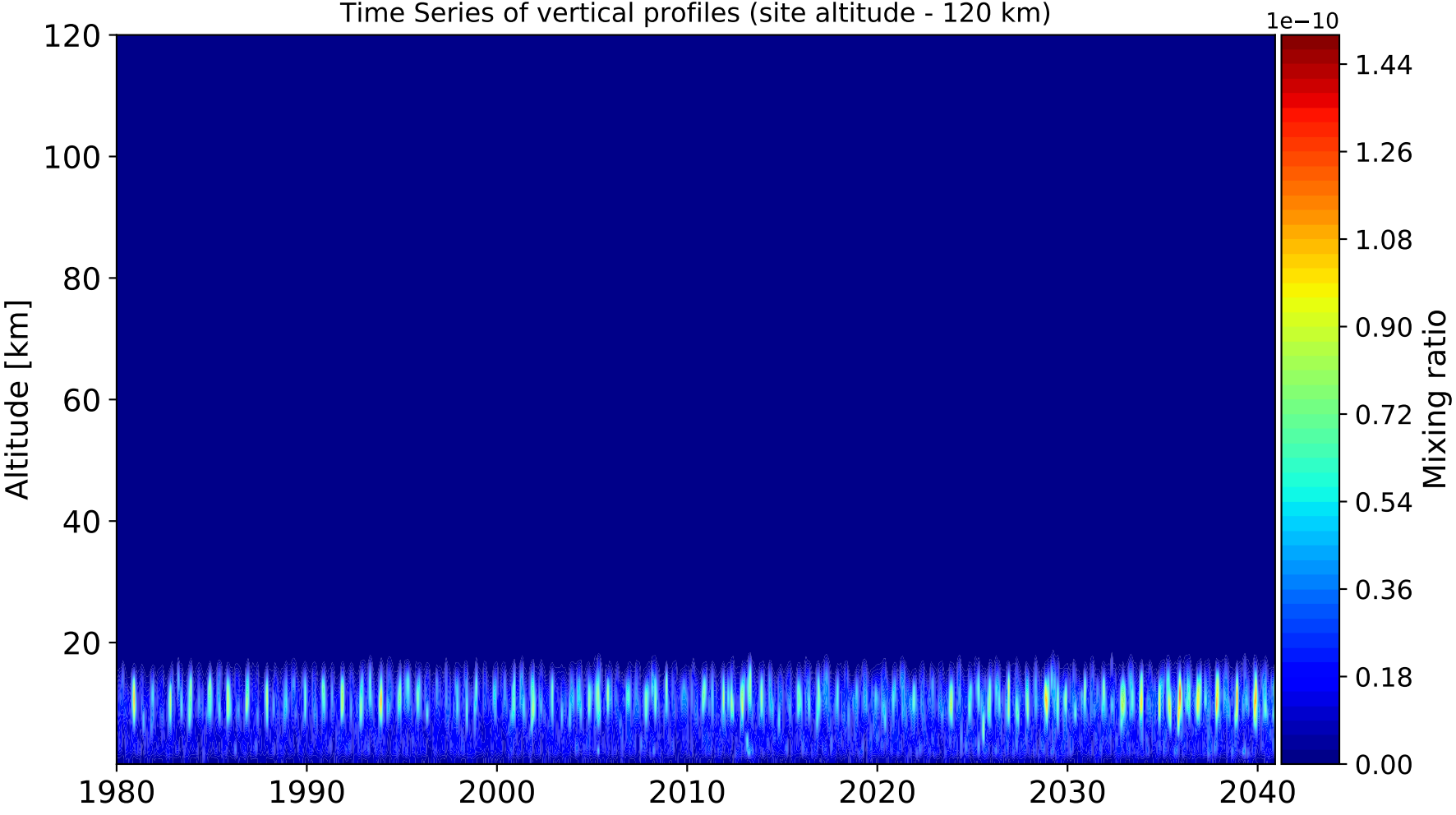
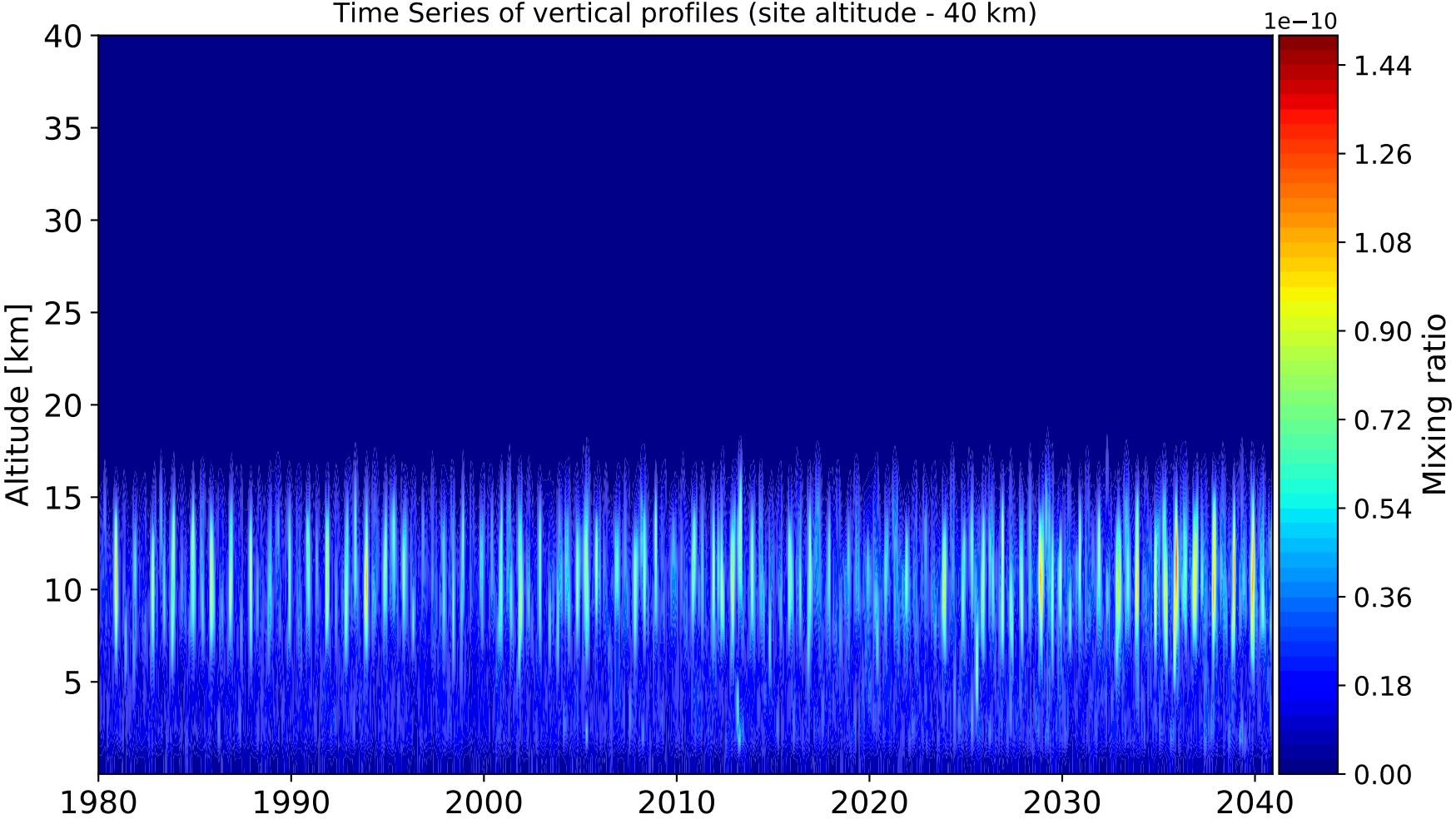
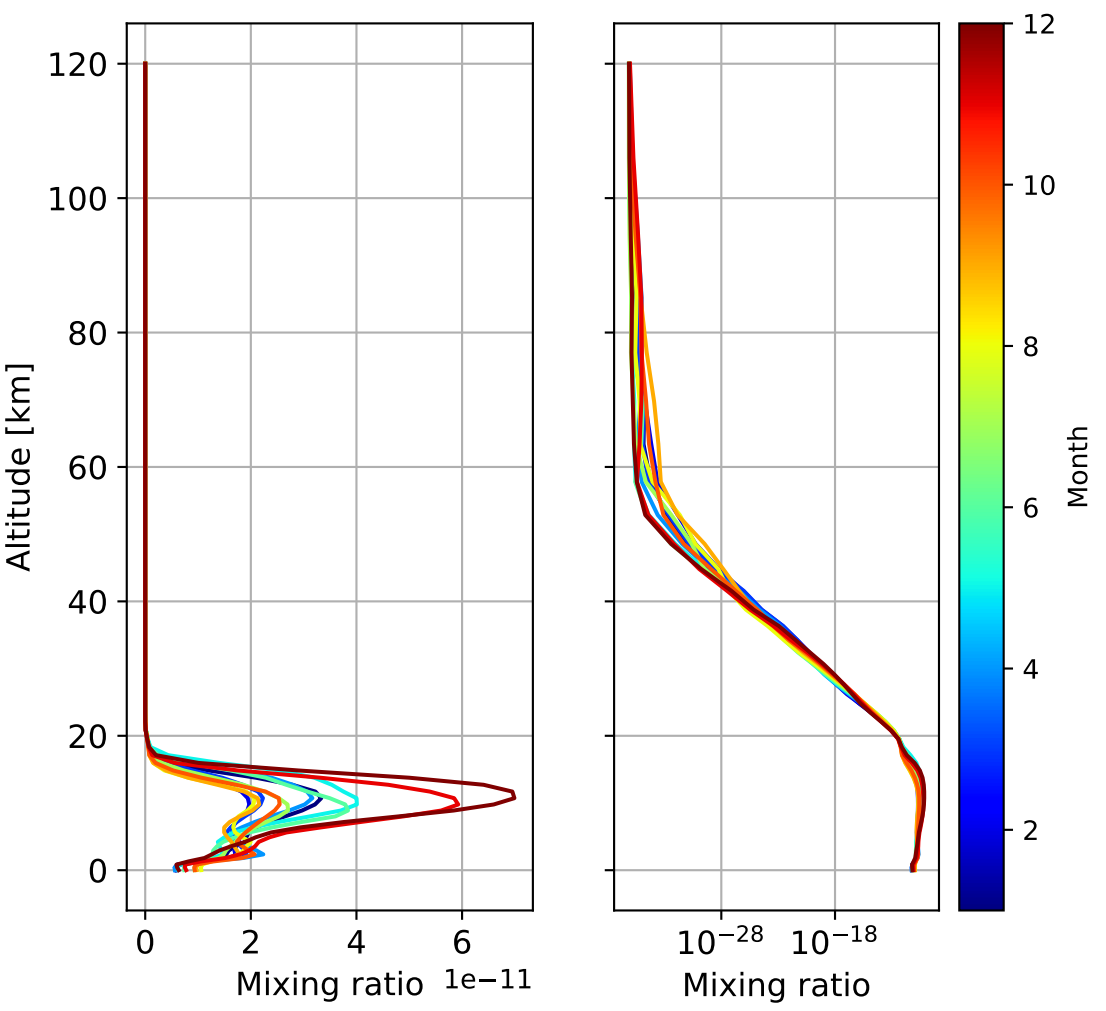
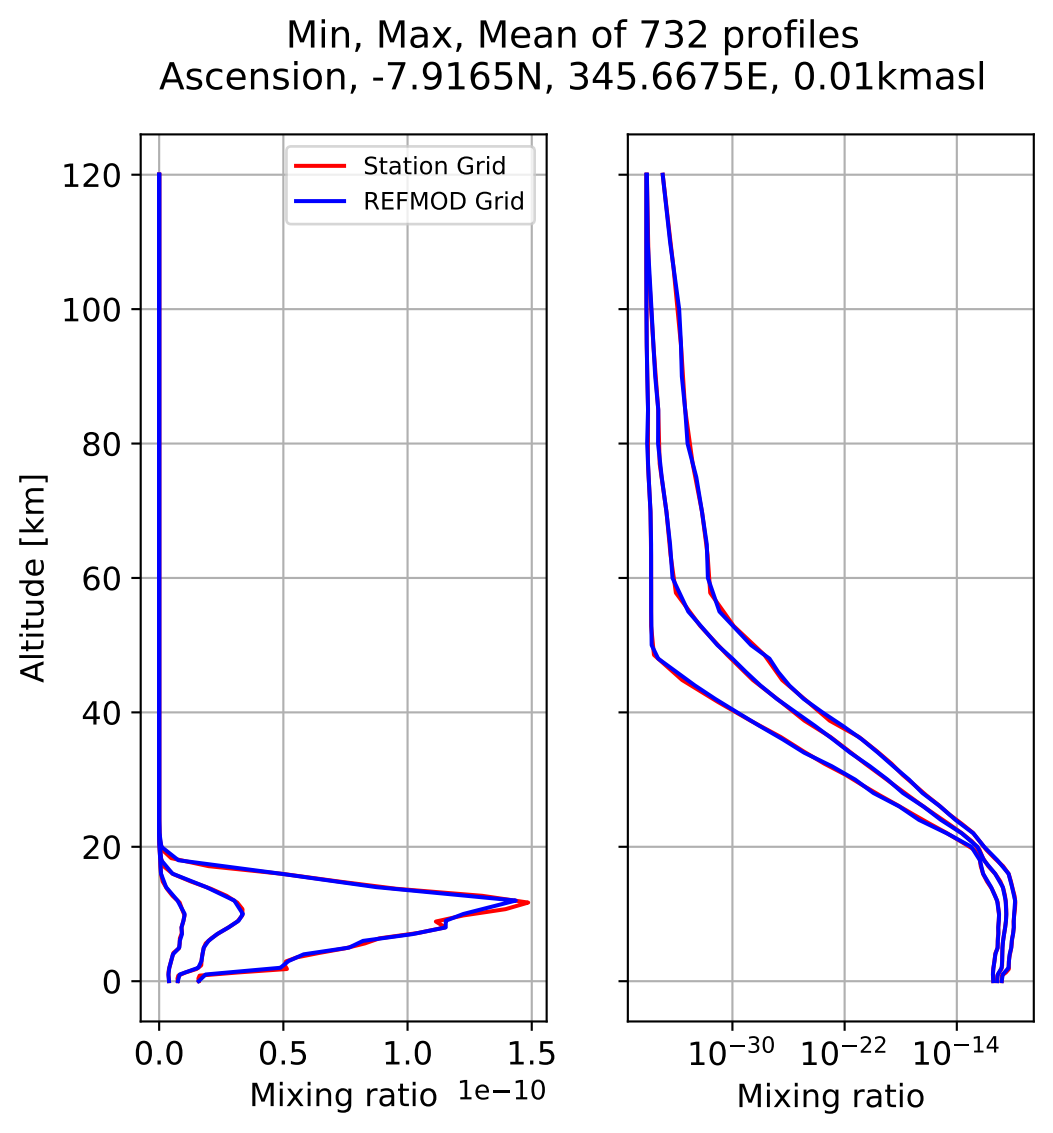
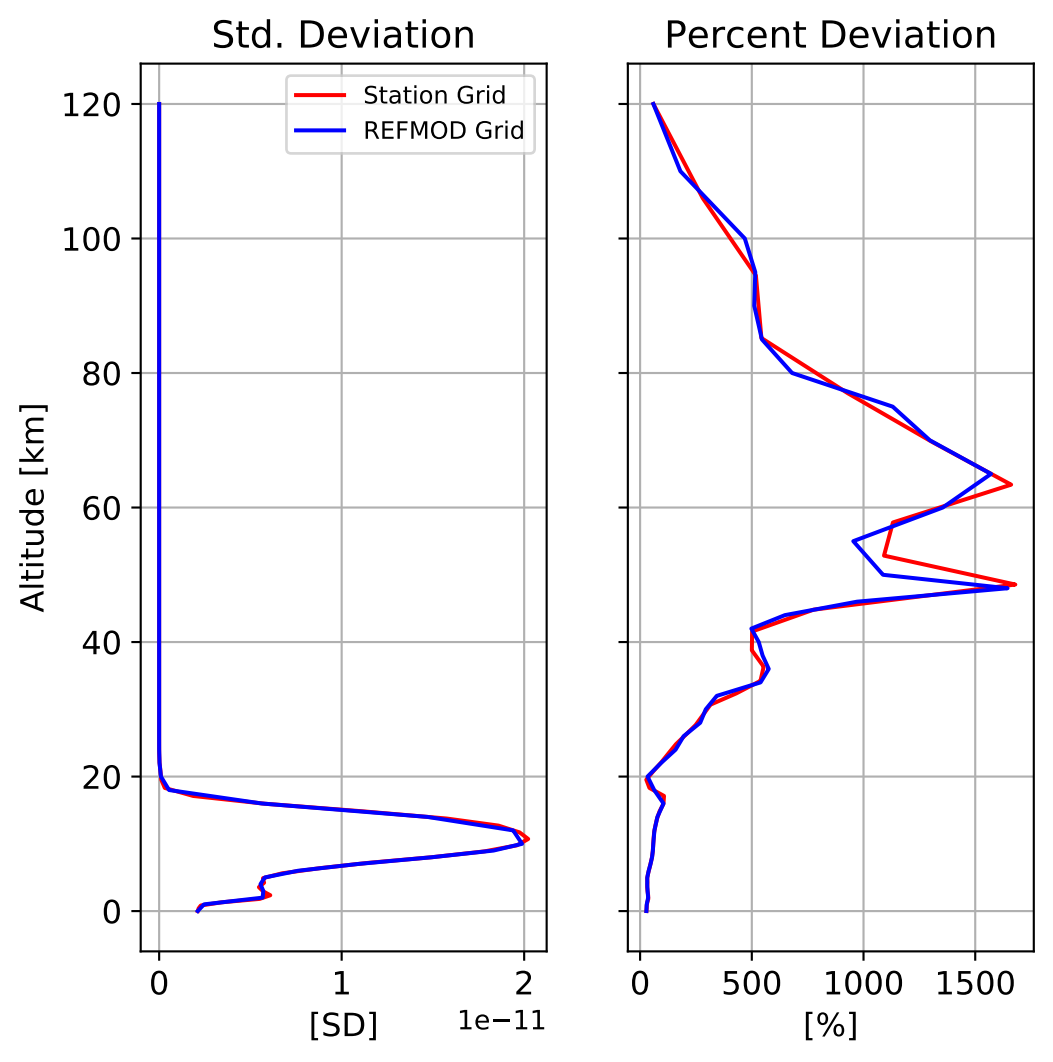
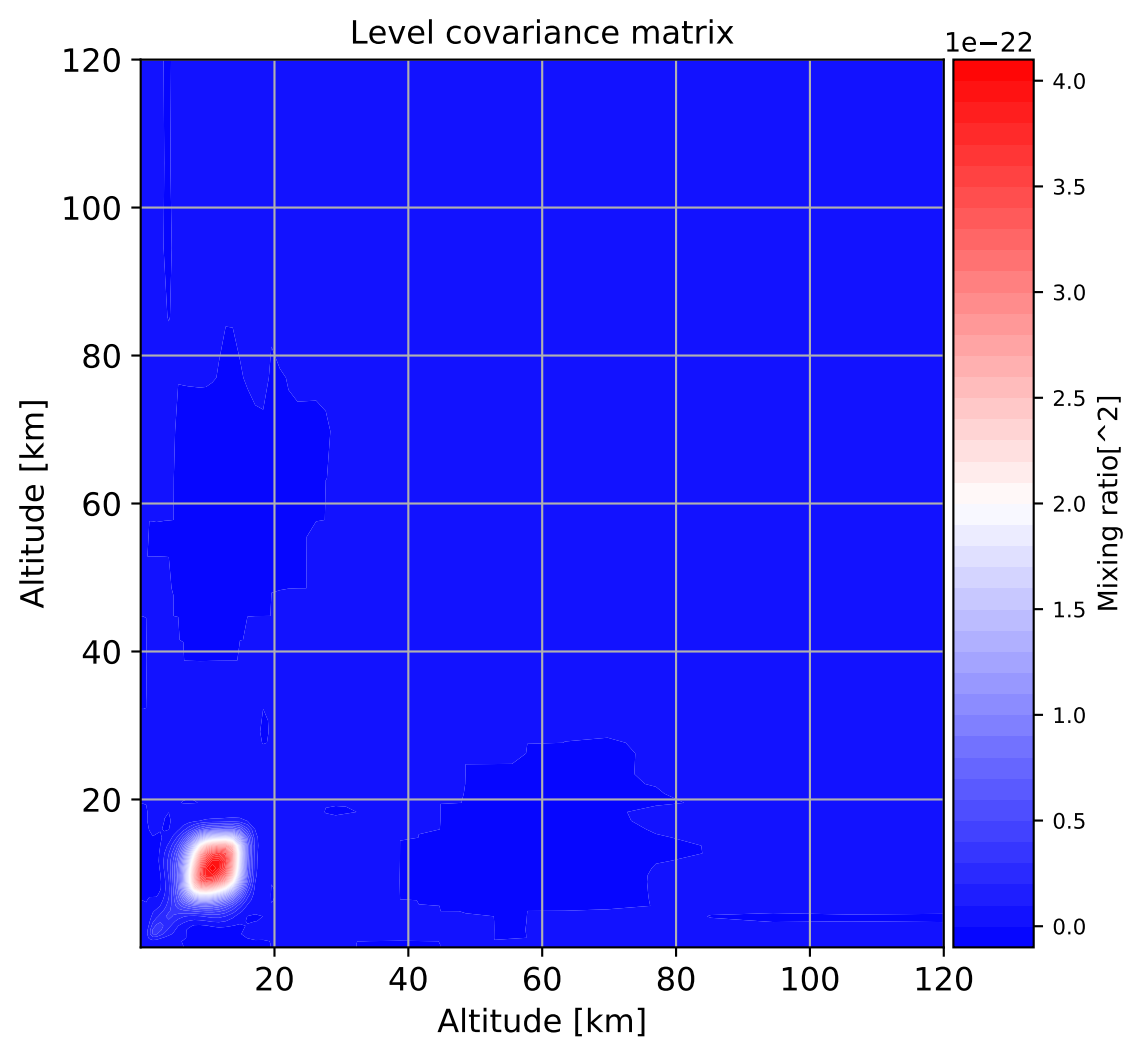

Time Series of vertical profiles (site altitude - 120 km)
Altitude [km]
120
100
80
60
40
20
1980
1990
2000
2010
2020
2030
2040
1e−10
1.44
1.26
1.08
0.90
0.72
0.54
0.36
0.18
0.00
Mixing ratio


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
1.44
1.26
1.08
0.90
0.72
0.54
0.36
0.18
0.00
Mixing ratio


Montly mean WACCM profile (interpolated to station grid)
Ascension, -7.9165N, 345.6675E, 0.01kmasl
Altitude [km]
120
100
80
60
40
20
0
0
2
4
6
Mixing ratio
1e−11
10^{-28}
10^{-18}
Mixing ratio
Month
12
10
8
6
4
2


Min, Max, Mean of 732 profiles
Ascension, -7.9165N, 345.6675E, 0.01kmasl
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0.0
0.5
1.0
1.5
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
500
1000
1500
[%]


Level covariance matrix
1e−22
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mixing ratio[^2]
120
100
80
60
40
20
Altitude [km]
20
40
60
80
100
120
Altitude [km]