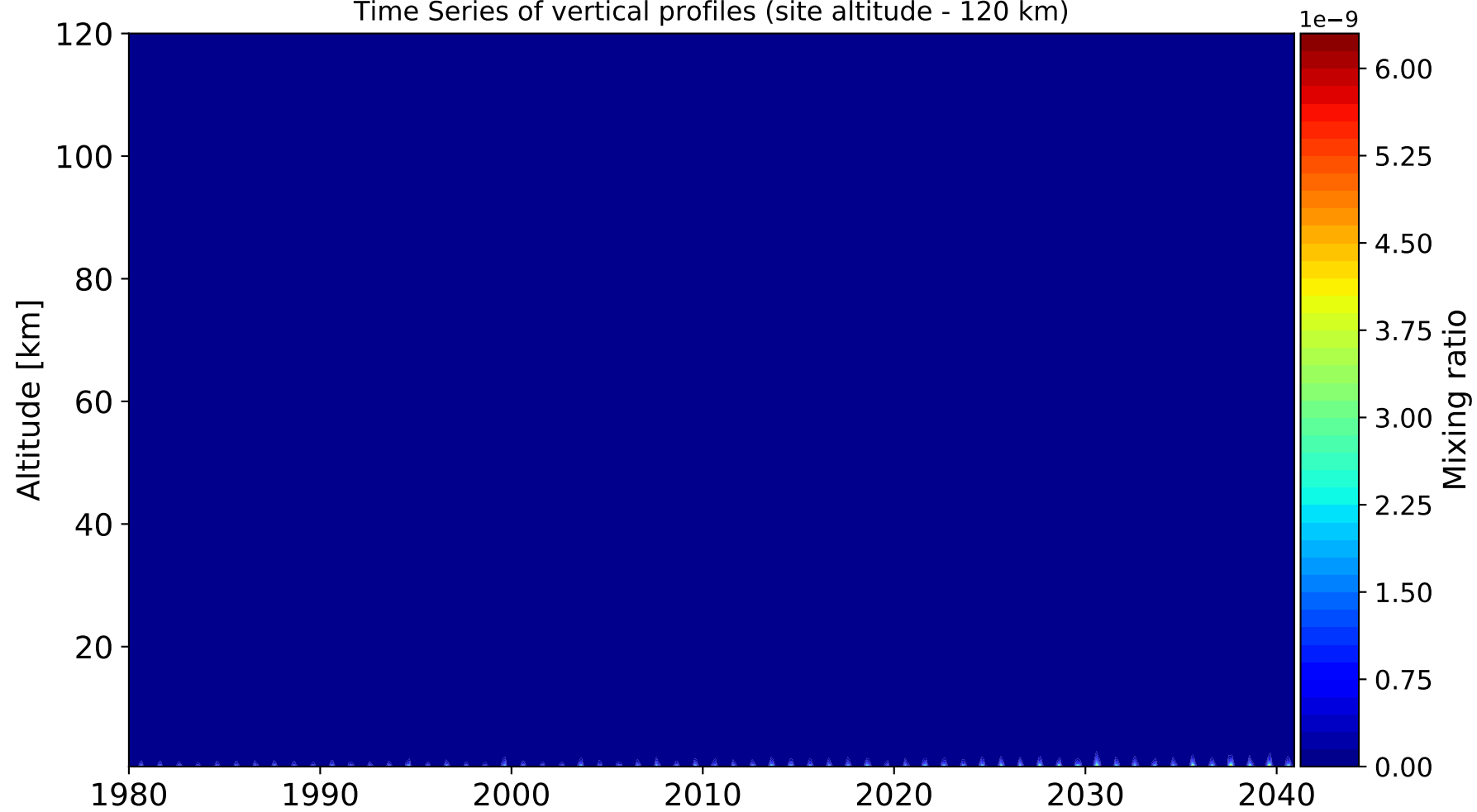
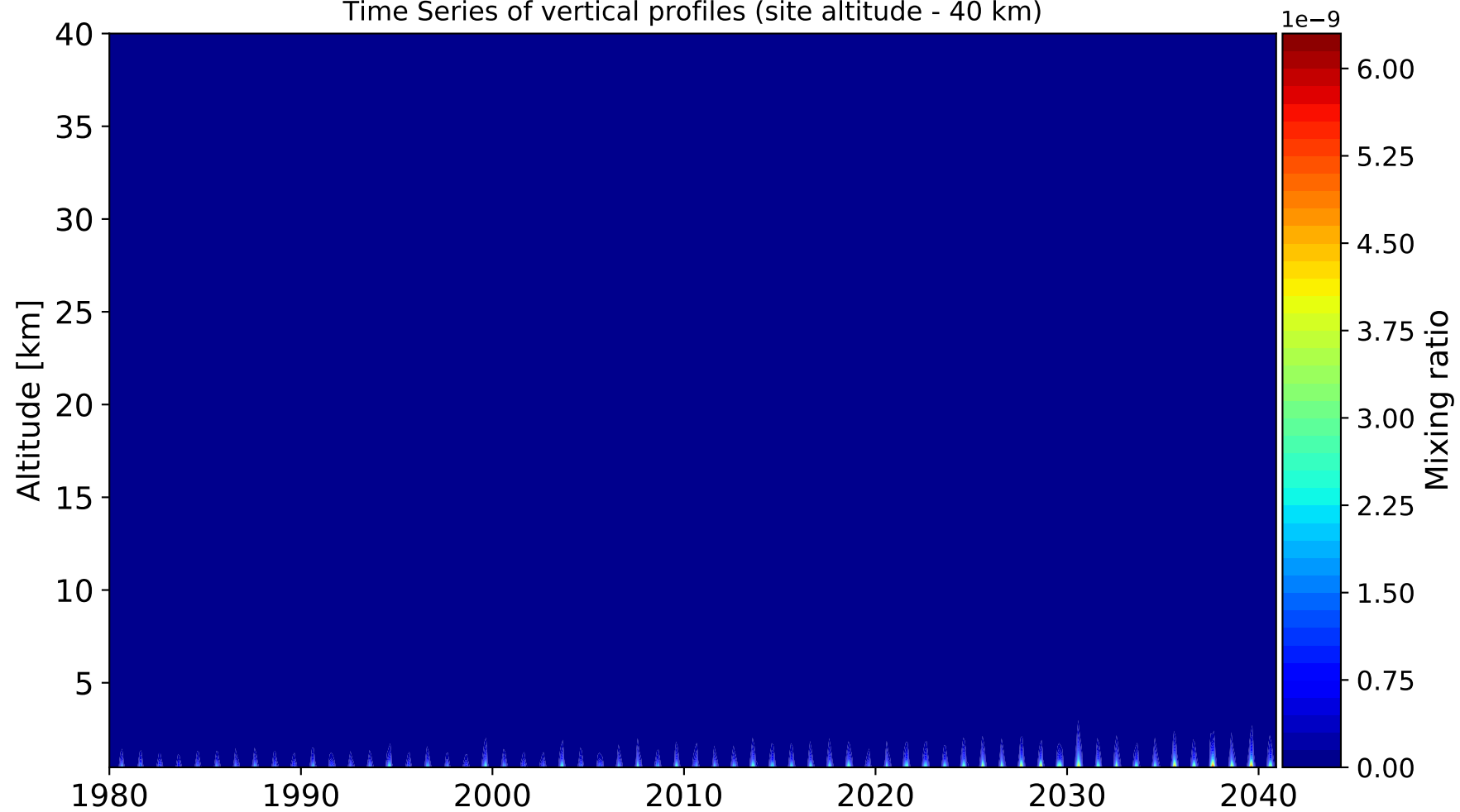


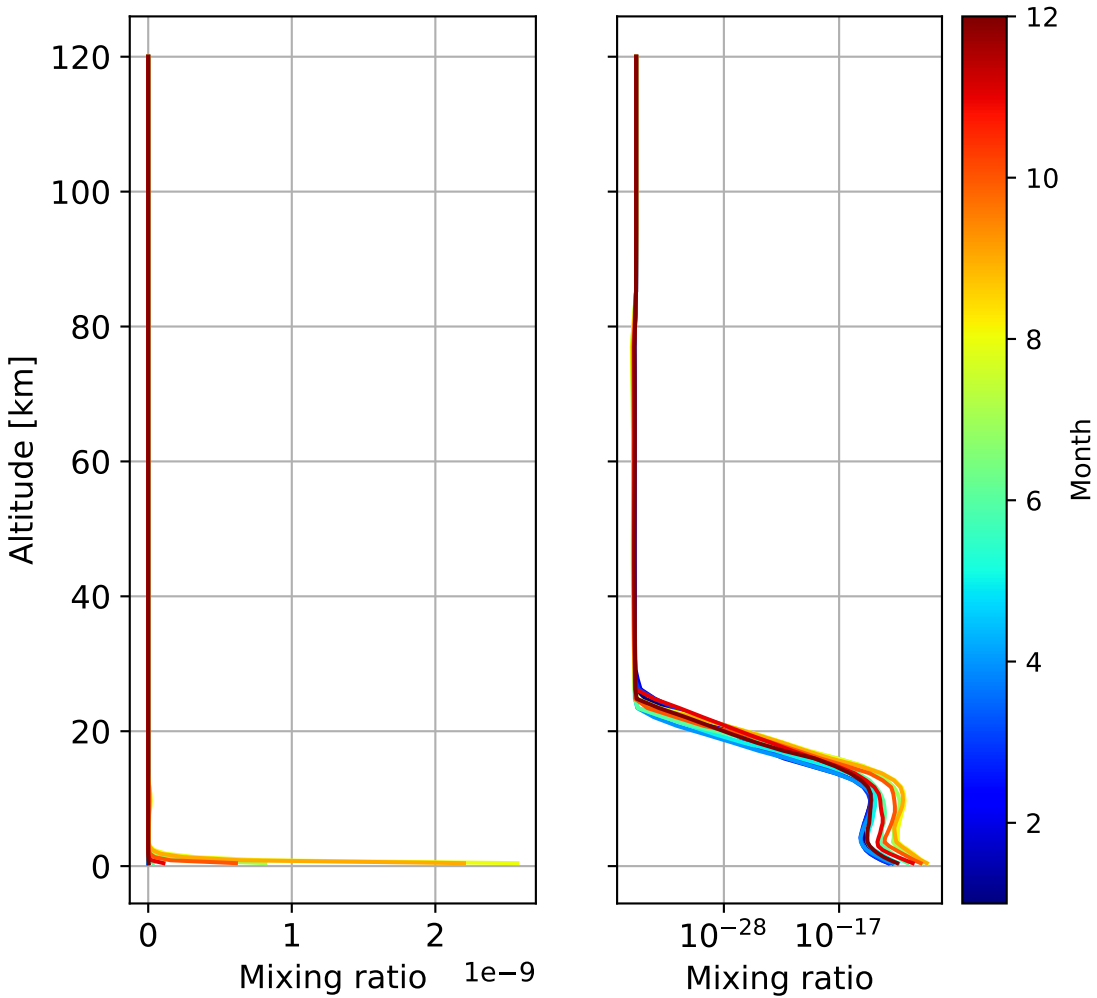
Time Series of vertical profiles (site altitude - 120 km)



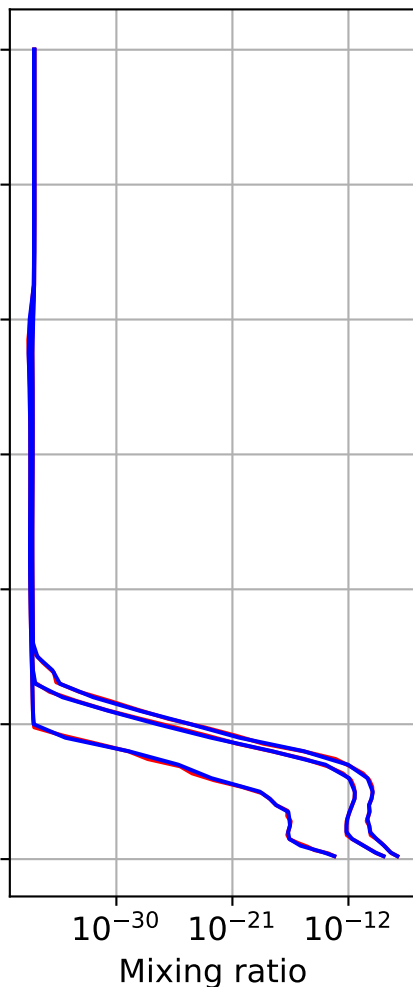
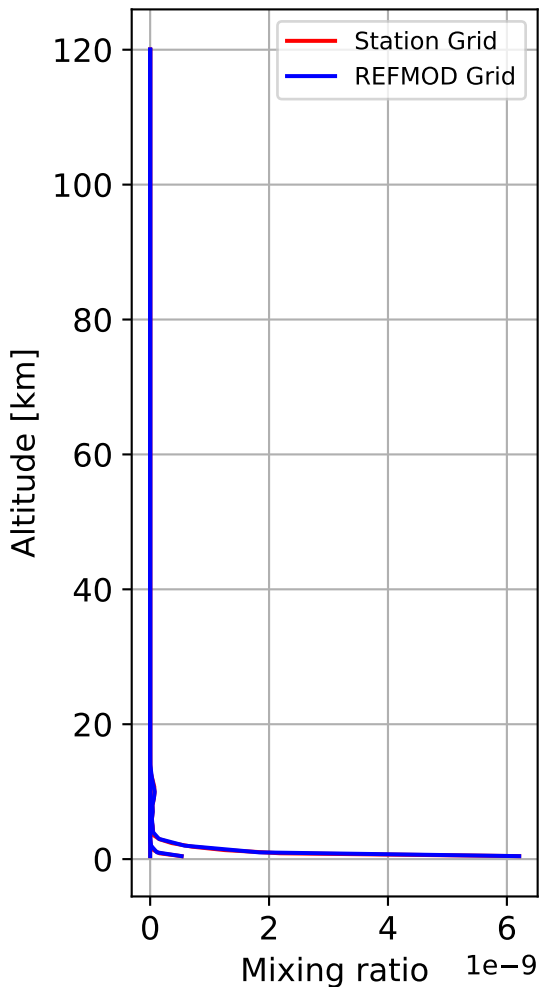
Time Series of vertical profiles (site altitude - 40 km)



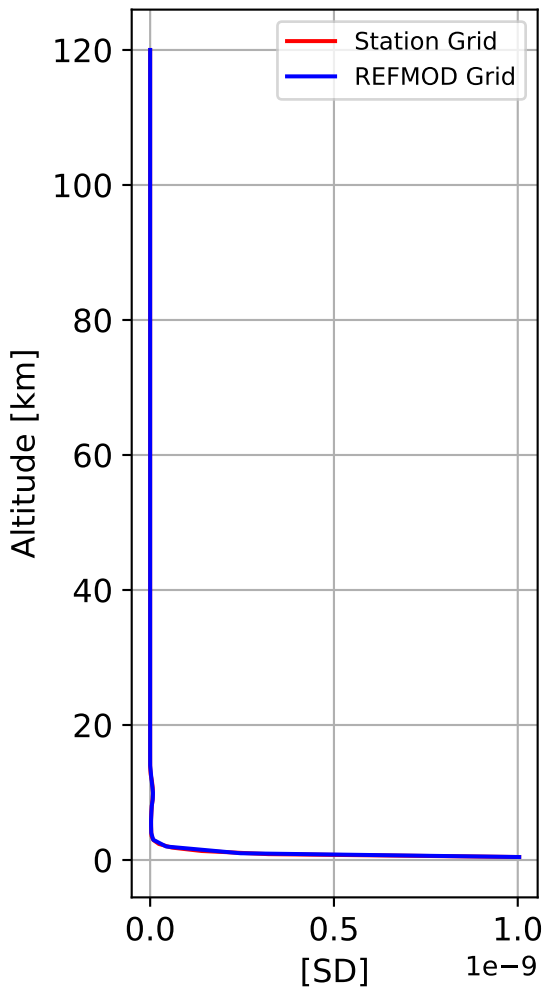
# Monthly mean WACCM profile (interpolated to station grid) Park\_Falls, 45.945N, 269.727E, 0.442kmasl



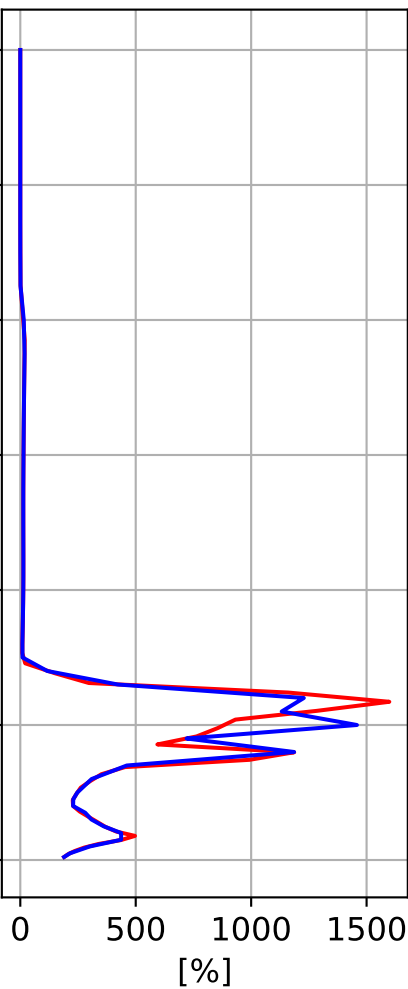
Min, Max, Mean of 732 profiles  
Park\_Falls, 45.945N, 269.727E, 0.442kmasl



### Std. Deviation



### Percent Deviation



# Level covariance matrix

1e-19

Altitude [km]

120  
100  
80  
60  
40  
20

20

Altitude [km]

20

40

60

80

100

120

Mixing ratio<sup>2</sup>

9.6  
8.4  
7.2  
6.0  
4.8  
3.6  
2.4  
1.2  
0.0

