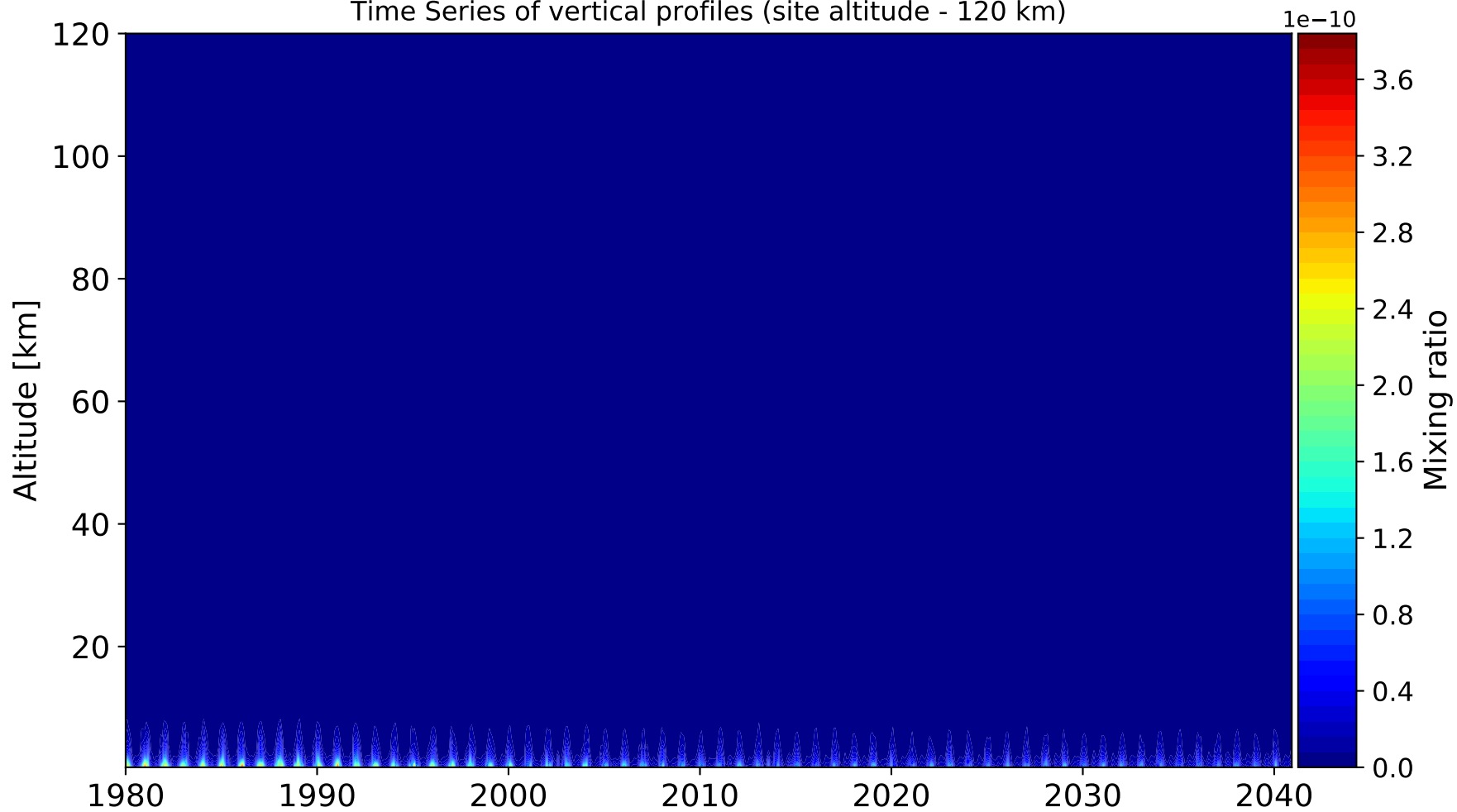
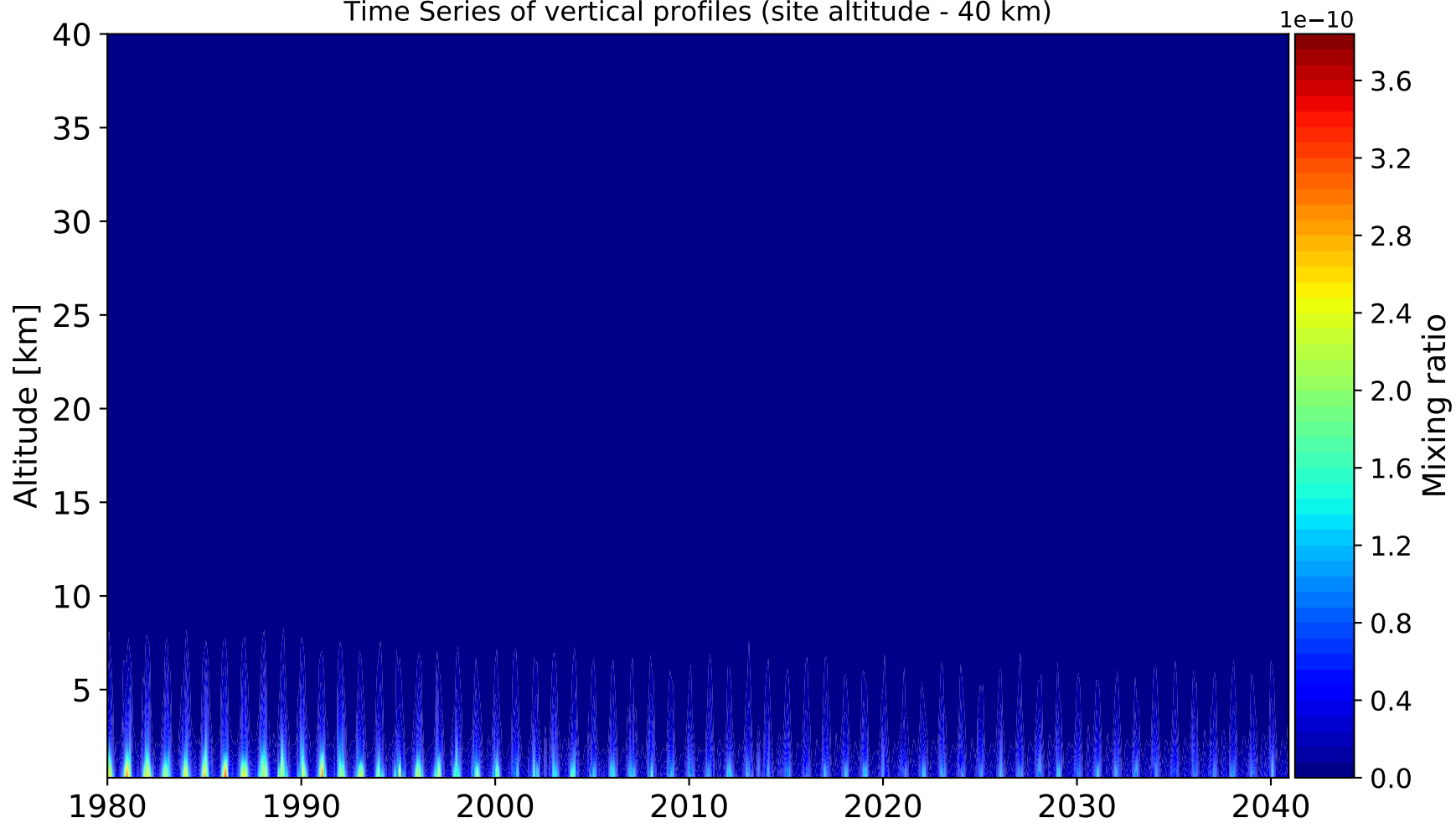


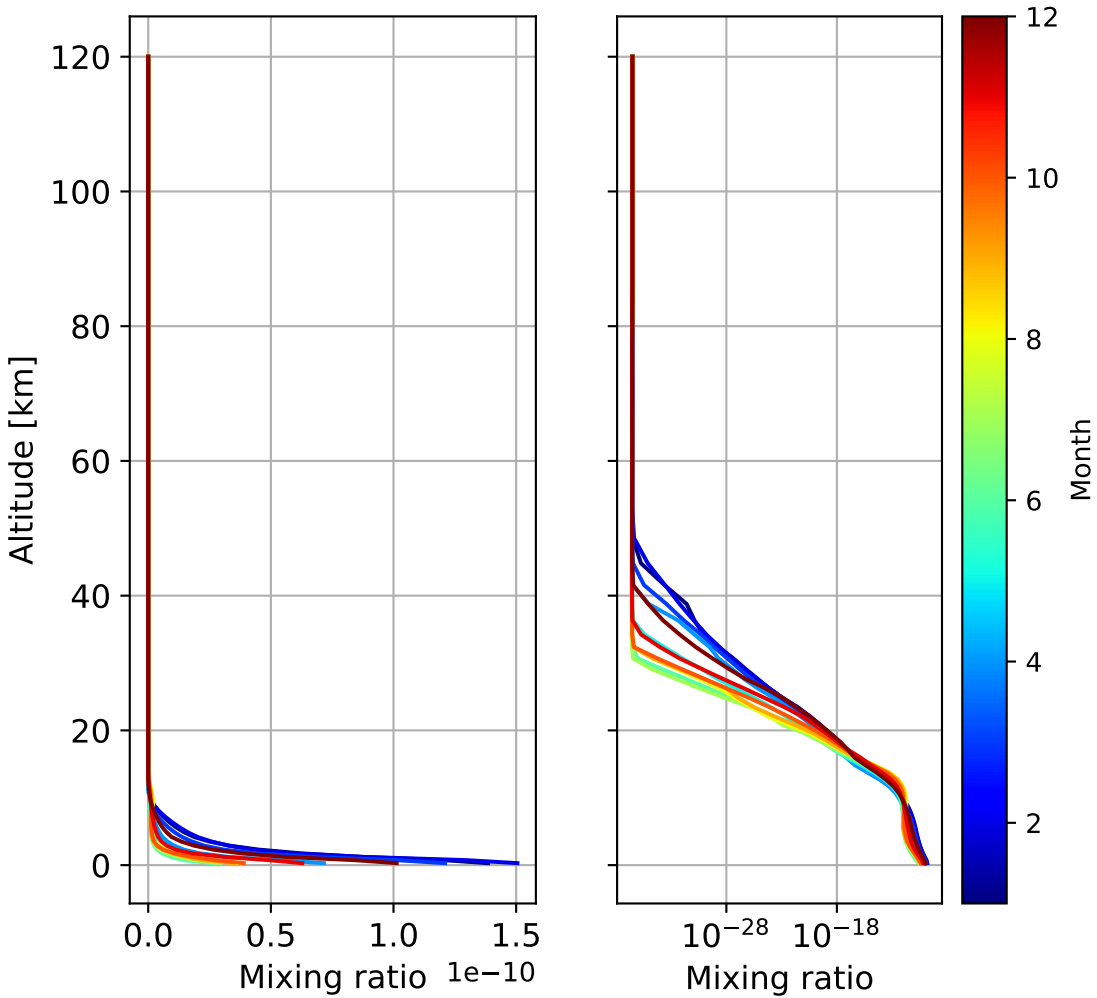
Time Series of vertical profiles (site altitude - 120 km)



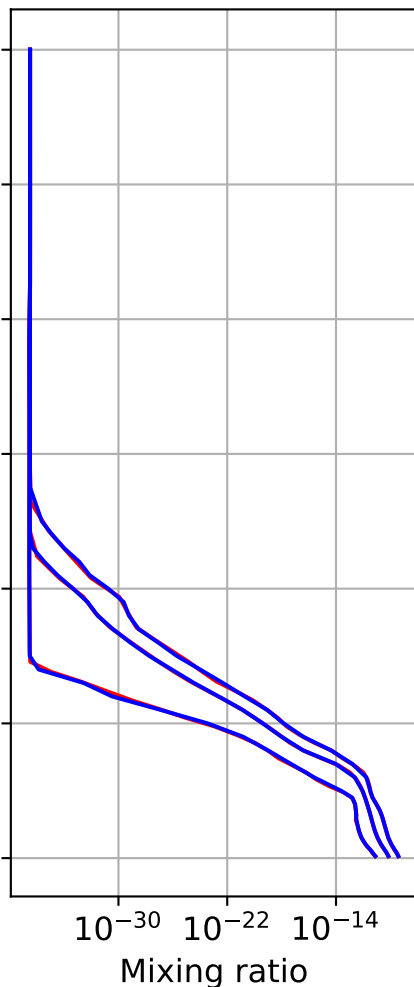
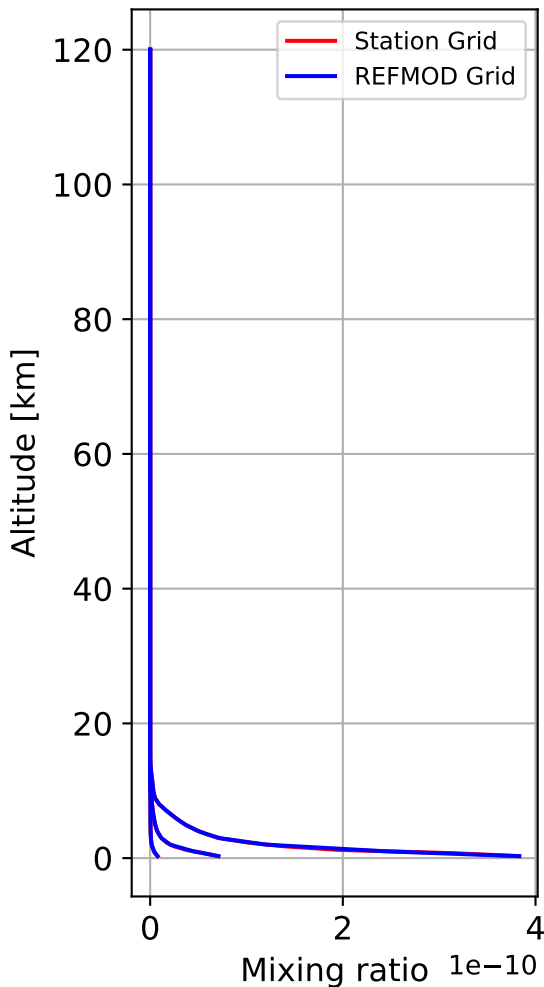
Time Series of vertical profiles (site altitude - 40 km)



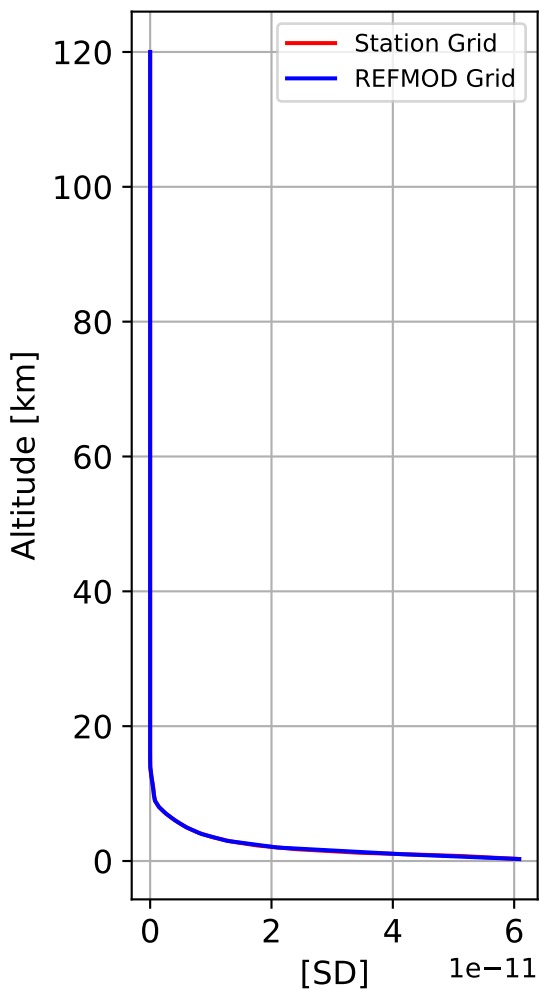
Monthly mean WACCM profile (interpolated to station grid) Timmins, 48.57N, 278.62E, 0.295kmasl



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



Std. Deviation



Percent Deviation



Level covariance matrix

1e-21

Altitude [km]

120
100
80
60
40
20

Altitude [km]

100
80
60
40
203.6
3.2
2.8
2.4
2.0
1.6
1.2
0.8
0.4
0.0Mixing ratio[~ 2]