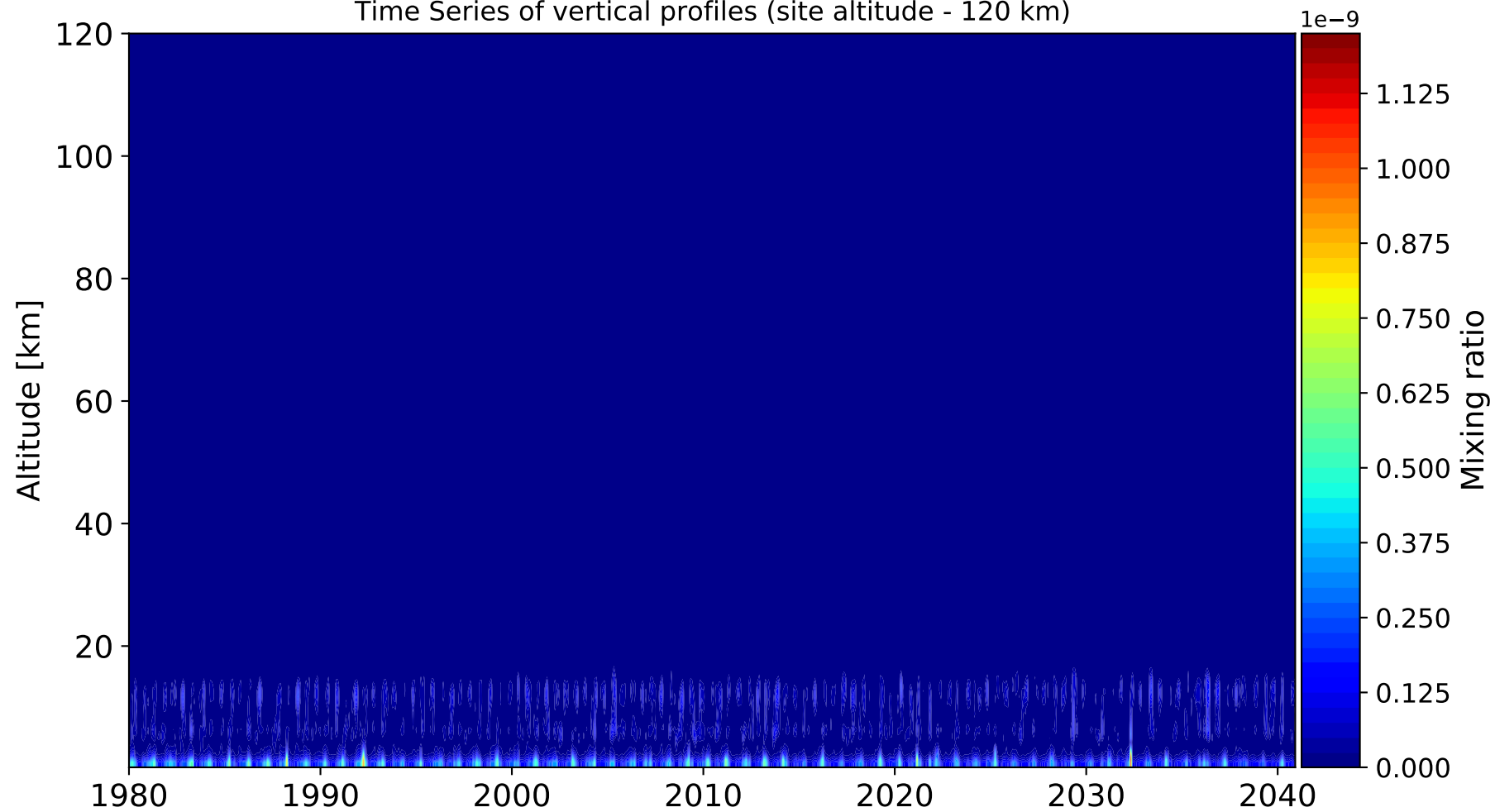
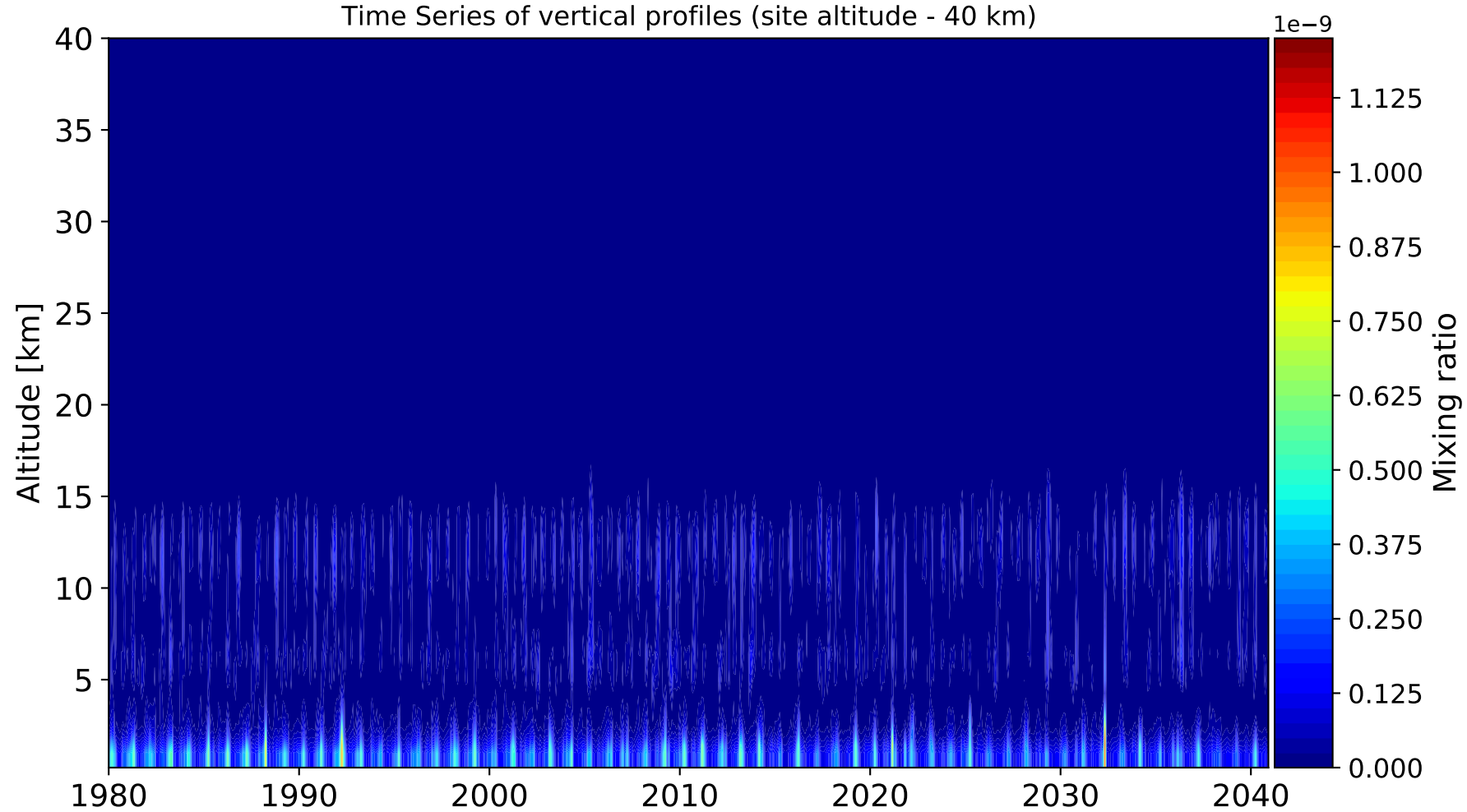


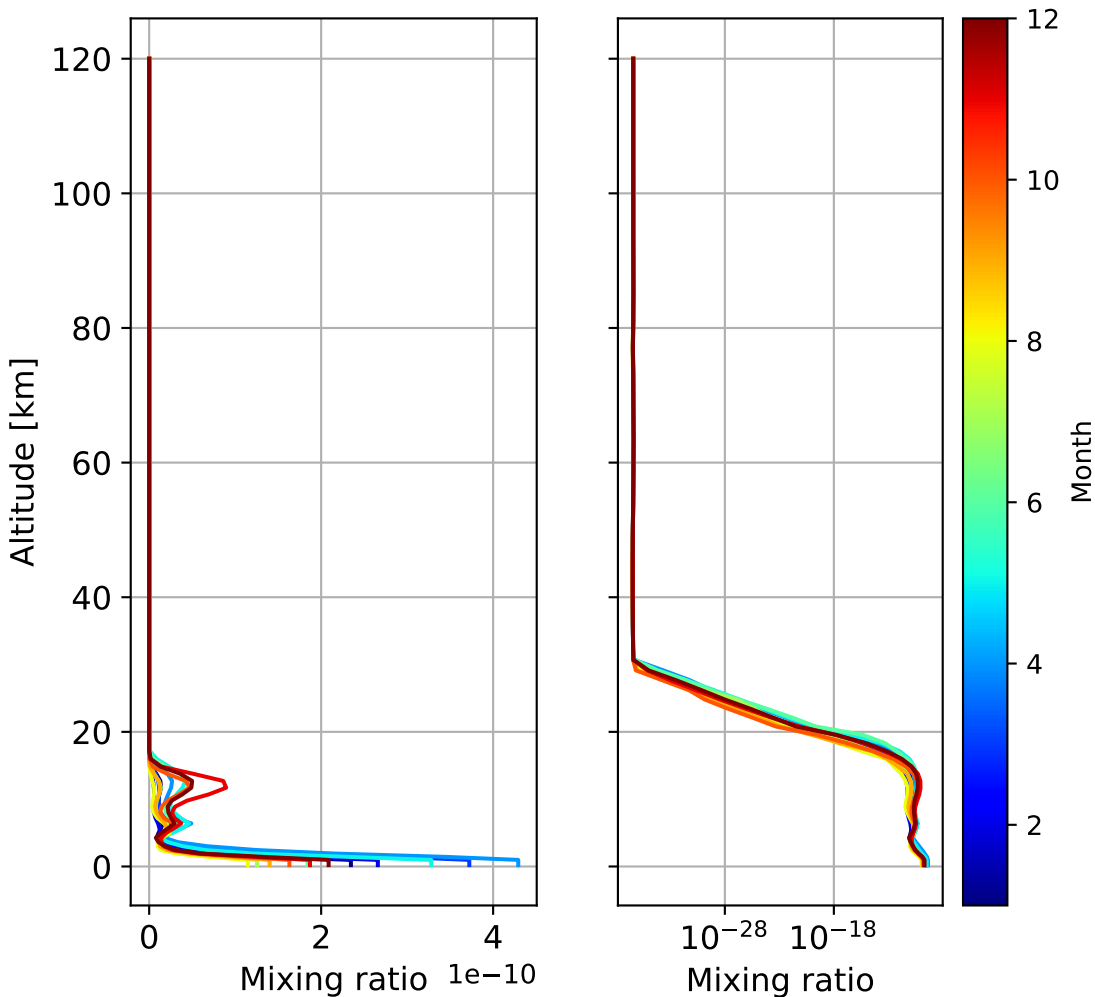
Time Series of vertical profiles (site altitude - 120 km)



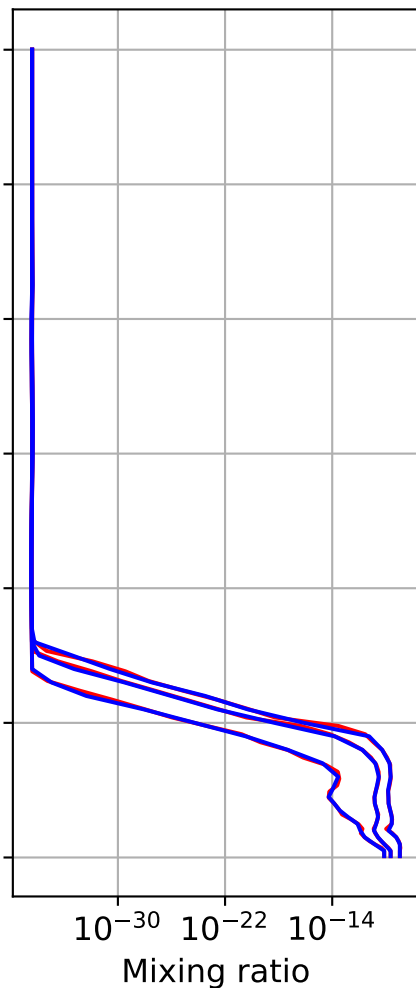
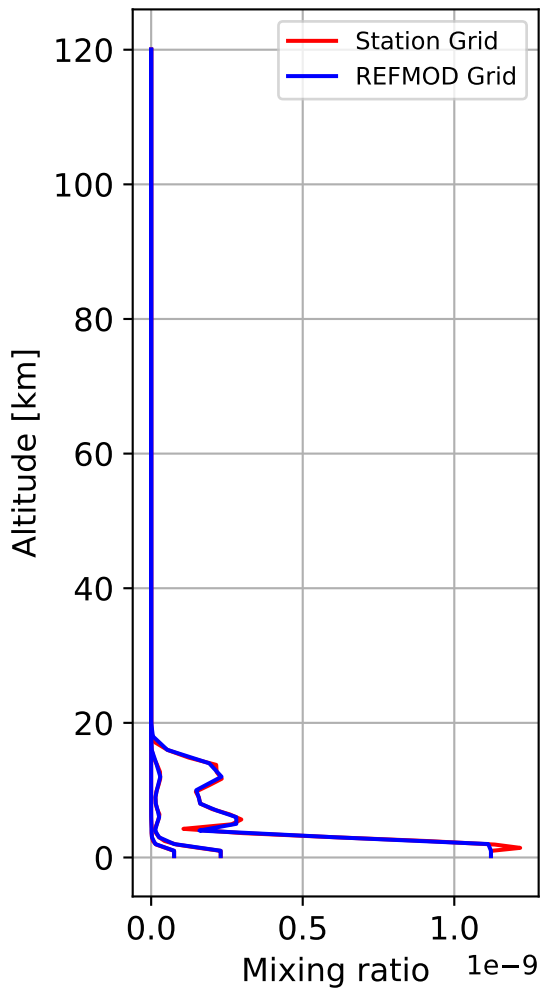
Time Series of vertical profiles (site altitude - 40 km)



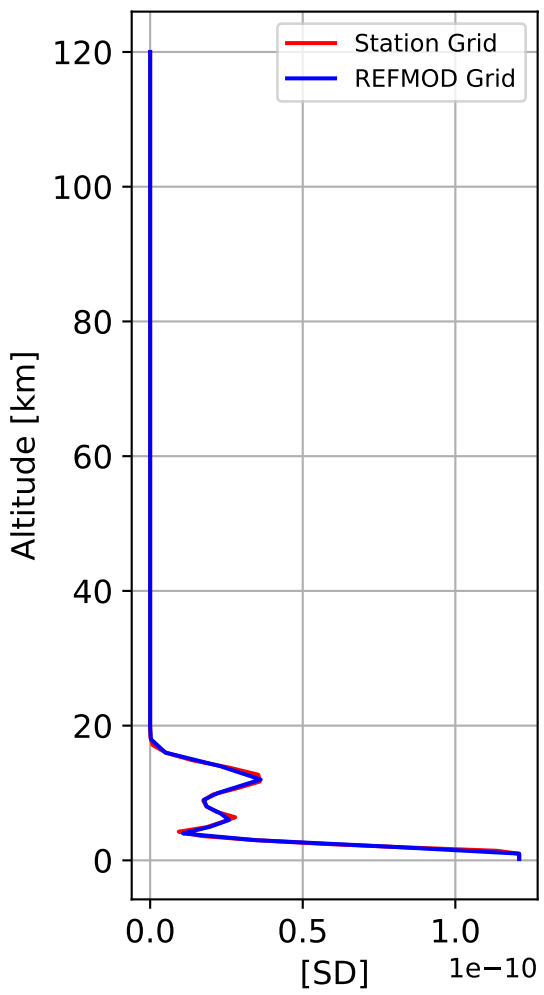
# Monthly mean WACCM profile (interpolated to station grid) Kampala, 0.31N, 32.58E, 0.2kmasl



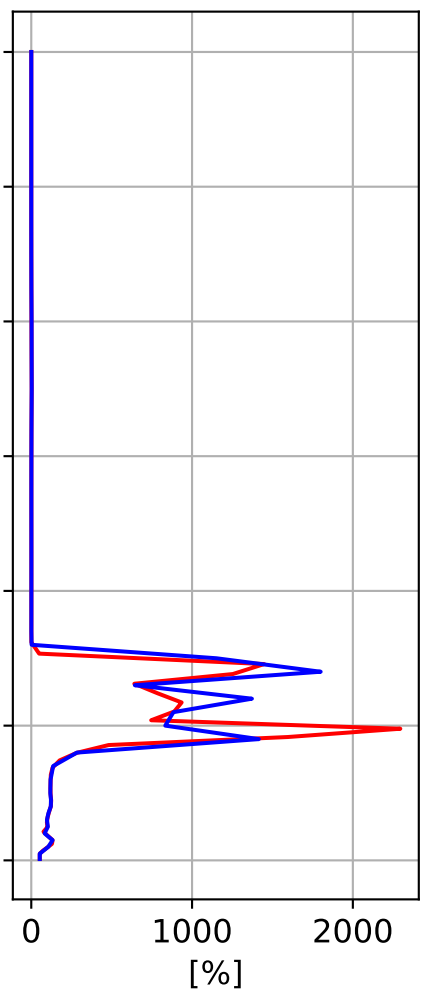
Min, Max, Mean of 732 profiles  
Kampala, 0.31N, 32.58E, 0.2kmasl



### 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]

1.44  
1.26  
1.08  
0.90  
0.72  
0.54  
0.36  
0.18  
0.00

Mixing ratio[ $\sim 2$ ]

