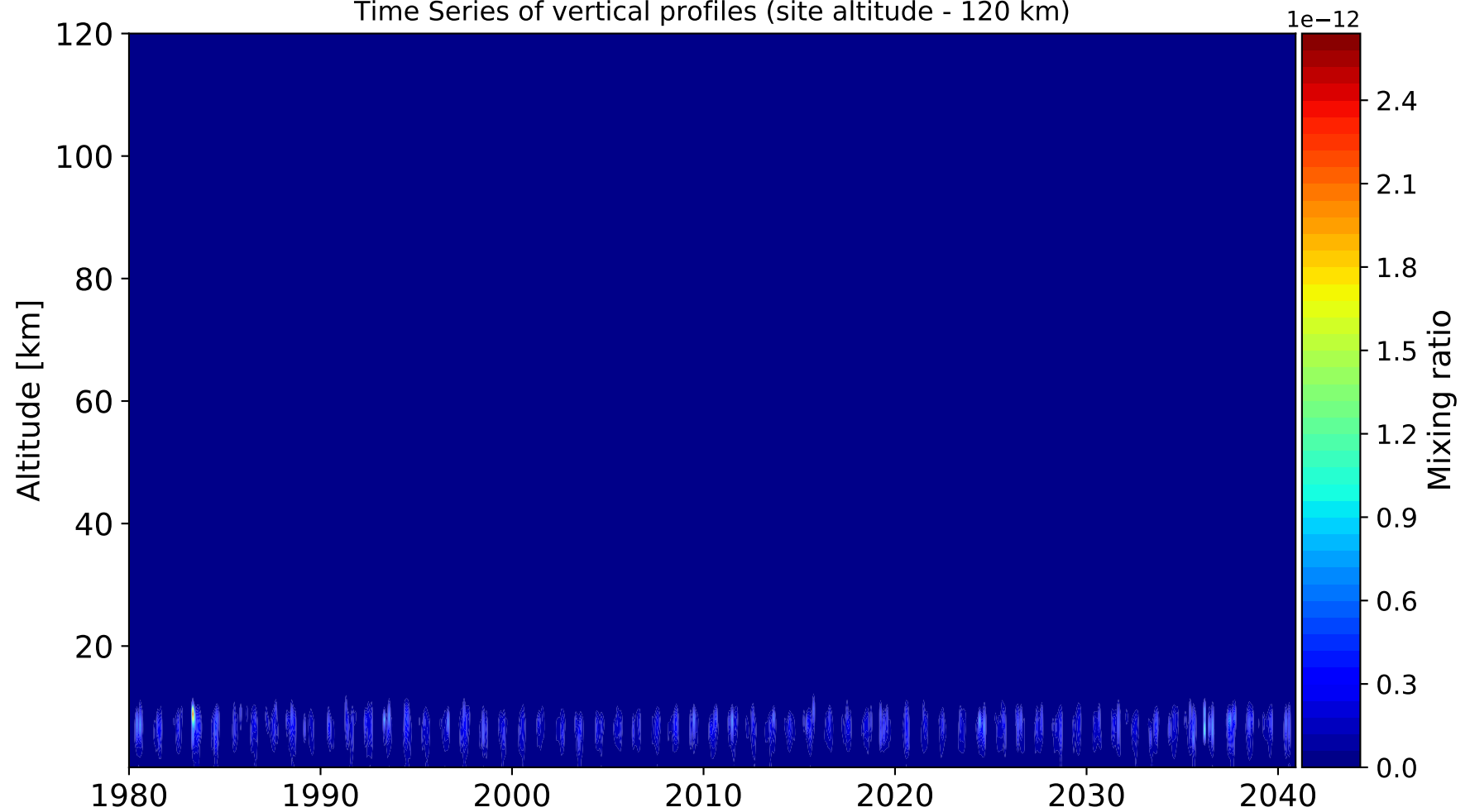
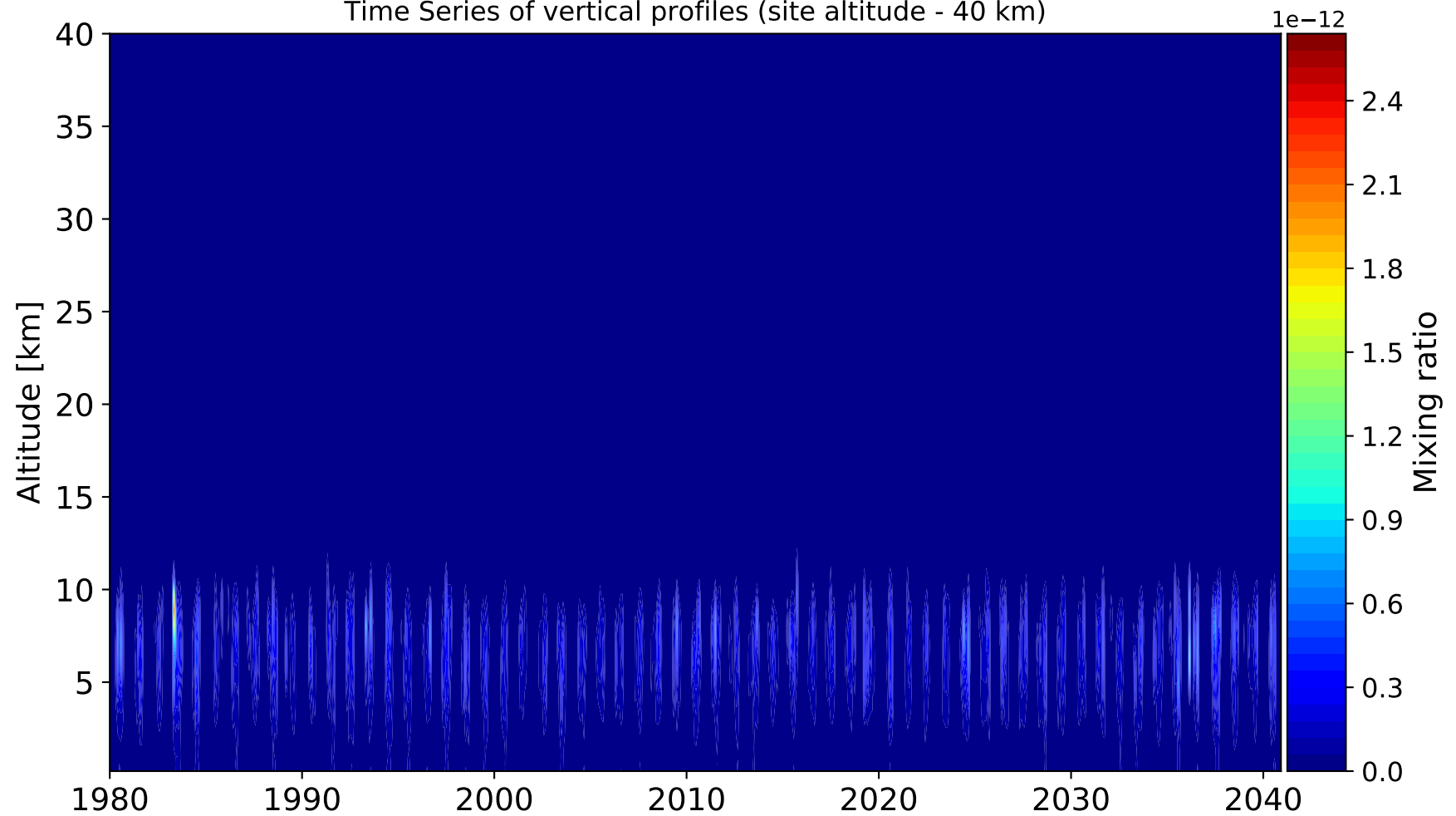


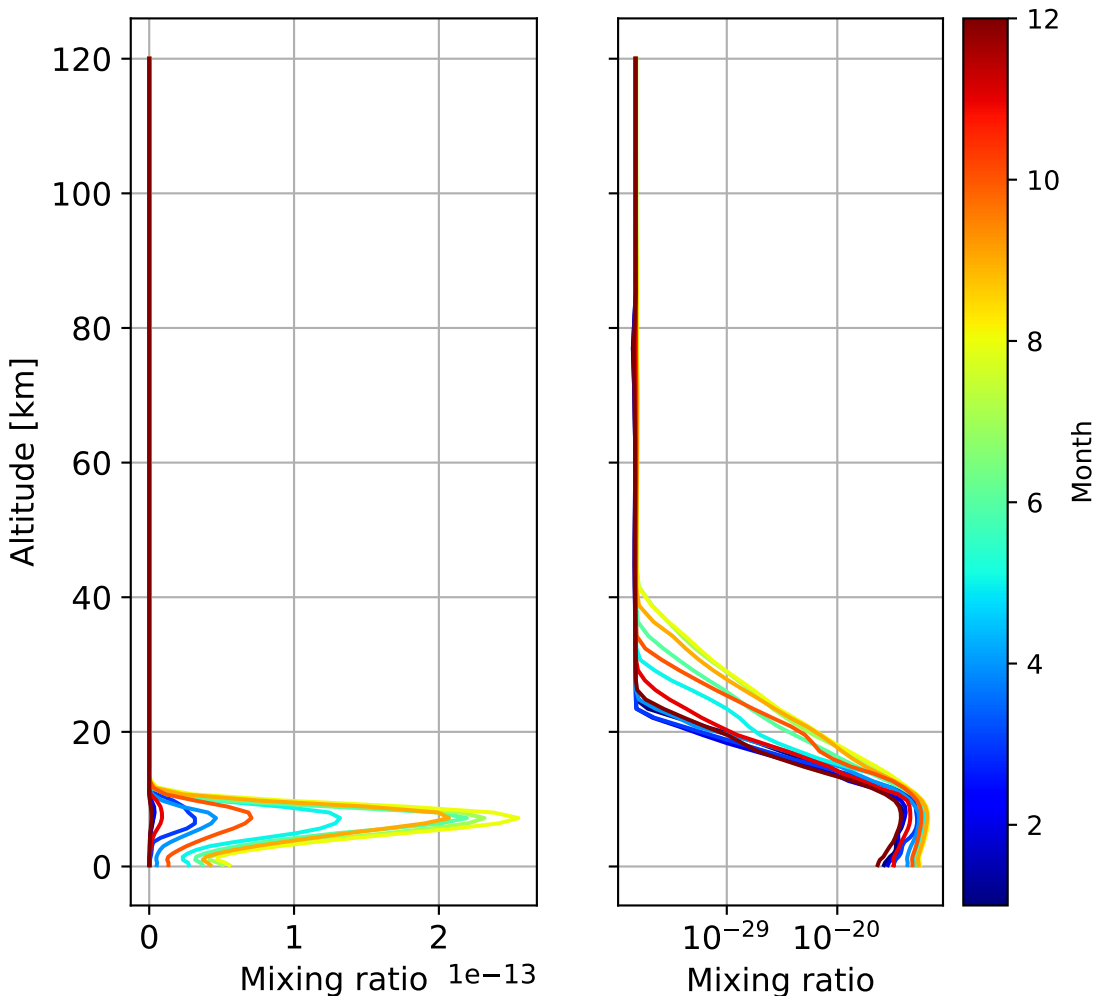
Time Series of vertical profiles (site altitude - 120 km)



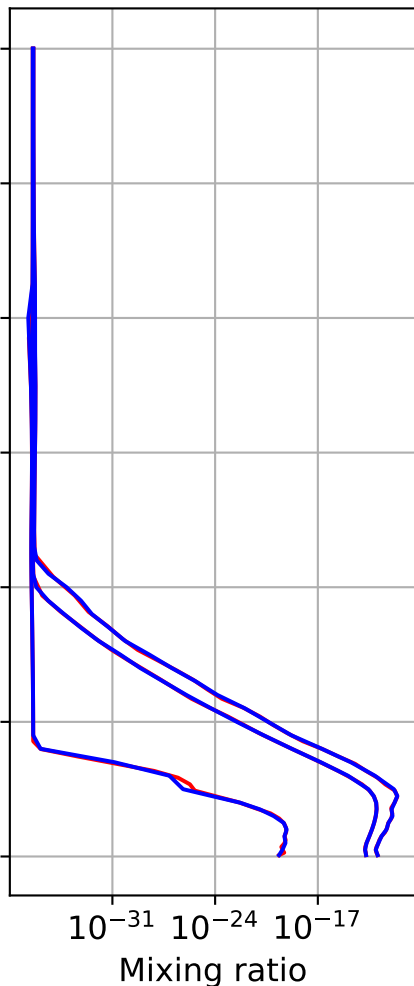
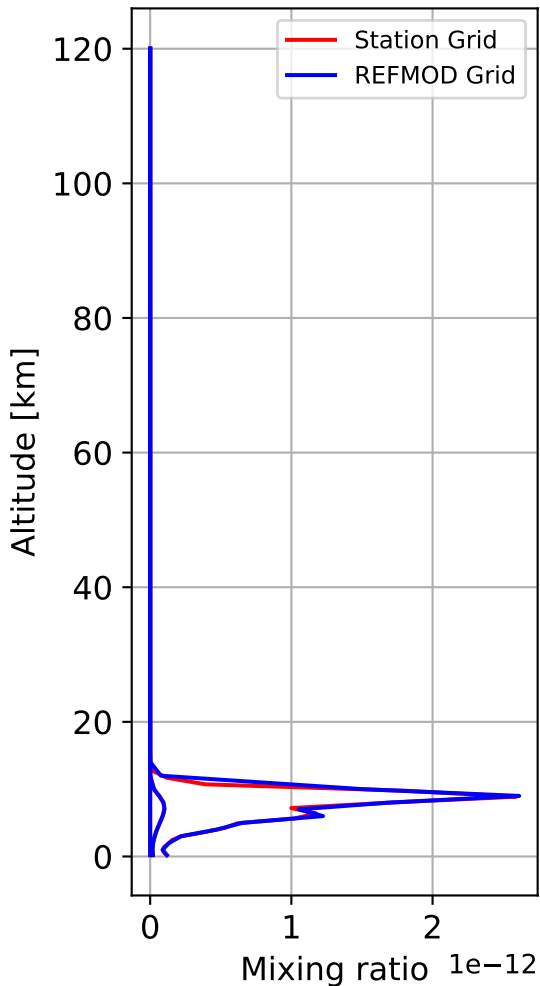
Time Series of vertical profiles (site altitude - 40 km)



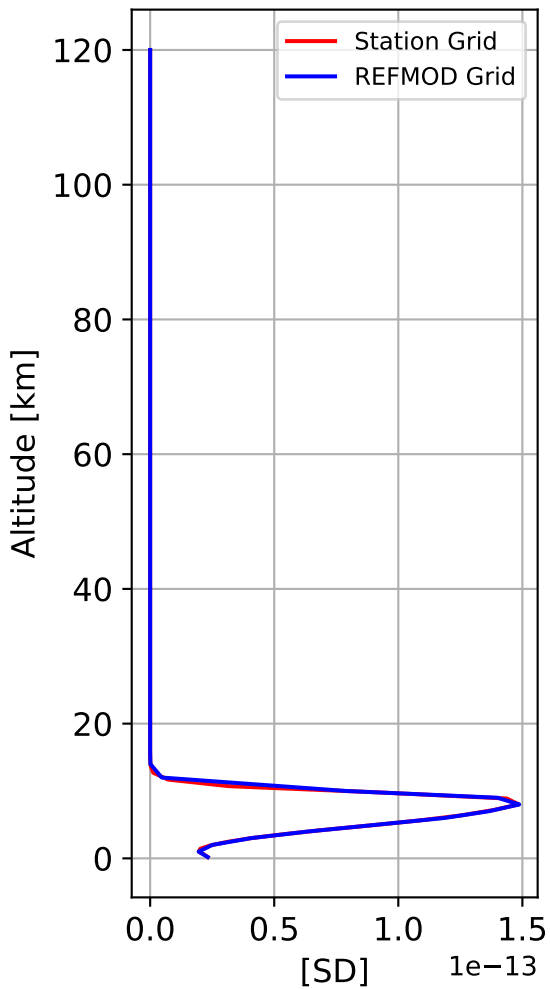
Monthly mean WACCM profile (interpolated to station grid)  
Arrival\_Heights, -78.83N, 166.66E, 0.2kmasl



Min, Max, Mean of 732 profiles  
Arrival\_Heights, -78.83N, 166.66E, 0.2kmasl



Std. Deviation



Percent Deviation

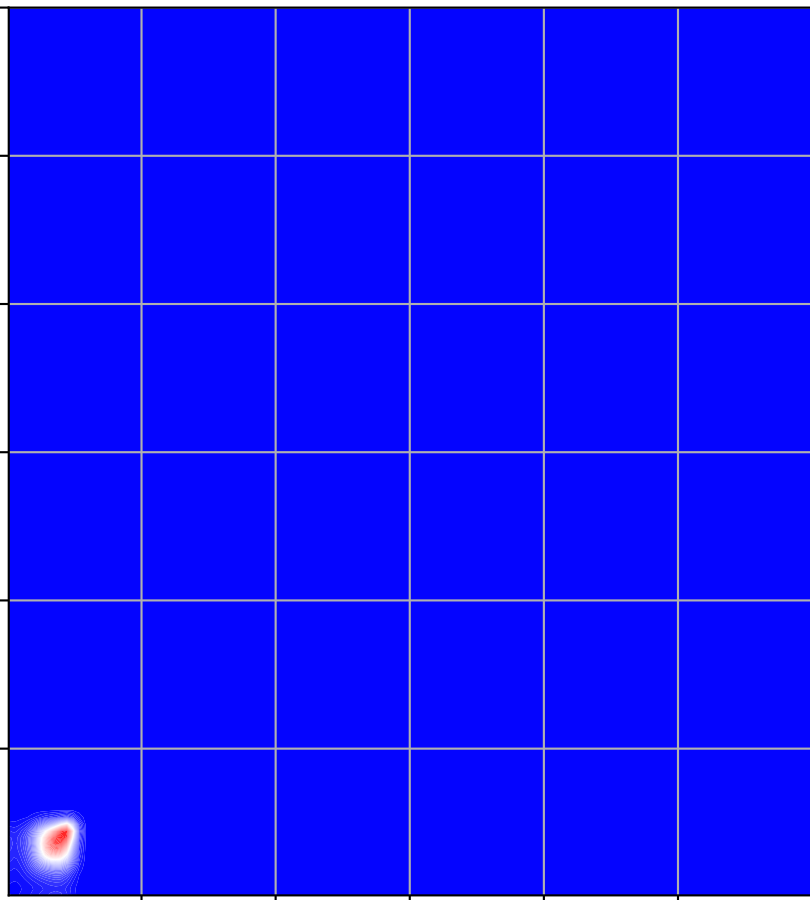


# Level covariance matrix

$1e-26$

Altitude [km]

120  
100  
80  
60  
40  
20



Mixing ratio[ $\wedge$ 2]

2.25  
2.00  
1.75  
1.50  
1.25  
1.00  
0.75  
0.50  
0.25  
0.00

20 40 60 80 100 120

Altitude [km]