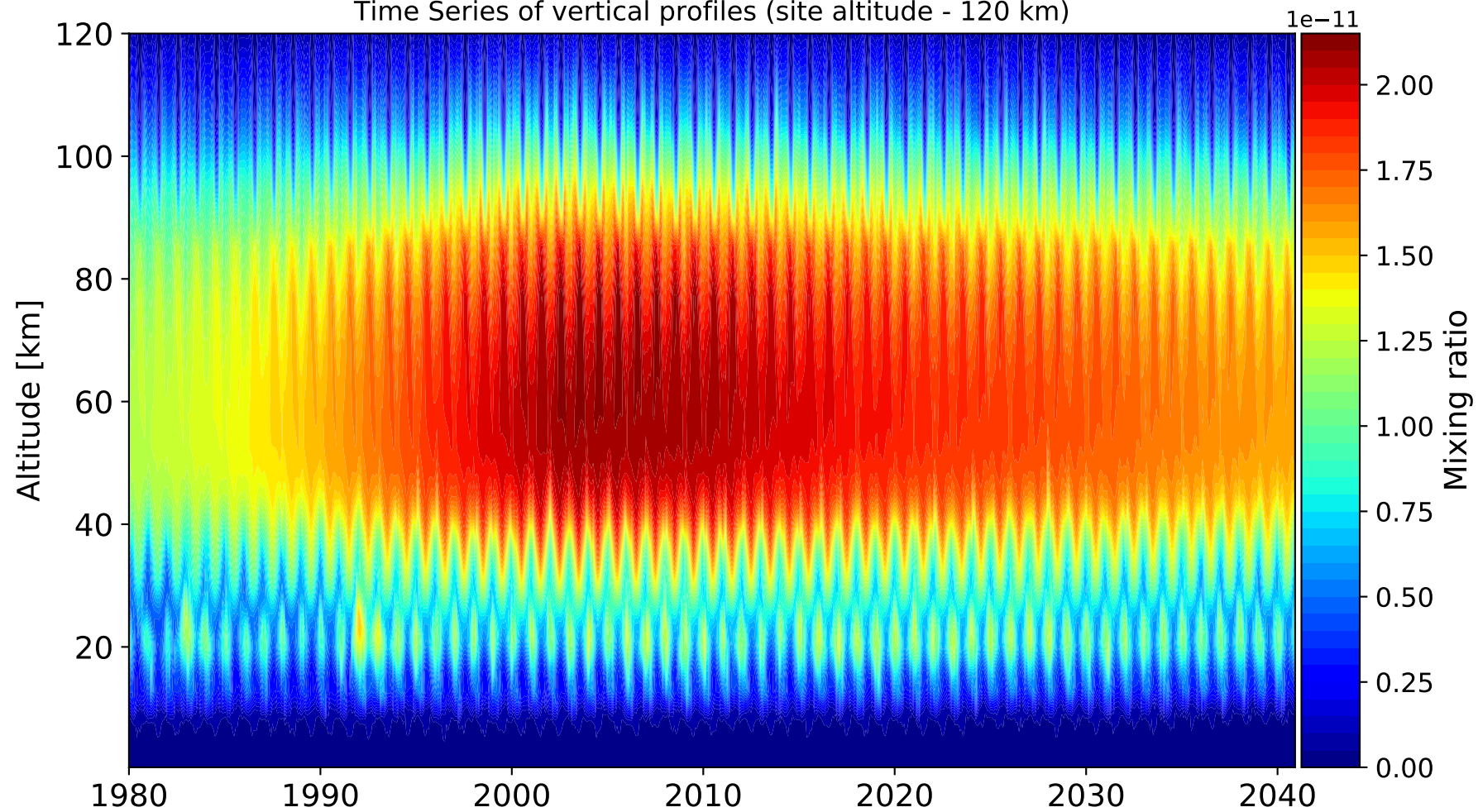
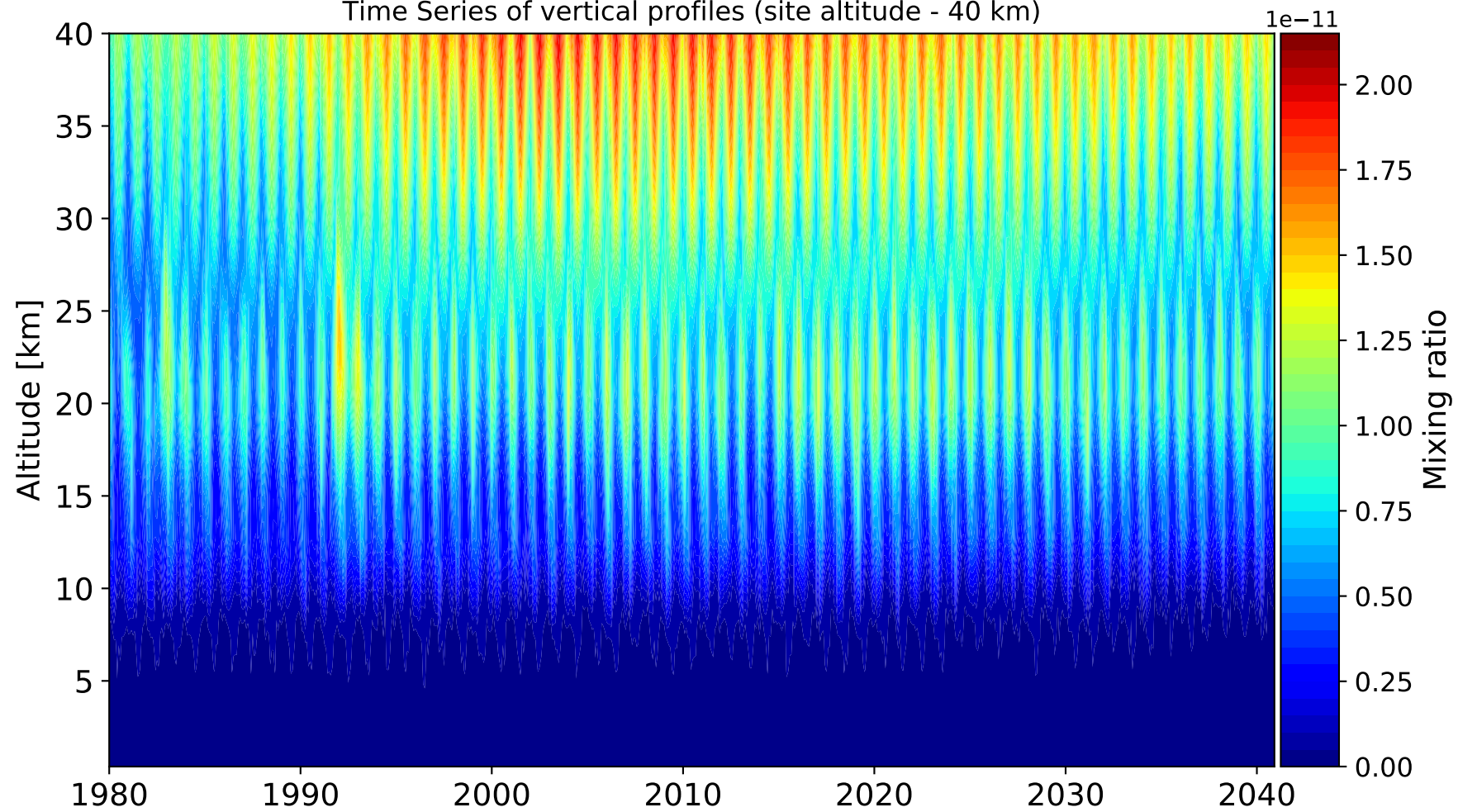


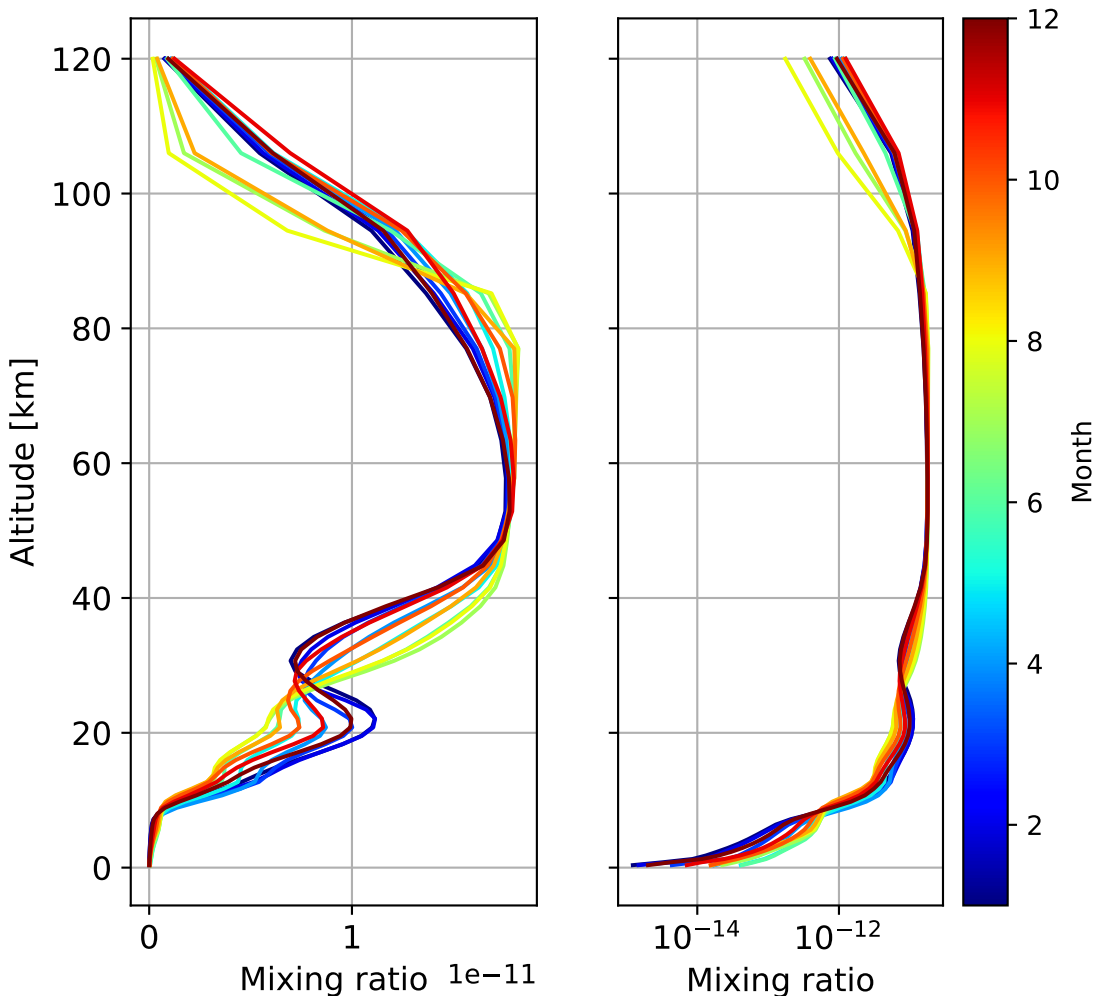
Time Series of vertical profiles (site altitude - 120 km)



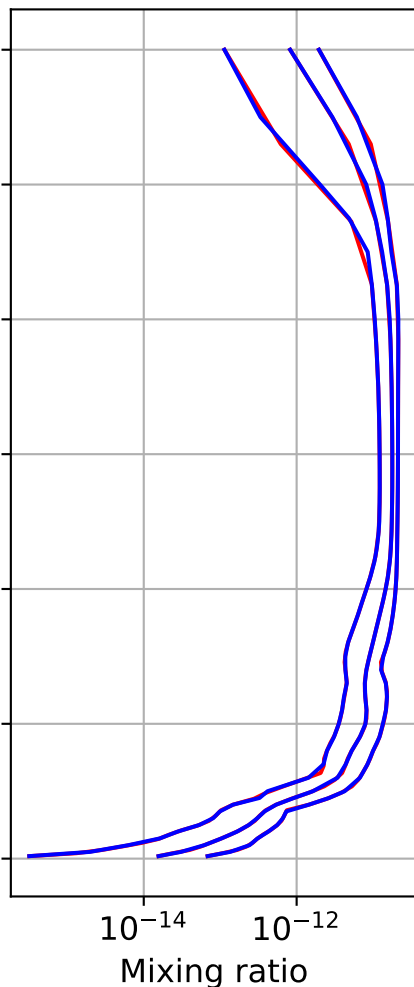
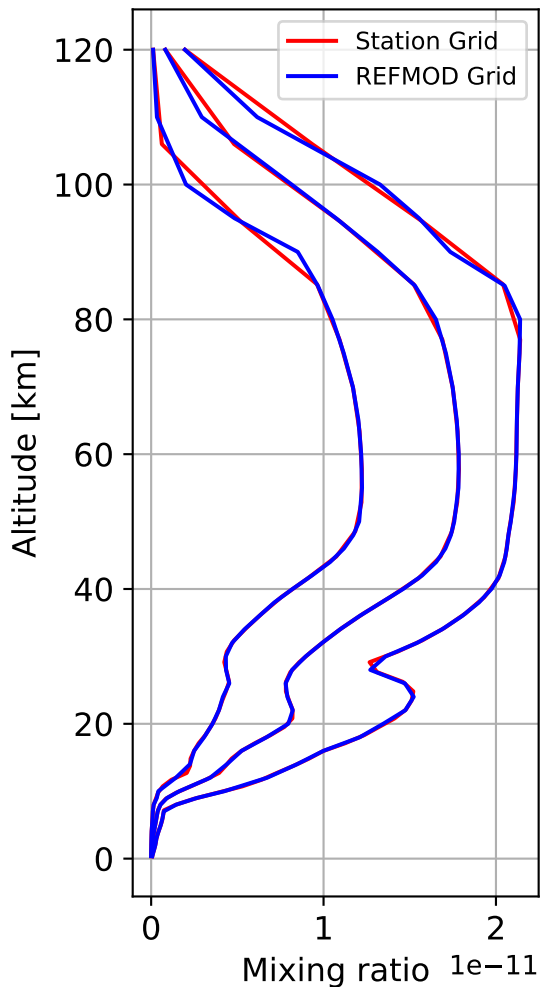
Time Series of vertical profiles (site altitude - 40 km)



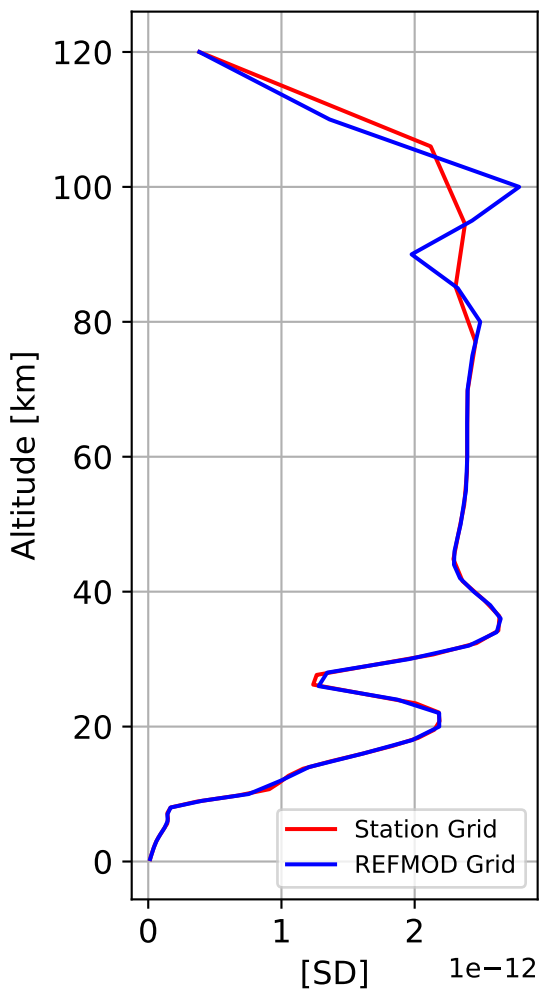
Monthly mean WACCM profile (interpolated to station grid)
Fort_McMurray, 56.65N, 248.78E, 0.369kmasl



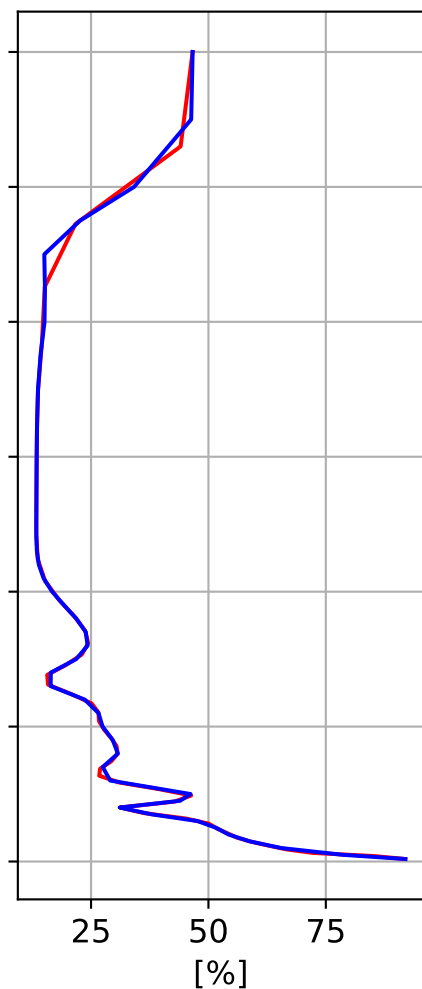
Min, Max, Mean of 732 profiles
Fort_McMurray, 56.65N, 248.78E, 0.369kmasl



Std. Deviation



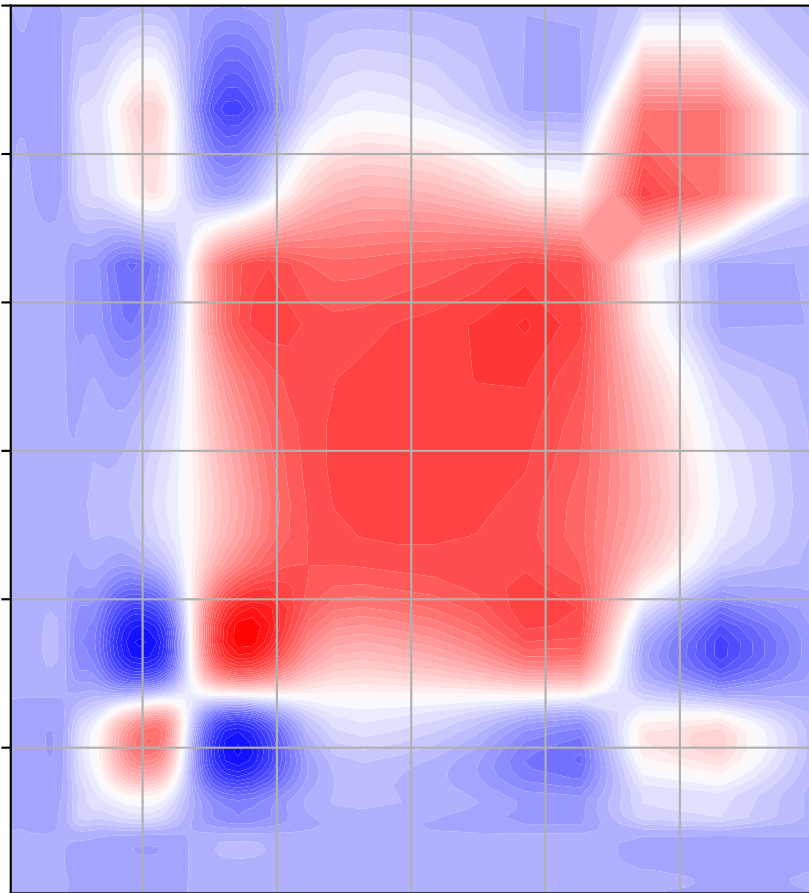
Percent Deviation



Level covariance matrix

 $1e-24$

Altitude [km]

120
100
80
60
40
20

6.25

5.00

3.75

2.50

1.25

0.00

-1.25

-2.50

Mixing ratio²]

20

Altitude [km]

120