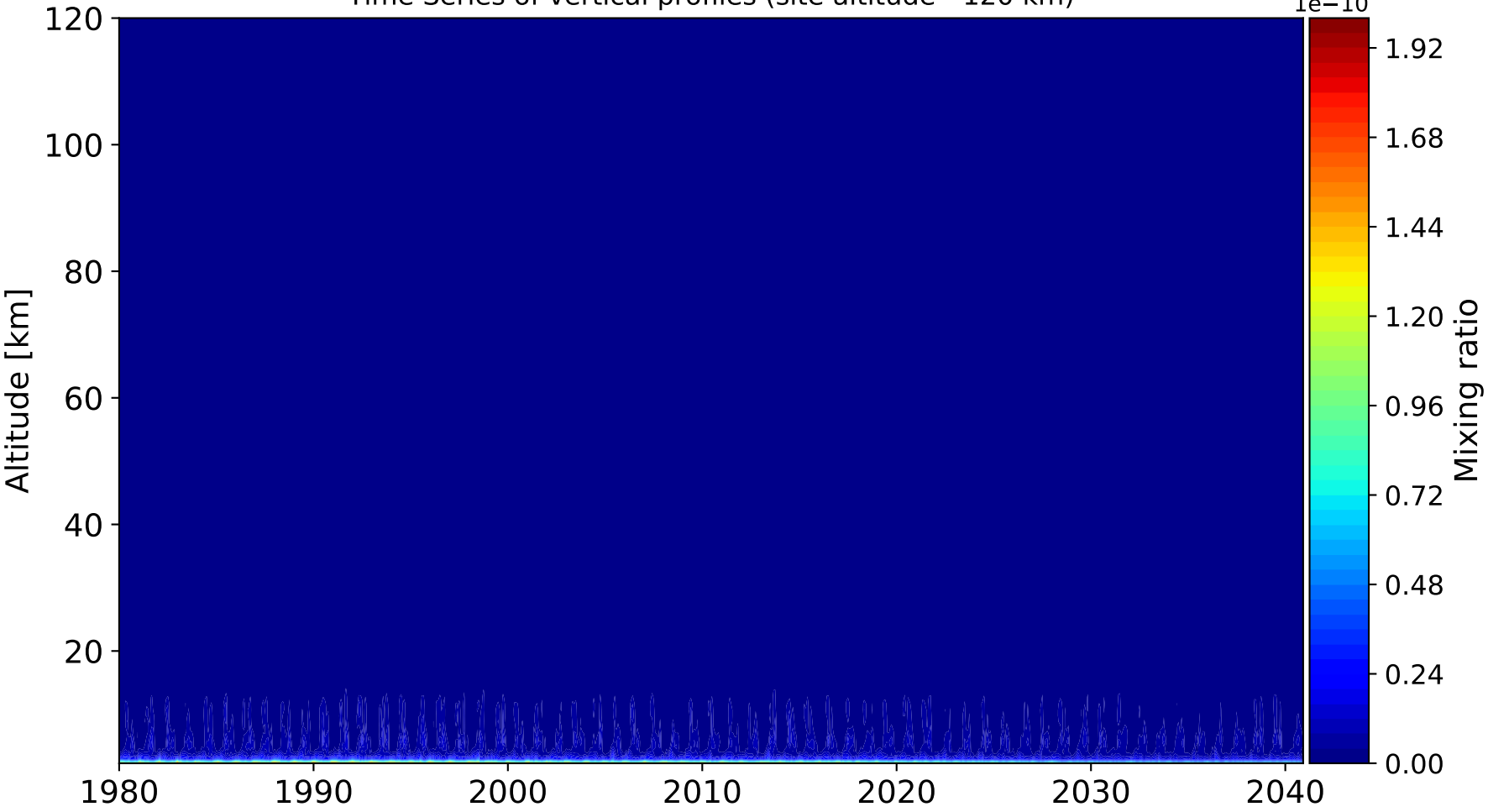
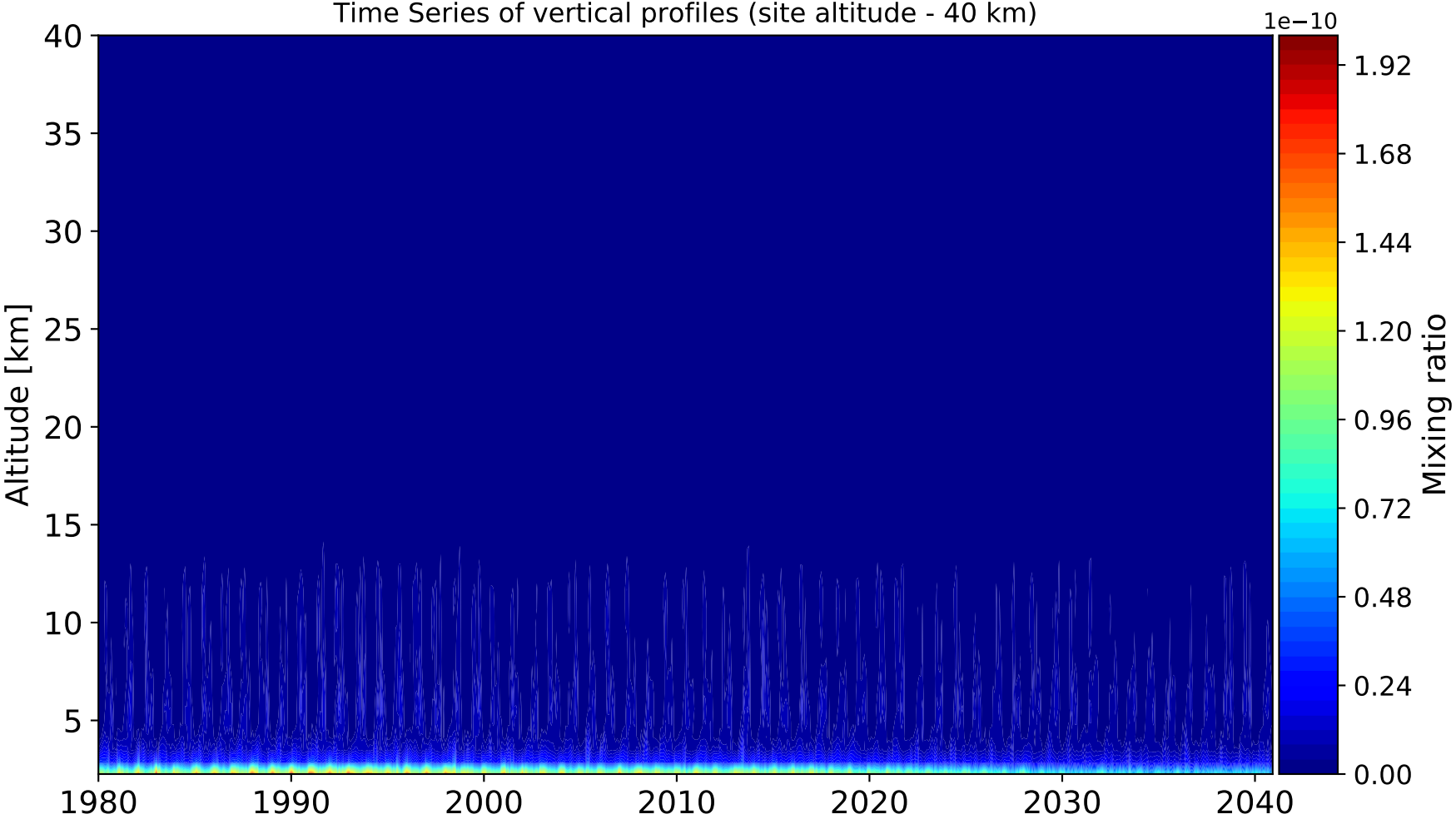
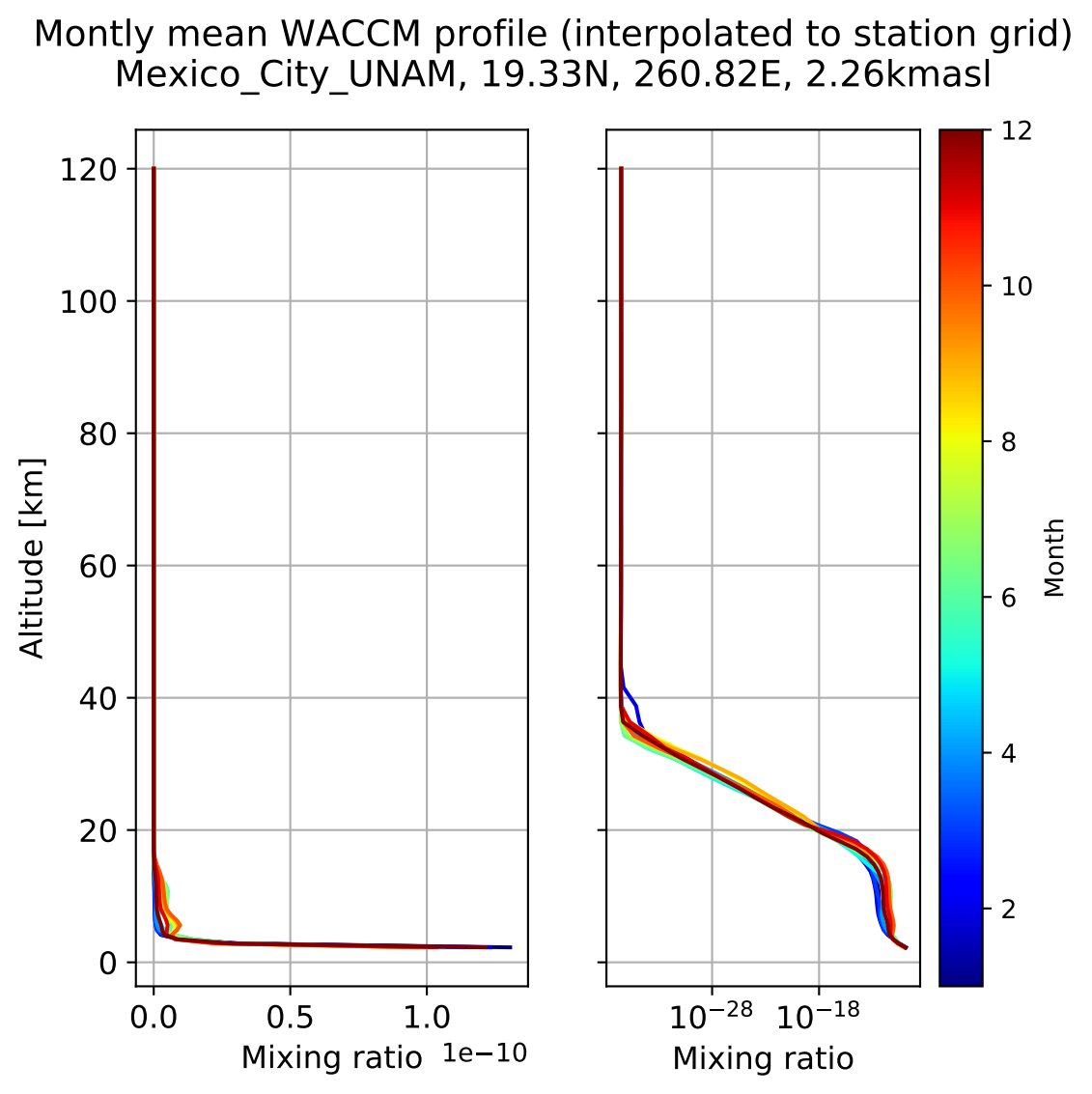
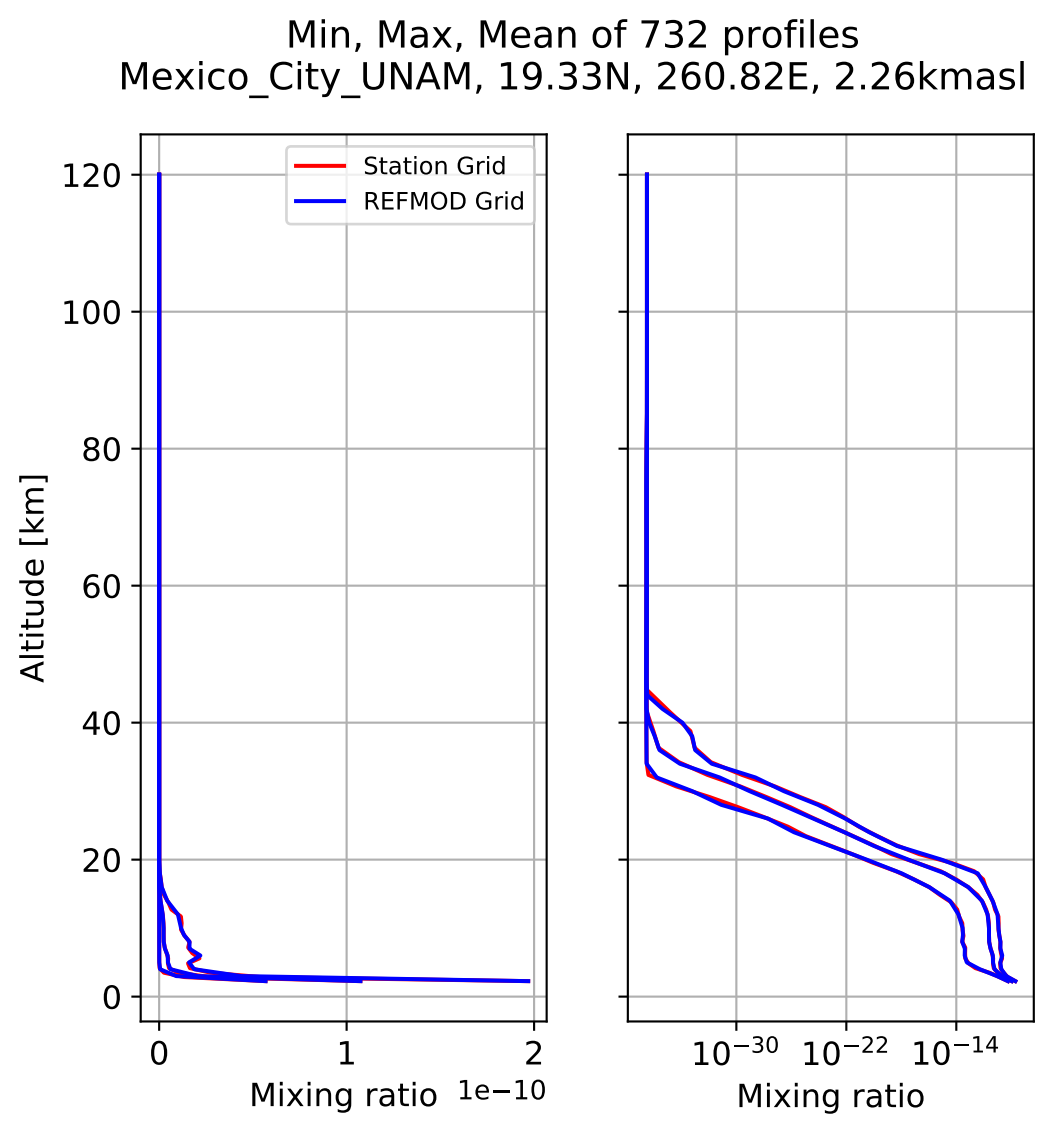
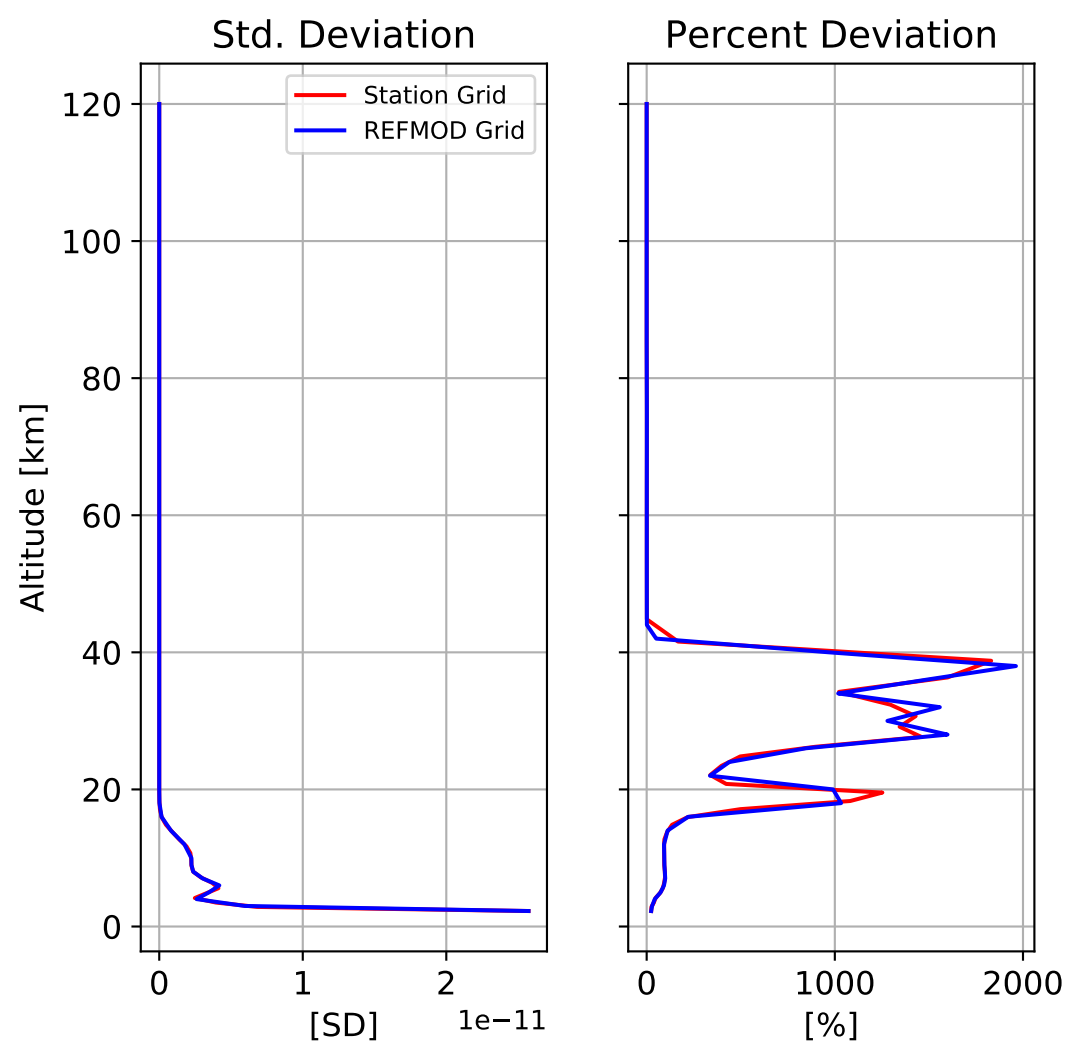
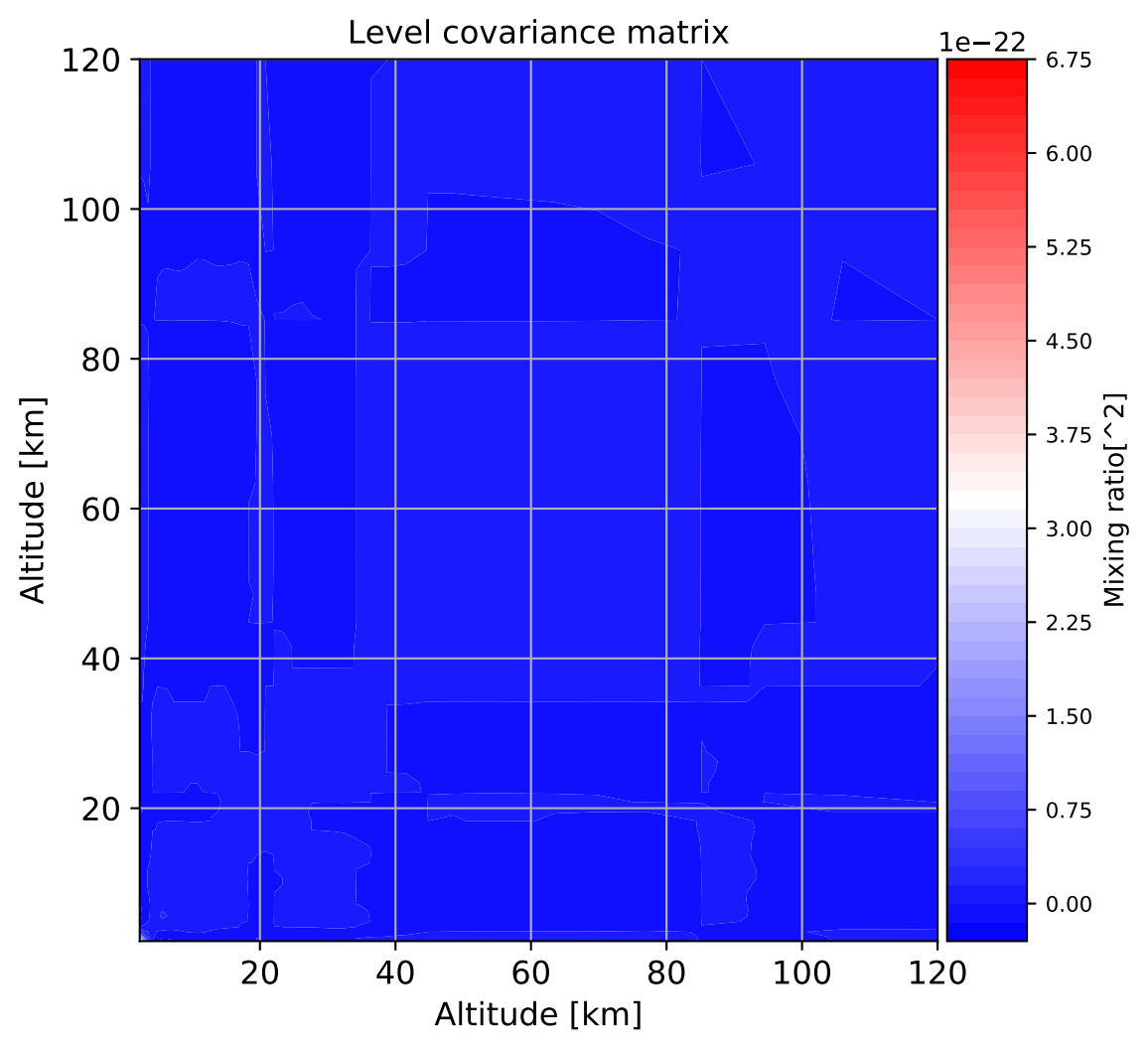

Time Series of vertical profiles (site altitude - 120 km)
Altitude [km]
120
100
80
60
40
20
1980
1990
2000
2010
2020
2030
2040
1e−10
1.92
1.68
1.44
1.20
0.96
0.72
0.48
0.24
0.00
Mixing ratio


Time Series of vertical profiles (site altitude - 40 km)
Altitude [km]
40
35
30
25
20
15
10
5
1980
1990
2000
2010
2020
2030
2040
1e−10
1.92
1.68
1.44
1.20
0.96
0.72
0.48
0.24
0.00
Mixing ratio


Montly mean WACCM profile (interpolated to station grid)
Mexico_City_UNAM, 19.33N, 260.82E, 2.26kmasl
Altitude [km]
120
100
80
60
40
20
0
0.0
0.5
1.0
1e−10
Mixing ratio
10^{-28}
10^{-18}
Mixing ratio
Month
12
10
8
6
4
2


Min, Max, Mean of 732 profiles
Mexico_City_UNAM, 19.33N, 260.82E, 2.26kmasl
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0
1
2
Mixing ratio
1e−10
10^{-30}
10^{-22}
10^{-14}
Mixing ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0
1
2
[SD]
1e−11
0
1000
2000
[%]


Level covariance matrix
1e−22
6.75
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00
Mixing ratio[^2]
120
100
80
60
40
20
Altitude [km]
20
40
60
80
100
120
Altitude [km]