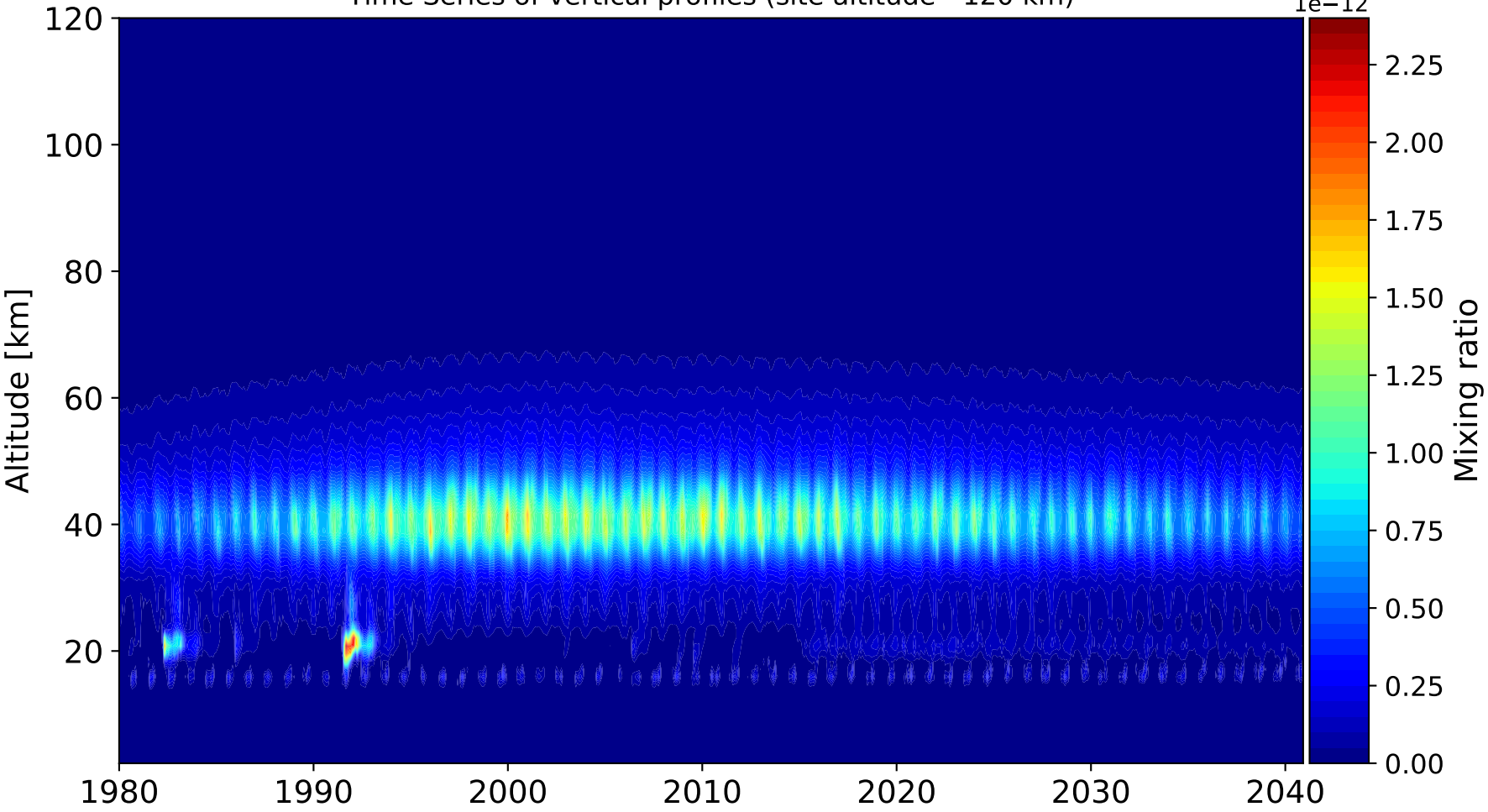
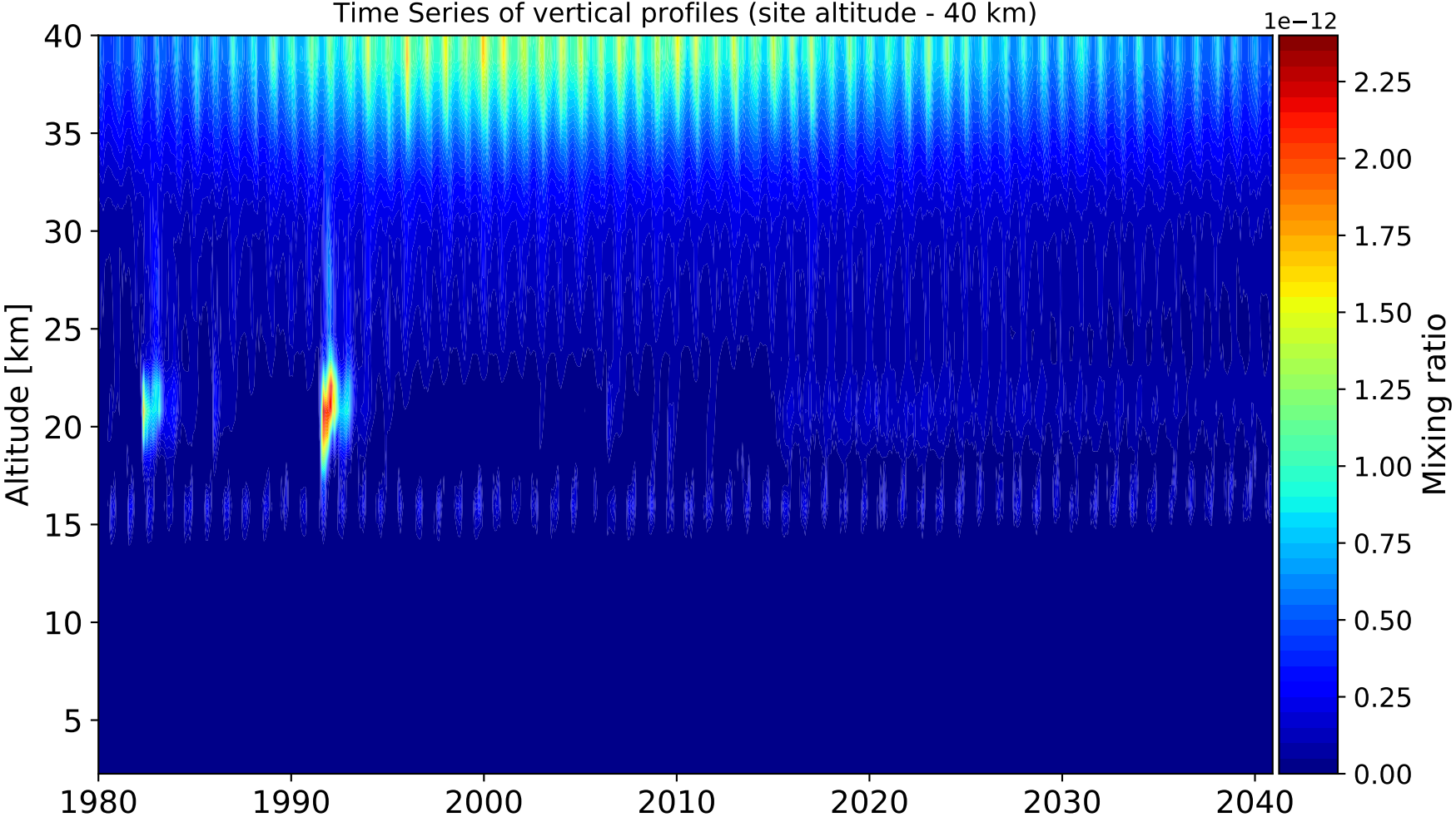
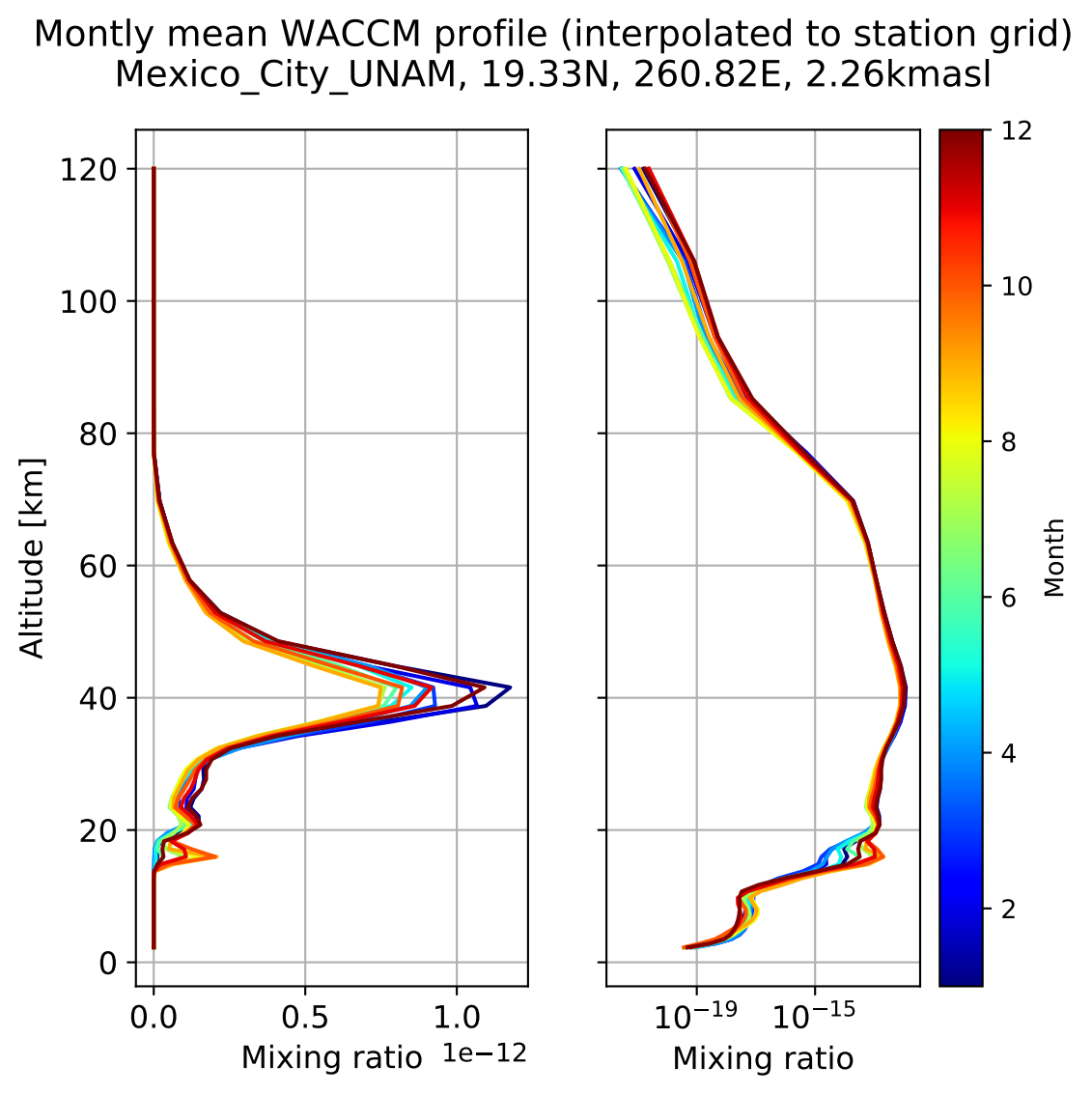
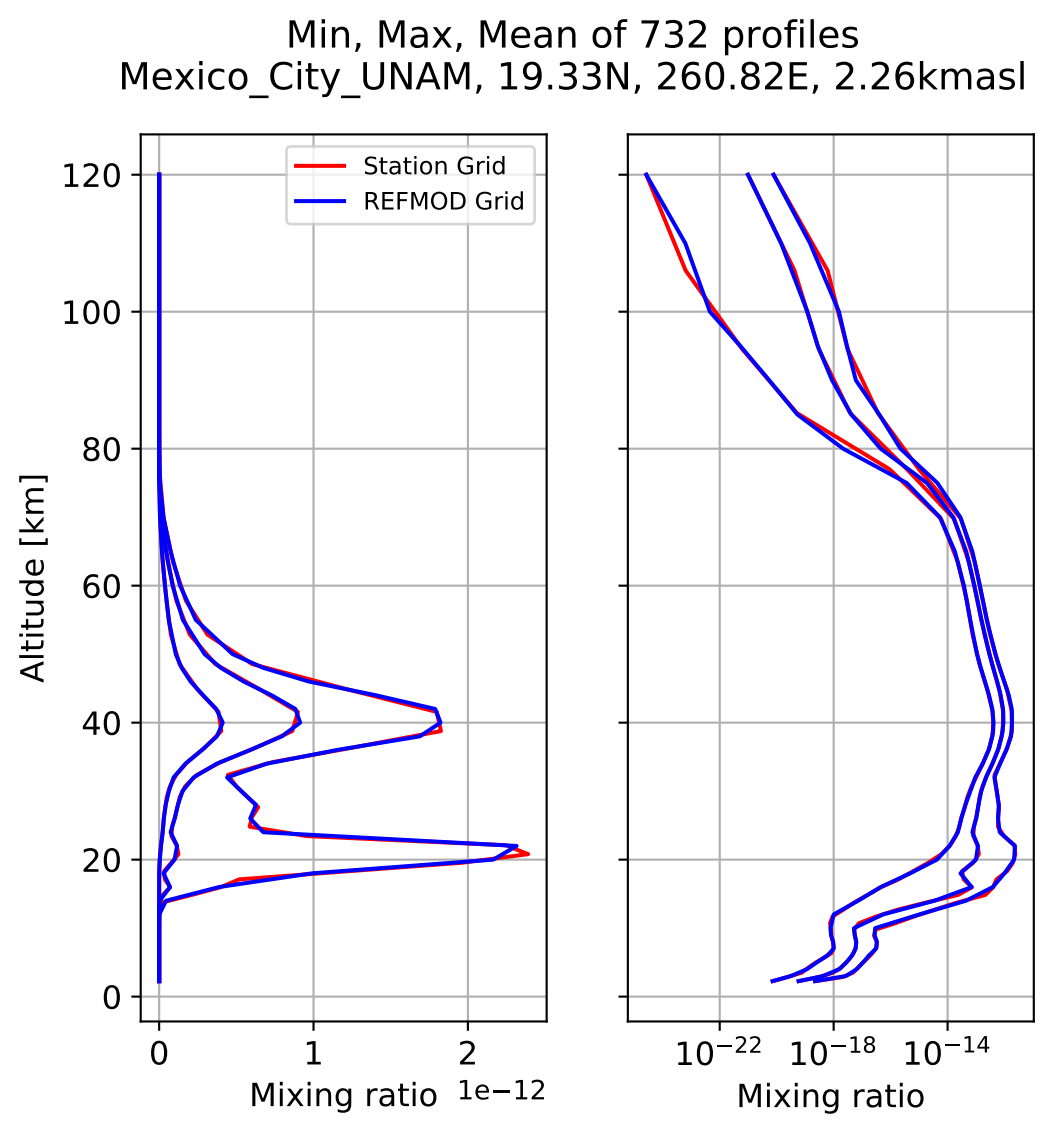
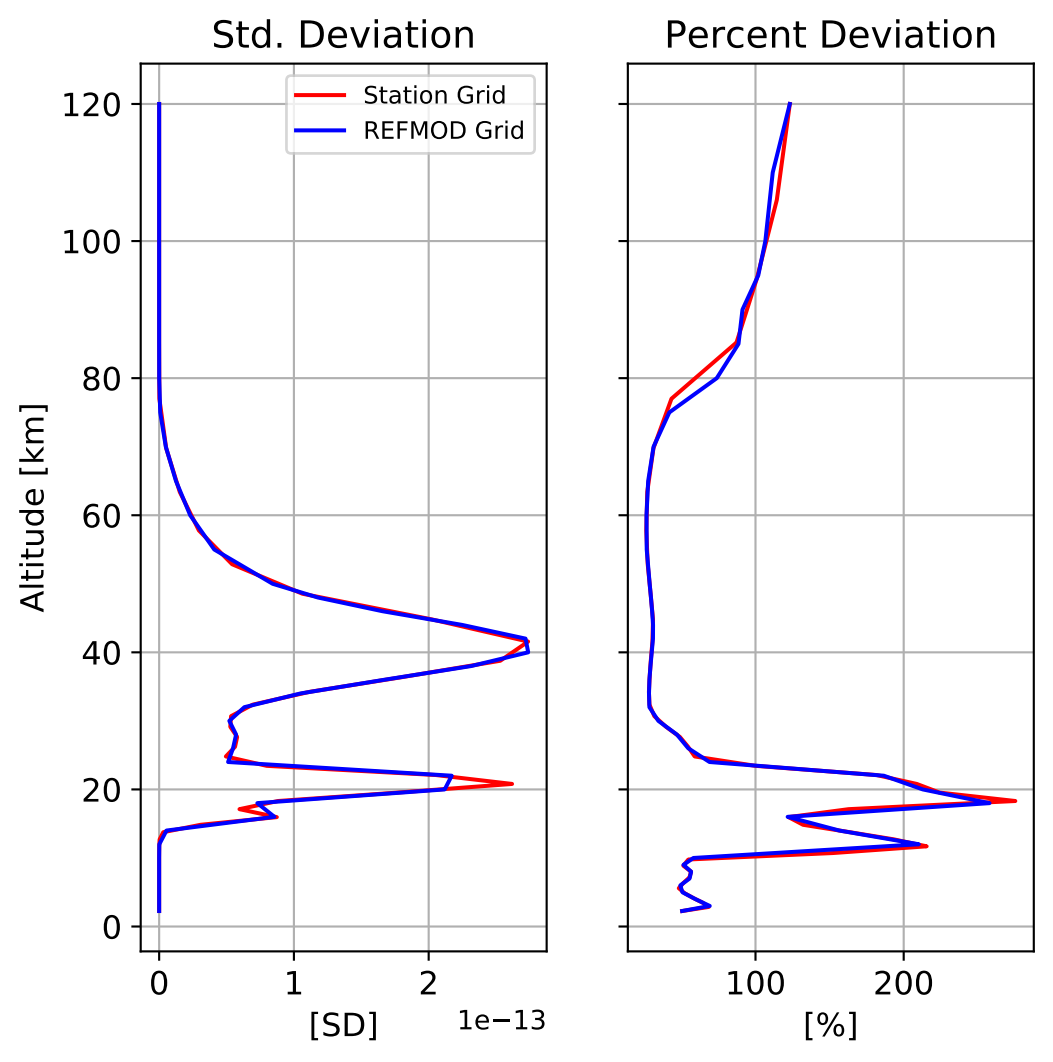
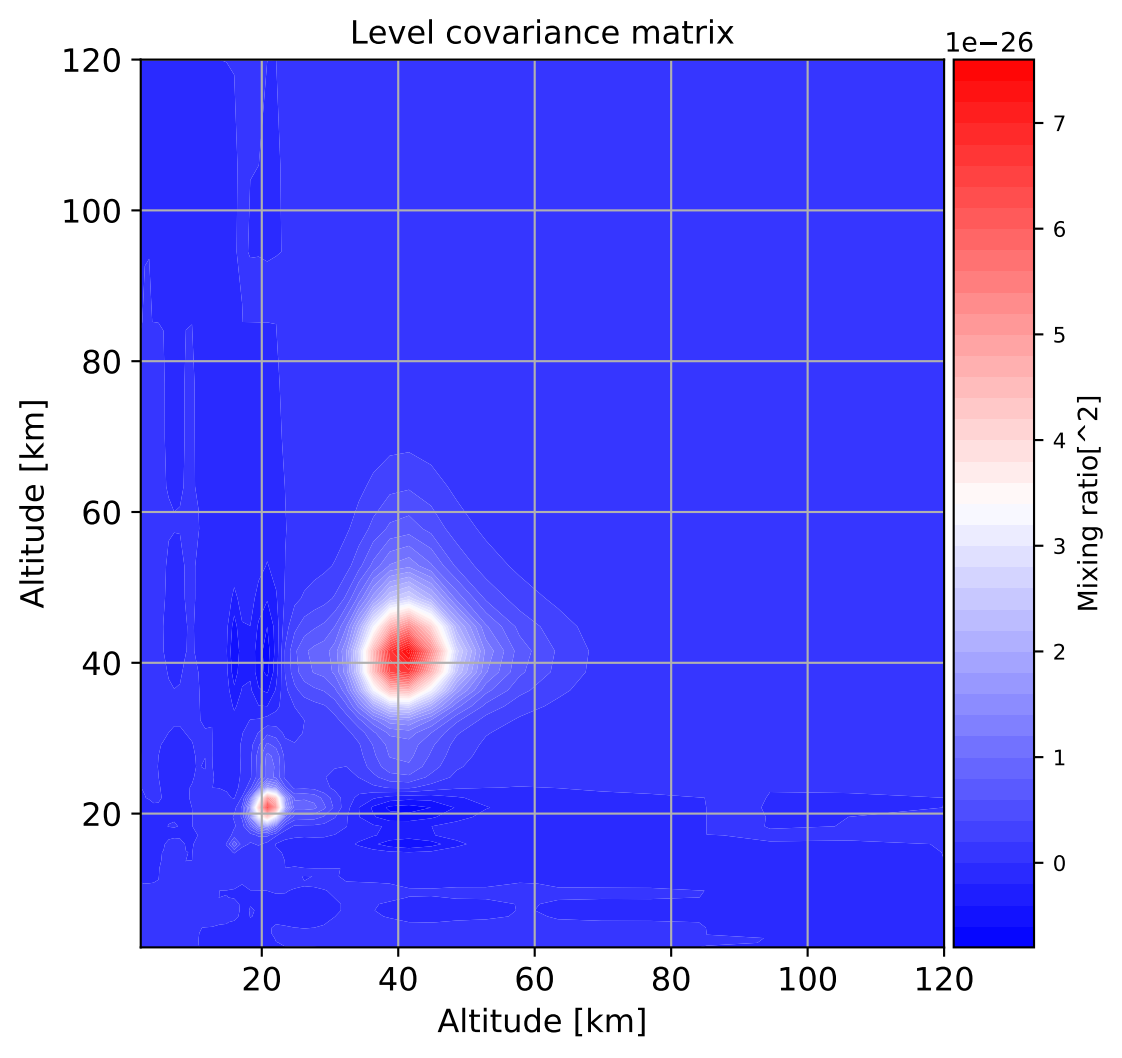

Time Series of vertical profiles (site altitude - 120 km)
Altitude [km]
120
100
80
60
40
20
1980
1990
2000
2010
2020
2030
2040
1e−12
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Mixing ratio


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−12
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
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
0.0
0.5
1.0
1e−12
Mixing ratio
10^{-19}
10^{-15}
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
1
2
1e−12
Mixing ratio
10^{-22}
10^{-18}
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−13
100
200
[%]


Level covariance matrix
1e−26
Altitude [km]
Altitude [km]
Mixing ratio[^2]
120
100
80
60
40
20
20
40
60
80
100
120
7
6
5
4
3
2
1
0