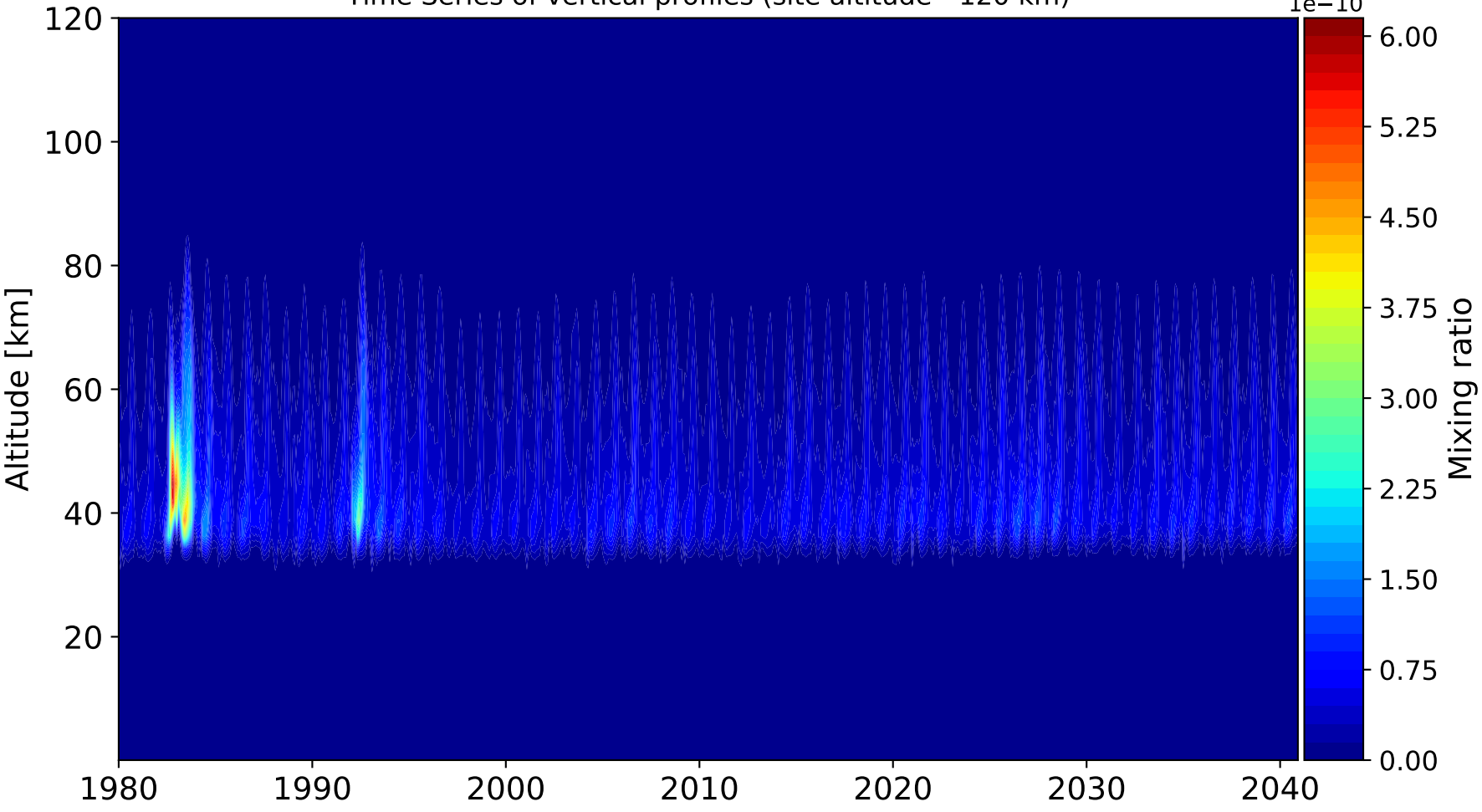
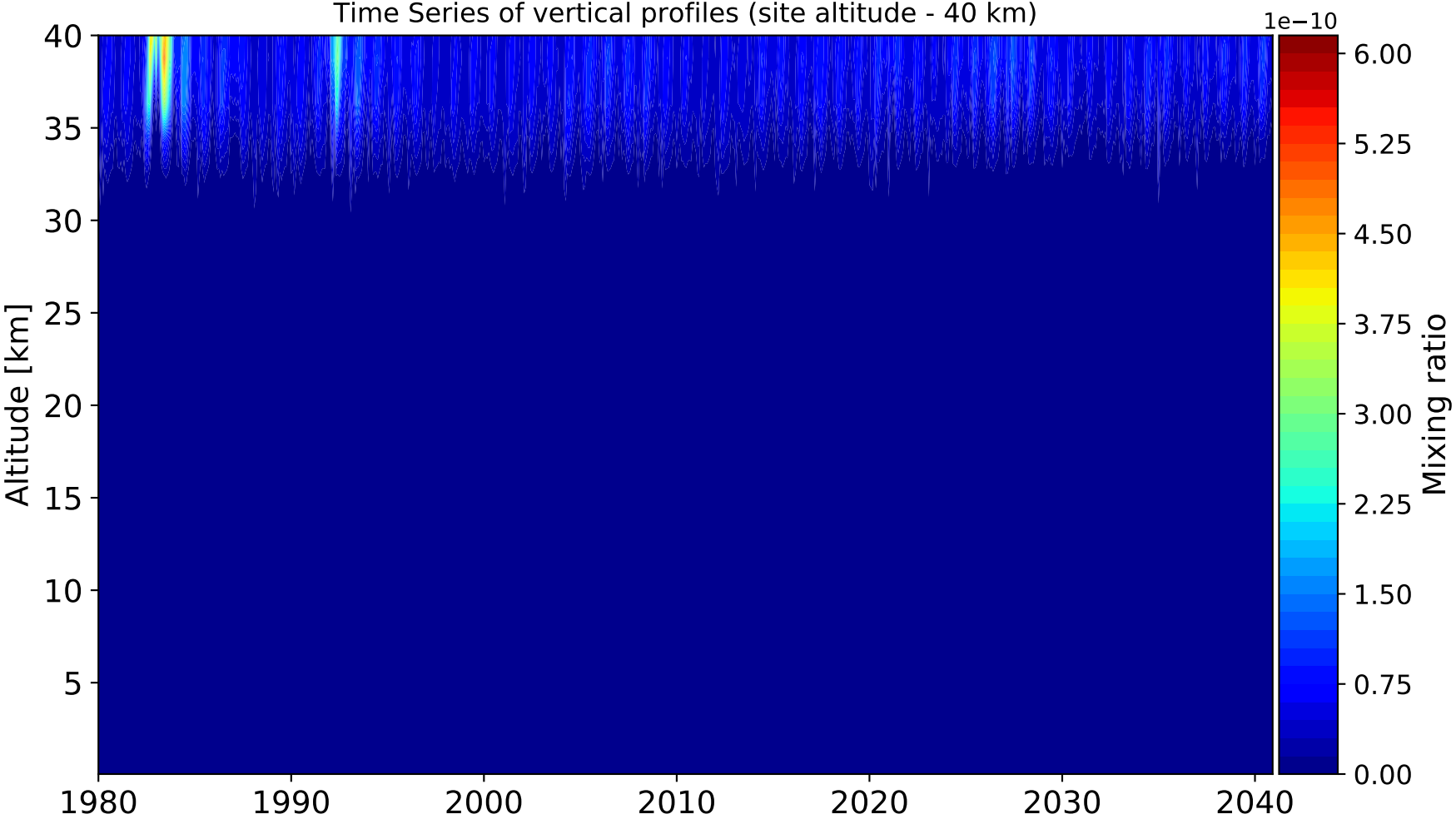
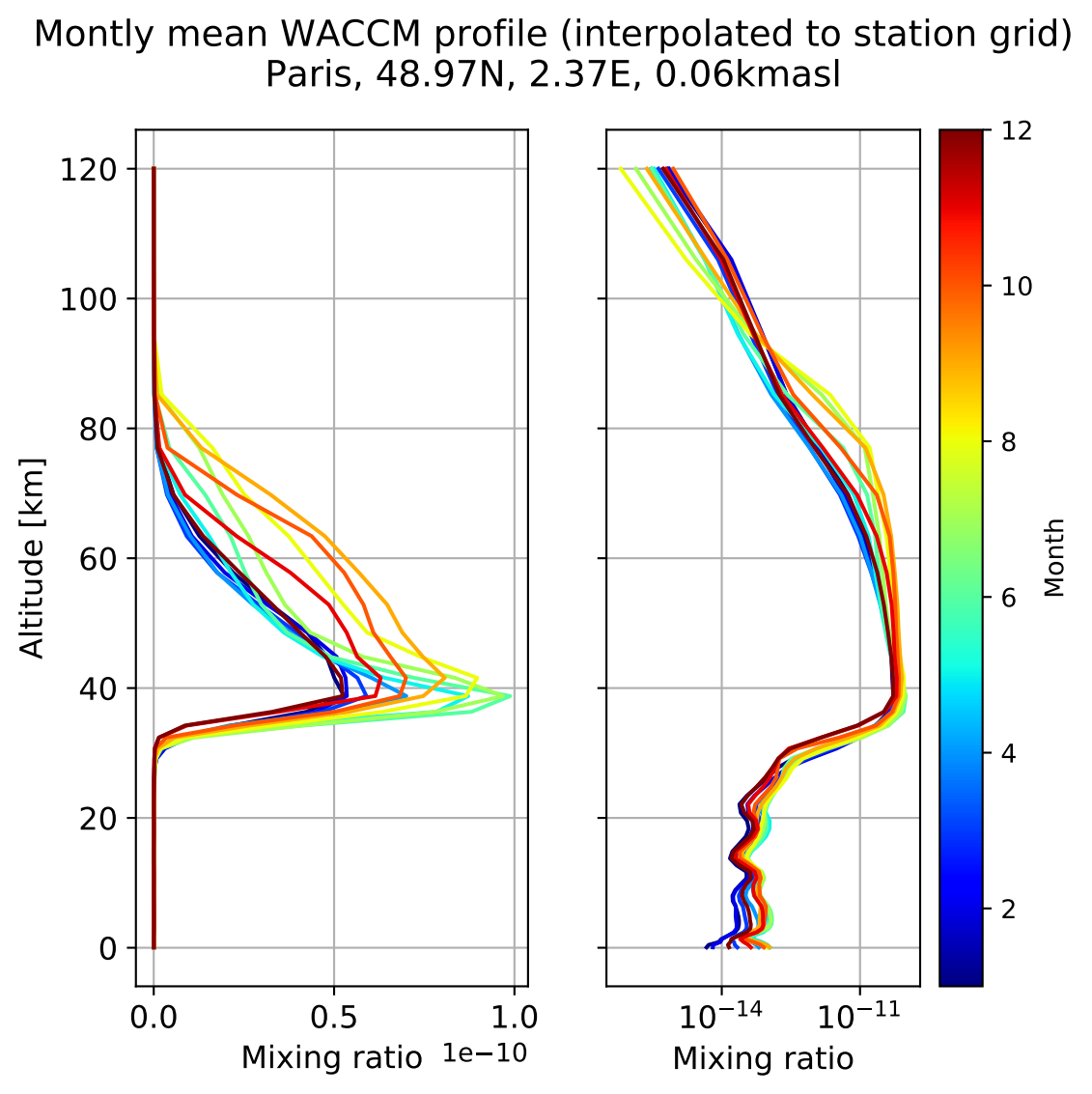
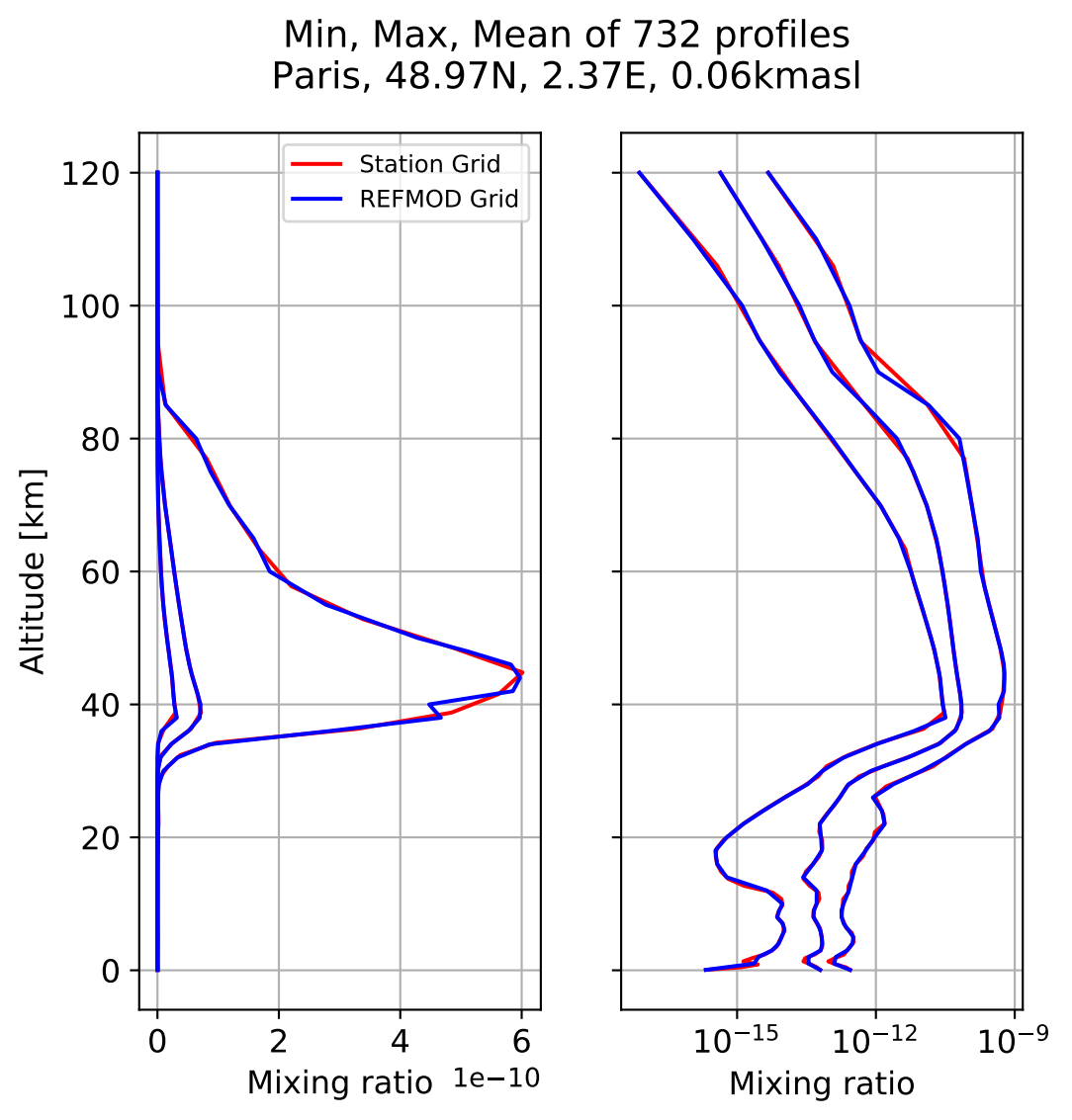
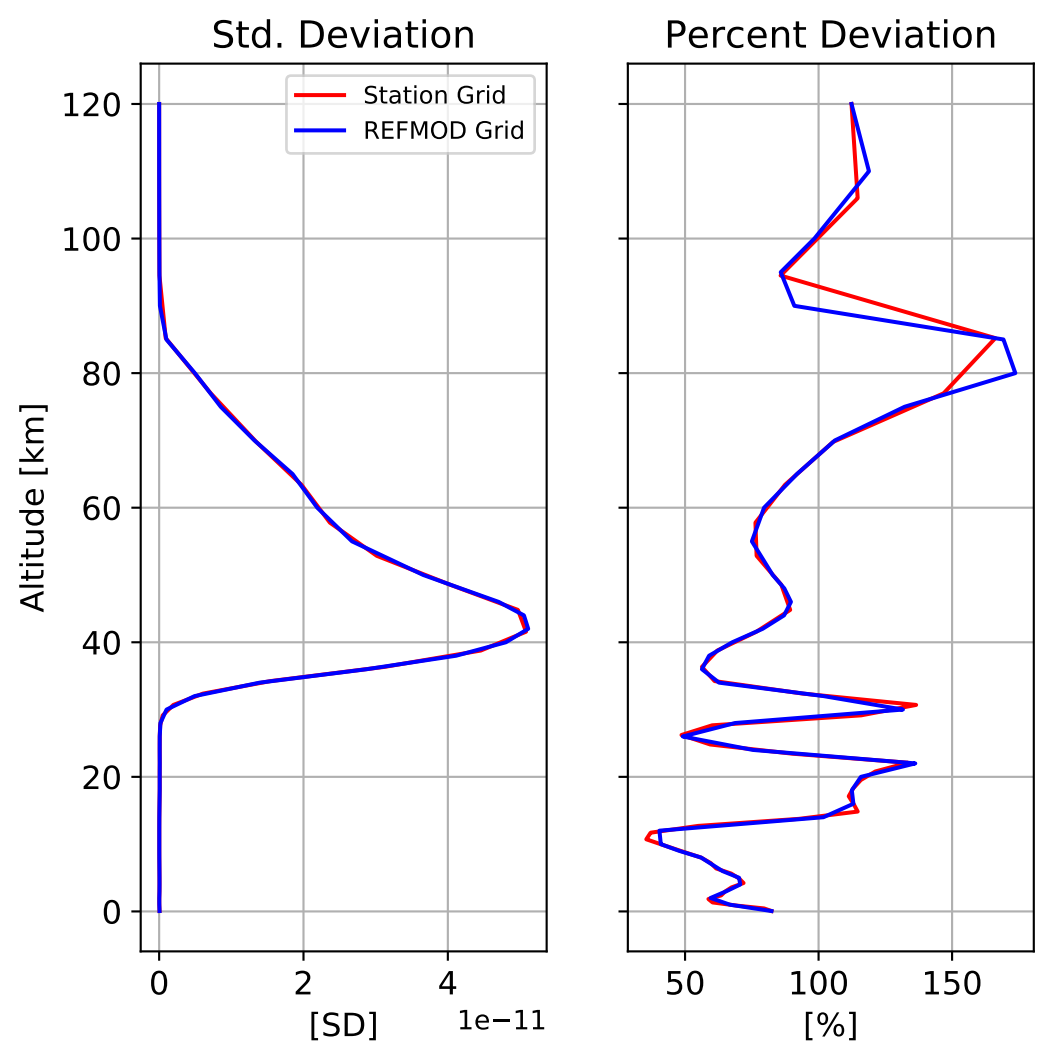
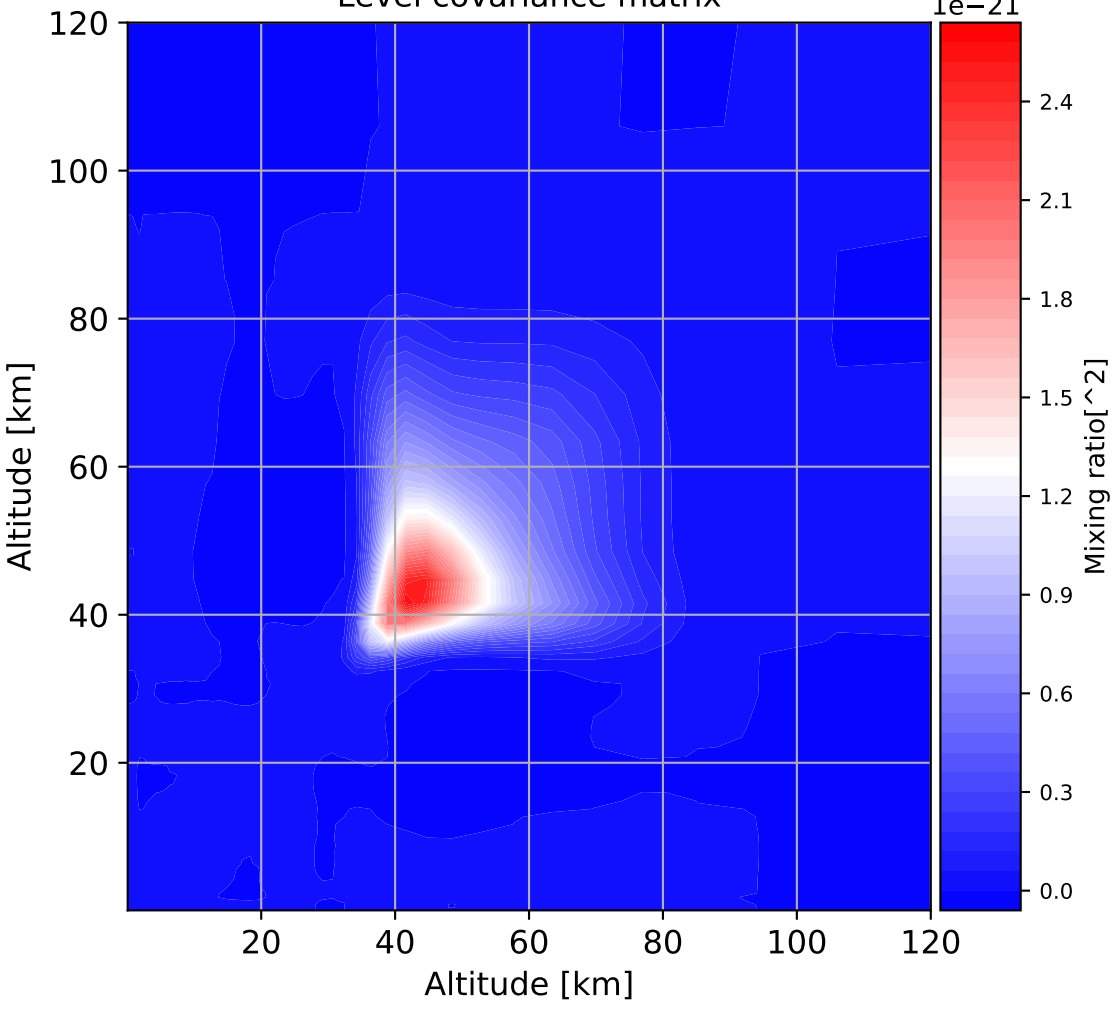

Time Series of vertical profiles (site altitude - 120 km)
1e−10
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00
Mixing ratio
Altitude [km]
120
100
80
60
40
20
1980
1990
2000
2010
2020
2030
2040


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
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00
Mixing ratio


Montly mean WACCM profile (interpolated to station grid)
Paris, 48.97N, 2.37E, 0.06kmasl
Altitude [km]
120
100
80
60
40
20
0
0.0
0.5
1.0
Mixing ratio
1e−10
10^{-14}
10^{-11}
Mixing ratio
Month
12
10
8
6
4
2


Min, Max, Mean of 732 profiles
Paris, 48.97N, 2.37E, 0.06kmasl
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0
2
4
6
1e−10
Mixing ratio
10^{-15}
10^{-12}
10^{-9}
Mixing ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0
2
4
[SD]
1e−11
50
100
150
[%]


Level covariance matrix
1e−21
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
Mixing ratio[^2]
120
100
80
60
40
20
Altitude [km]
20
40
60
80
100
120
Altitude [km]