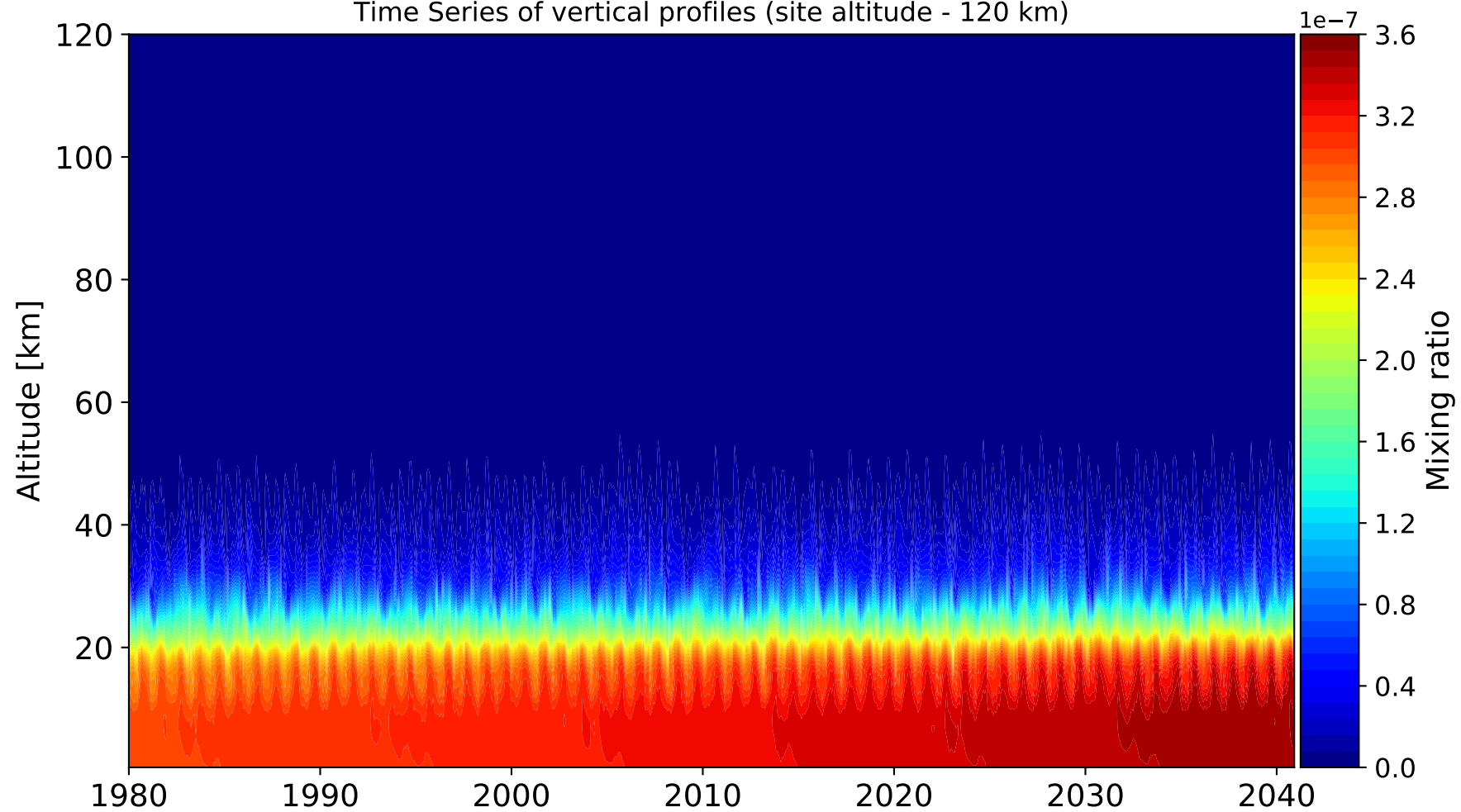
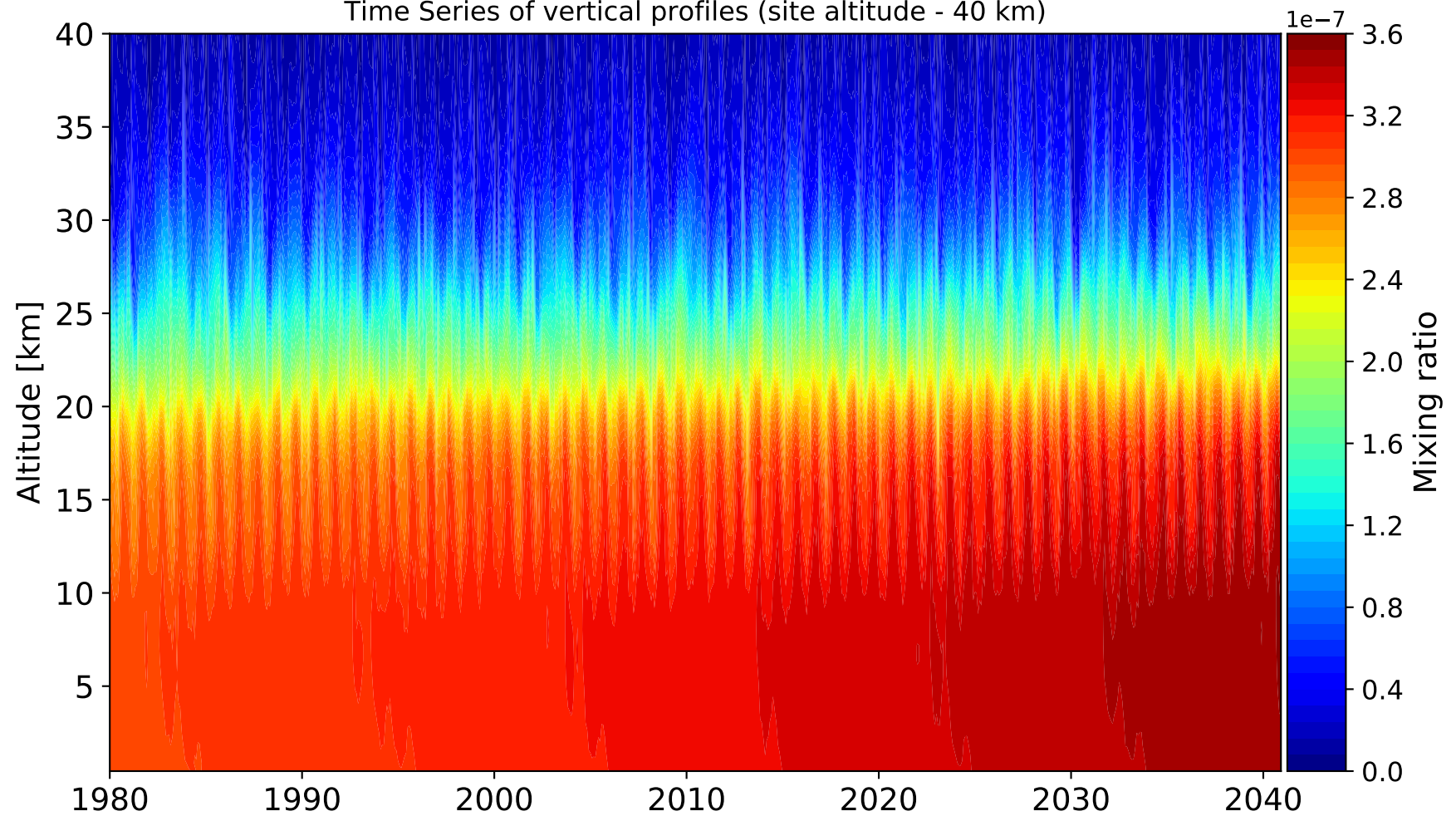


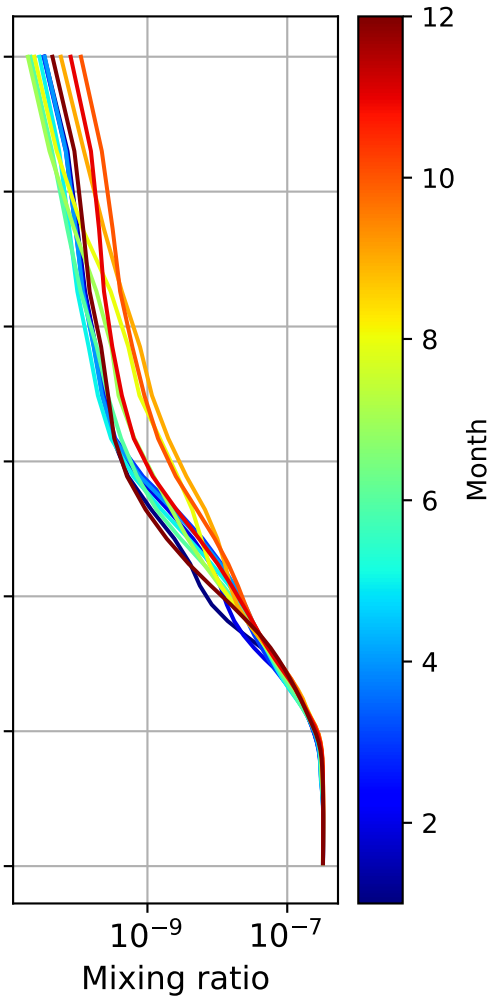
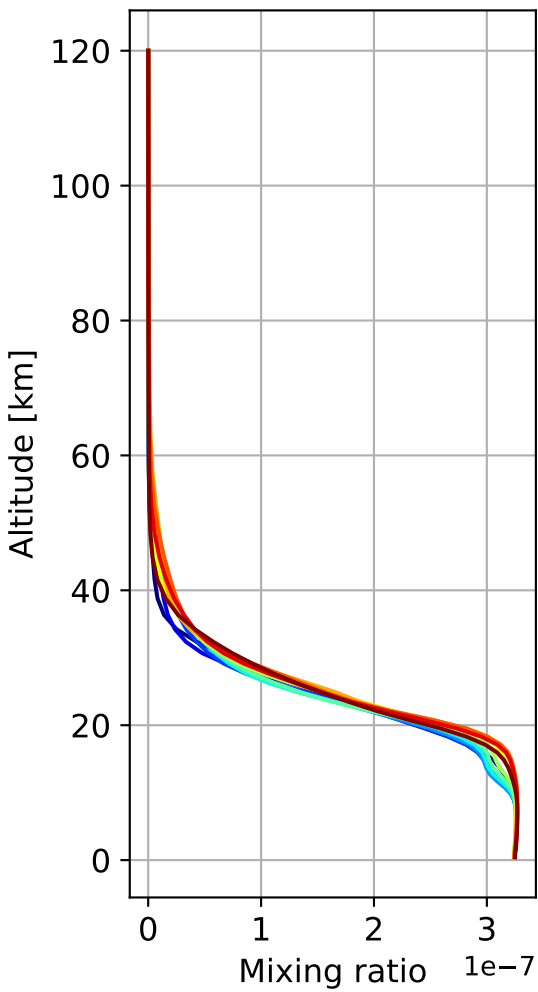
Time Series of vertical profiles (site altitude - 120 km)



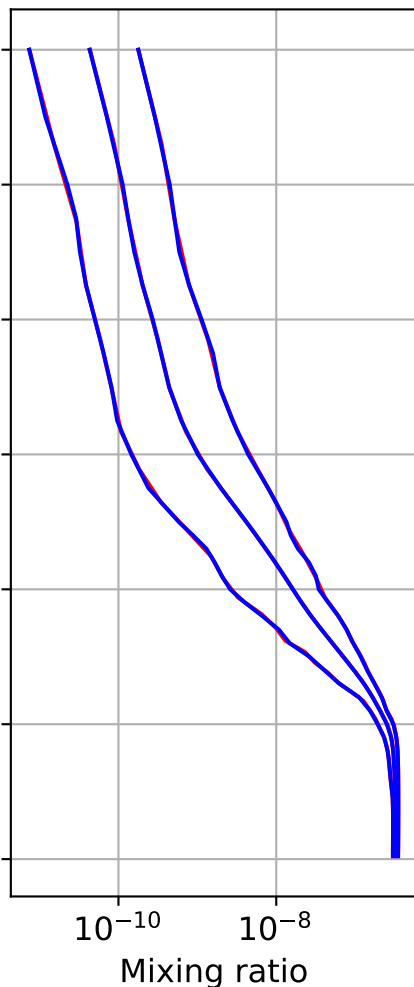
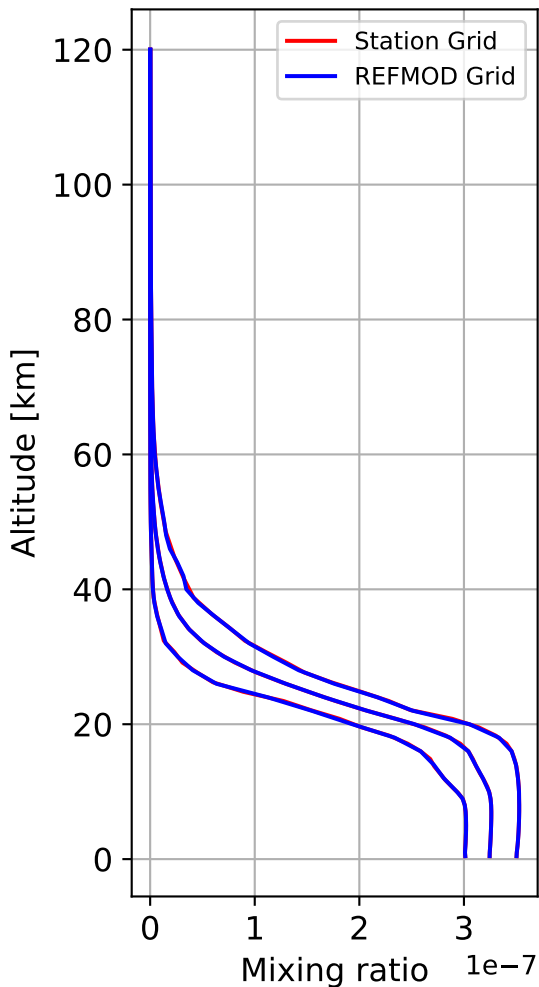
Time Series of vertical profiles (site altitude - 40 km)



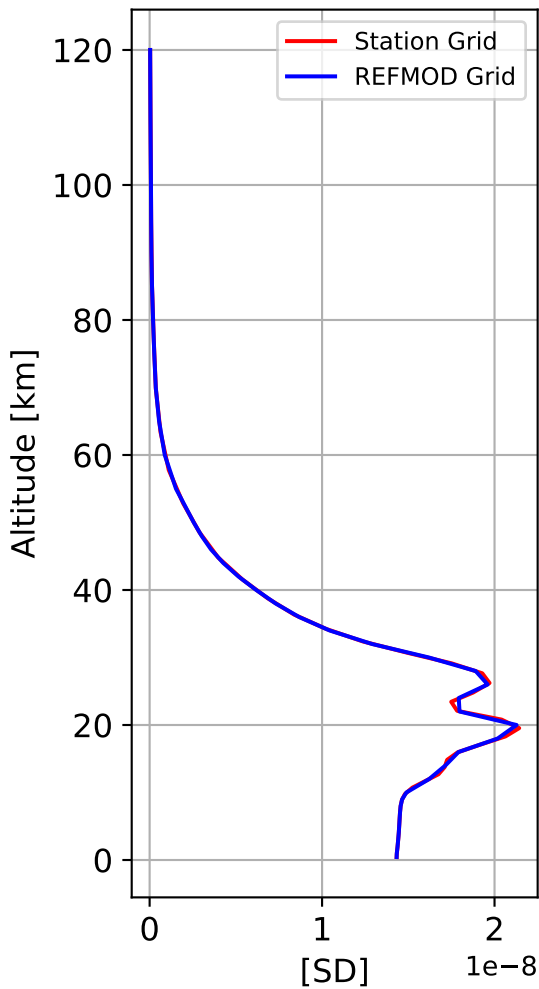
# Monthly mean WACCM profile (interpolated to station grid) Park\_Falls, 45.945N, 269.727E, 0.442kmasl



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



### Std. Deviation



### Percent Deviation

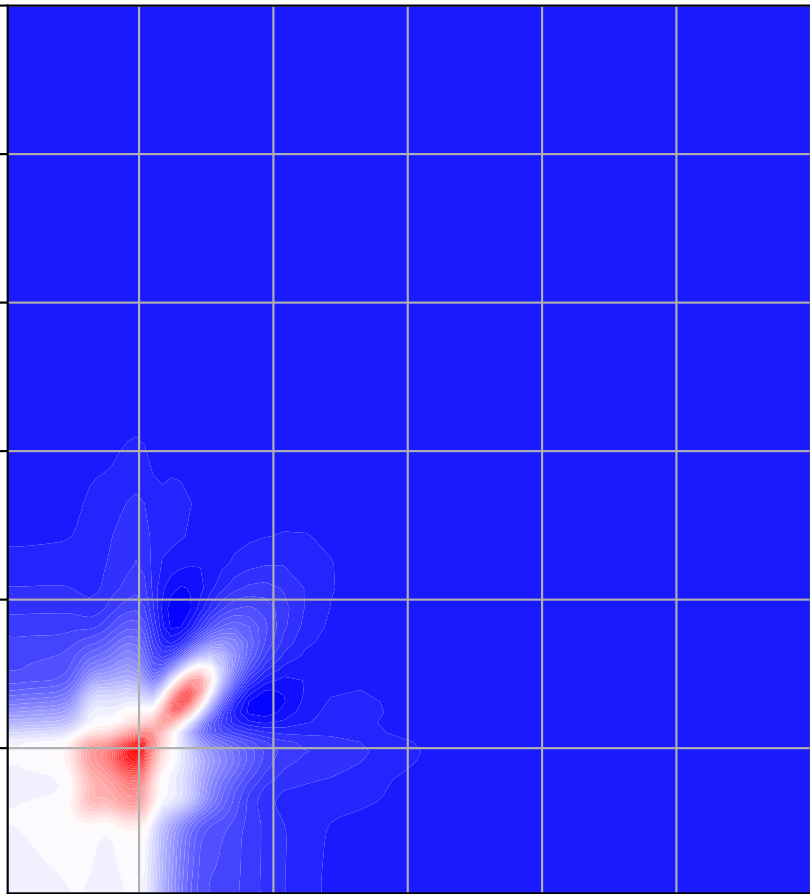


Level covariance matrix

$1e-16$

Altitude [km]

120  
100  
80  
60  
40  
20



Mixing ratio<sup>2</sup>

4.5  
4.0  
3.5  
3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

20 40 60 80 100 120

Altitude [km]