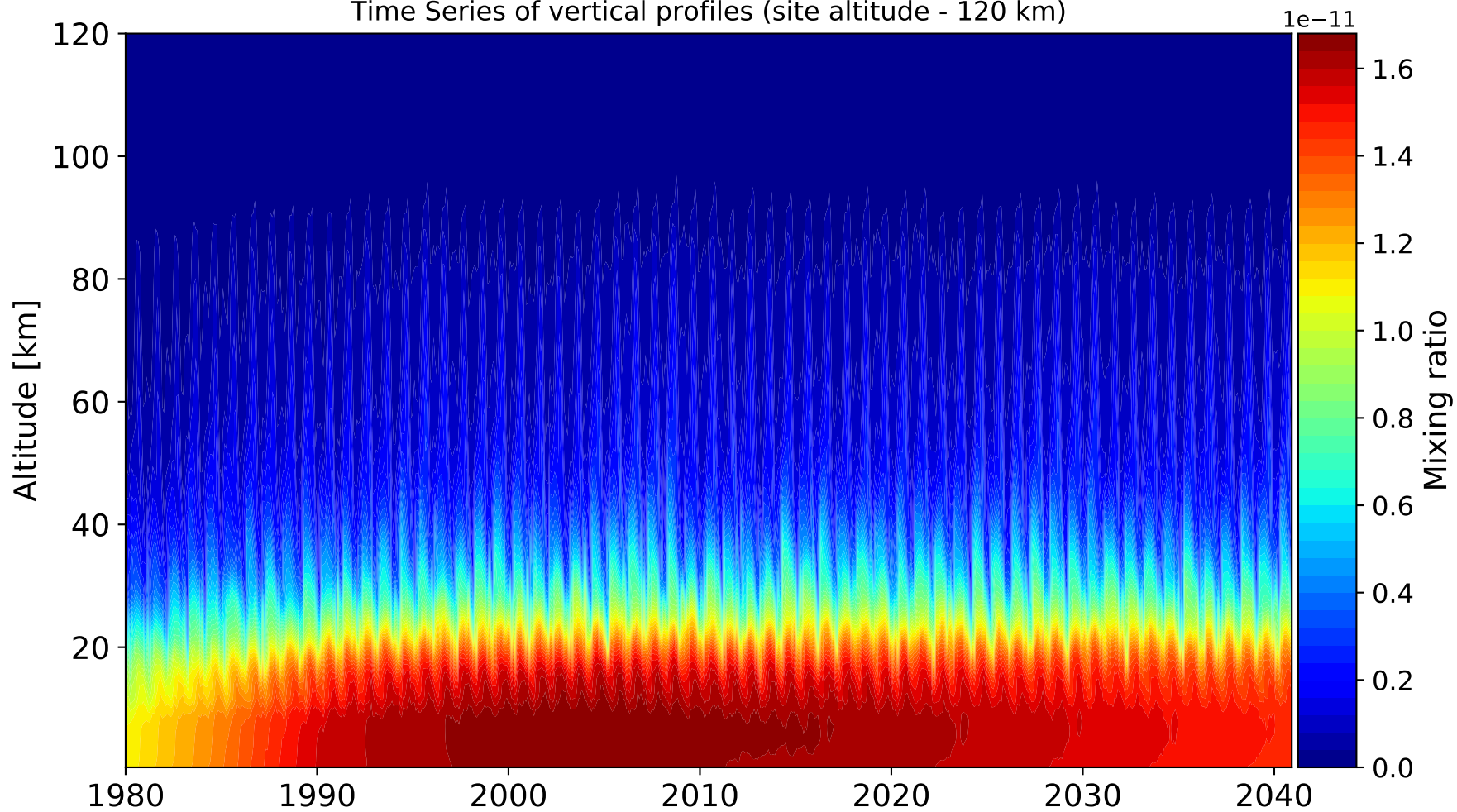
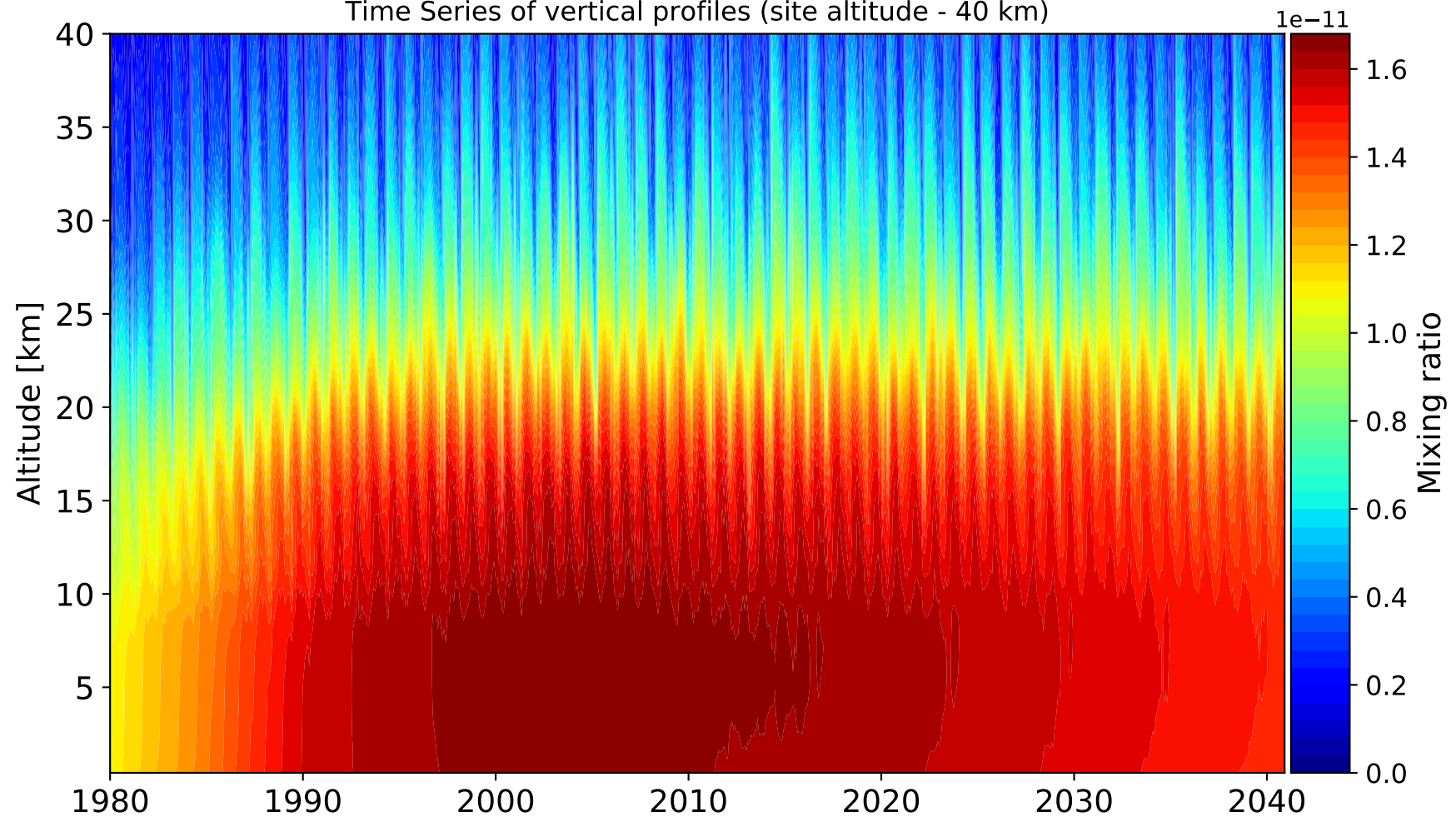


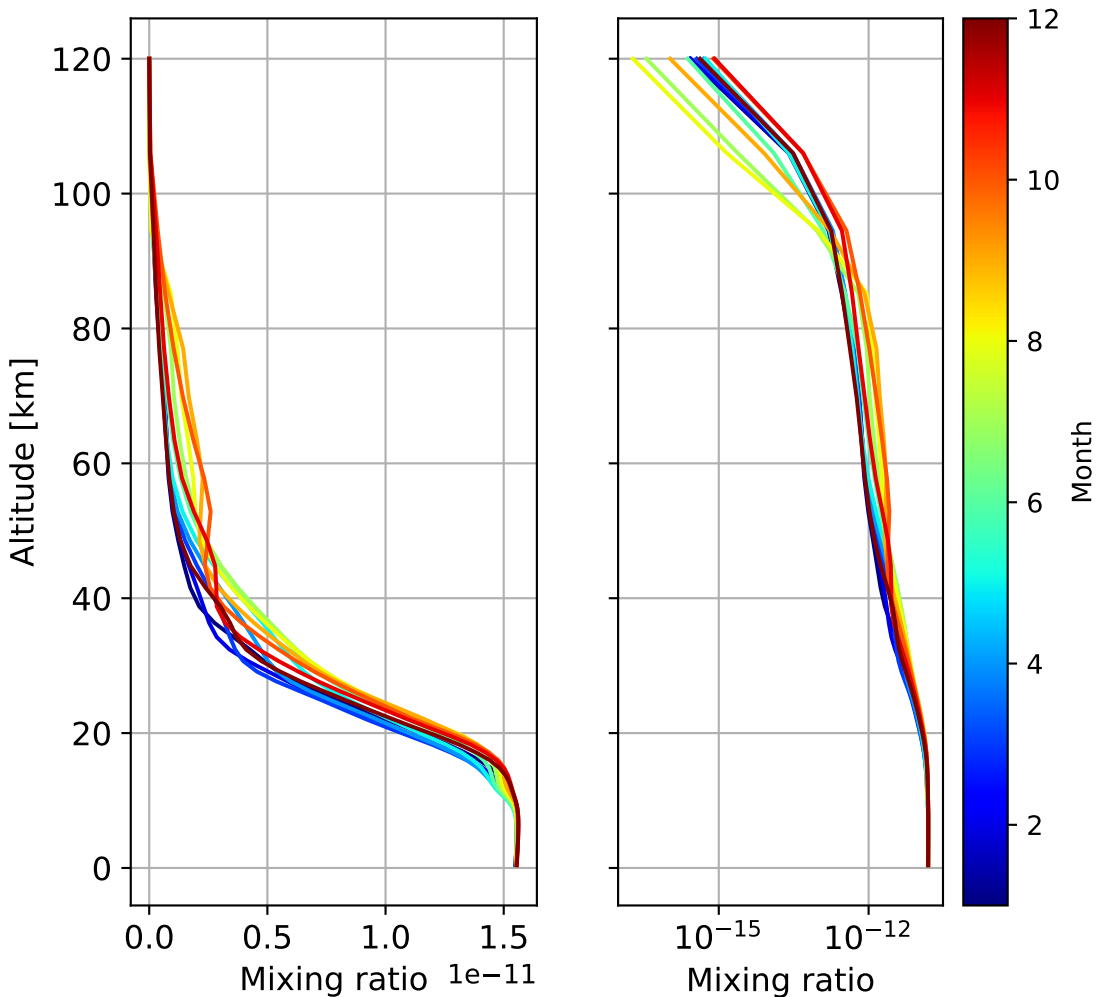
Time Series of vertical profiles (site altitude - 120 km)



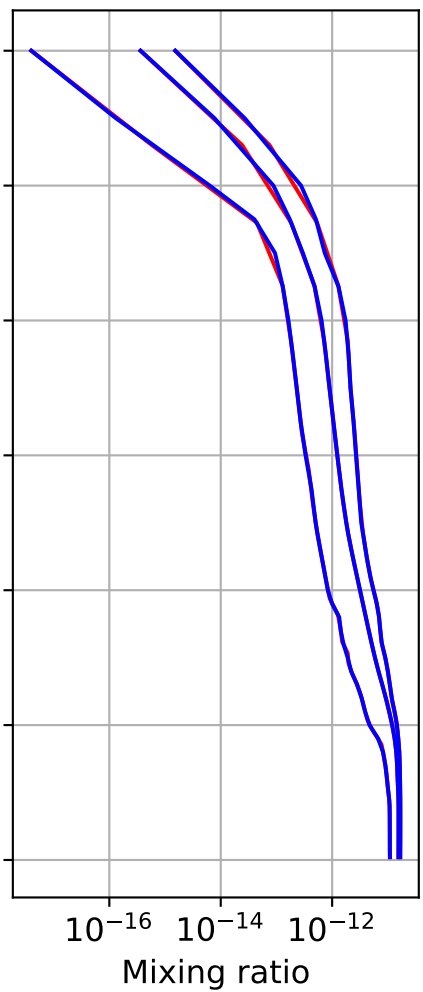
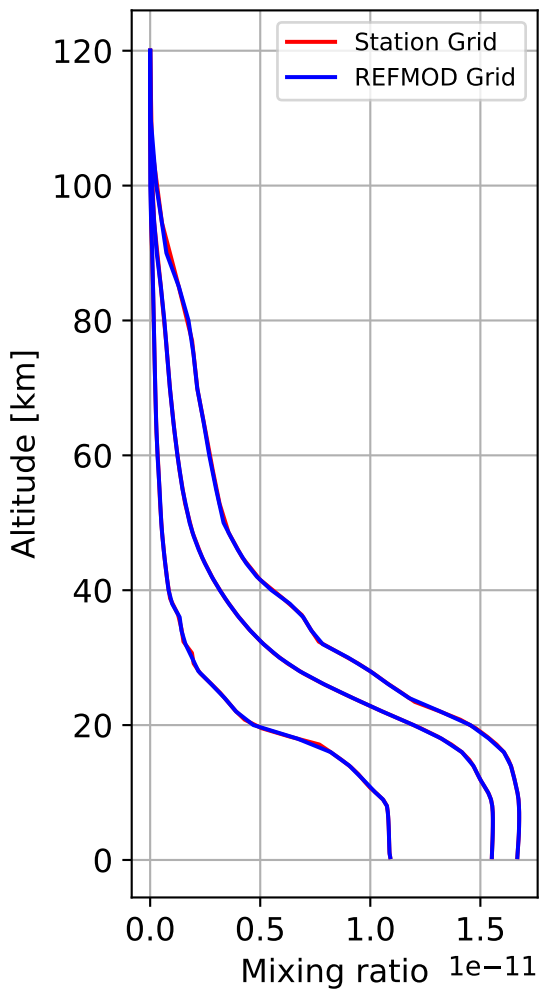
Time Series of vertical profiles (site altitude - 40 km)



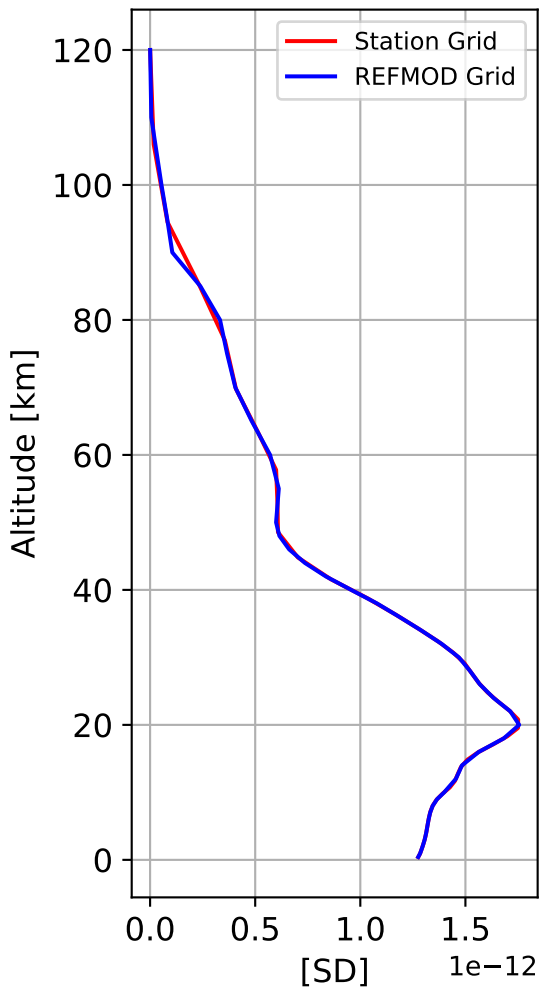
Monthly mean WACCM profile (interpolated to station grid) Kiruna, 67.84N, 20.41E, 0.42kmasl



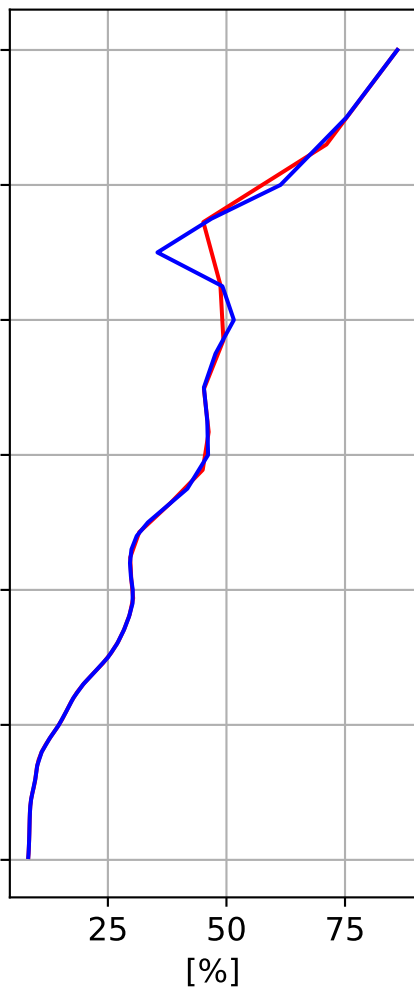
Min, Max, Mean of 732 profiles
Kiruna, 67.84N, 20.41E, 0.42kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-24

Altitude [km]

120
100
80
60
40
20

20

Altitude [km]

40

60

80

100

120

Mixing ratio[~ 2]2.8
2.4
2.0
1.6
1.2
0.8
0.4
0.0