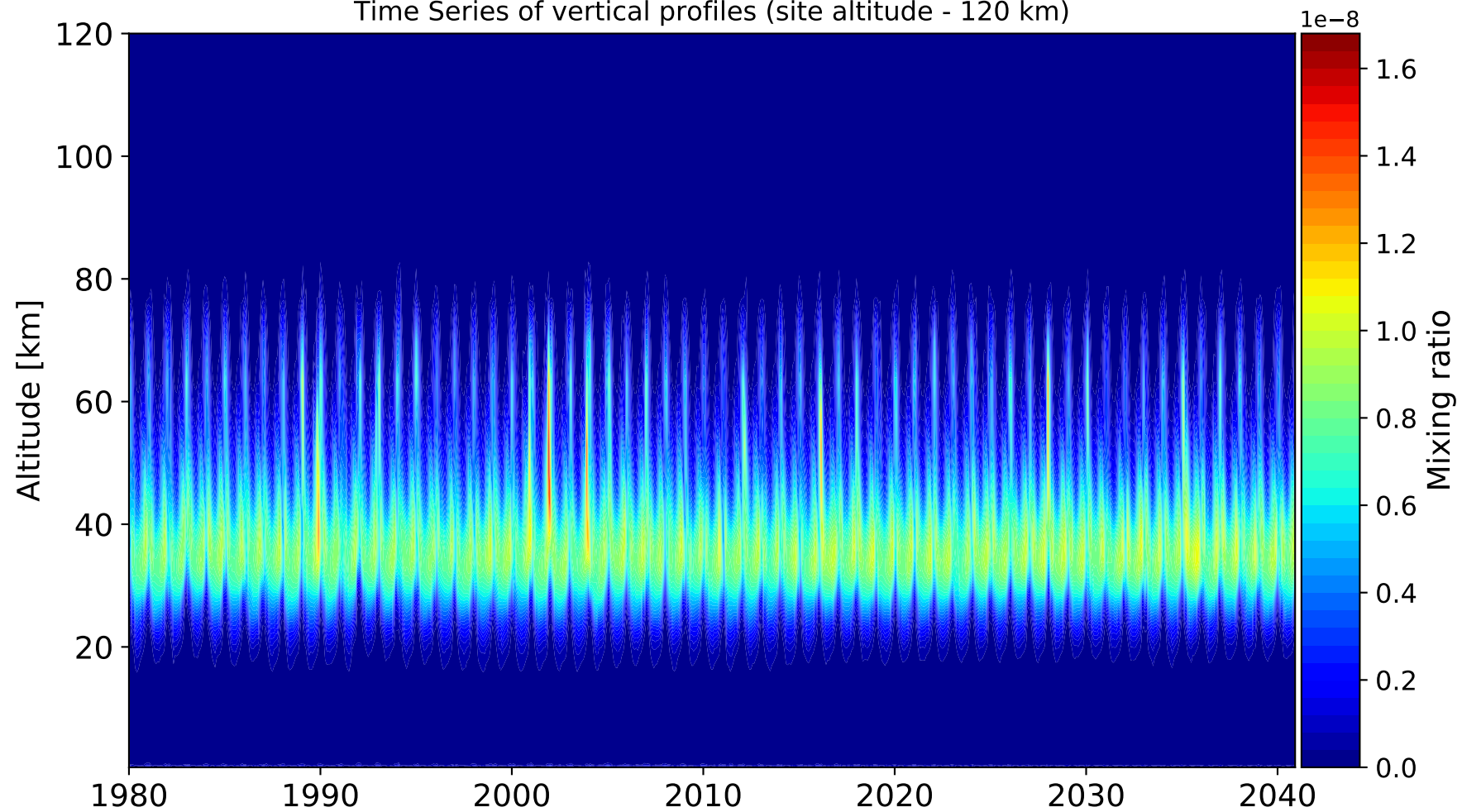
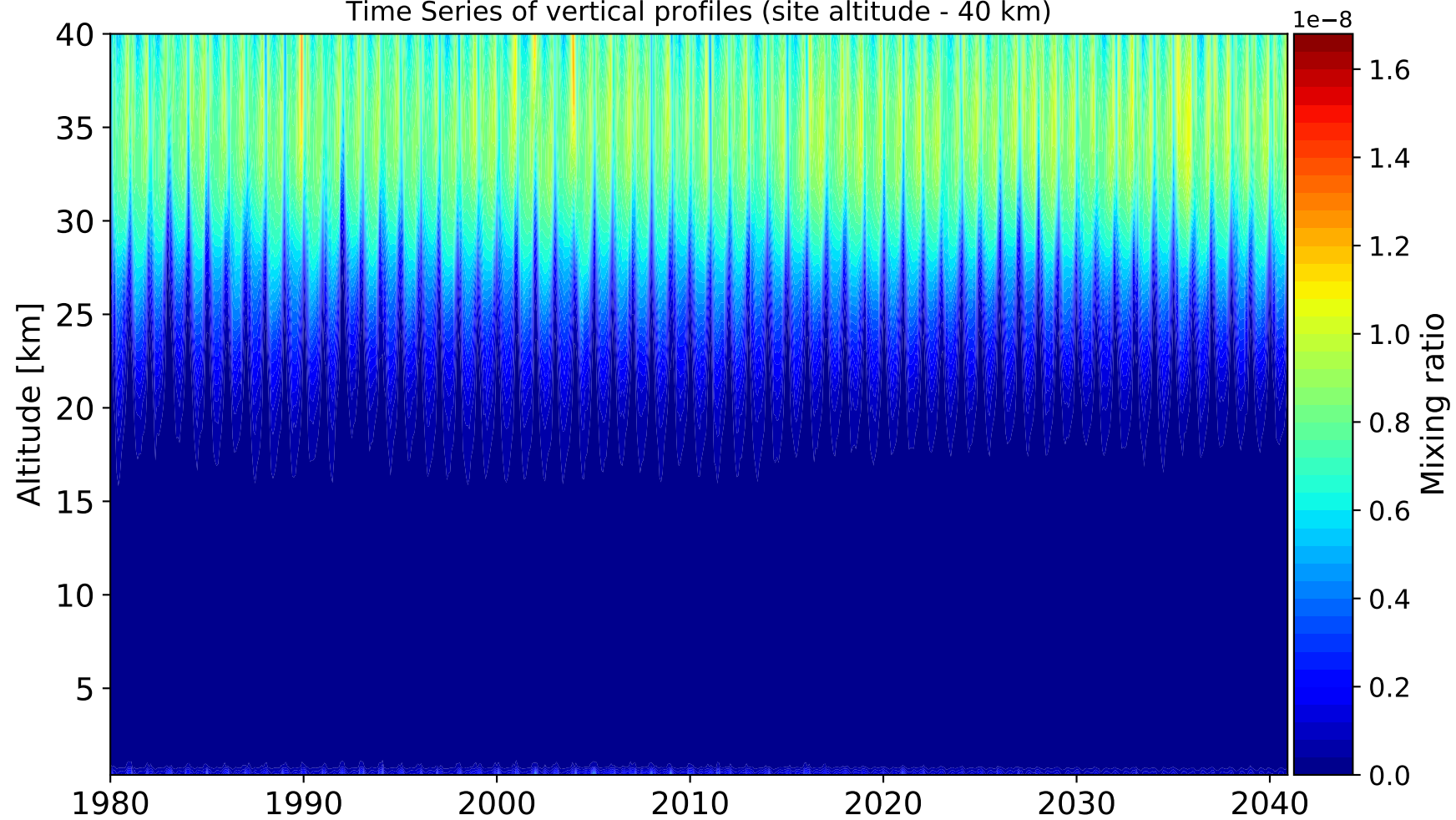


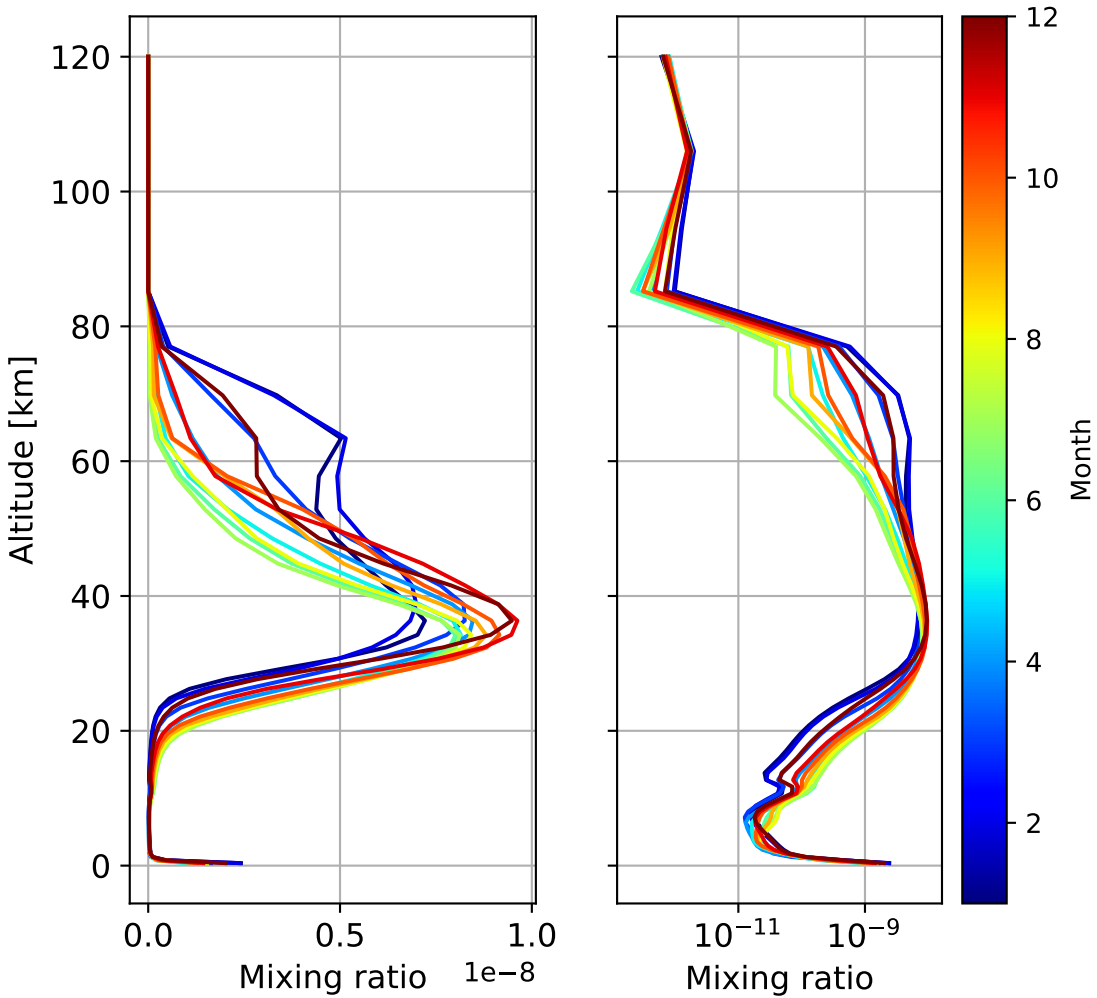
Time Series of vertical profiles (site altitude - 120 km)



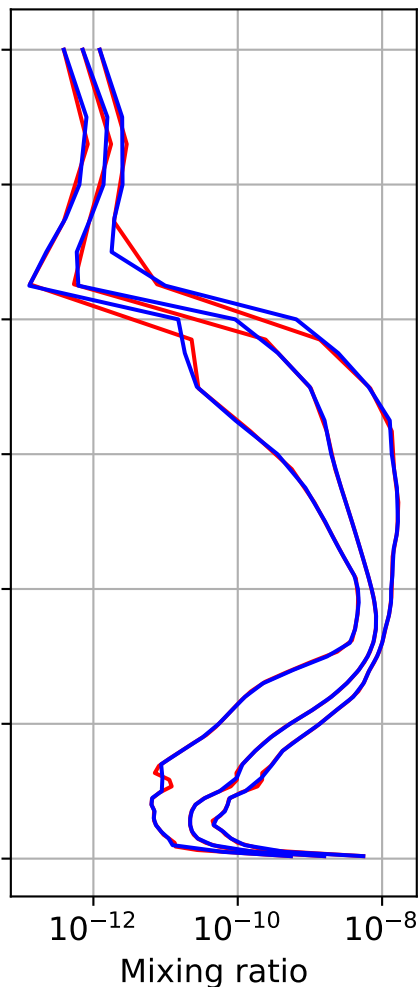
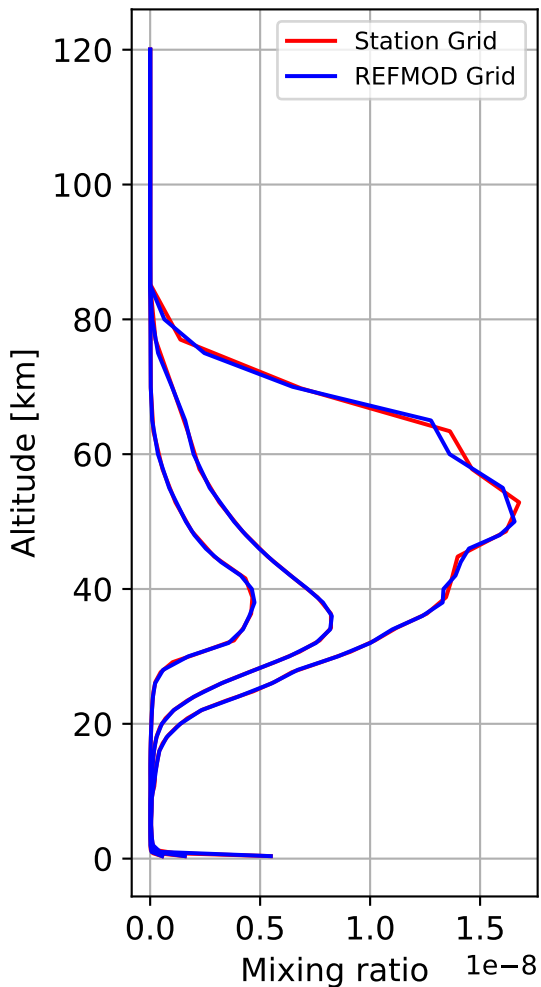
Time Series of vertical profiles (site altitude - 40 km)



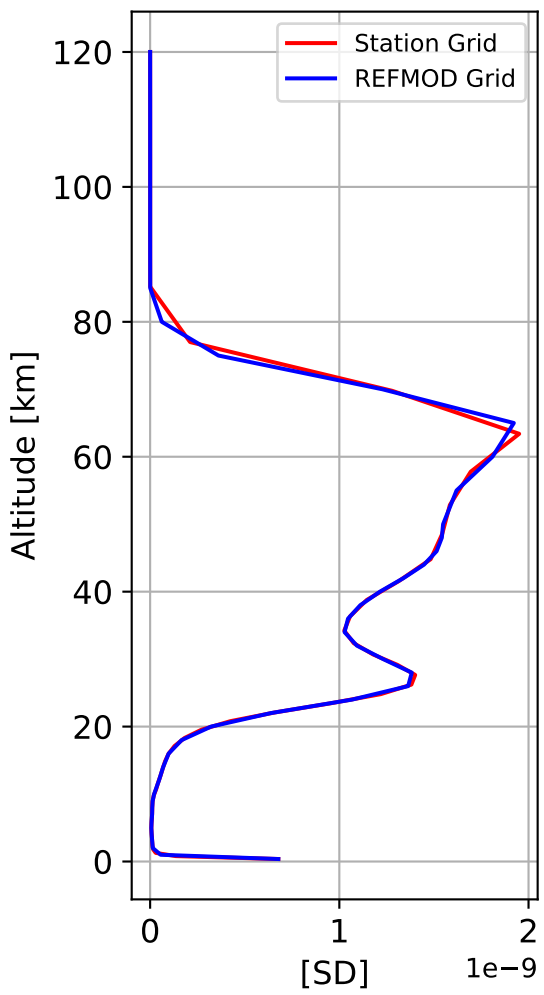
Monthly mean WACCM profile (interpolated to station grid)  
Fort\_McMurray, 56.65N, 248.78E, 0.369kmasl



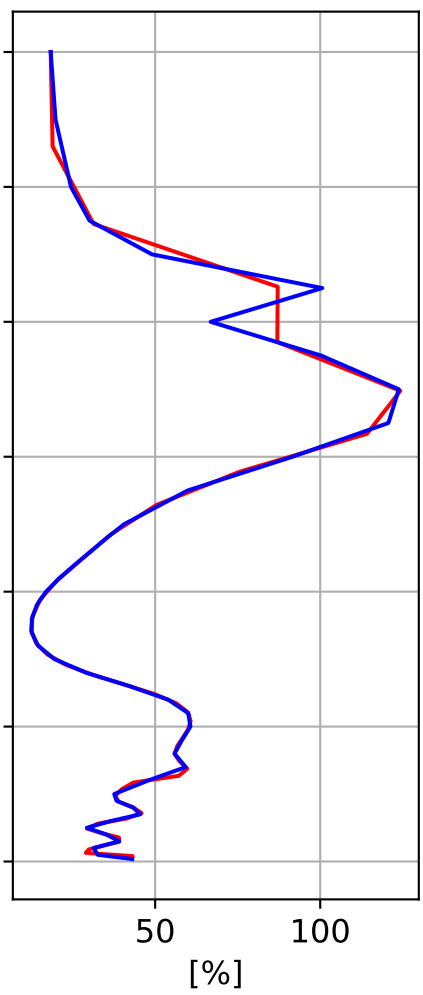
Min, Max, Mean of 732 profiles  
Fort\_McMurray, 56.65N, 248.78E, 0.369kmasl



### Std. Deviation



### Percent Deviation

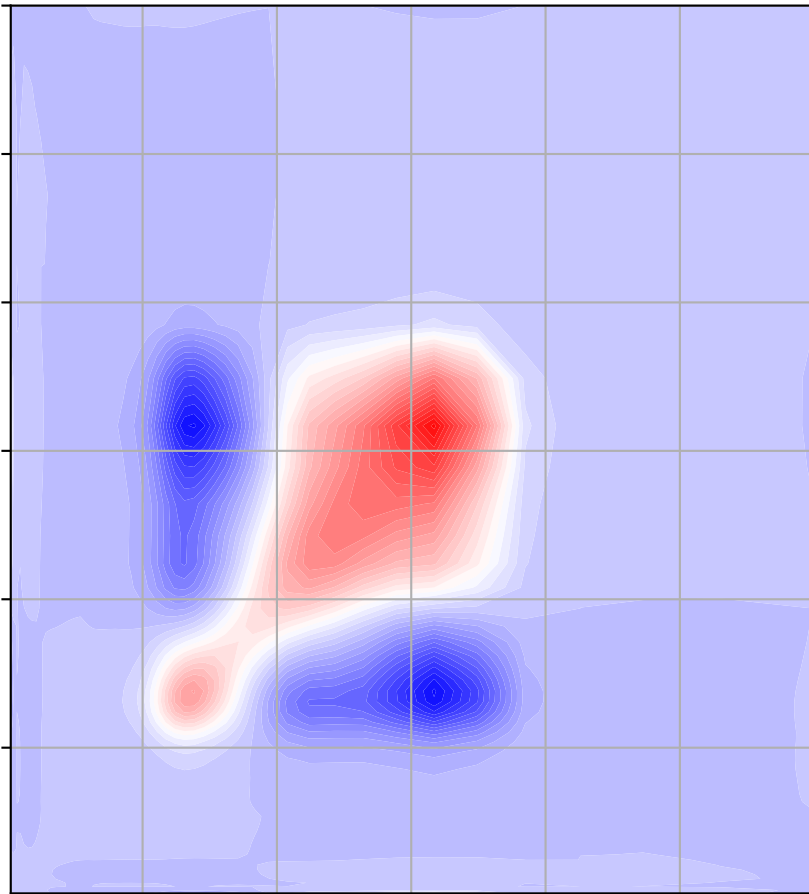


Level covariance matrix

$1e-18$

Altitude [km]

120  
100  
80  
60  
40  
20



Mixing ratio [^2]

3.75  
3.00  
2.25  
1.50  
0.75  
0.00  
-0.75  
-1.50  
-2.25

20 40 60 80 100 120

Altitude [km]