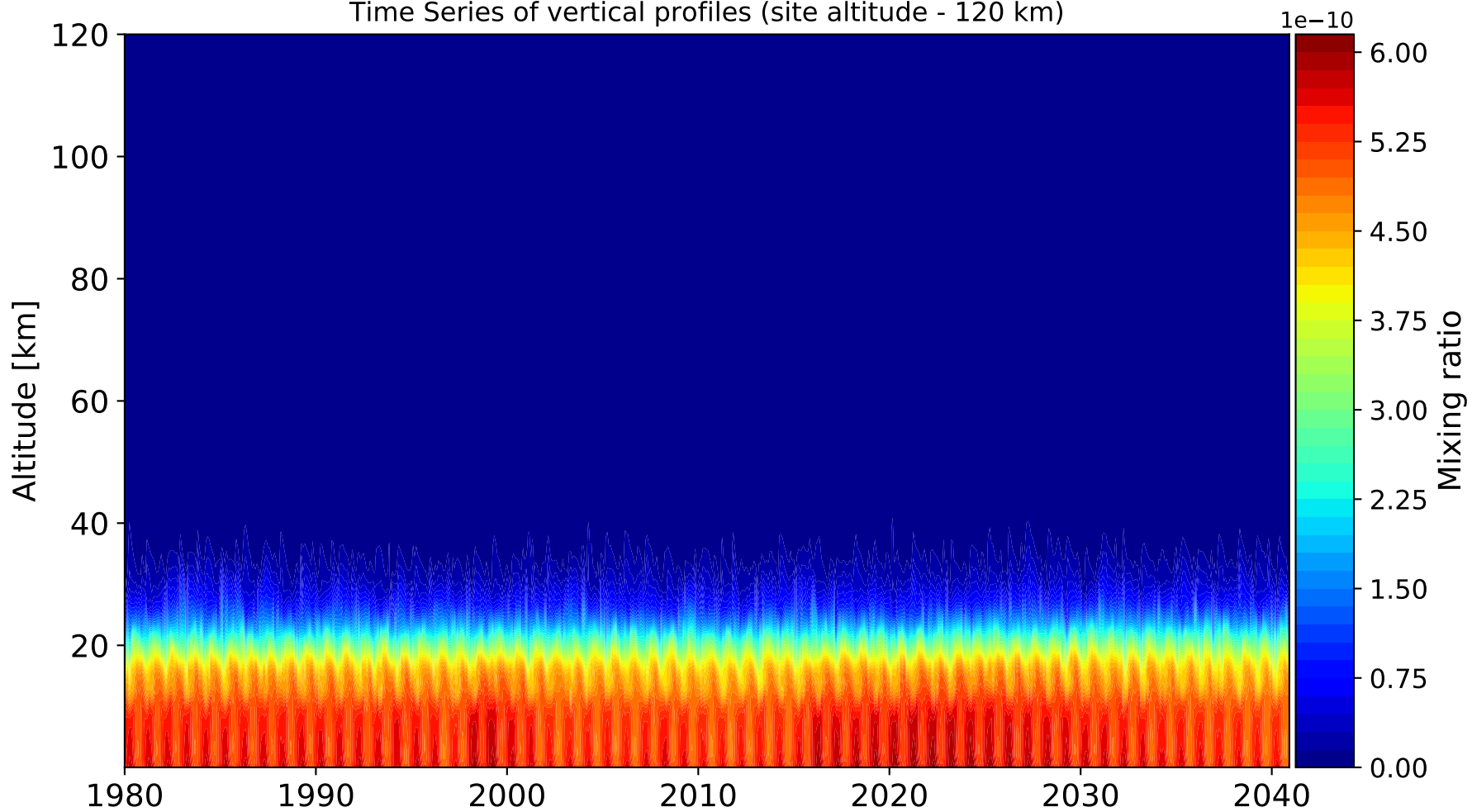
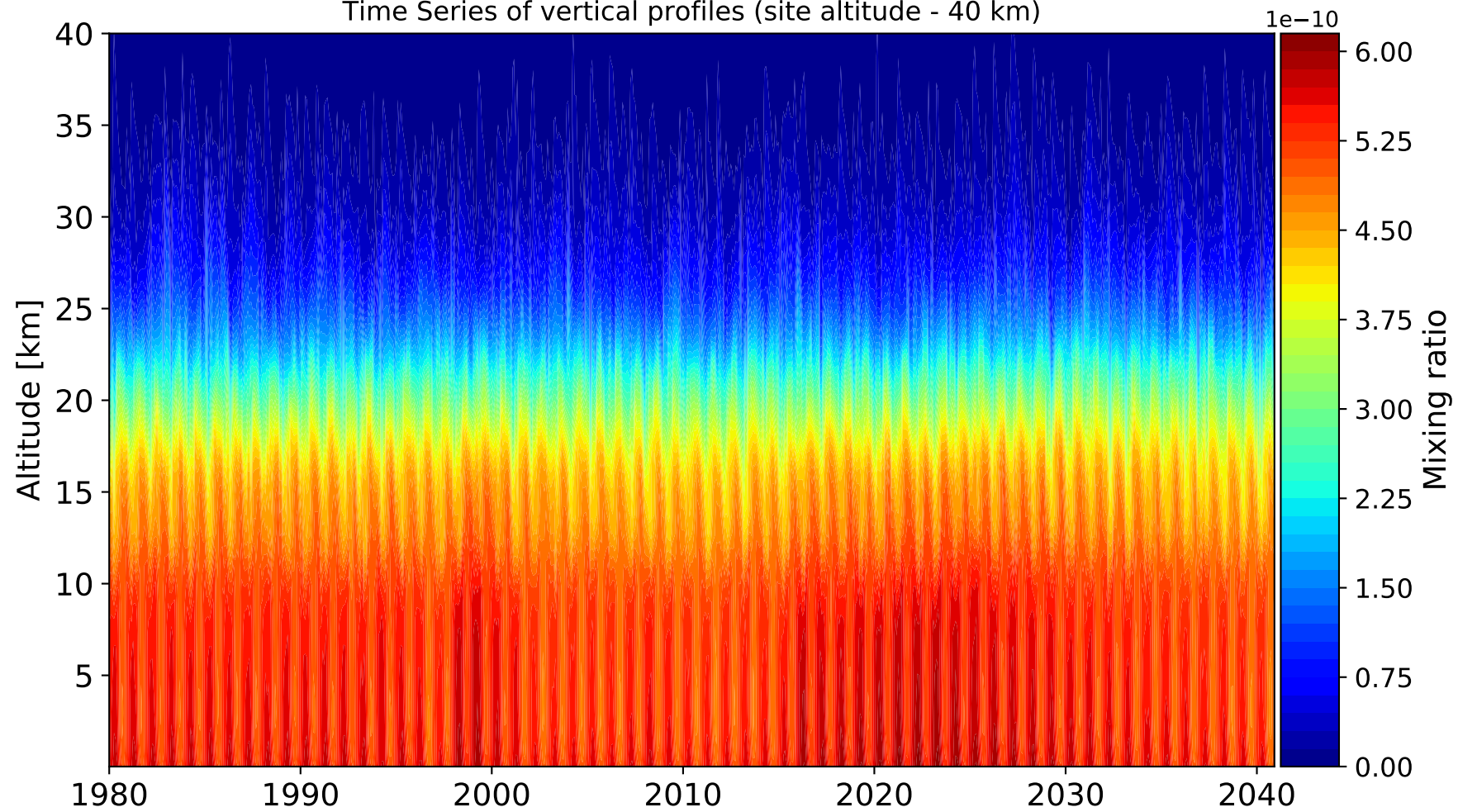


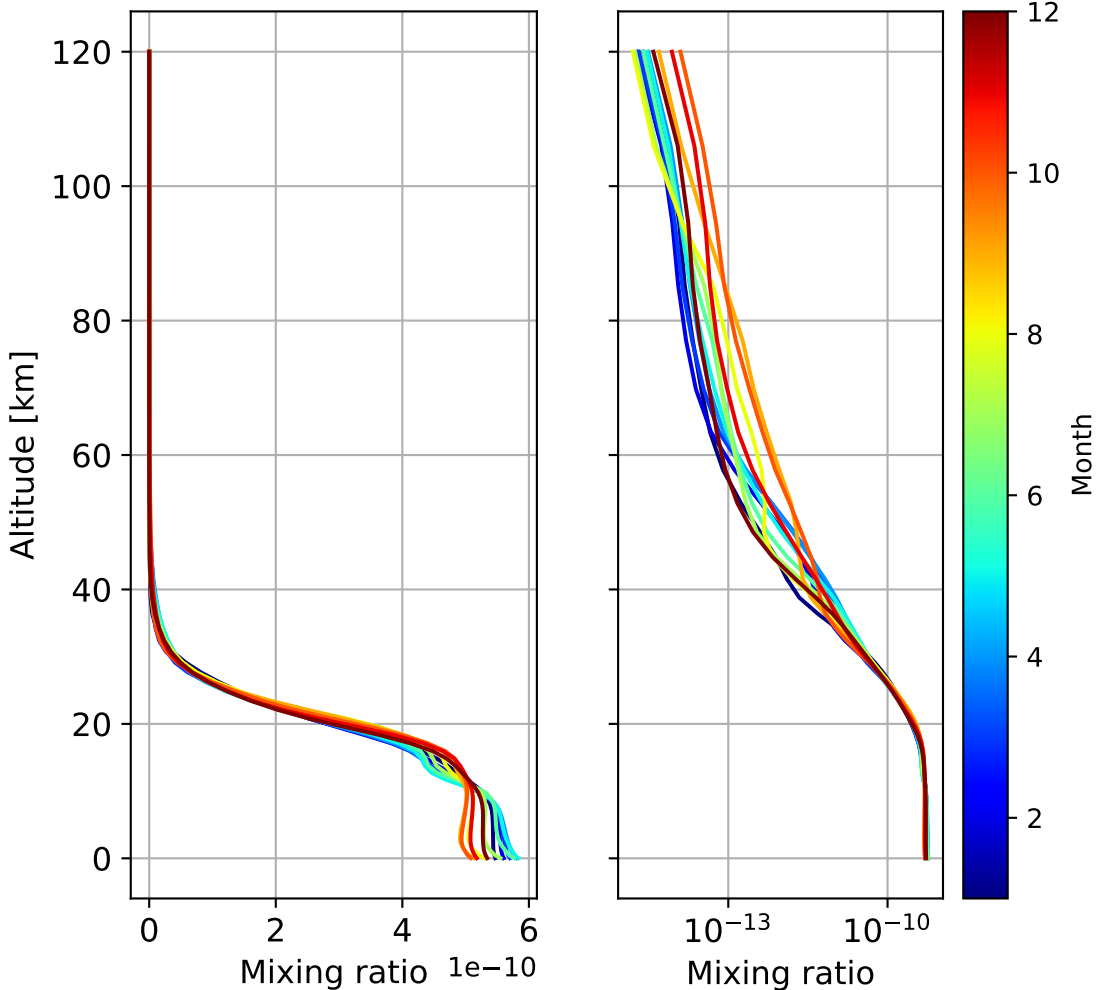
Time Series of vertical profiles (site altitude - 120 km)



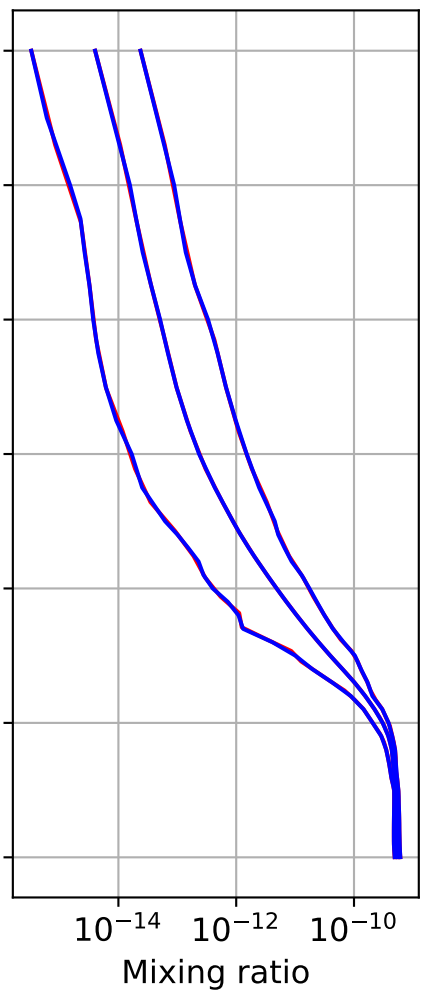
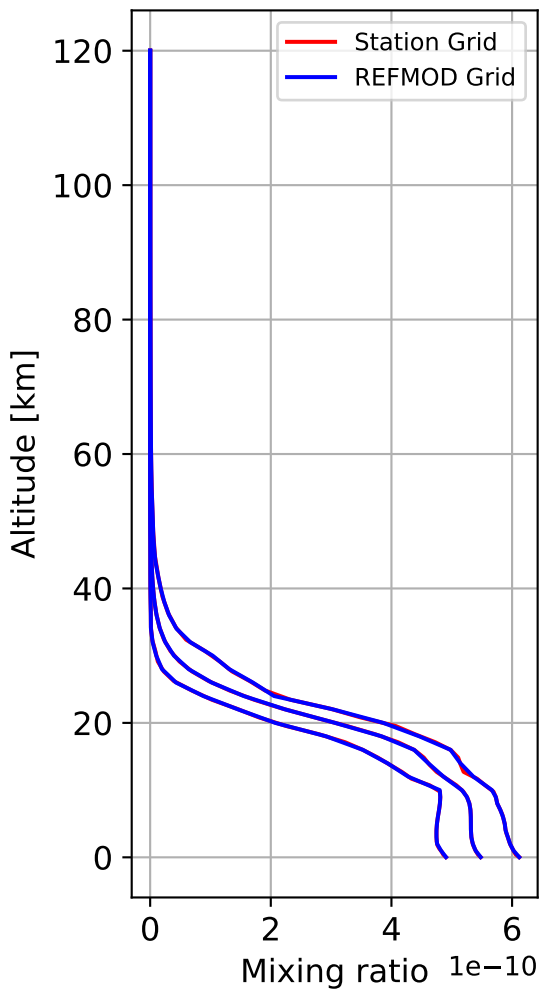
Time Series of vertical profiles (site altitude - 40 km)



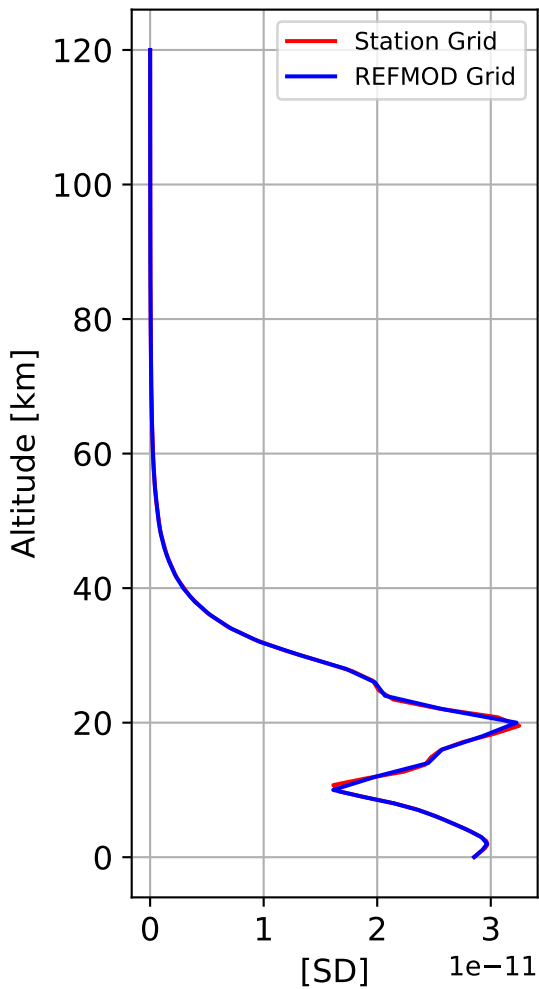
# Monthly mean WACCM profile (interpolated to station grid) Bremen, 53.1N, 8.9E, 0.027kmasl



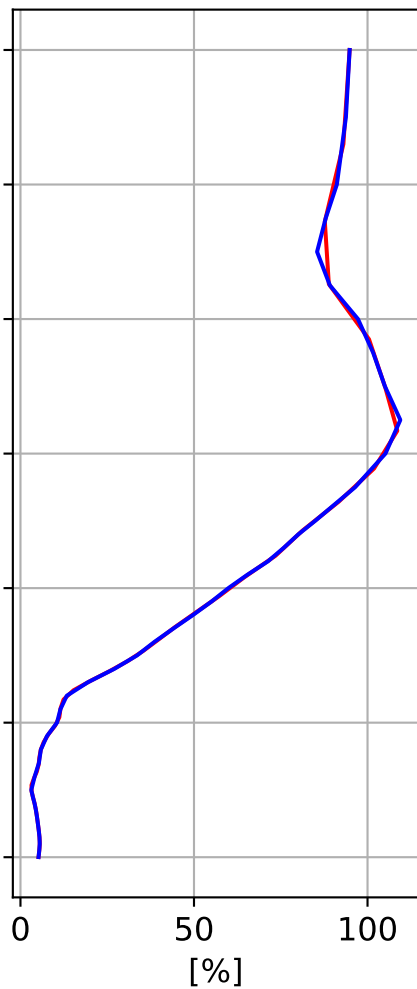
# Min, Max, Mean of 732 profiles Bremen, 53.1N, 8.9E, 0.027kmasl



### Std. Deviation



### Percent Deviation



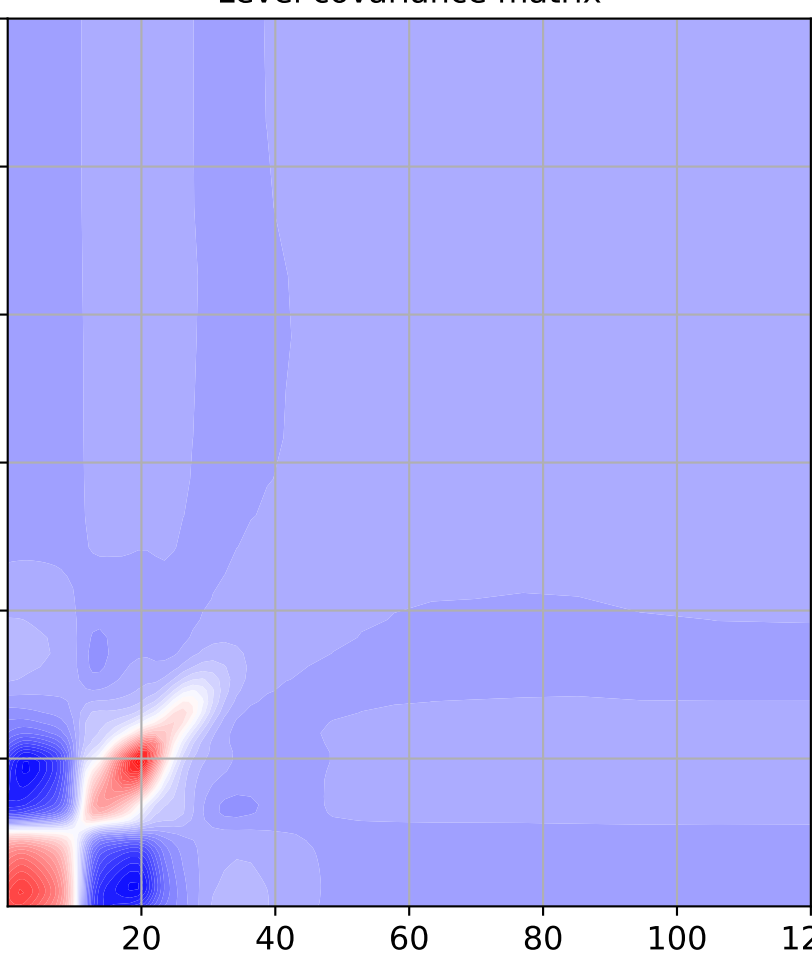
# Level covariance matrix

1e-21

Altitude [km]

Mixing ratio<sup>2</sup>]

120  
100  
80  
60  
40  
20



Altitude [km]