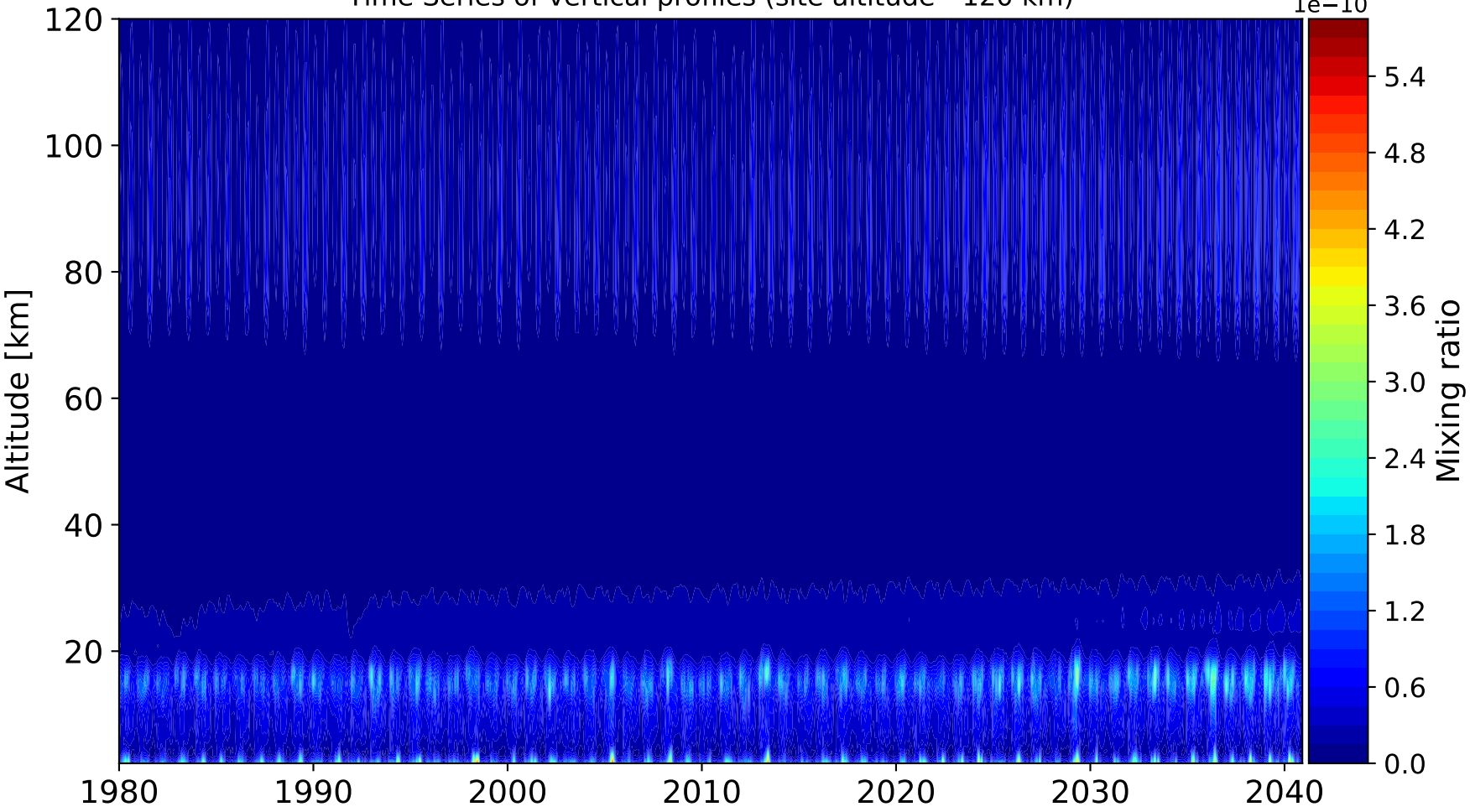
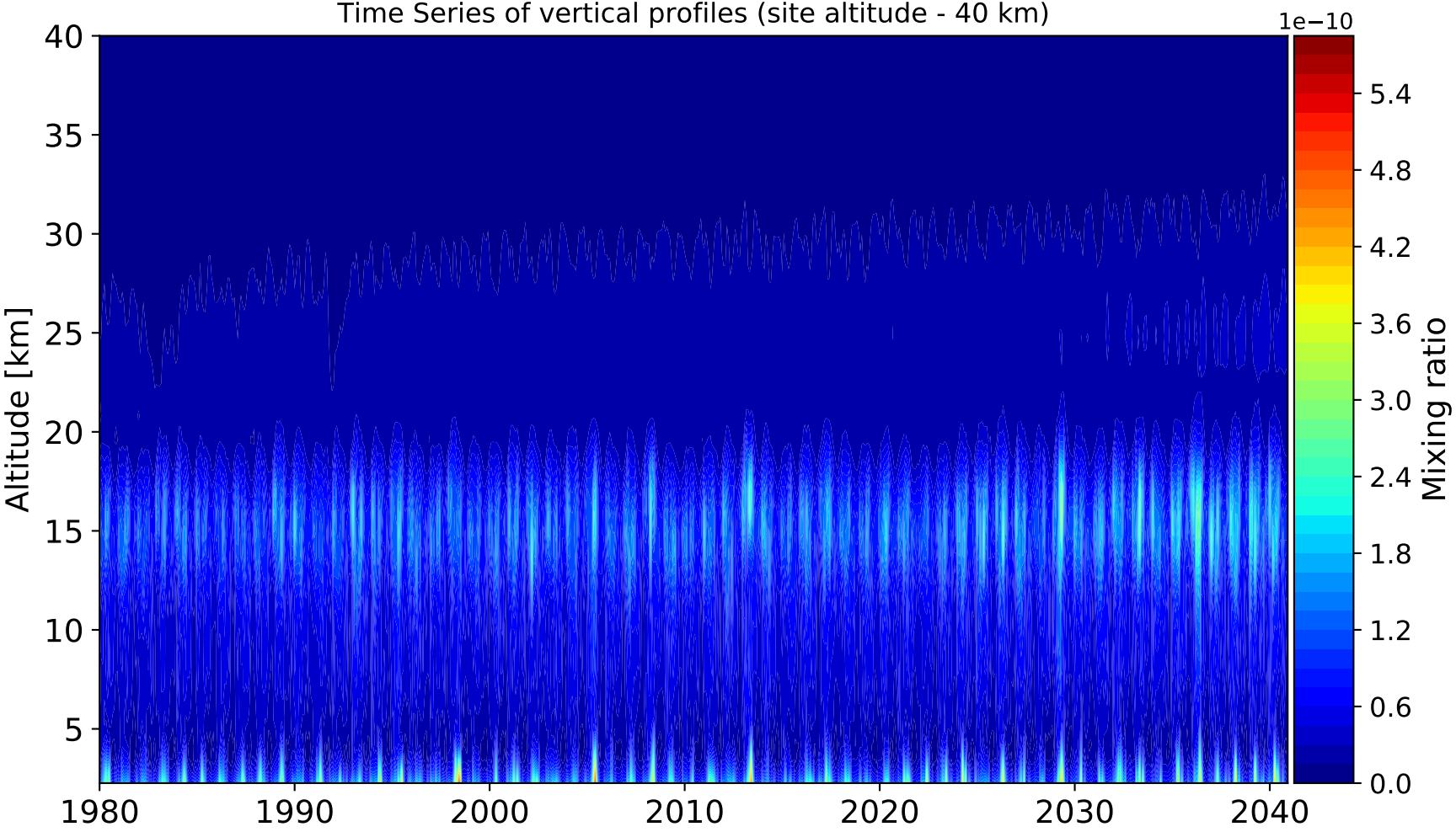
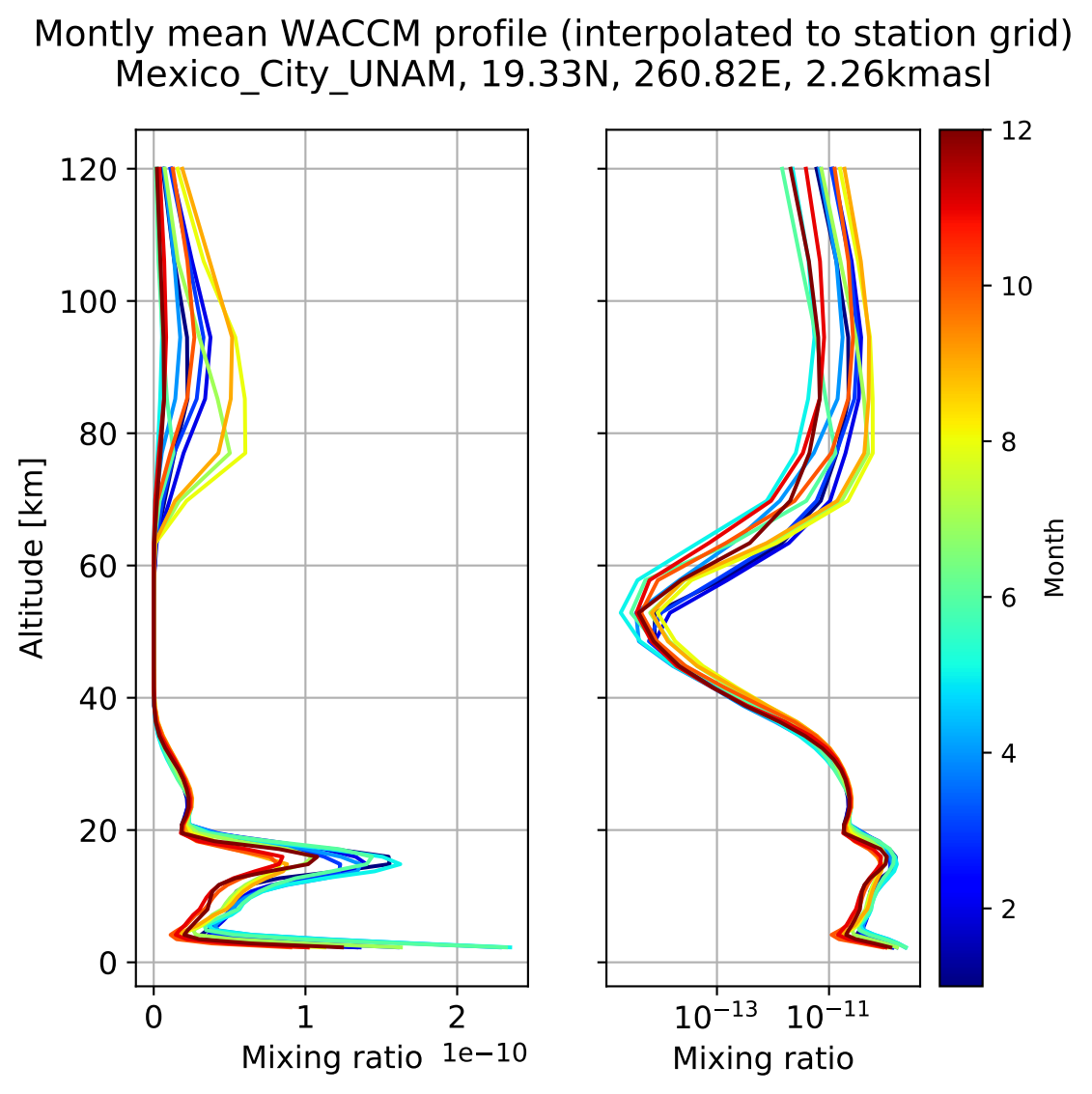
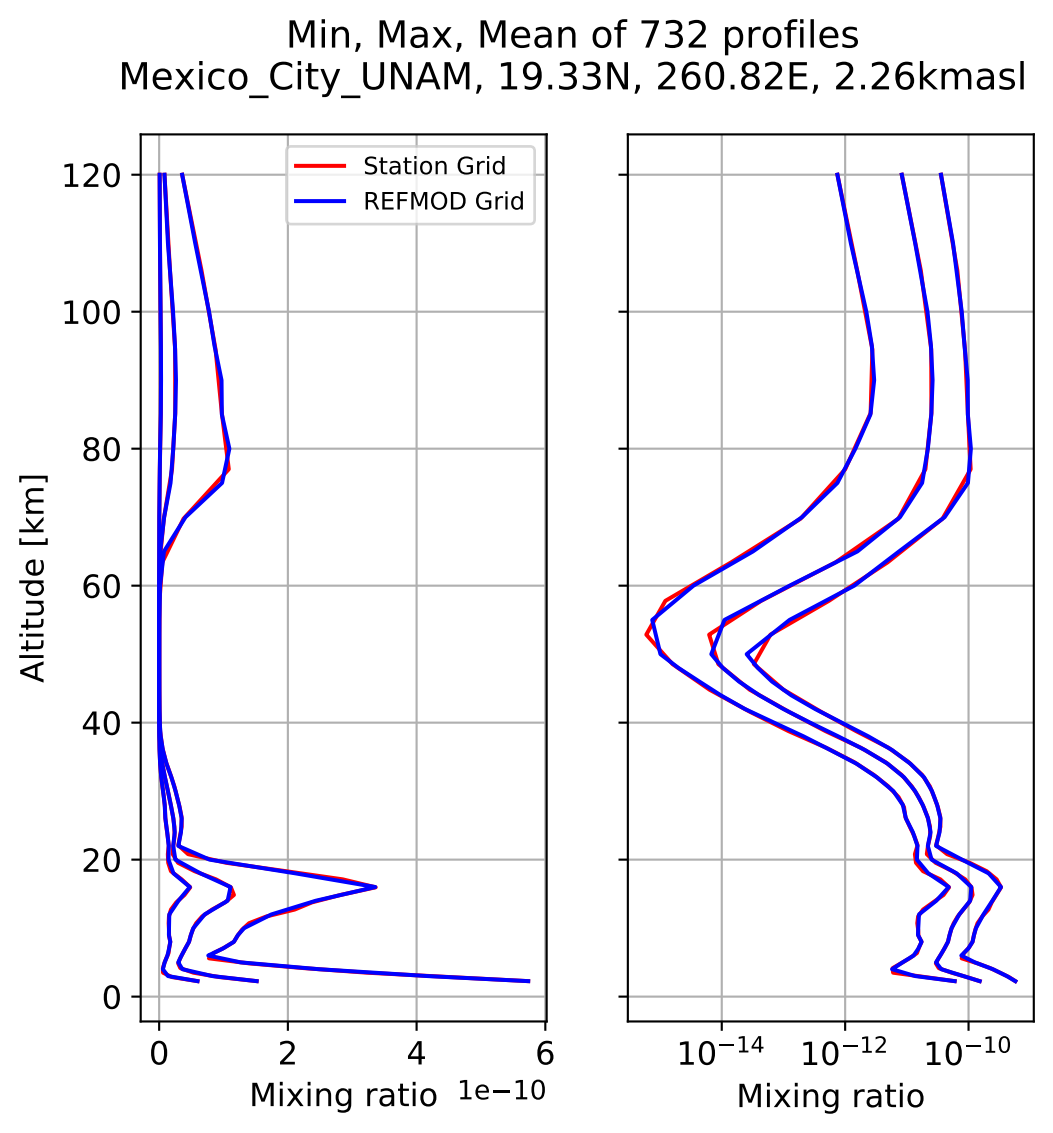
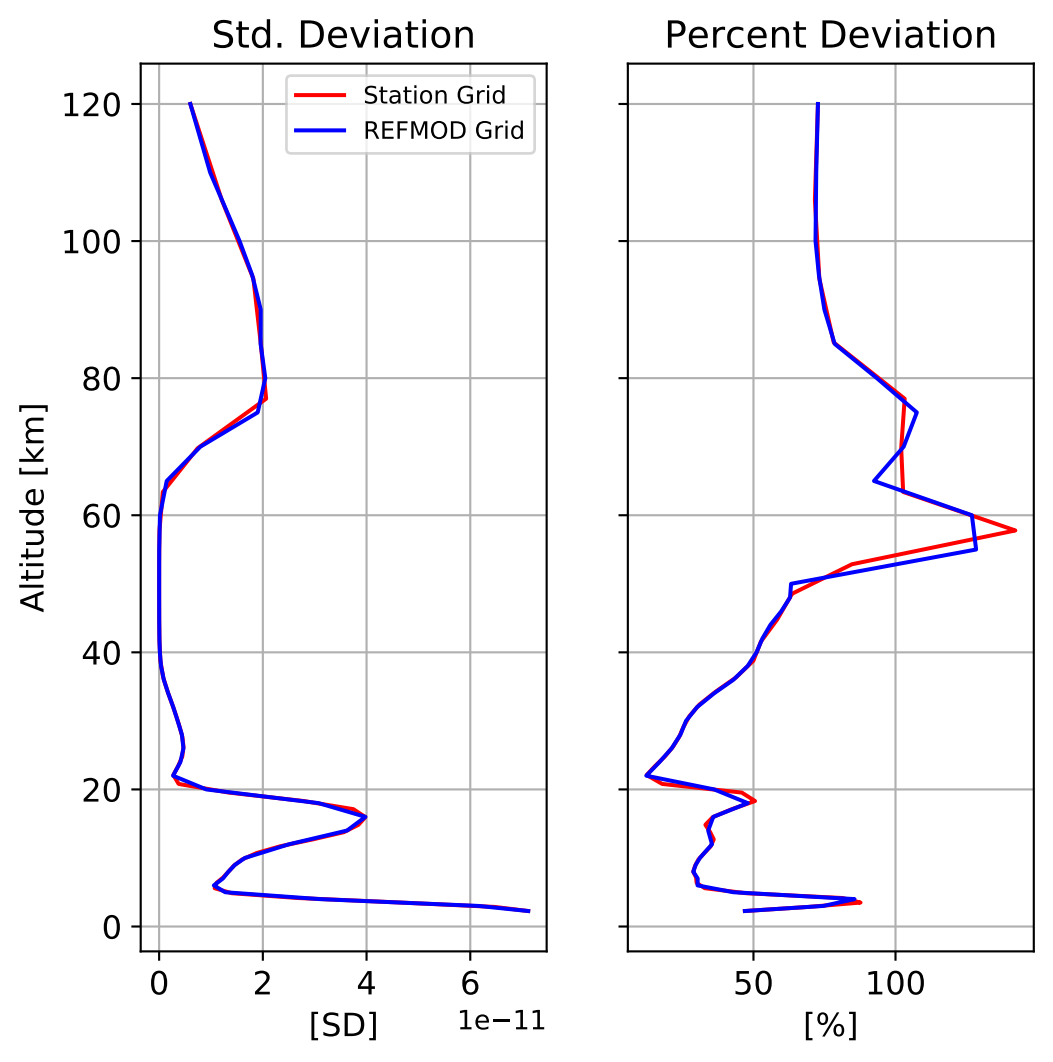
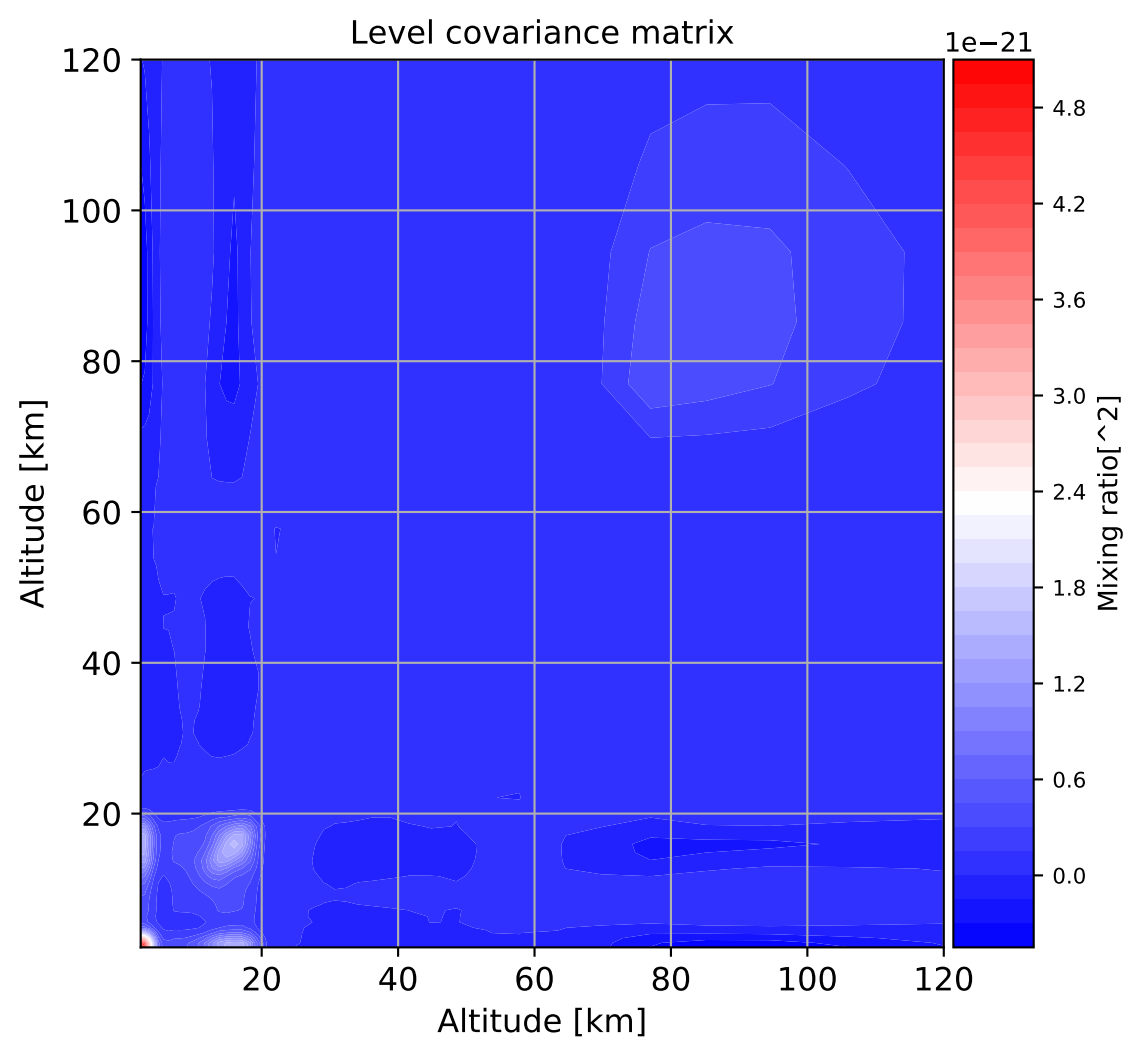

Time Series of vertical profiles (site altitude - 120 km)
Altitude [km]
120
100
80
60
40
20
1980
1990
2000
2010
2020
2030
2040
1e−10
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
Mixing ratio


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
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
Mixing ratio


Montly mean WACCM profile (interpolated to station grid)
Mexico_City_UNAM, 19.33N, 260.82E, 2.26kmasl
Altitude [km]
0
20
40
60
80
100
120
0
1
2
Mixing ratio
1e−10
10^{-13}
10^{-11}
Mixing ratio
Month
2
4
6
8
10
12


Min, Max, Mean of 732 profiles
Mexico_City_UNAM, 19.33N, 260.82E, 2.26kmasl
Station Grid
REFMOD Grid
Altitude [km]
0
20
40
60
80
100
120
0
2
4
6
Mixing ratio 1e−10
10^{-14}
10^{-12}
10^{-10}
Mixing ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0
2
4
6
1e−11
[SD]
50
100
[%]


Level covariance matrix
1e−21
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
Mixing ratio[^2]
120
100
80
60
40
20
Altitude [km]
20
40
60
80
100
120
Altitude [km]