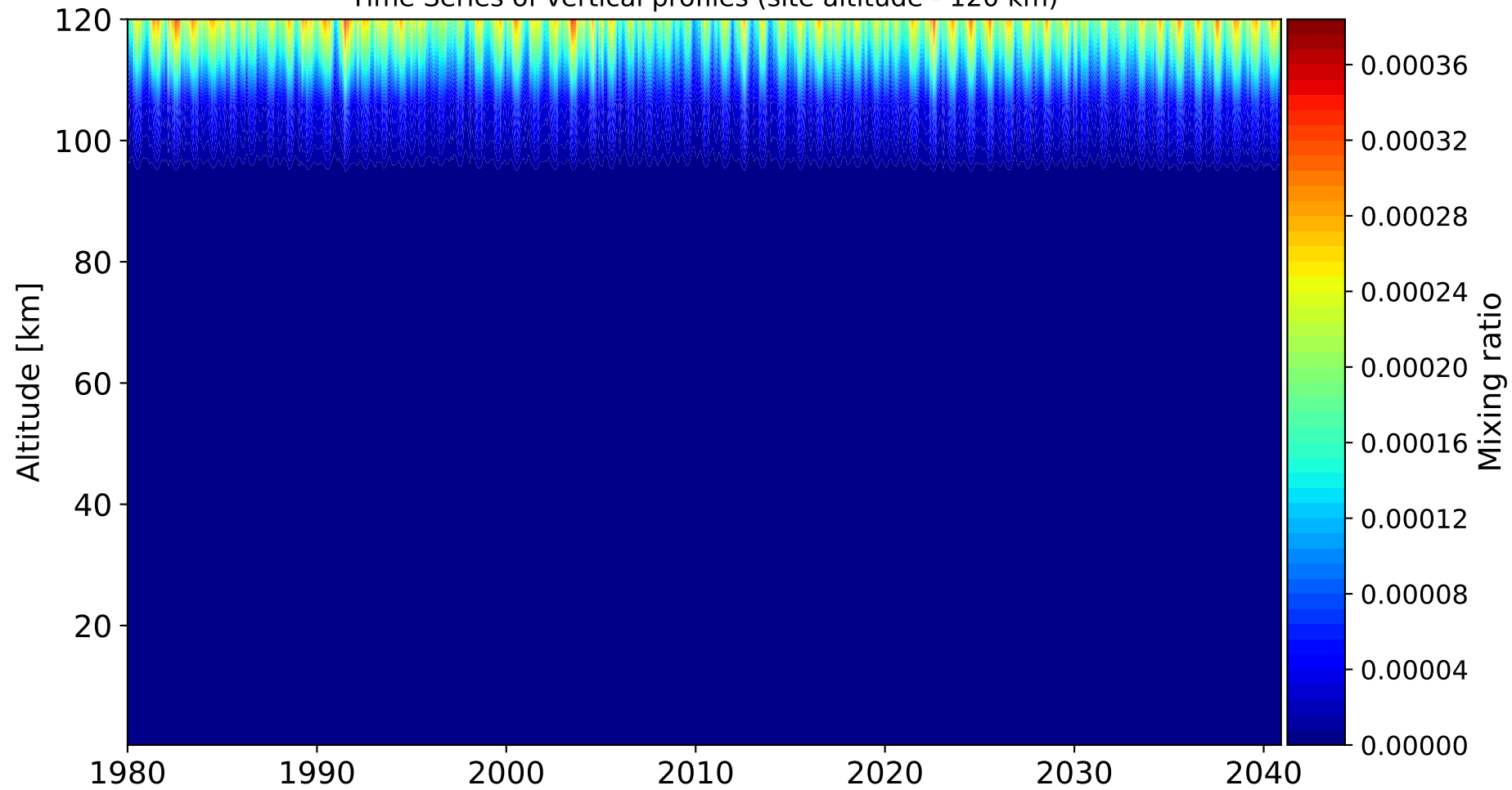
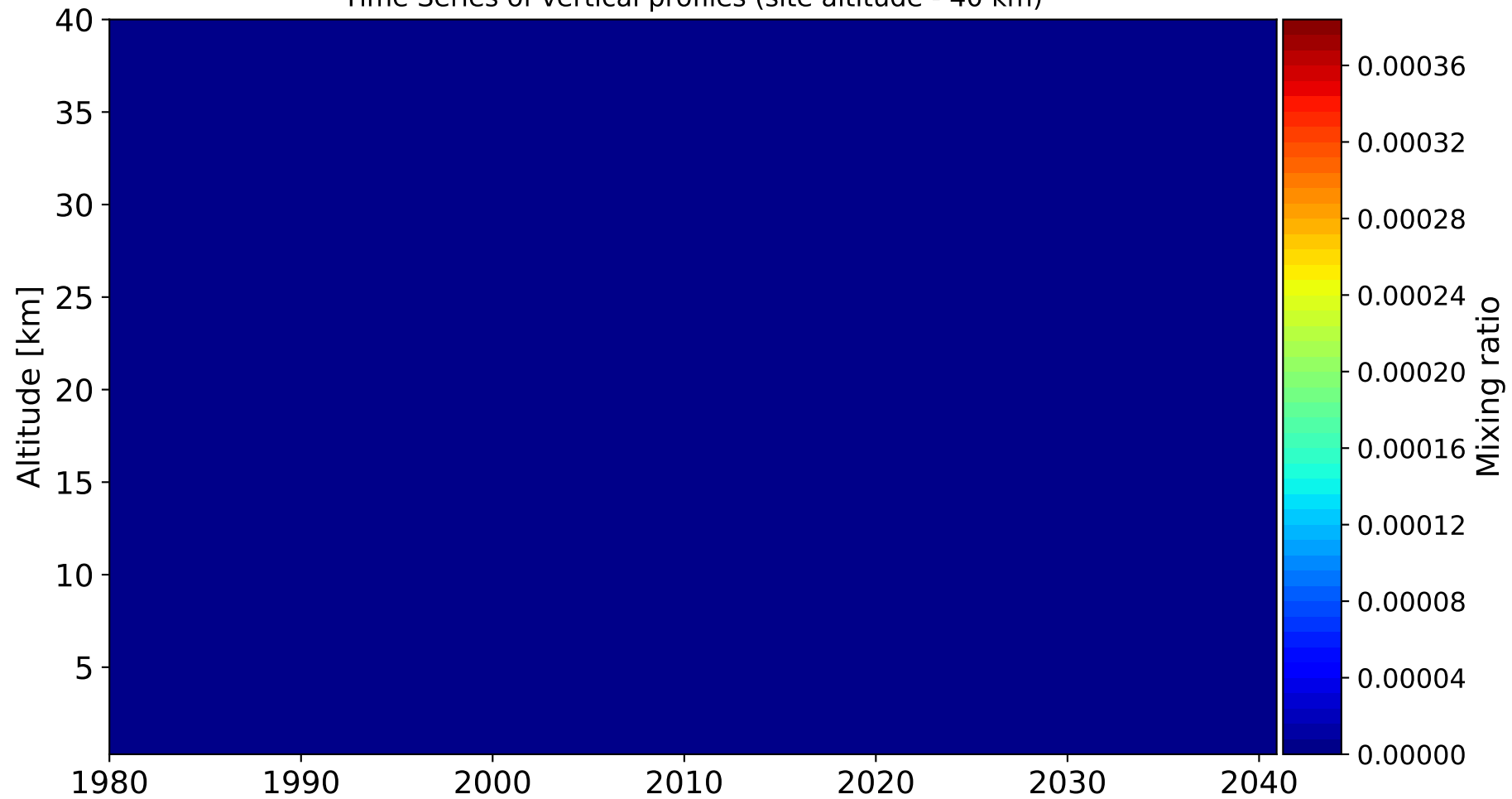


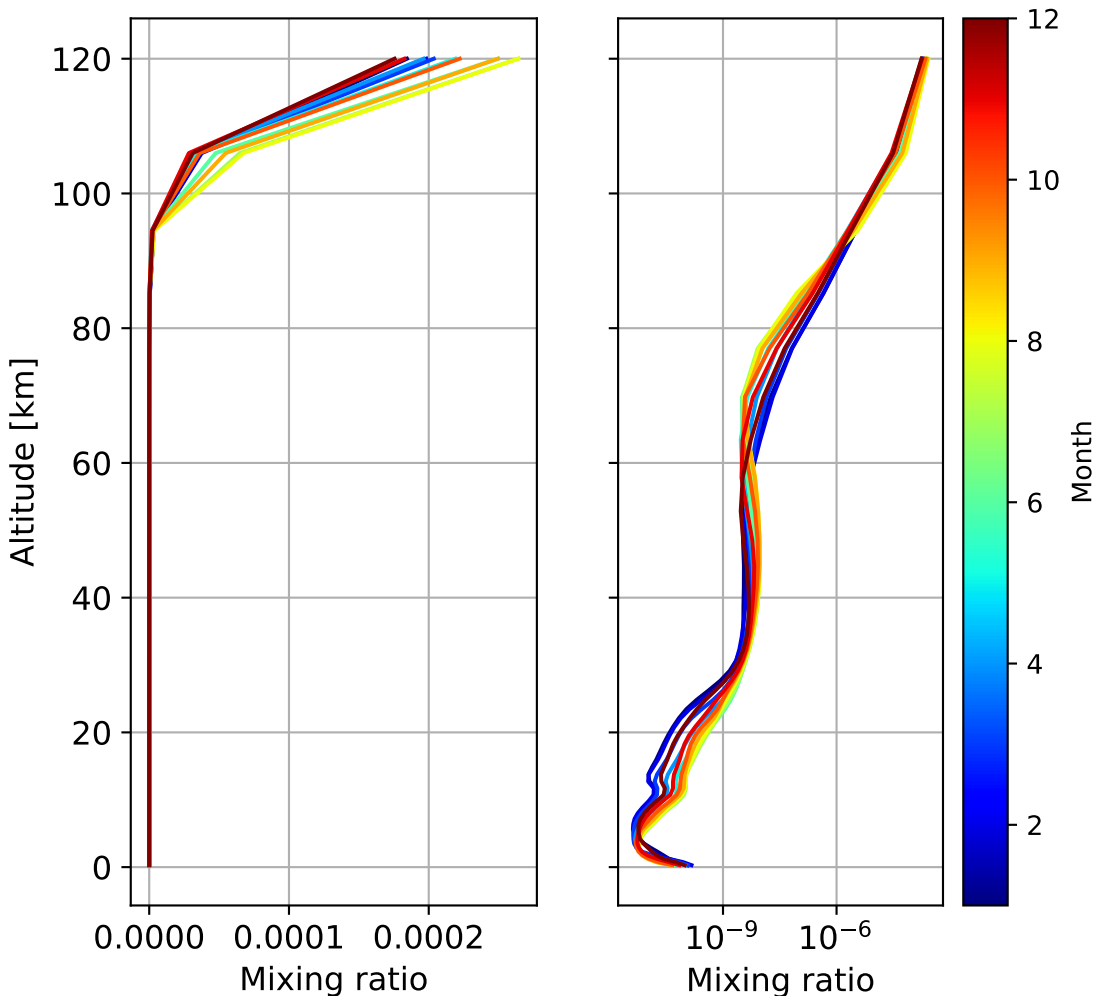
Time Series of vertical profiles (site altitude - 120 km)



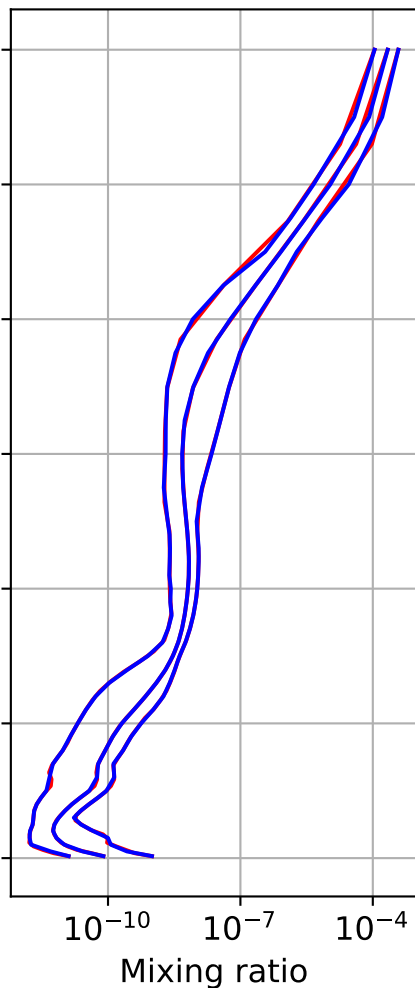
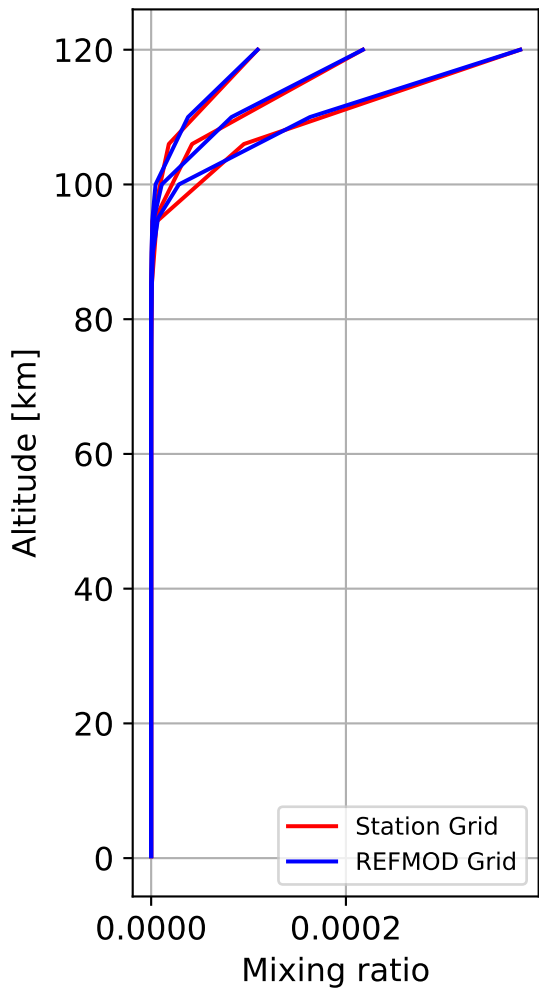
Time Series of vertical profiles (site altitude - 40 km)



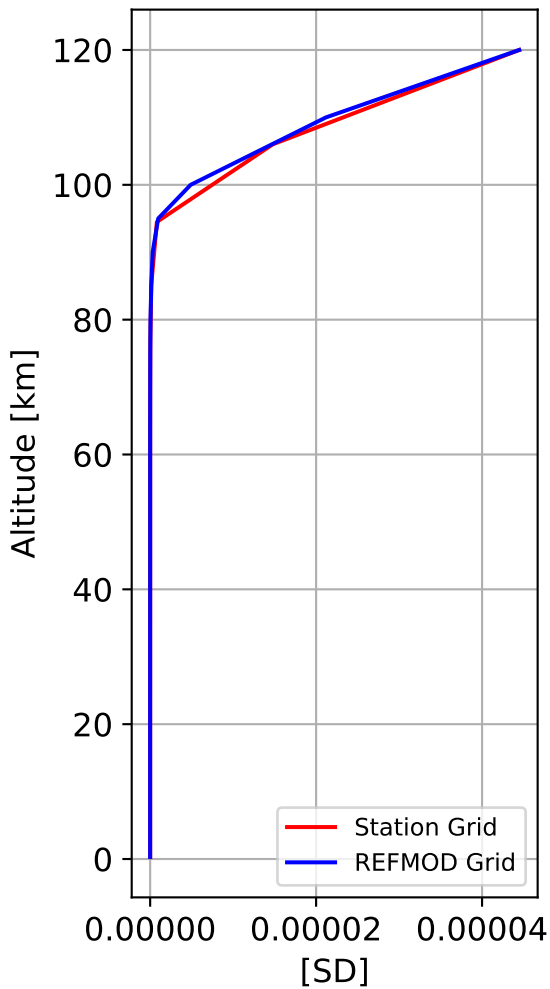
Monthly mean WACCM profile (interpolated to station grid) Timmins, 48.57N, 278.62E, 0.295kmasl



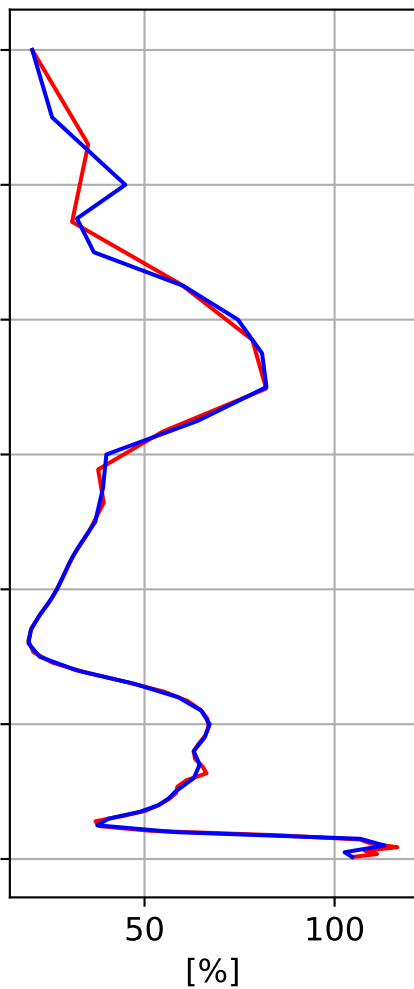
Min, Max, Mean of 732 profiles
Timmins, 48.57N, 278.62E, 0.295kmasl



Std. Deviation



Percent Deviation

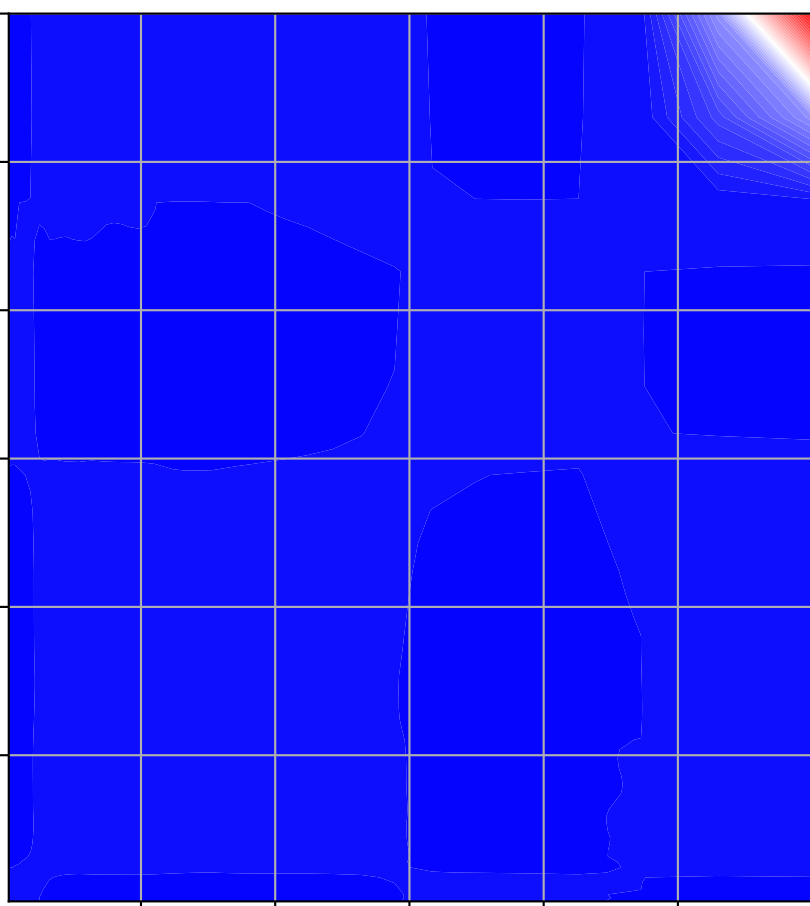


Level covariance matrix

1e-9

Altitude [km]

120
100
80
60
40
20



1.92
1.68
1.44
1.20
0.96
0.72
0.48
0.24
0.00

Mixing ratio[²]

20 40 60 80 100 120

Altitude [km]