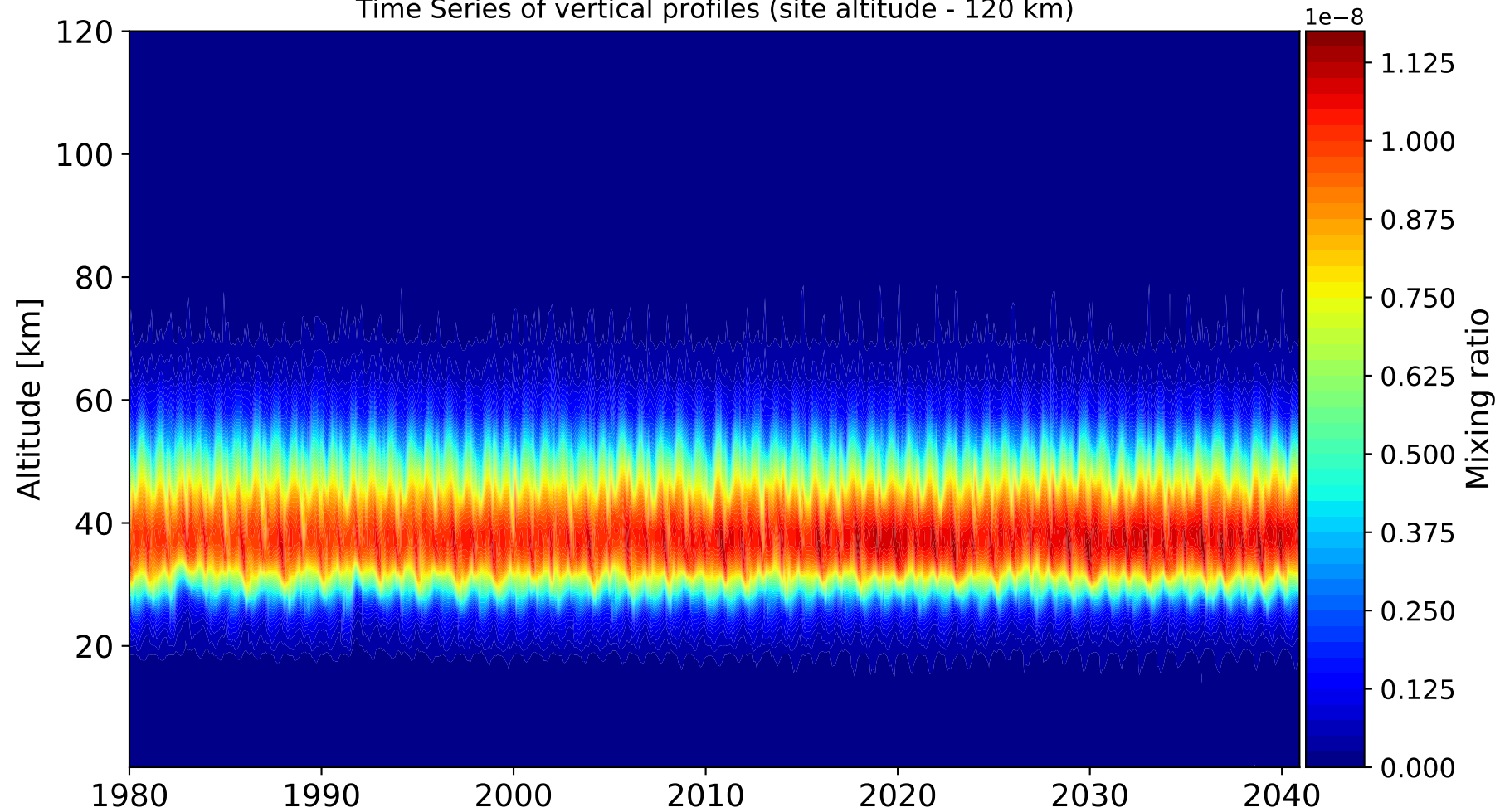
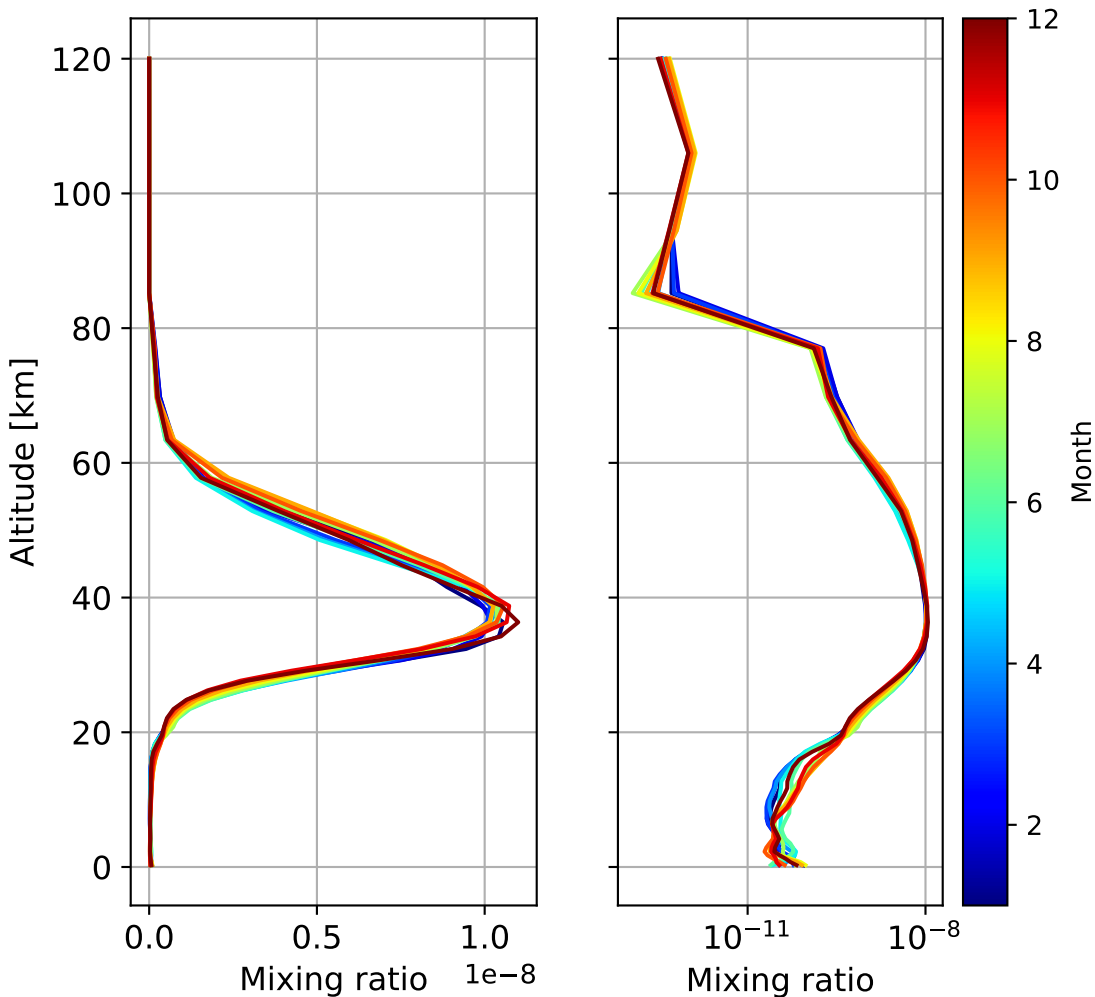


Time Series of vertical profiles (site altitude - 120 km)

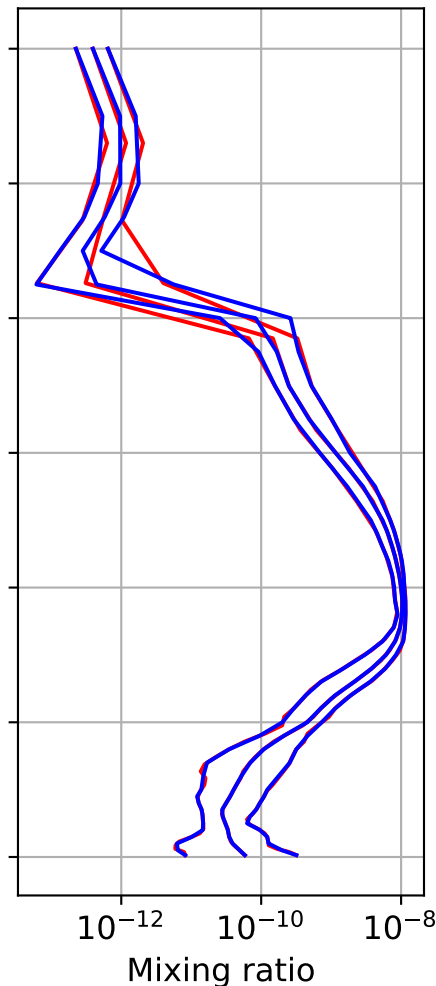
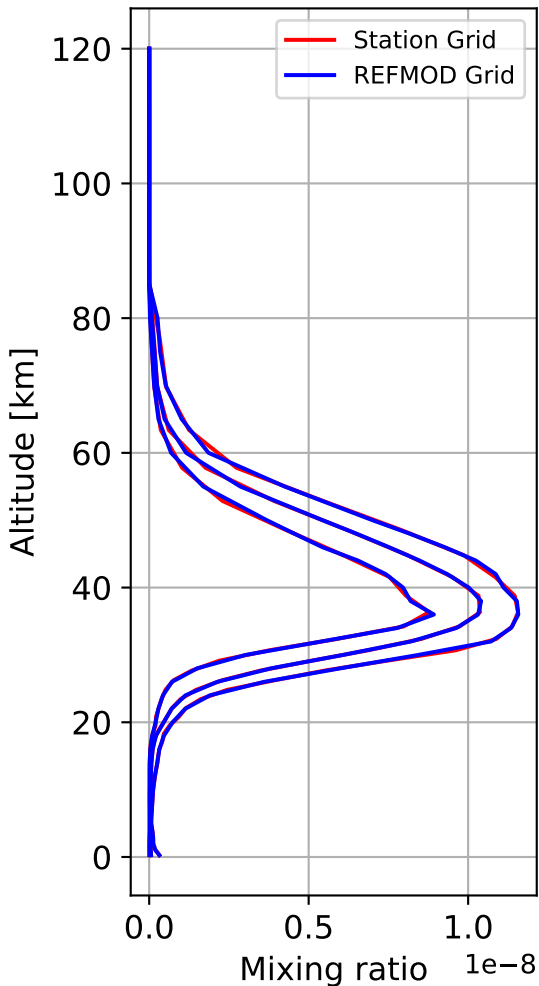




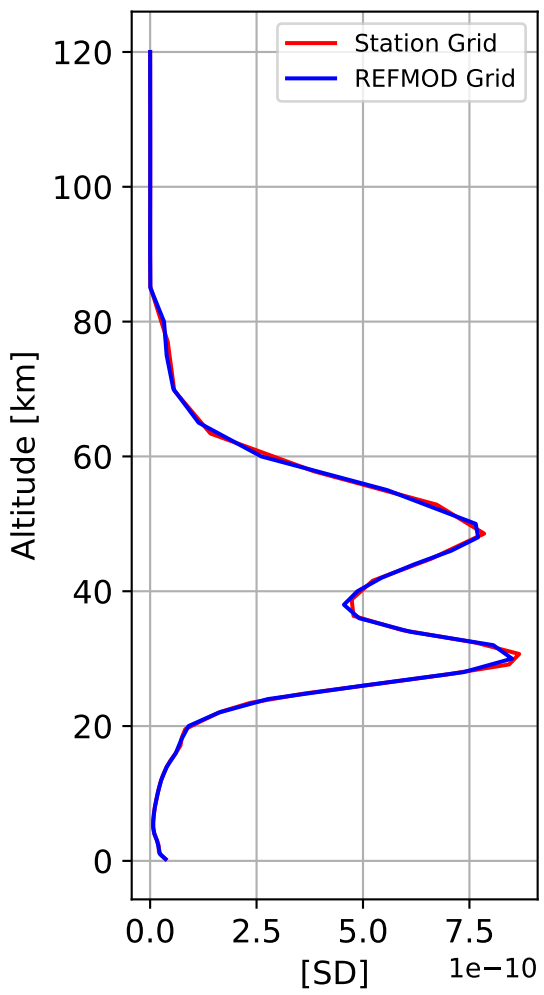
Monthly mean WACCM profile (interpolated to station grid)  
Calakmul, 18.5955N, 89.4141E, 0.275kmasl



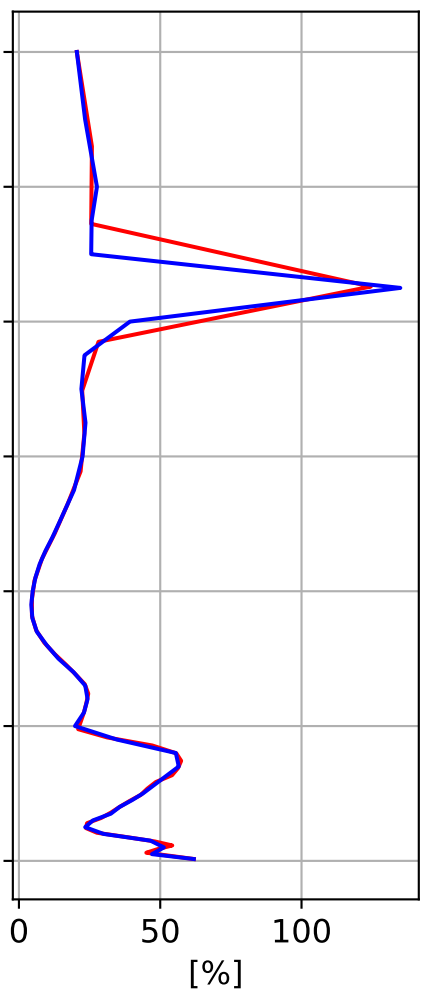
Min, Max, Mean of 732 profiles  
Calakmul, 18.5955N, 89.4141E, 0.275kmasl



### Std. Deviation



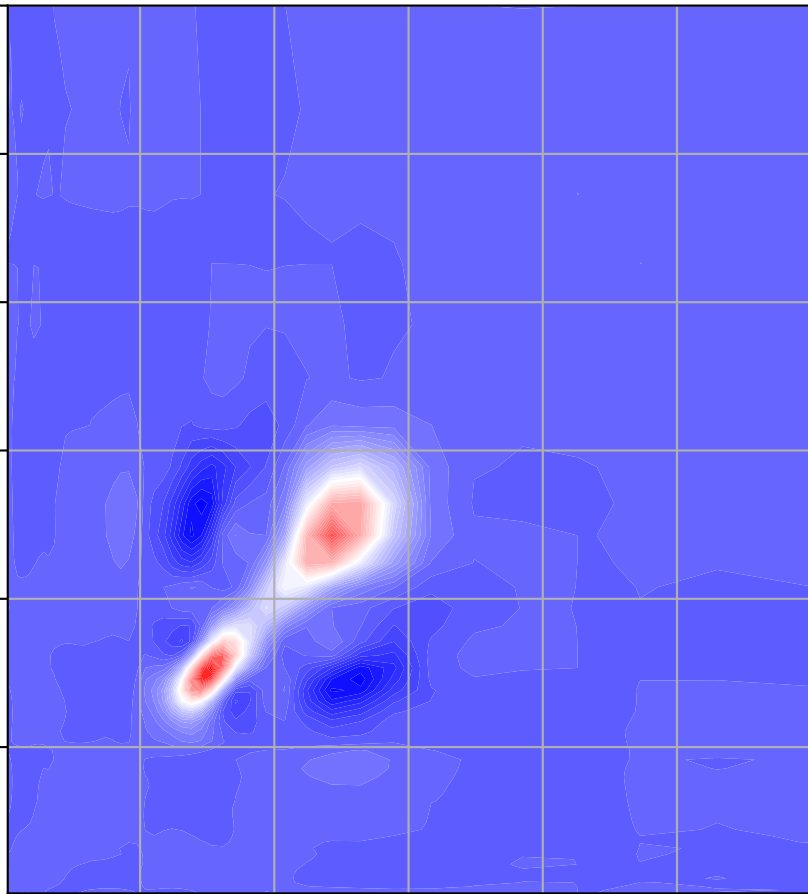
### Percent Deviation



Level covariance matrix

1e-19

Altitude [km]

120  
100  
80  
60  
40  
20

Altitude [km]

Mixing ratio[<sup>2</sup>]7  
6  
5  
4  
3  
2  
1  
0  
-1