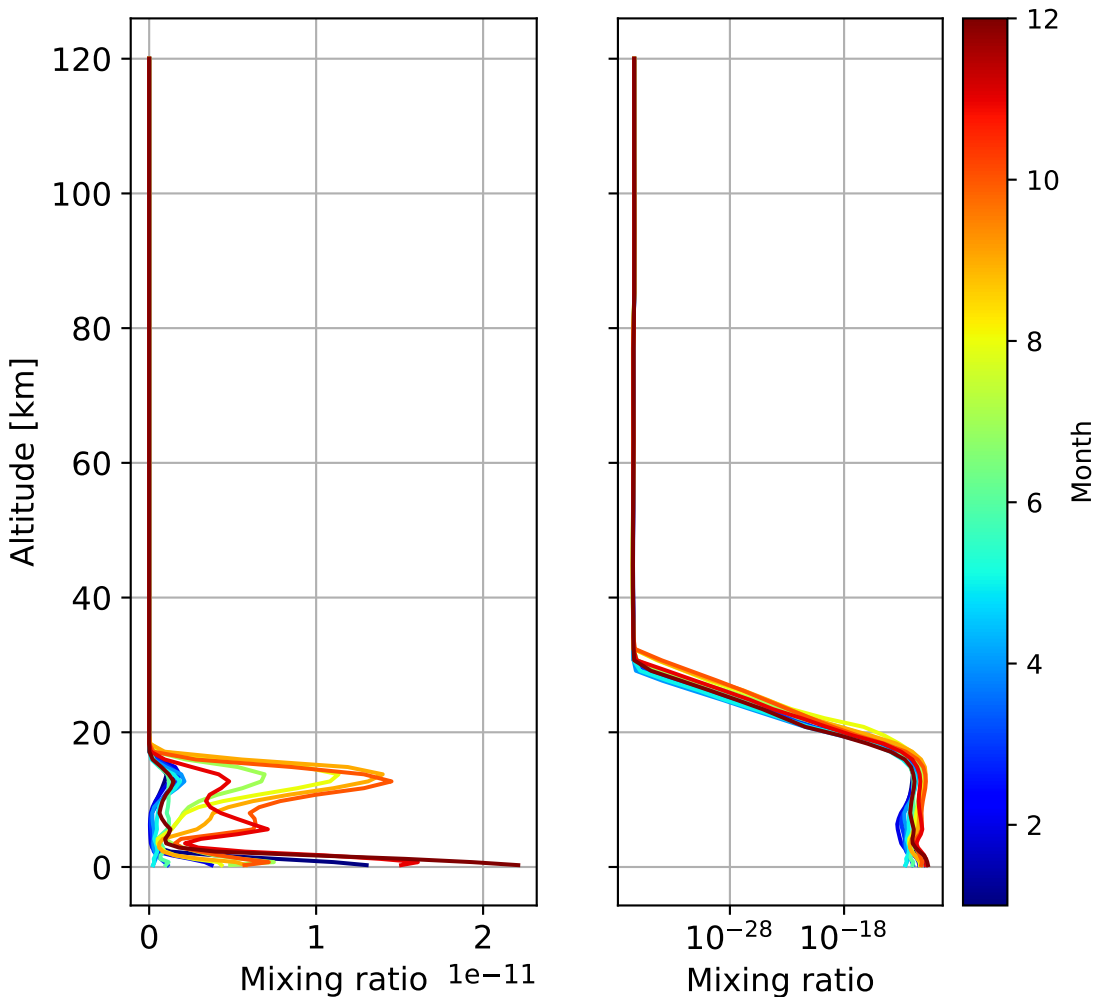
Time Series of vertical profiles (site altitude - 120 km)



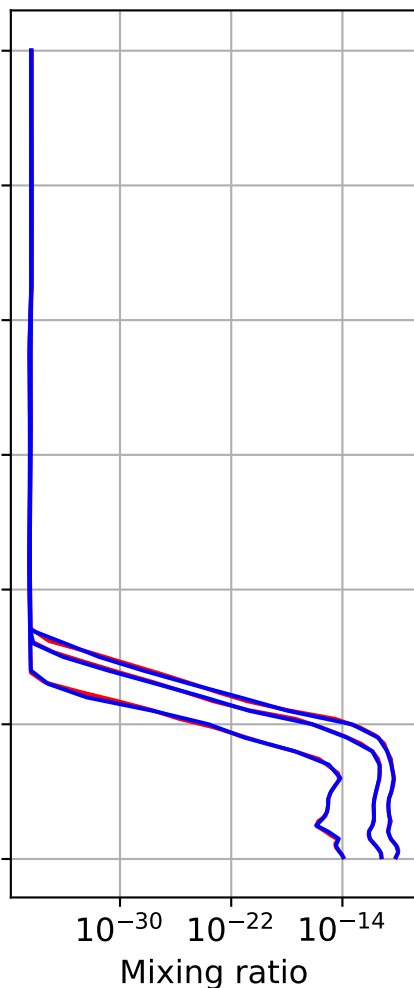
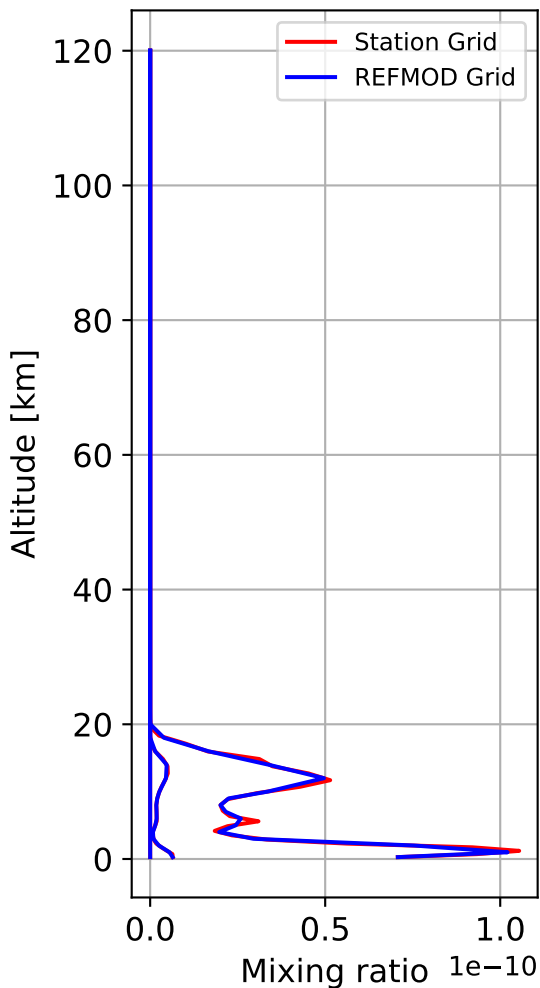
Time Series of vertical profiles (site altitude - 40 km)



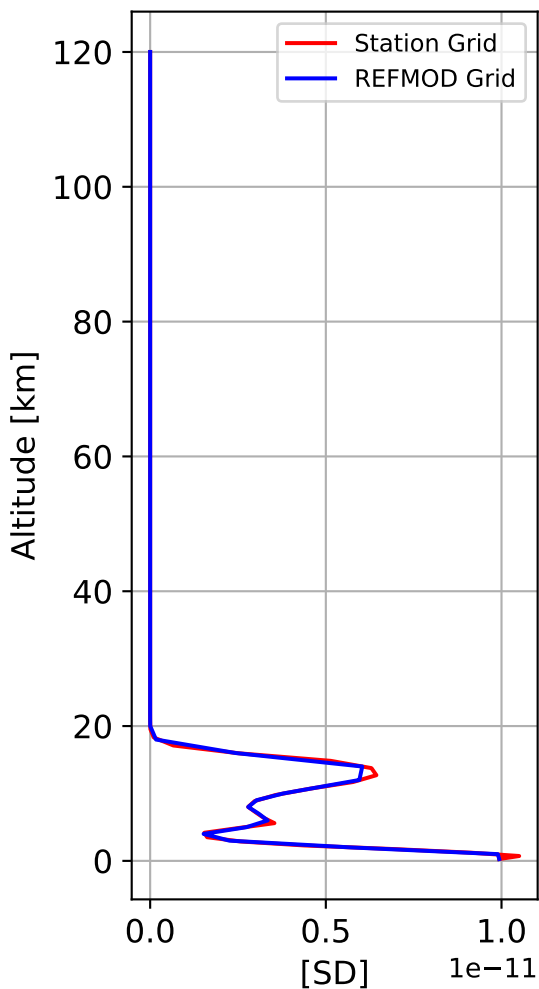
Monthly mean WACCM profile (interpolated to station grid)
Calakmul, 18.5955N, 89.4141E, 0.275kmasl



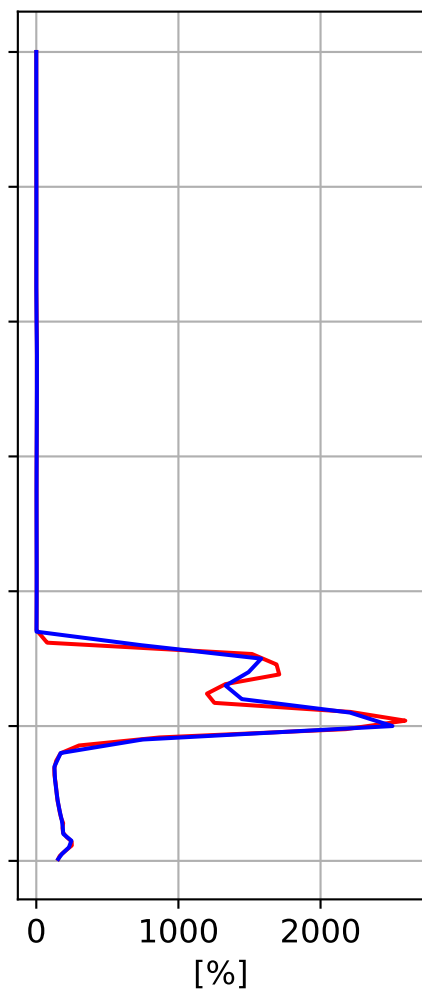
Min, Max, Mean of 732 profiles
Calakmul, 18.5955N, 89.4141E, 0.275kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

 $1e-22$

Altitude [km]

120
100
80
60
40
20

20

Altitude [km]

40

60

80

100

120

1.125
1.000
0.875
0.750
0.625
0.500
0.375
0.250
0.125
0.000Mixing ratio²]