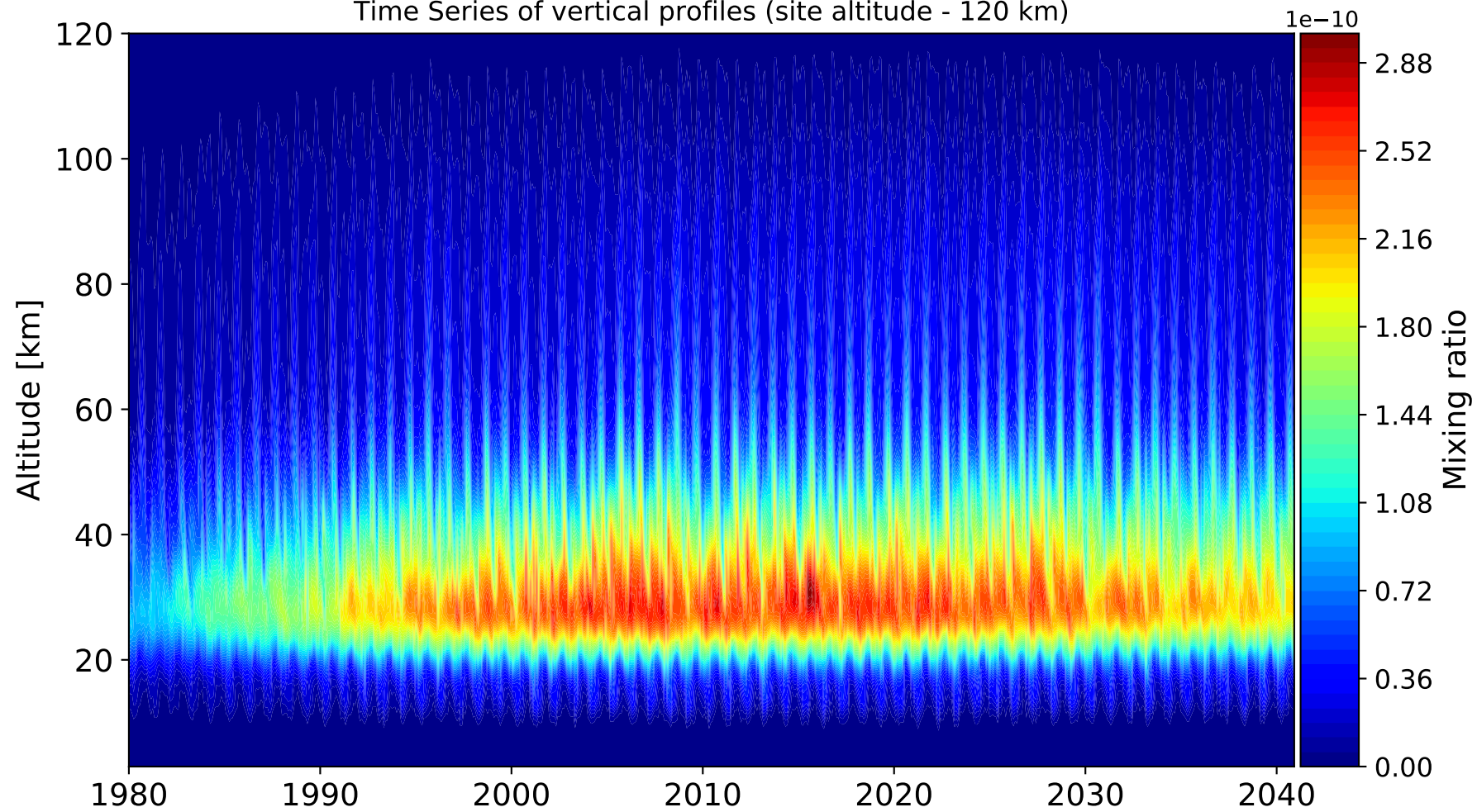
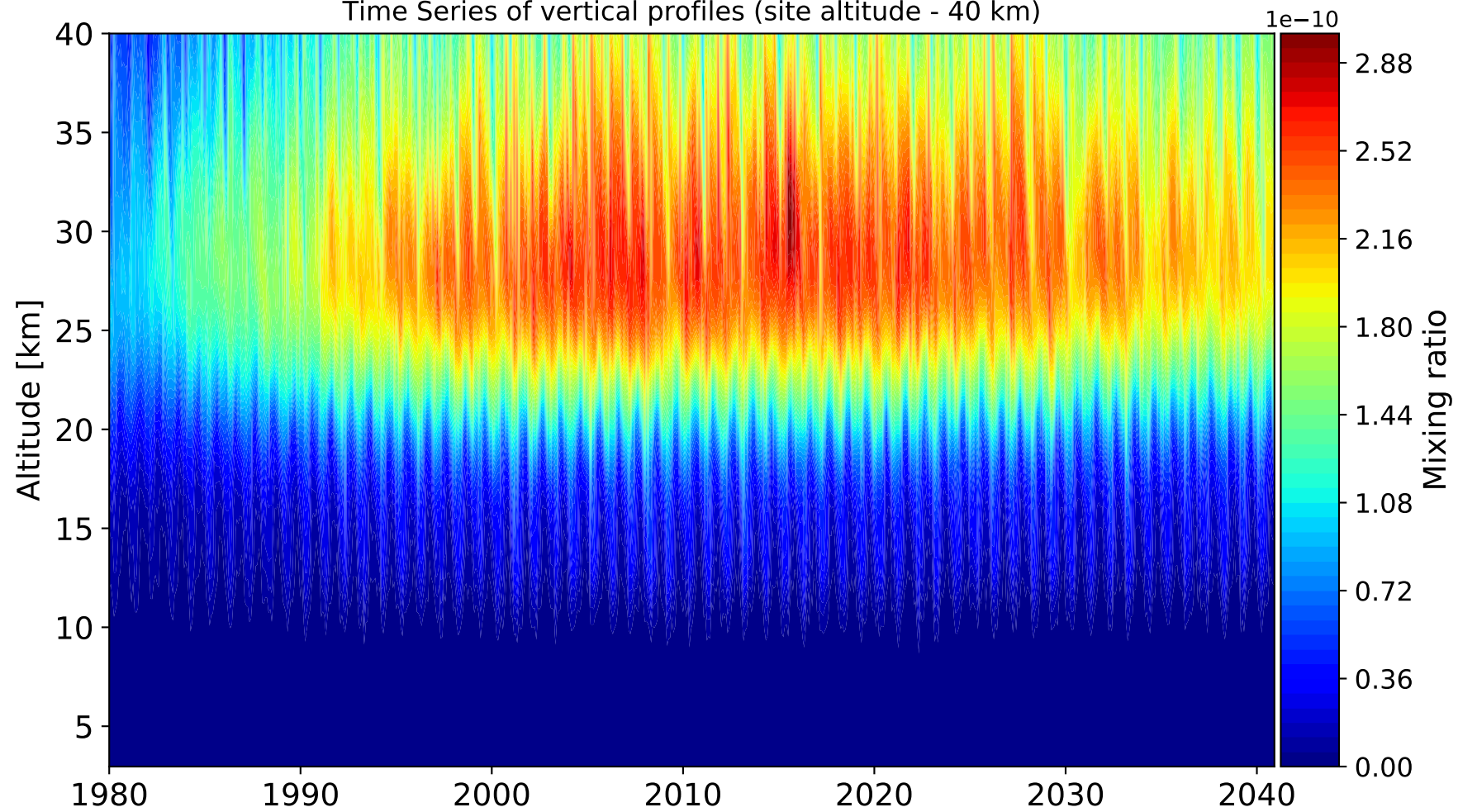


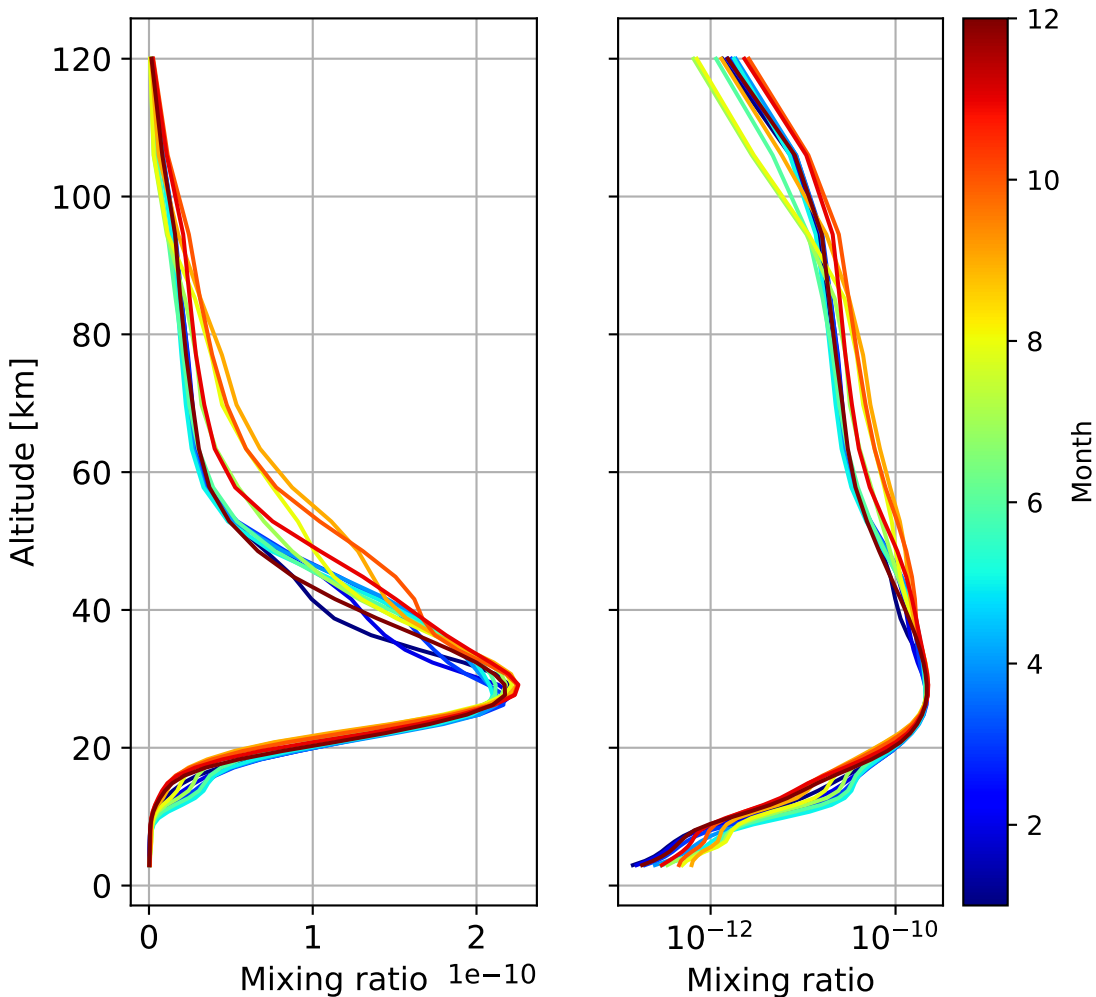
Time Series of vertical profiles (site altitude - 120 km)



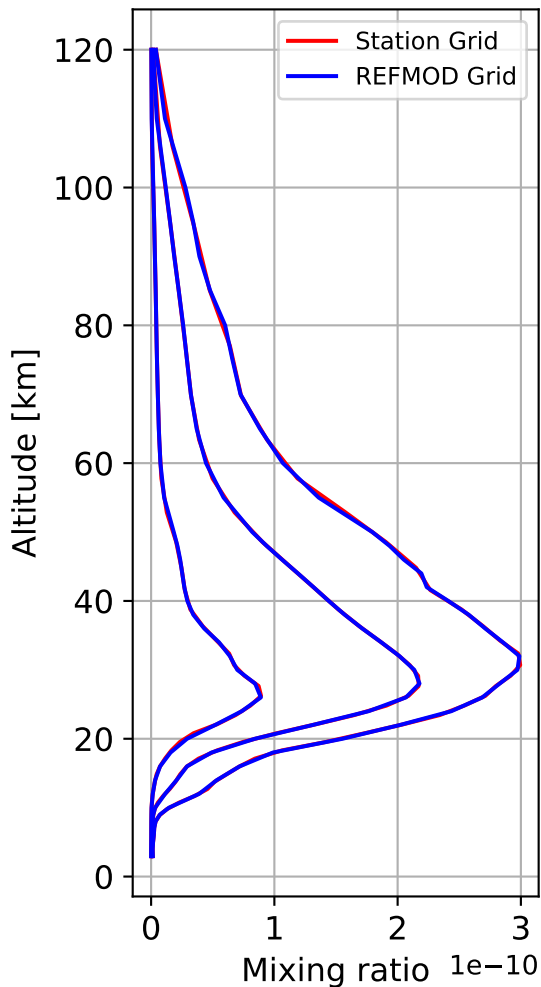
Time Series of vertical profiles (site altitude - 40 km)



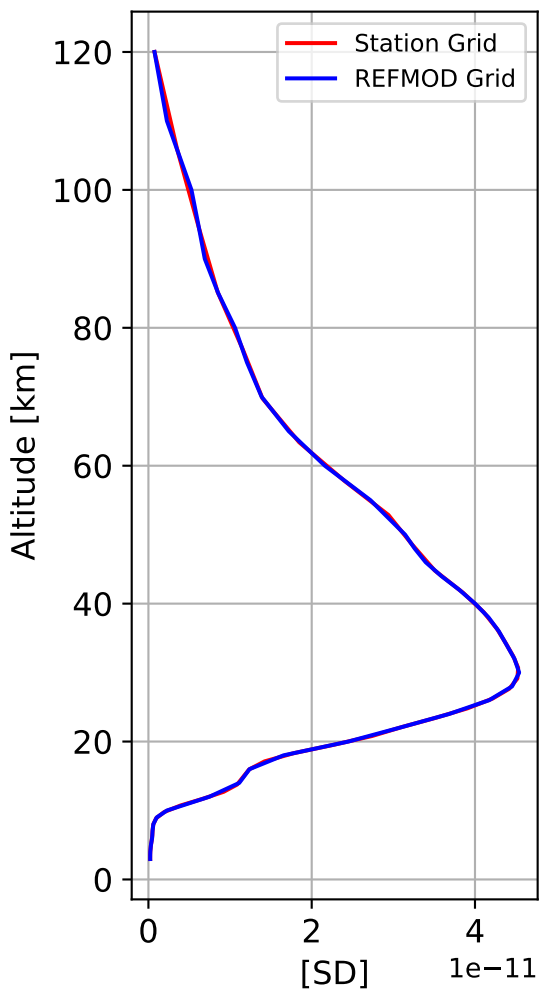
Monthly mean WACCM profile (interpolated to station grid)  
Zugspitze, 47.42N, 10.98E, 2.964kmasl



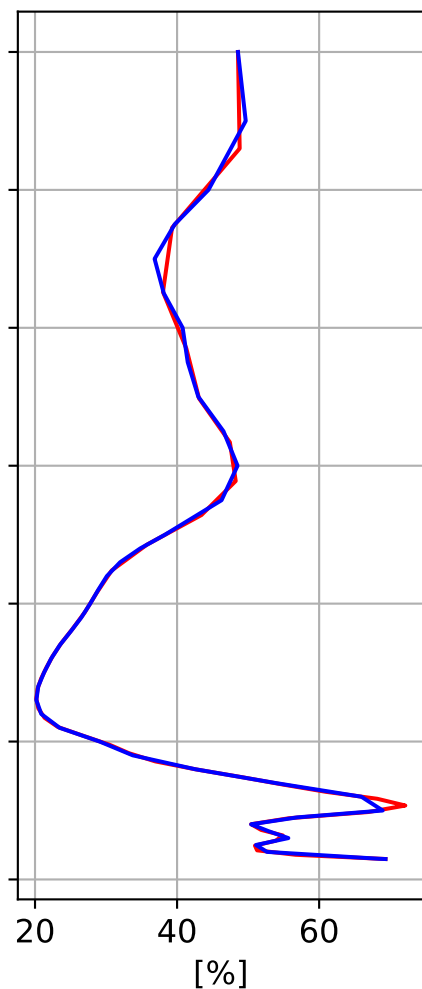
Min, Max, Mean of 732 profiles  
Zugspitze, 47.42N, 10.98E, 2.964kmasl



### Std. Deviation



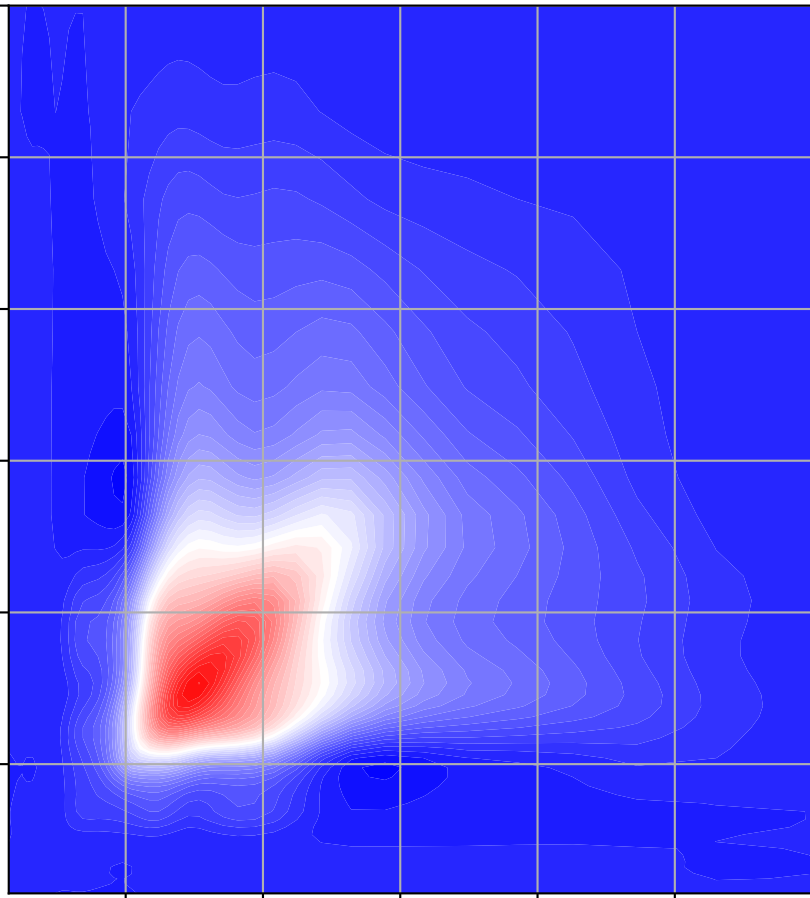
### Percent Deviation



Level covariance matrix

 $1e-21$ 

Altitude [km]

120  
100  
80  
60  
40  
202.00  
1.75  
1.50  
1.25  
1.00  
0.75  
0.50  
0.25  
0.00Mixing ratio<sup>2</sup>

20 40 60 80 100 120

Altitude [km]