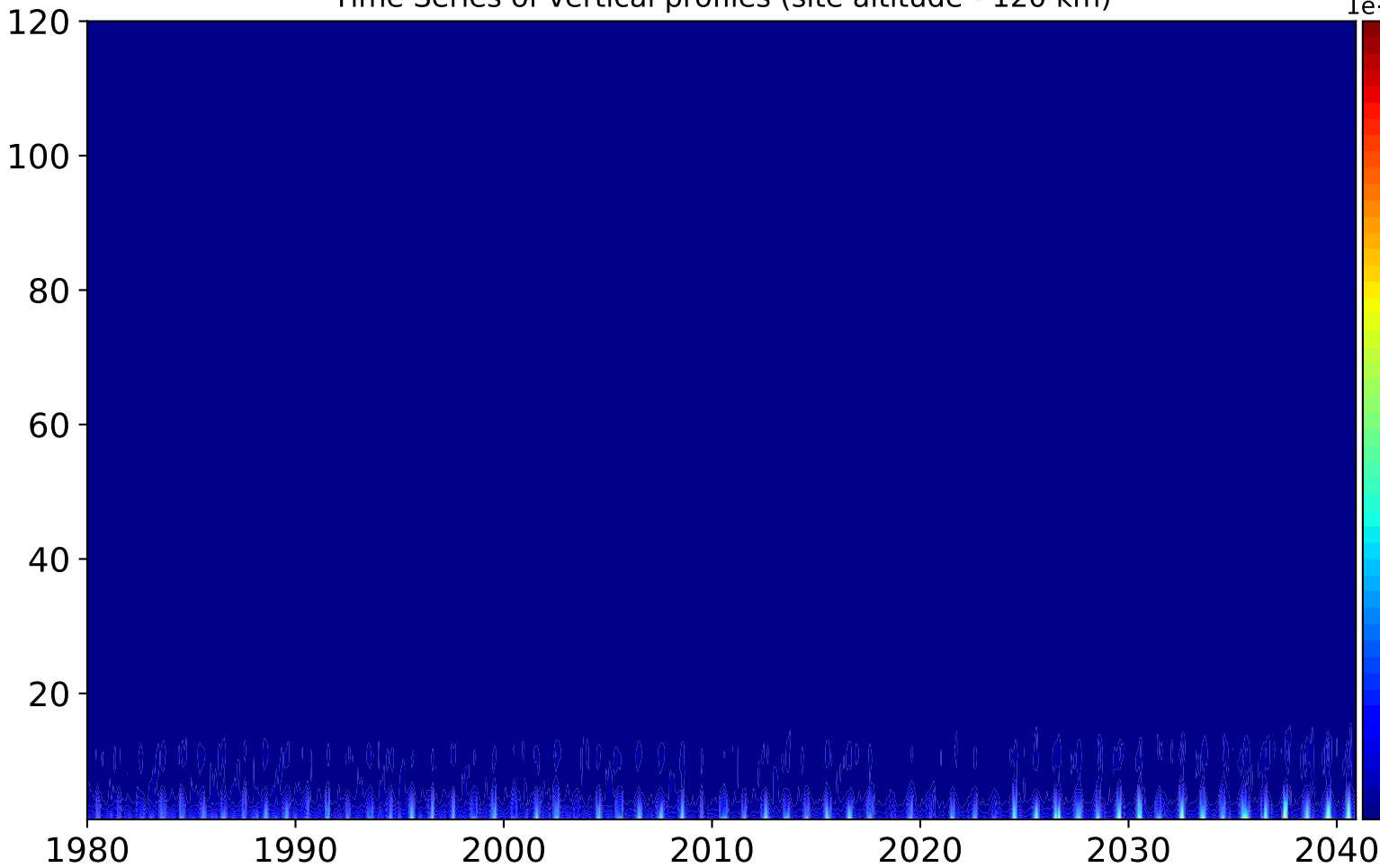


Time Series of vertical profiles (site altitude - 120 km)

$1e-10$

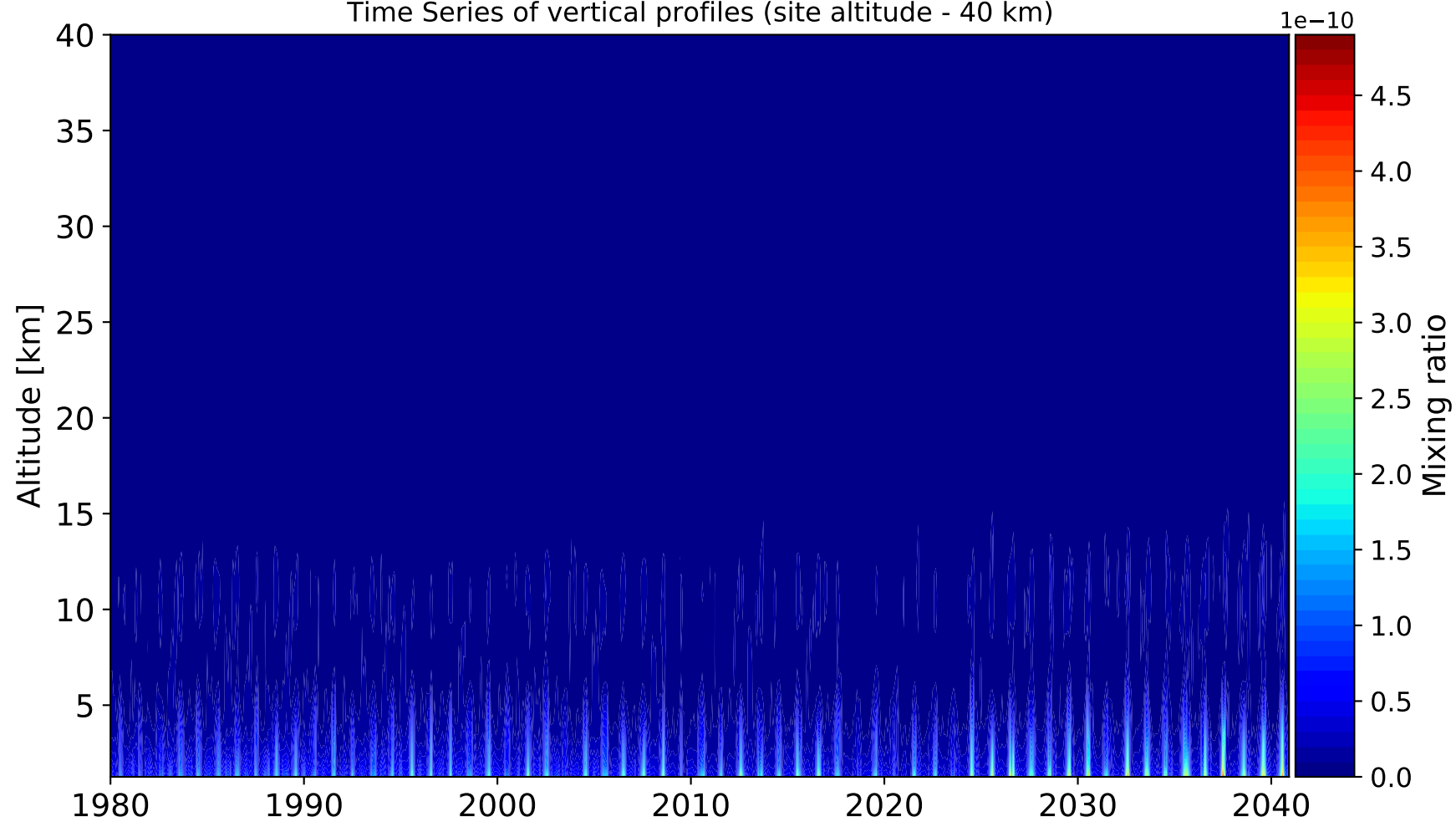
Altitude [km]



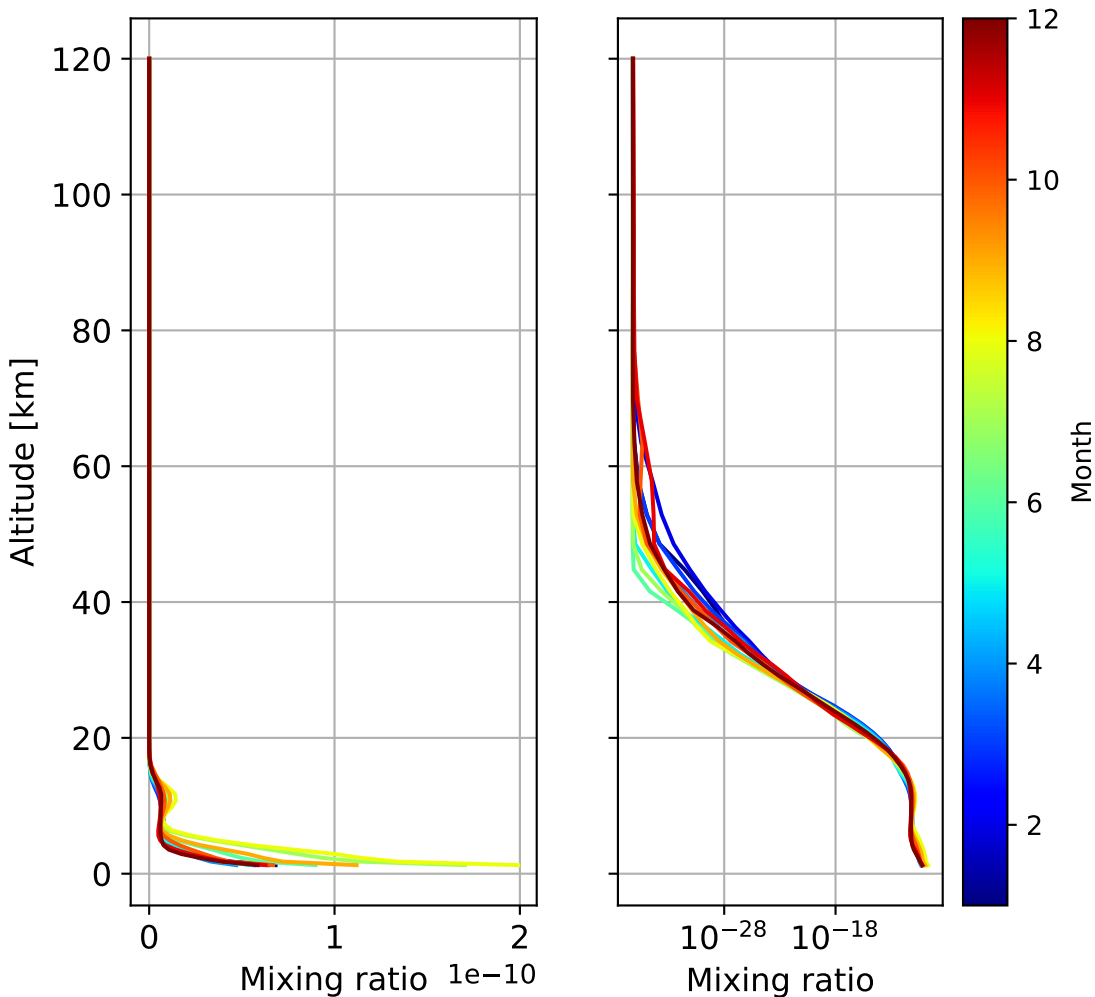
Mixing ratio

4.5  
4.0  
3.5  
3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0.0

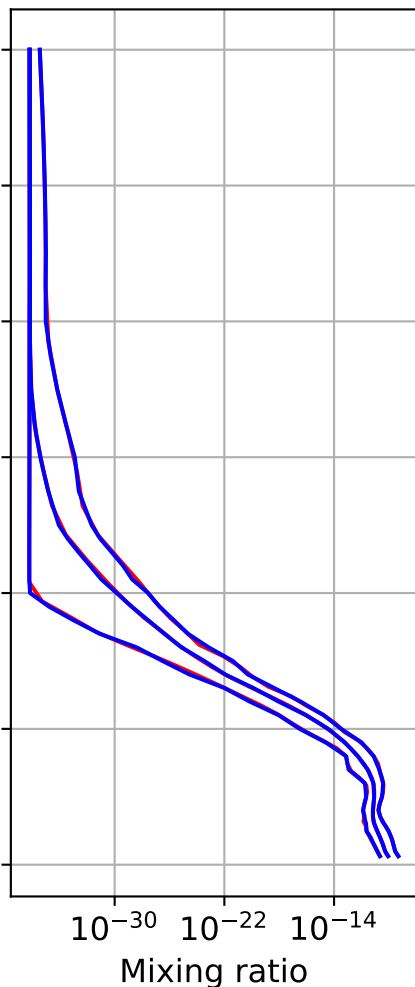
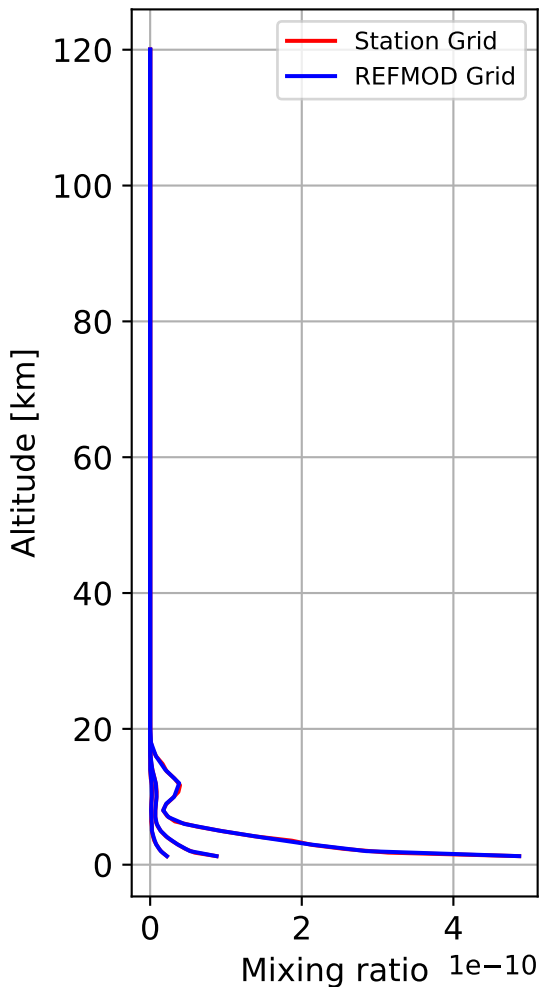
Time Series of vertical profiles (site altitude - 40 km)



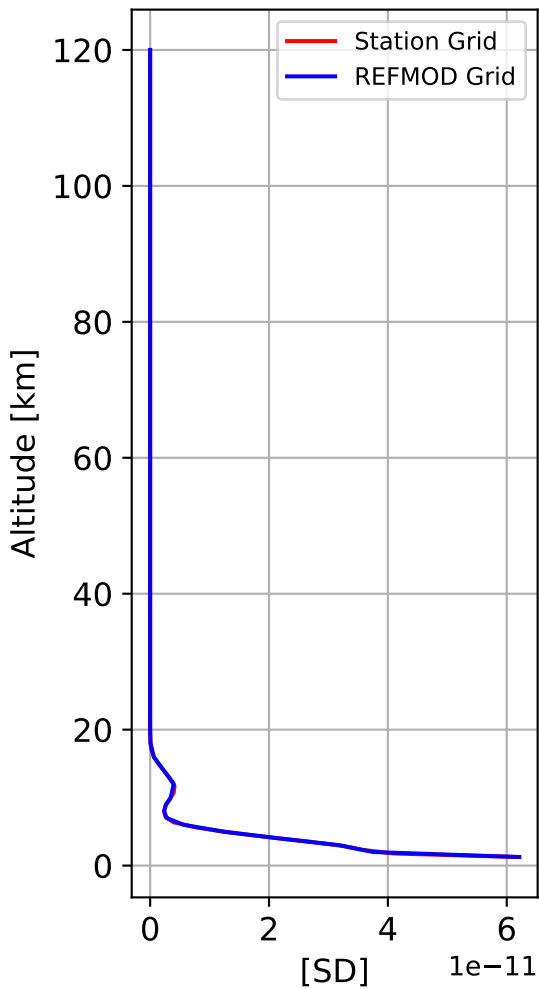
Monthly mean WACCM profile (interpolated to station grid)  
FtSumner, 34.48N, 255.78E, 1.26kmasl



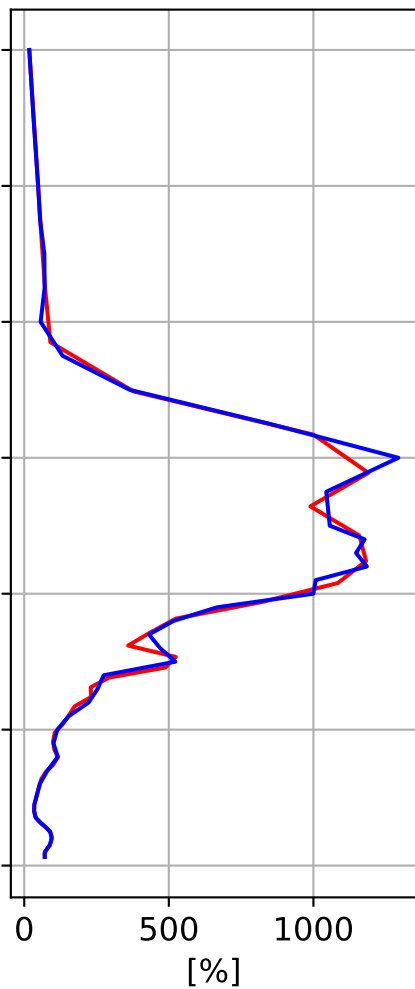
Min, Max, Mean of 732 profiles  
FtSumner, 34.48N, 255.78E, 1.26kmasl



Std. Deviation



Percent Deviation



# Level covariance matrix

$1e-21$

Altitude [km]

120  
100  
80  
60  
40  
20

20 40 60 80 100 120

Altitude [km]

Mixing ratio[ $\sim 2$ ]

3.84  
3.36  
2.88  
2.40  
1.92  
1.44  
0.96  
0.48  
0.00

