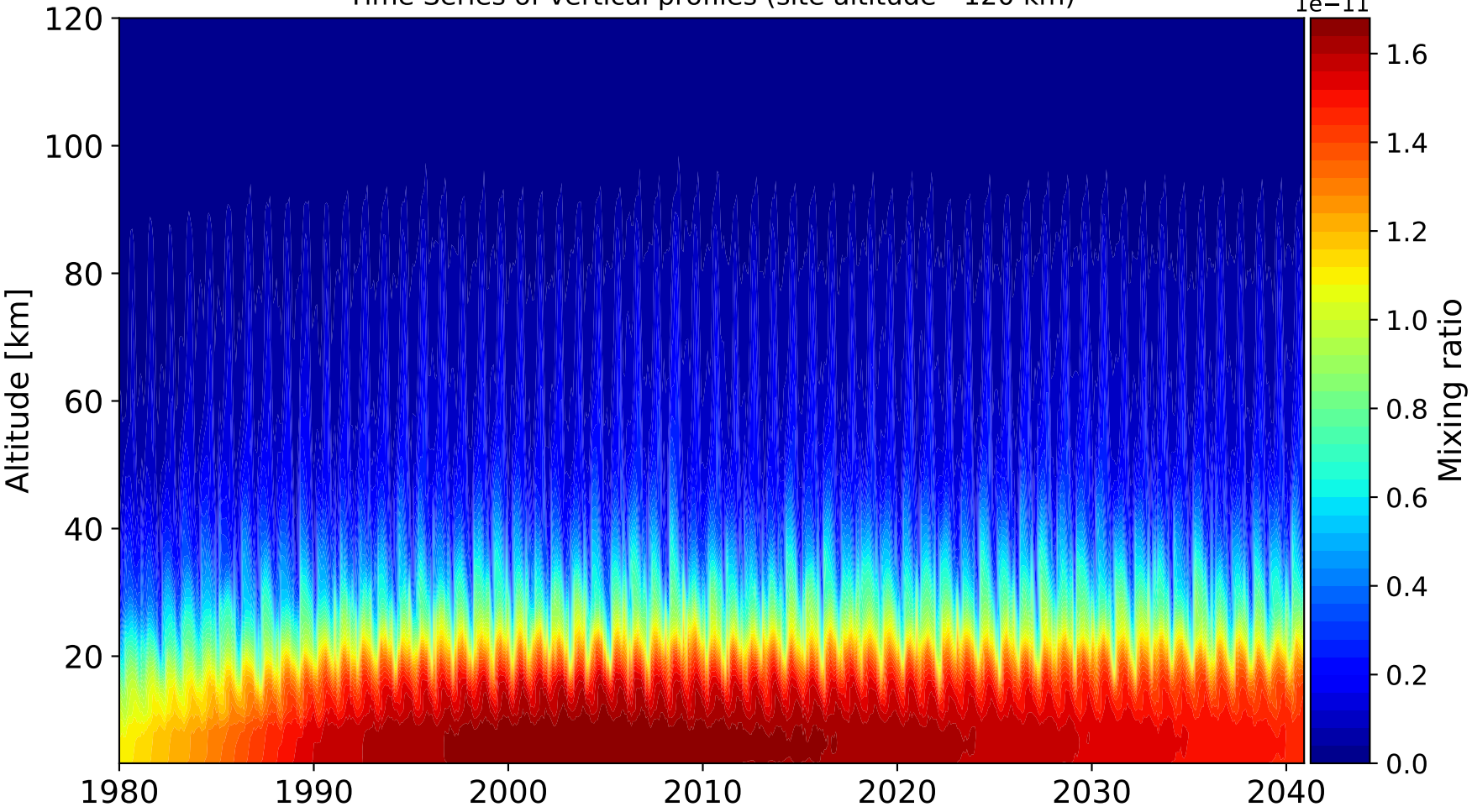
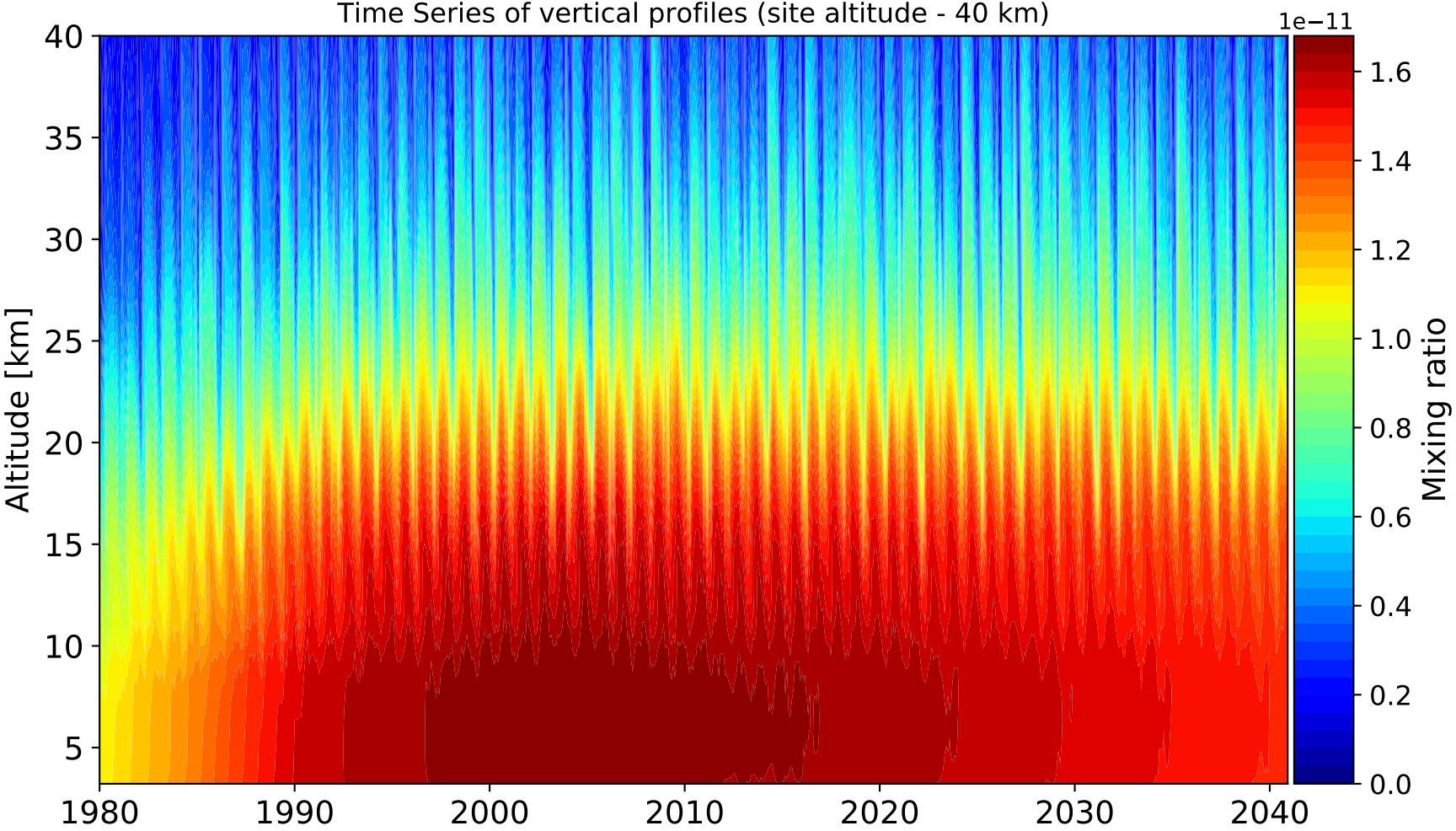
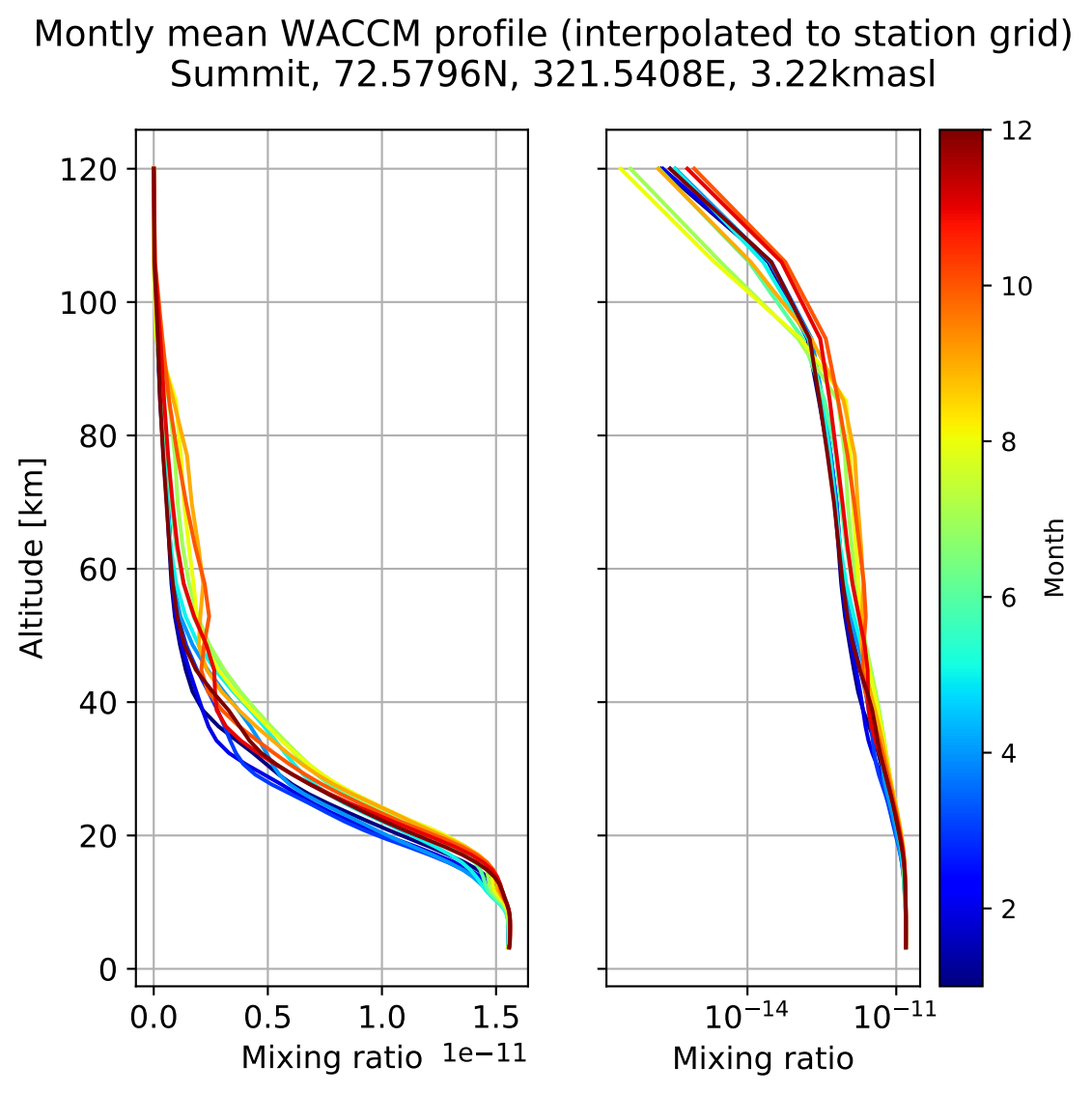
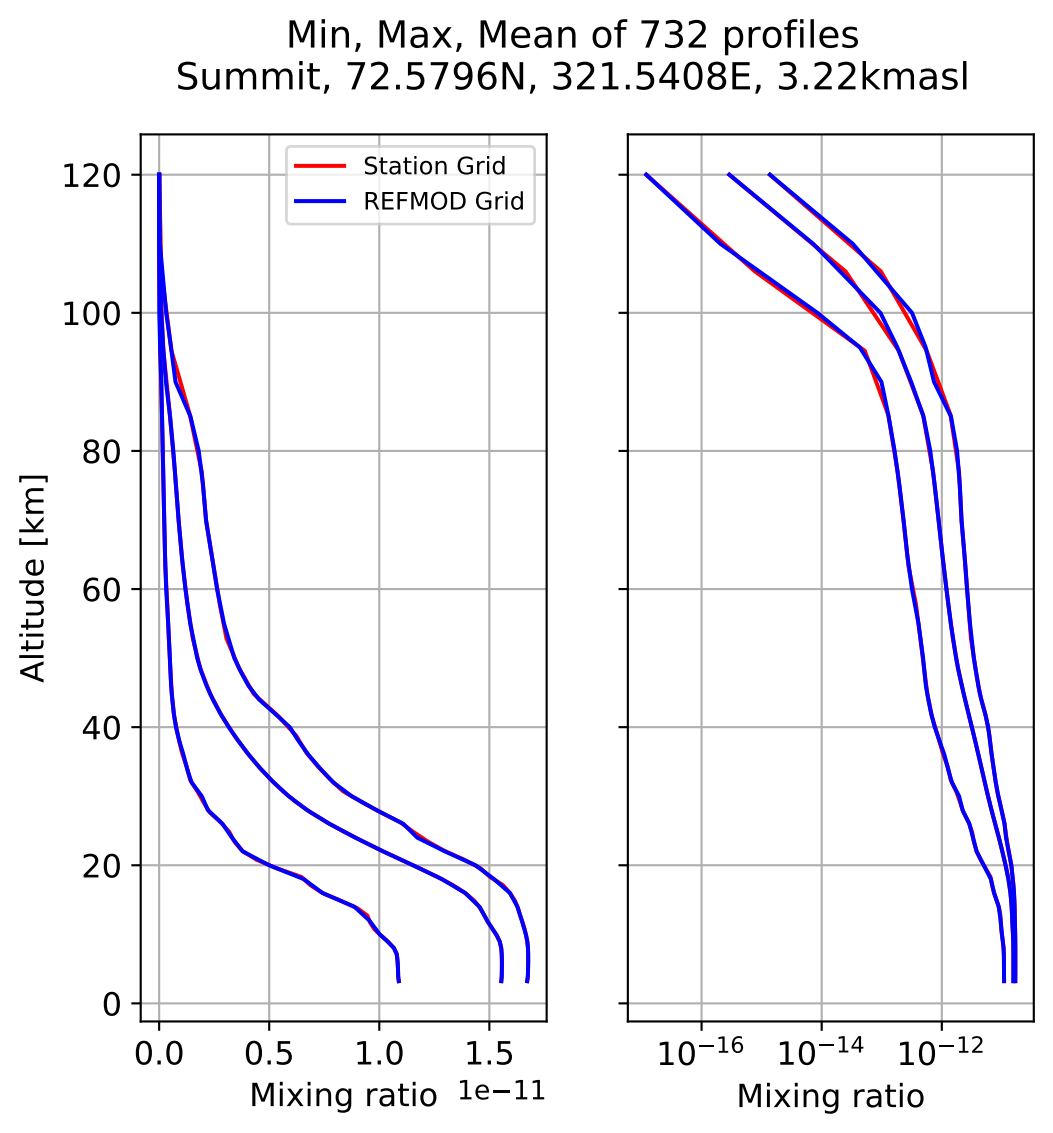
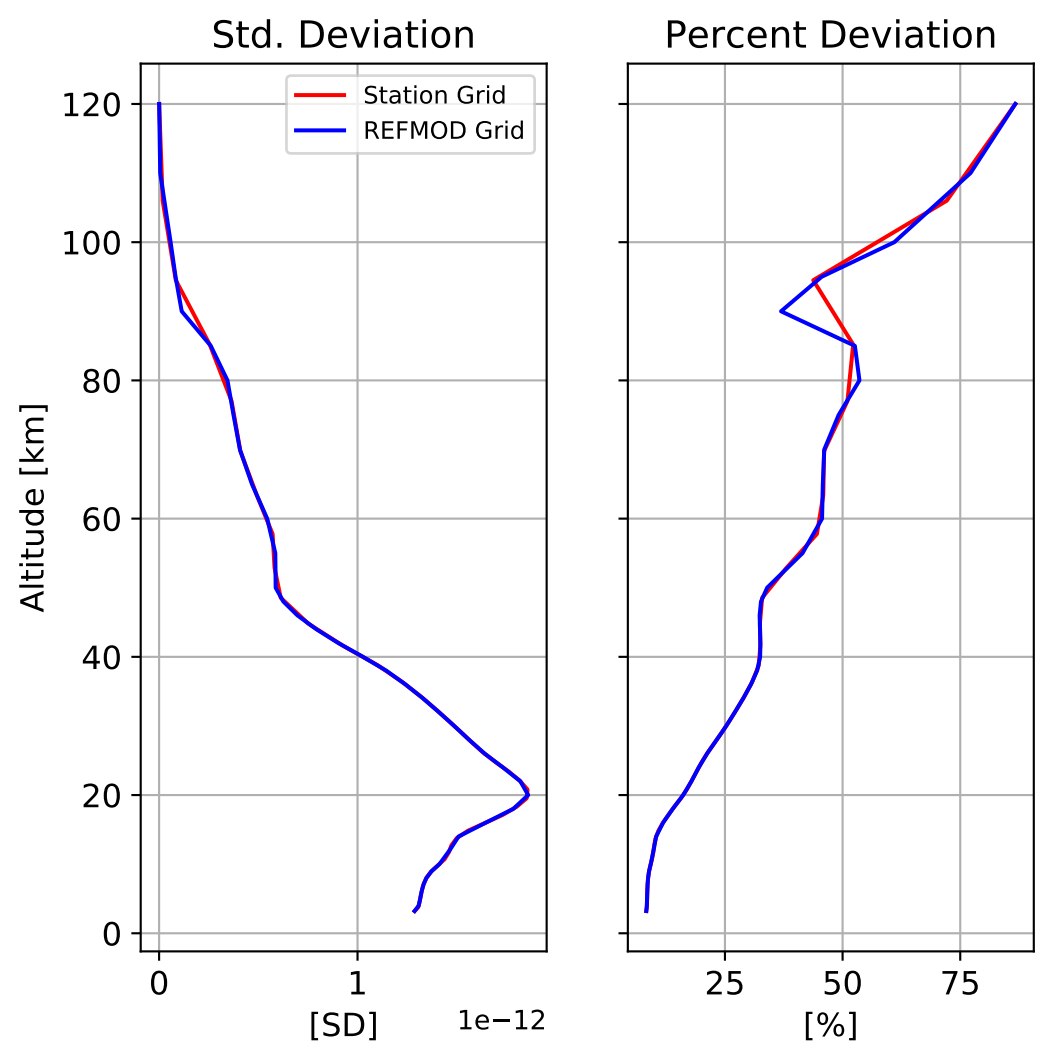
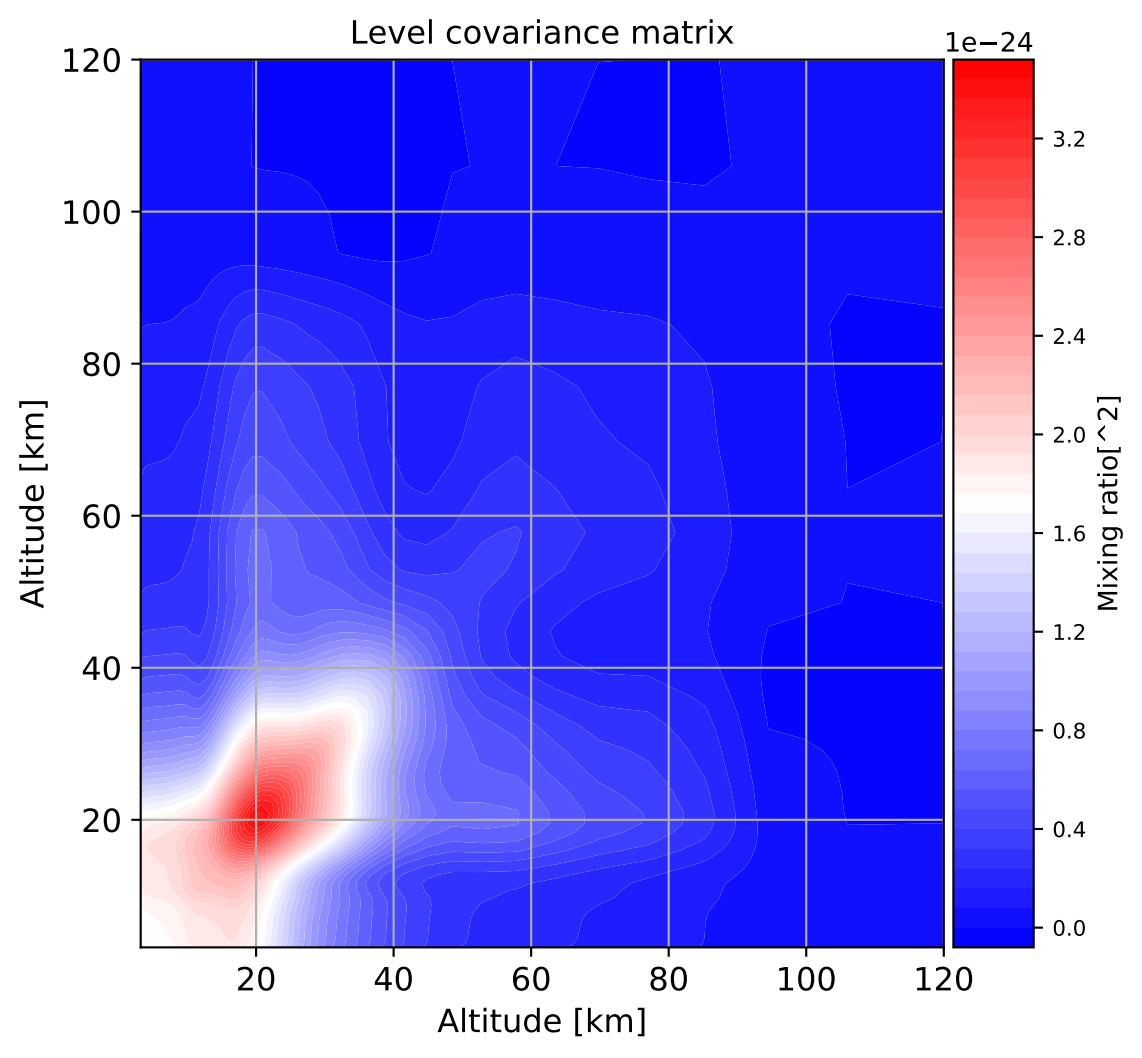

Time Series of vertical profiles (site altitude - 120 km)
Altitude [km]
120
100
80
60
40
20
1980
1990
2000
2010
2020
2030
2040
1e−11
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Mixing ratio


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−11
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Mixing ratio


Montly mean WACCM profile (interpolated to station grid)
Summit, 72.5796N, 321.5408E, 3.22kmasl
Altitude [km]
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
Mixing ratio
1e−11
10^{-14}
10^{-11}
Mixing ratio
Month
2
4
6
8
10
12


Min, Max, Mean of 732 profiles
Summit, 72.5796N, 321.5408E, 3.22kmasl
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0.0
0.5
1.0
1.5
Mixing ratio
1e−11
10^{-16}
10^{-14}
10^{-12}
Mixing ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude [km]
120
100
80
60
40
20
0
0
1
[SD]
1e−12
25
50
75
[%]


Level covariance matrix
1e−24
3.2
2.8
2.4
2.0
1.6
1.2
0.8
0.4
0.0
Mixing ratio[^2]
120
100
80
60
40
20
Altitude [km]
20
40
60
80
100
120
Altitude [km]