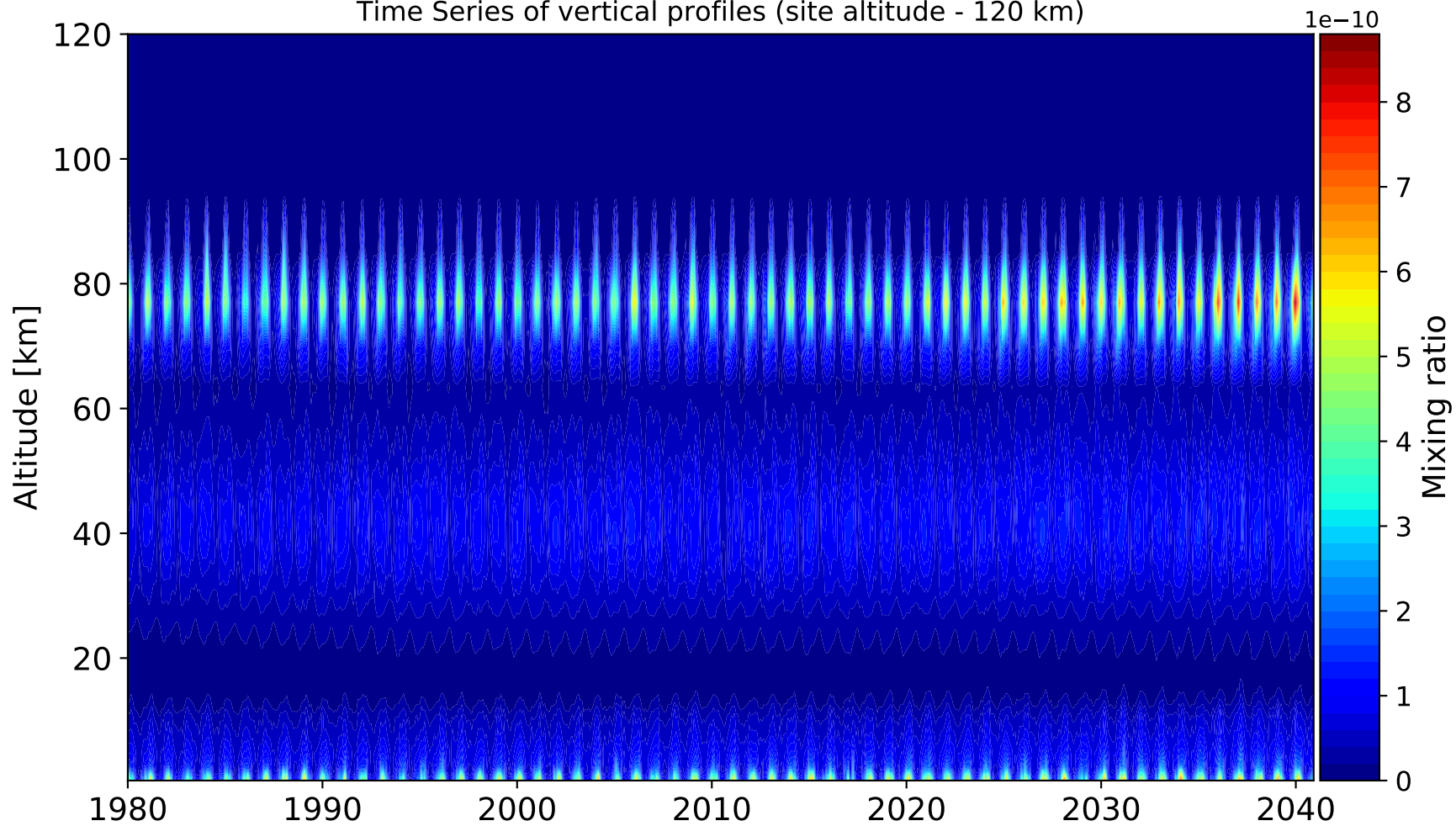
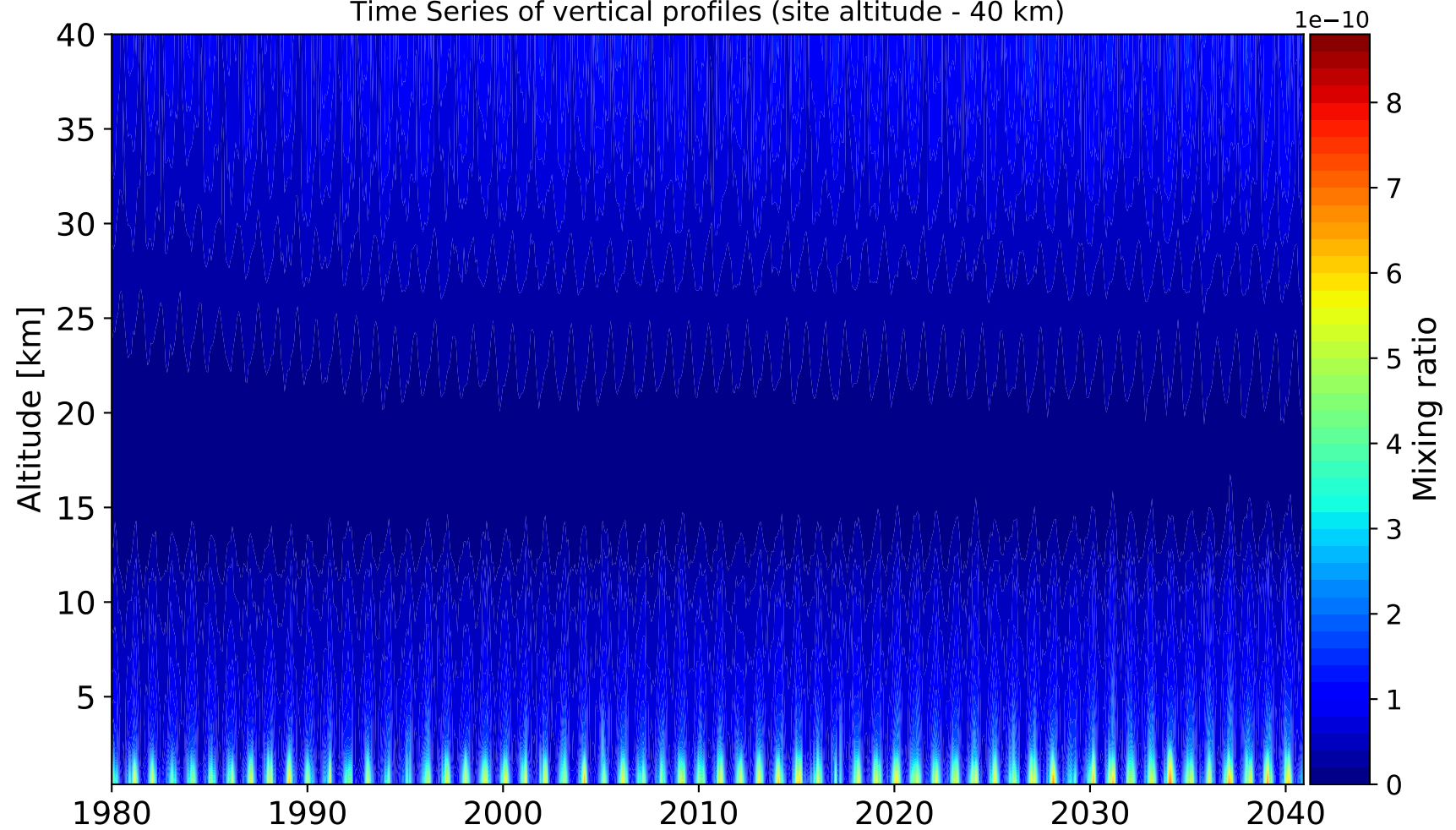


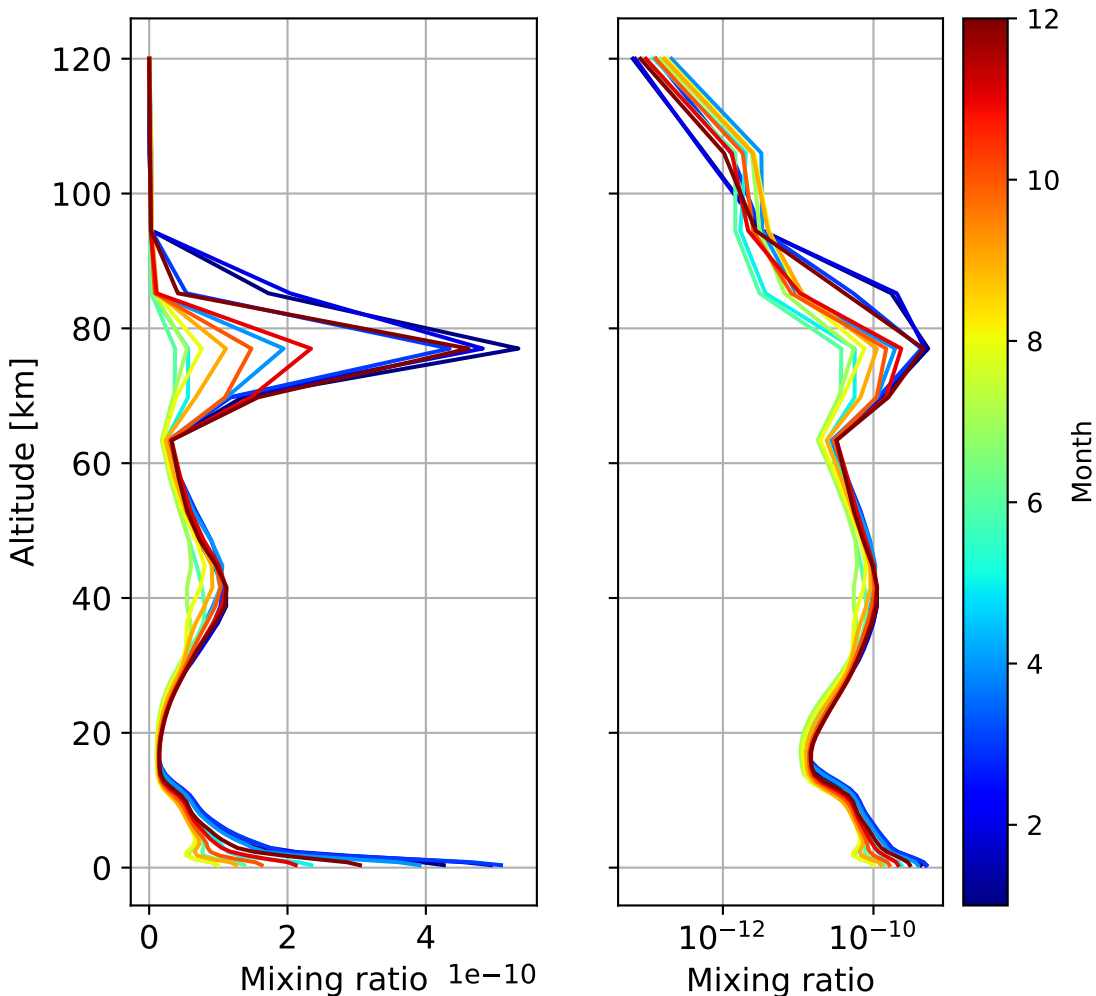
Time Series of vertical profiles (site altitude - 120 km)



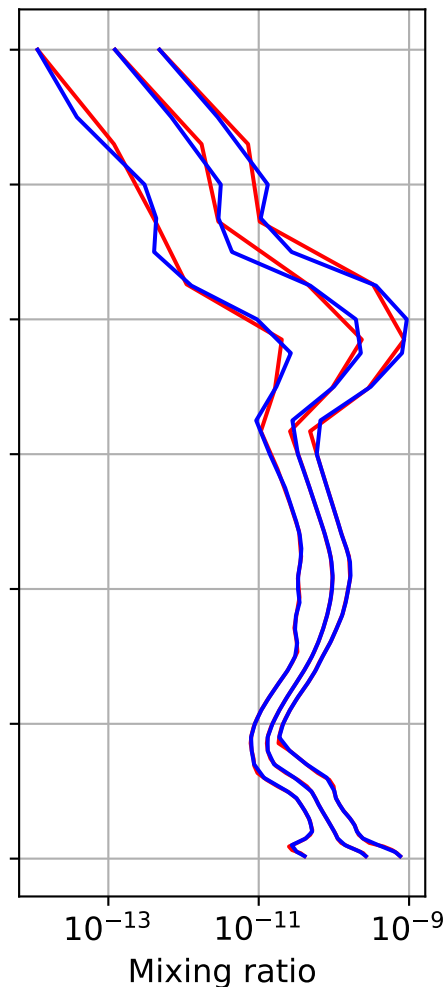
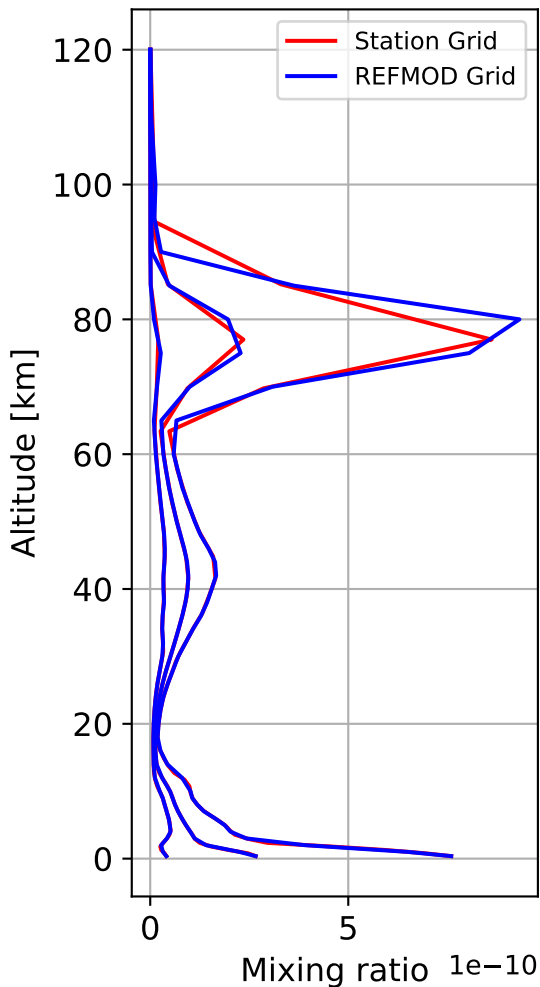
Time Series of vertical profiles (site altitude - 40 km)



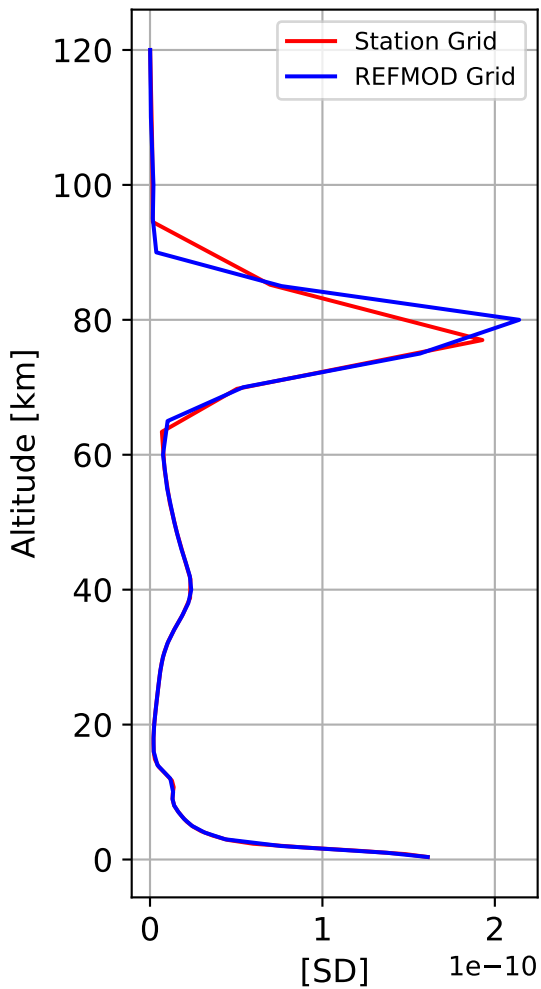
# Monthly mean WACCM profile (interpolated to station grid) Lauder, -45.05N, 169.67E, 0.37kmasl



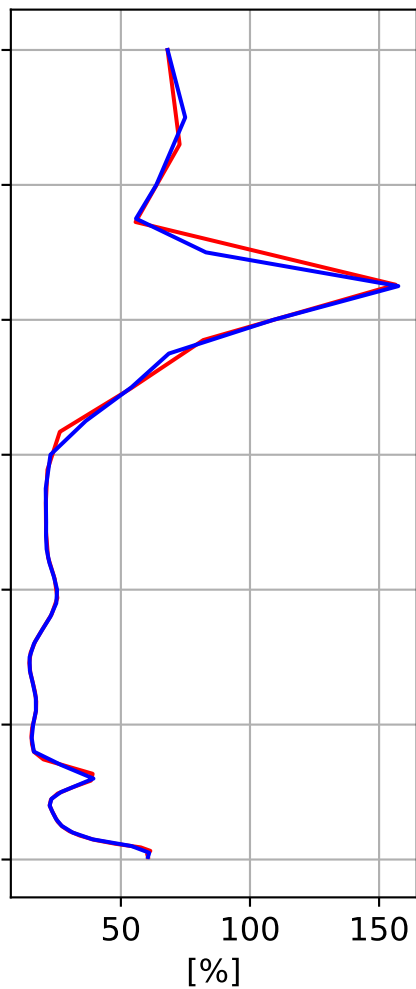
Min, Max, Mean of 732 profiles  
Lauder, -45.05N, 169.67E, 0.37kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-20

Altitude [km]

120  
100  
80  
60  
40  
20

20 40 60 80 100 120

Altitude [km]

Mixing ratio[ $\sim 2$ ]3.6  
3.2  
2.8  
2.4  
2.0  
1.6  
1.2  
0.8  
0.4  
0.0