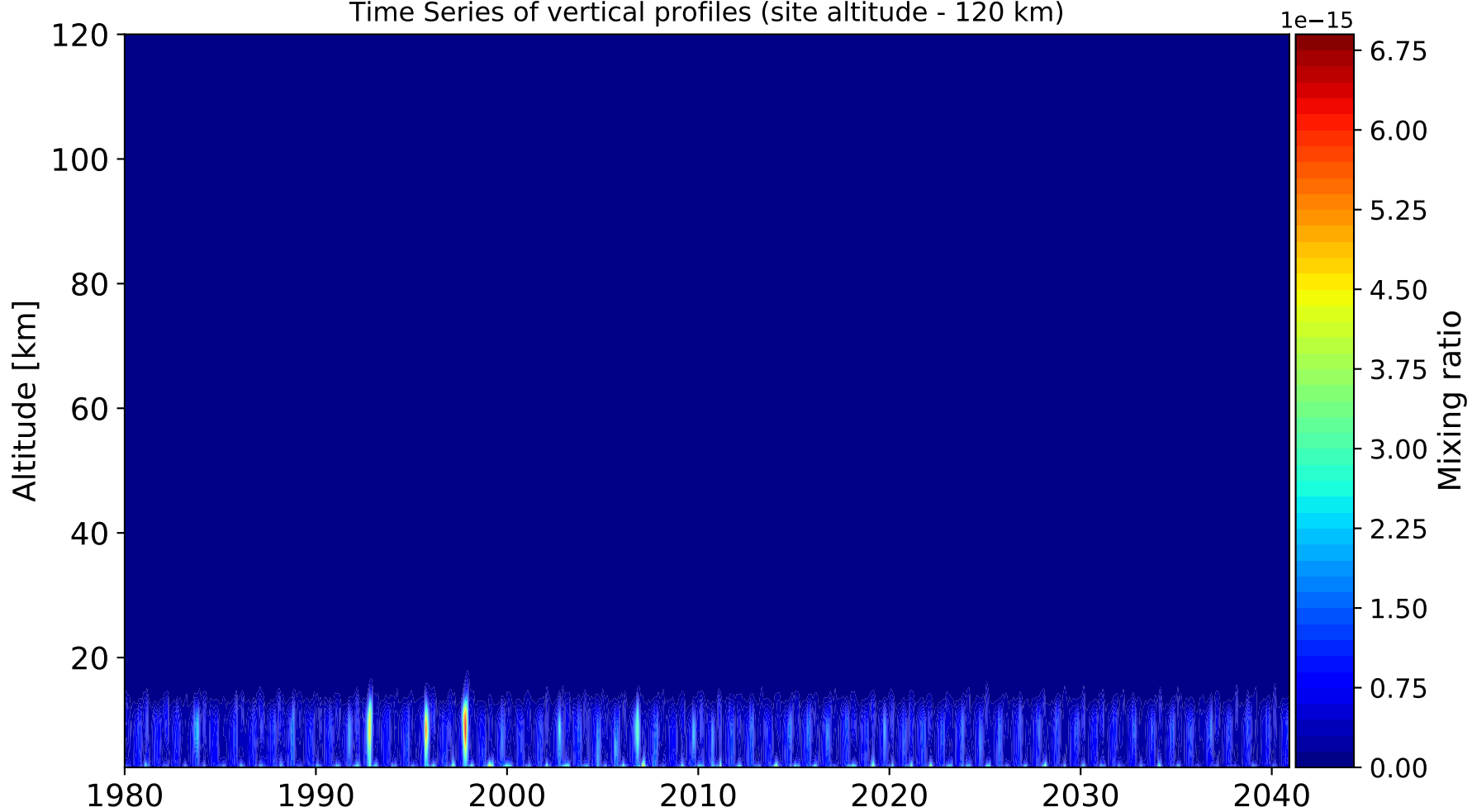
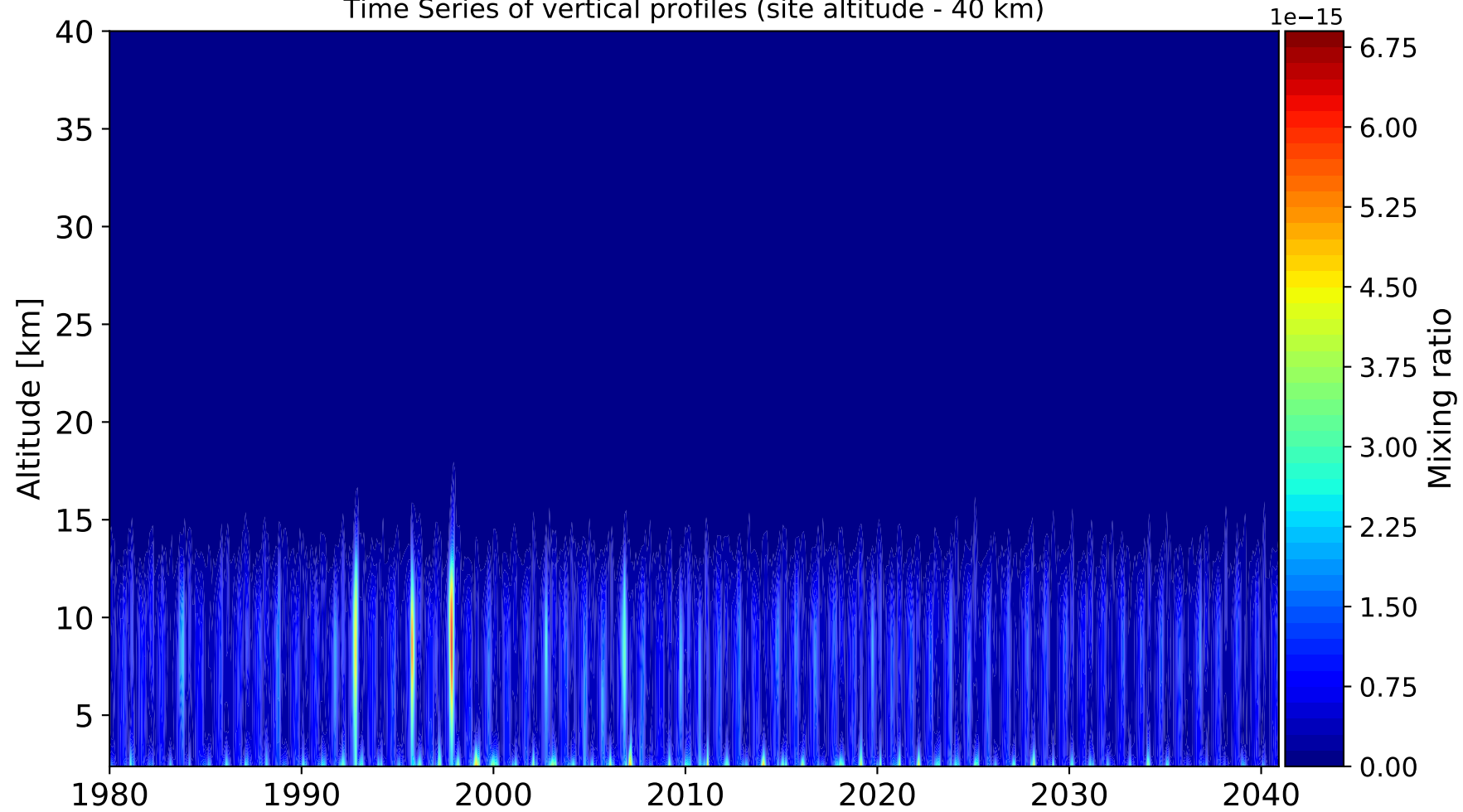


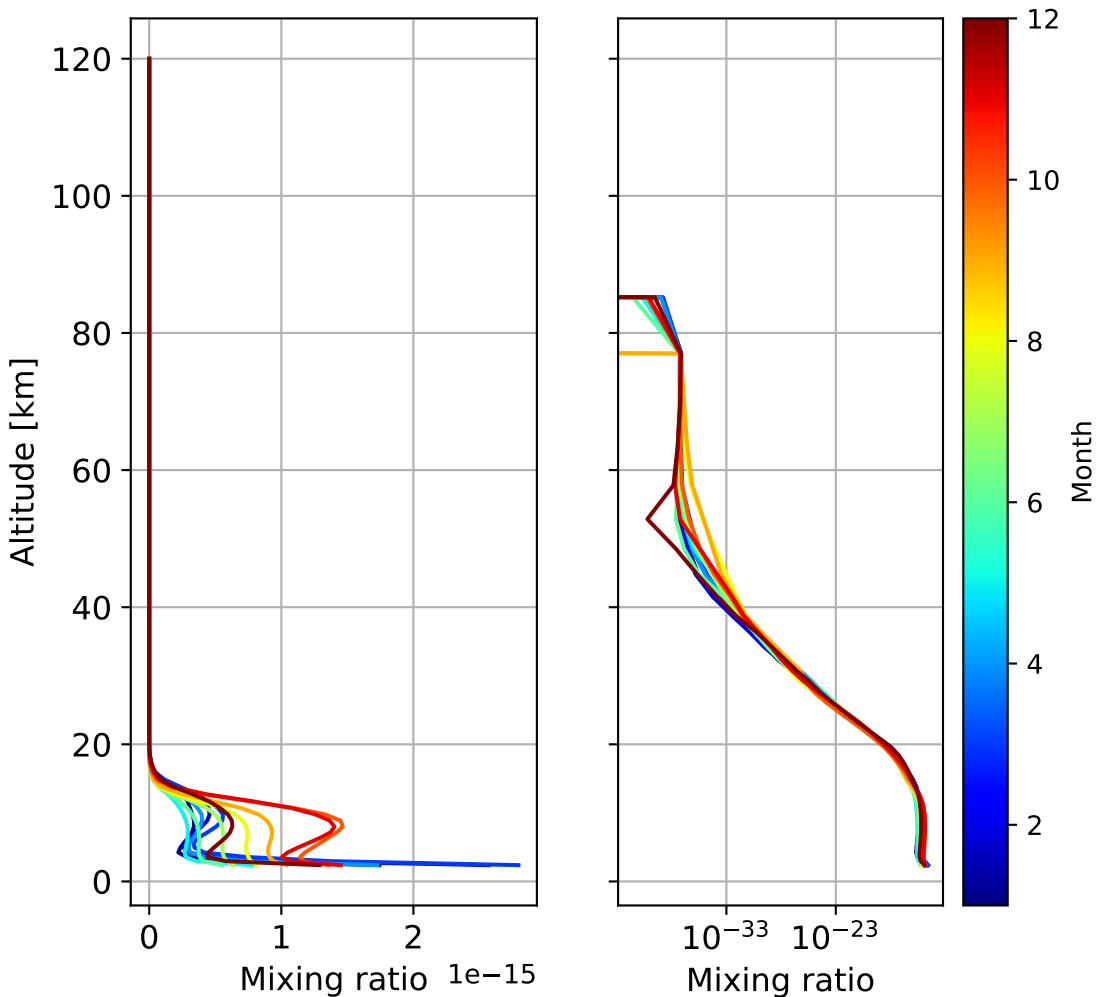
Time Series of vertical profiles (site altitude - 120 km)



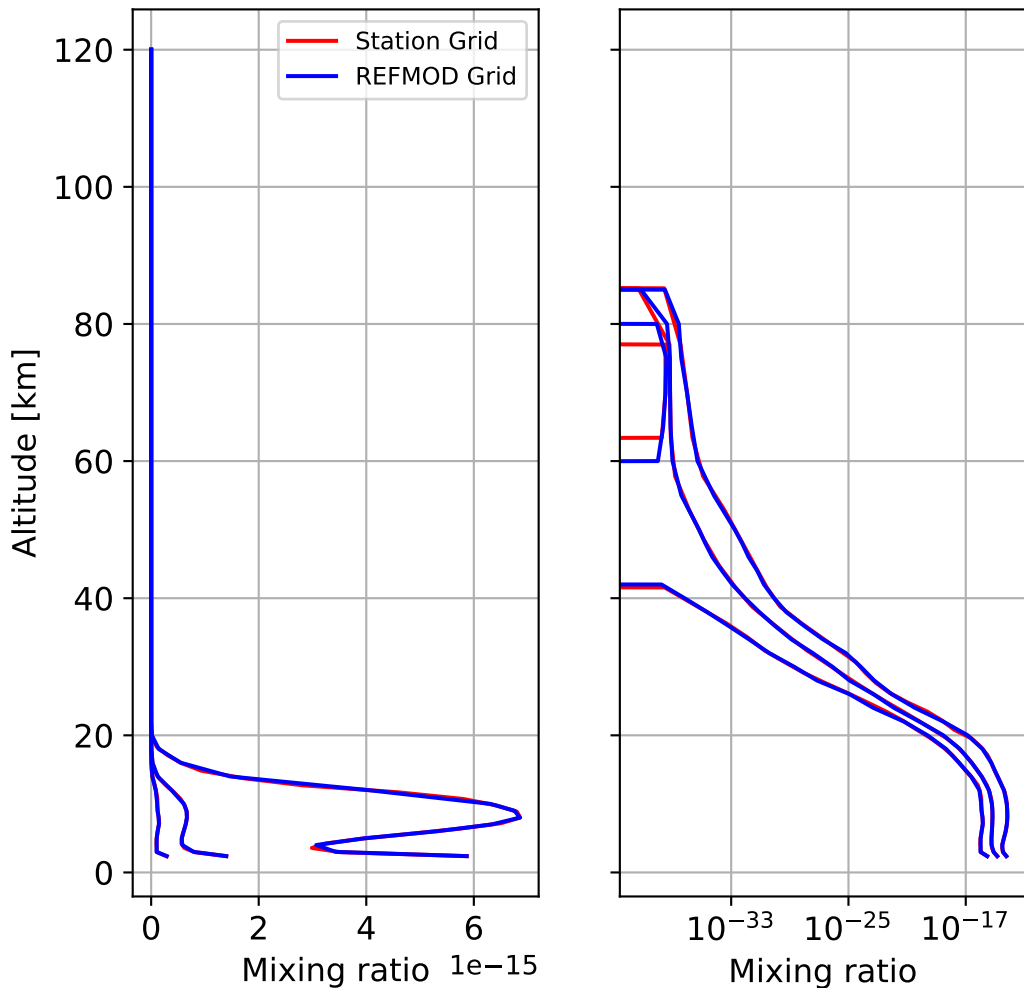
Time Series of vertical profiles (site altitude - 40 km)



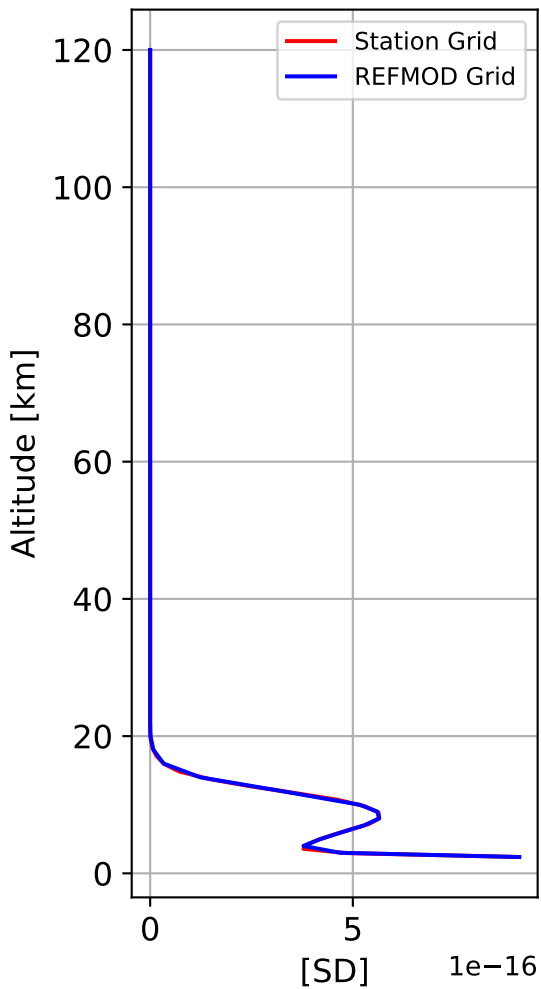
# Monthly mean WACCM profile (interpolated to station grid) CTIO, -30.169N, 289.194E, 2.379kmasl



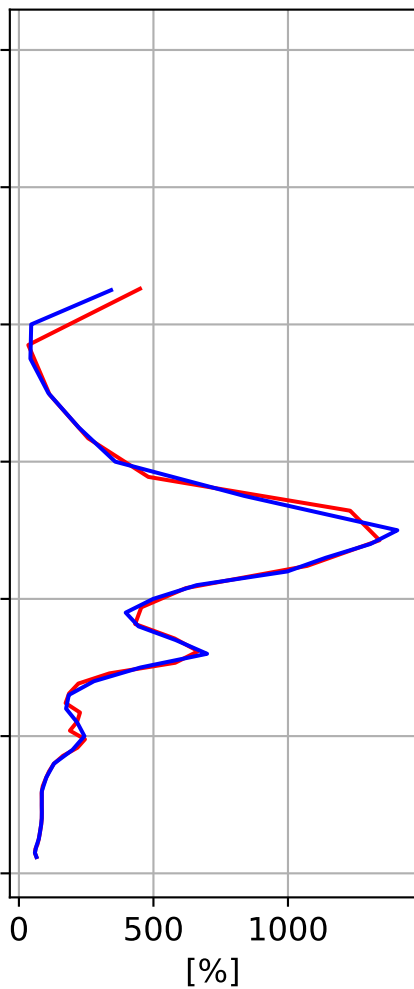
Min, Max, Mean of 732 profiles  
CTIO, -30.169N, 289.194E, 2.379kmasl



### Std. Deviation



### Percent Deviation

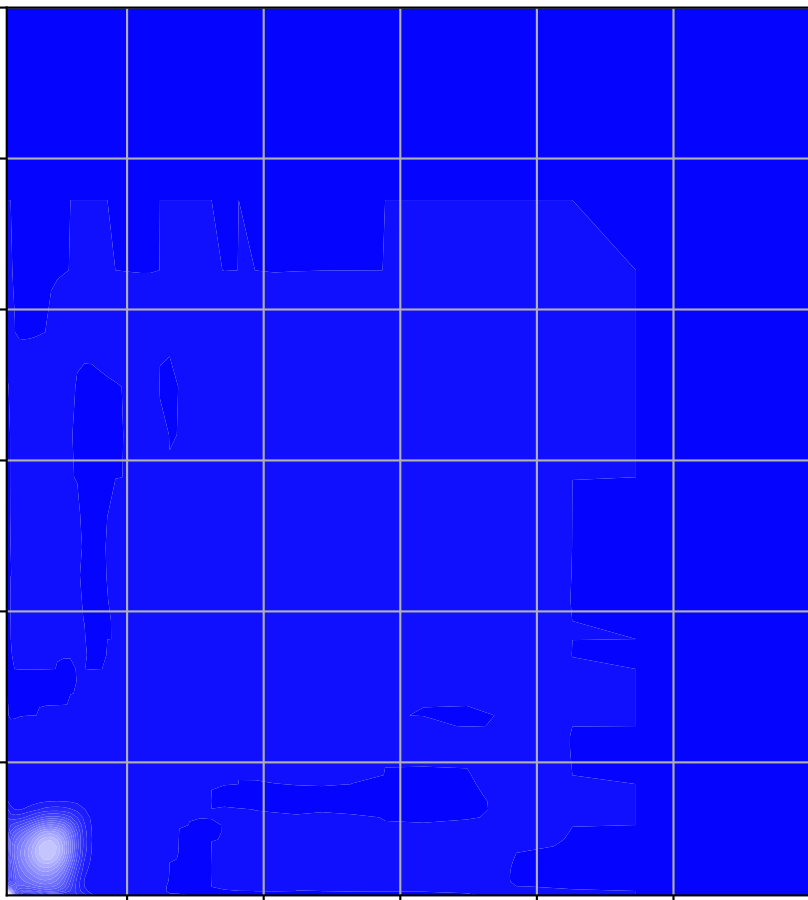


# Level covariance matrix

$1e-31$

Altitude [km]

120  
100  
80  
60  
40  
20



Altitude [km]

Mixing ratio[ $\sim 2$ ]

8  
7  
6  
5  
4  
3  
2  
1  
0