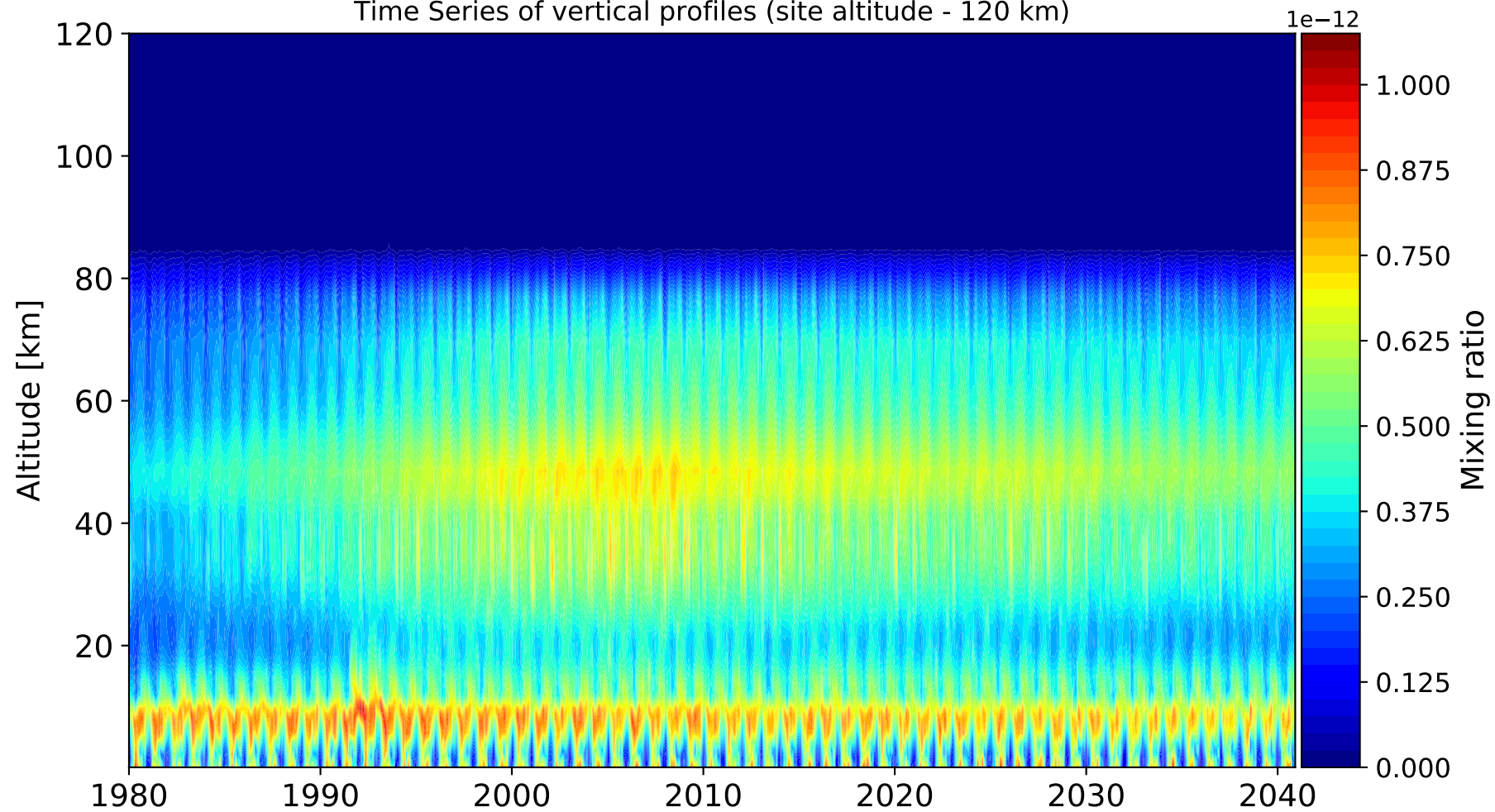
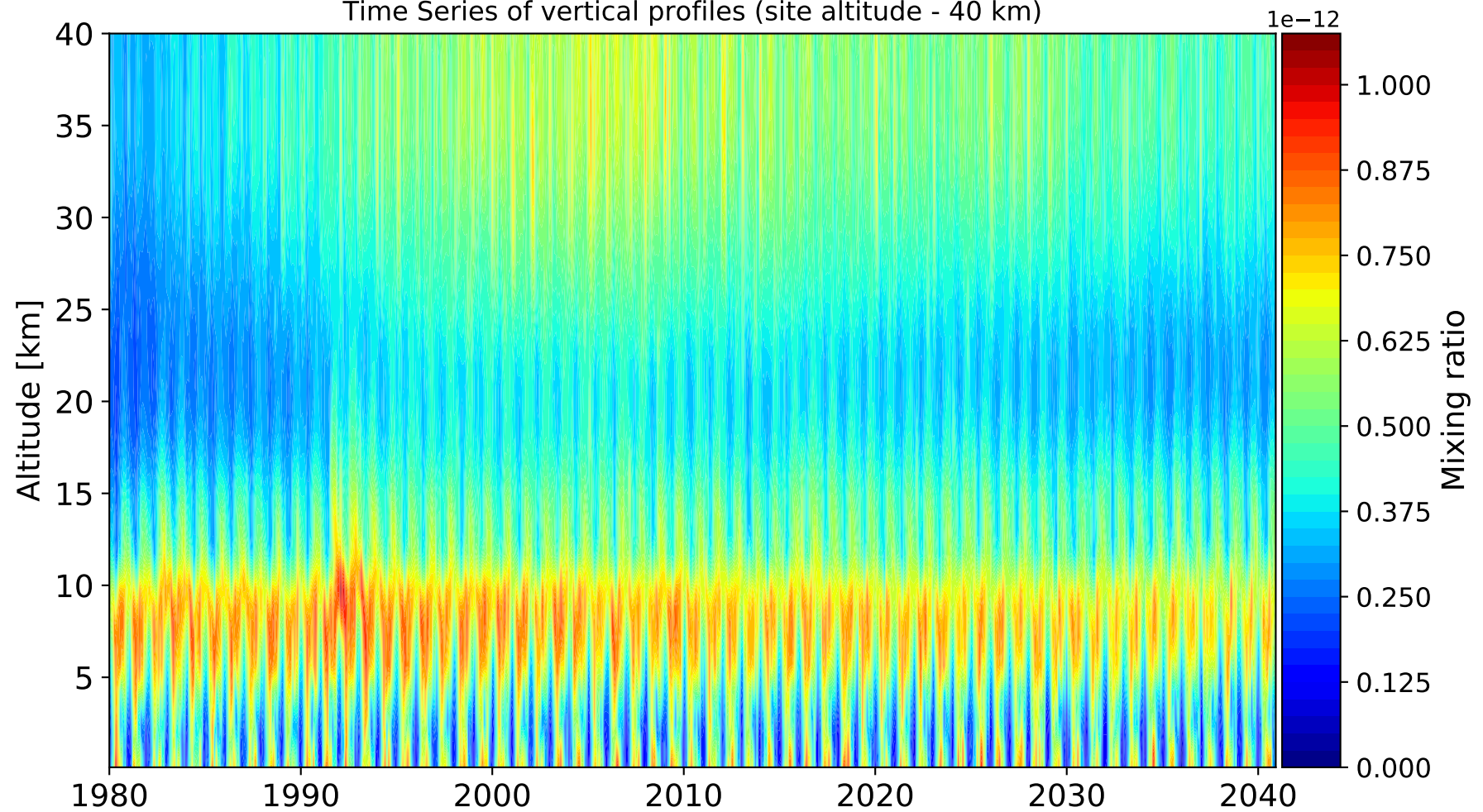


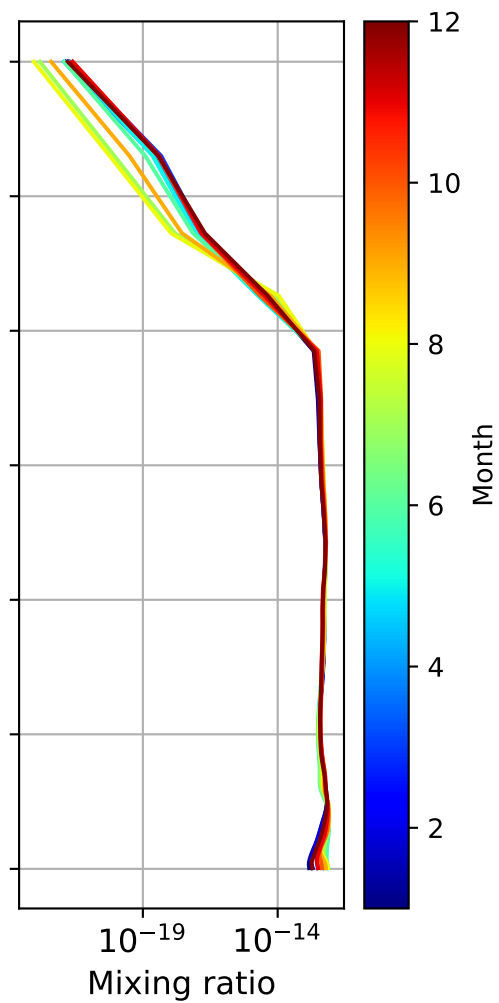
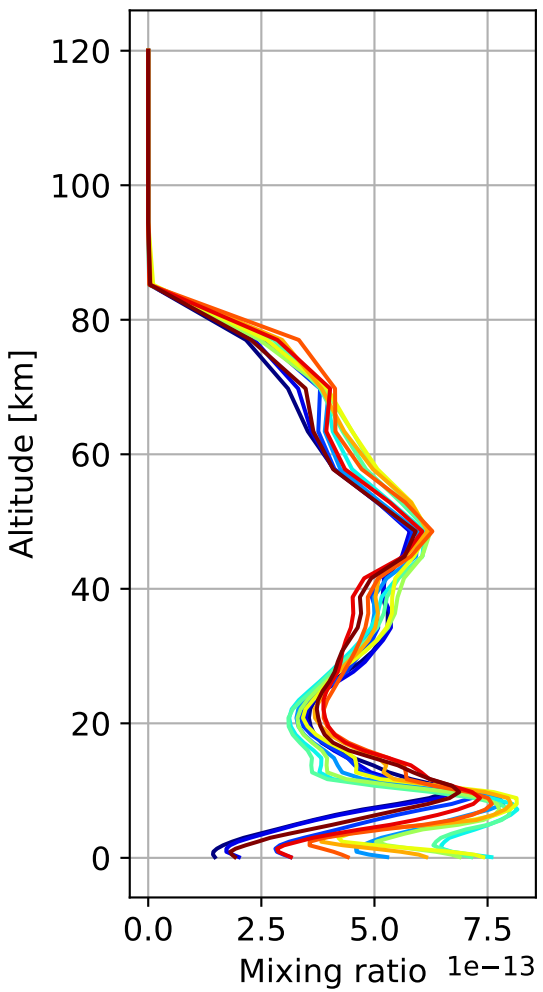
Time Series of vertical profiles (site altitude - 120 km)



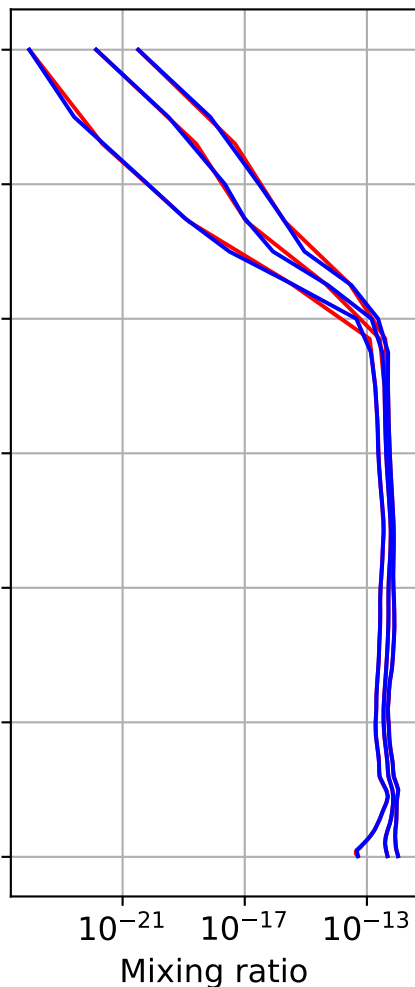
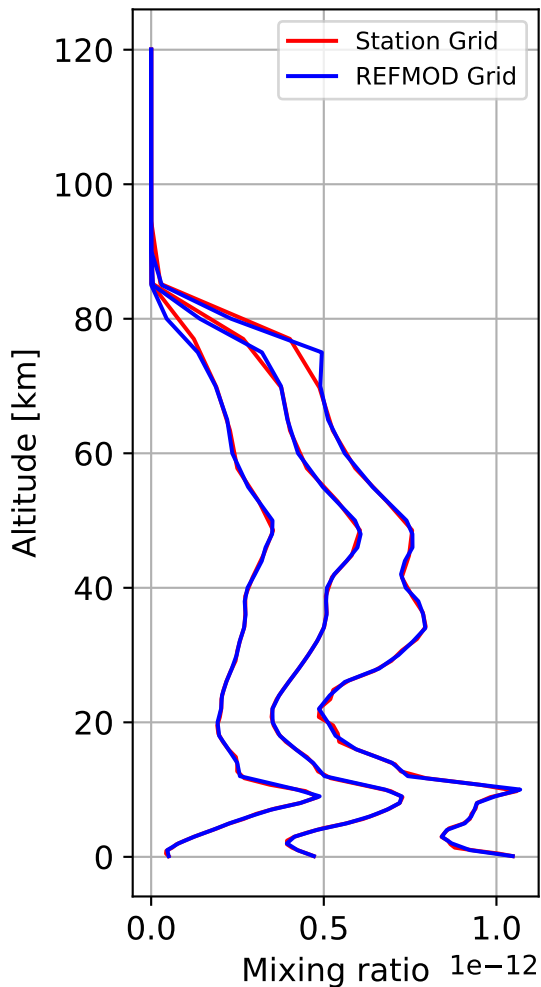
Time Series of vertical profiles (site altitude - 40 km)



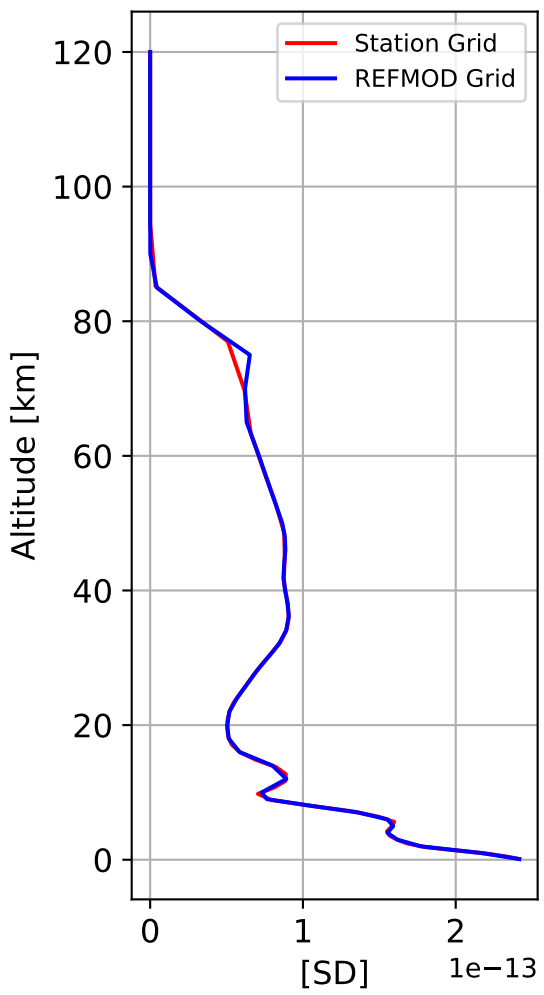
# Monthly mean WACCM profile (interpolated to station grid) Tomsk, 56.475N, 85.046E, 0.106kmasl



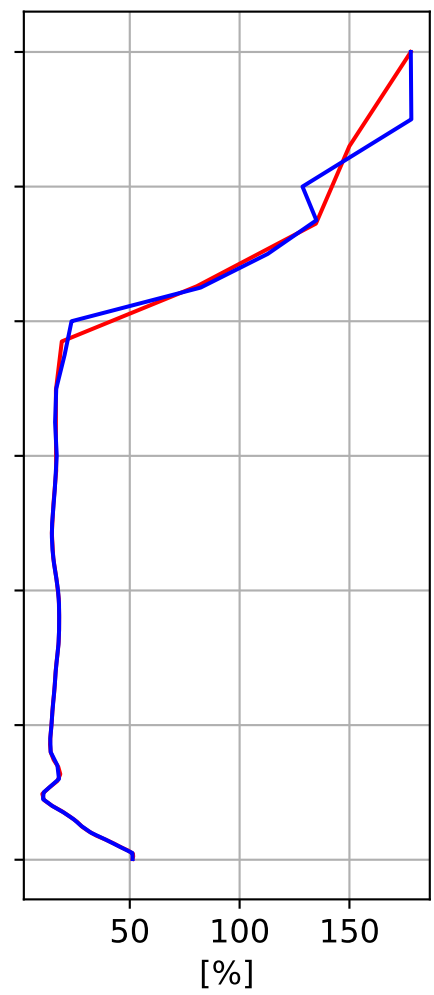
Min, Max, Mean of 732 profiles  
Tomsk, 56.475N, 85.046E, 0.106kmasl



### Std. Deviation



### Percent Deviation

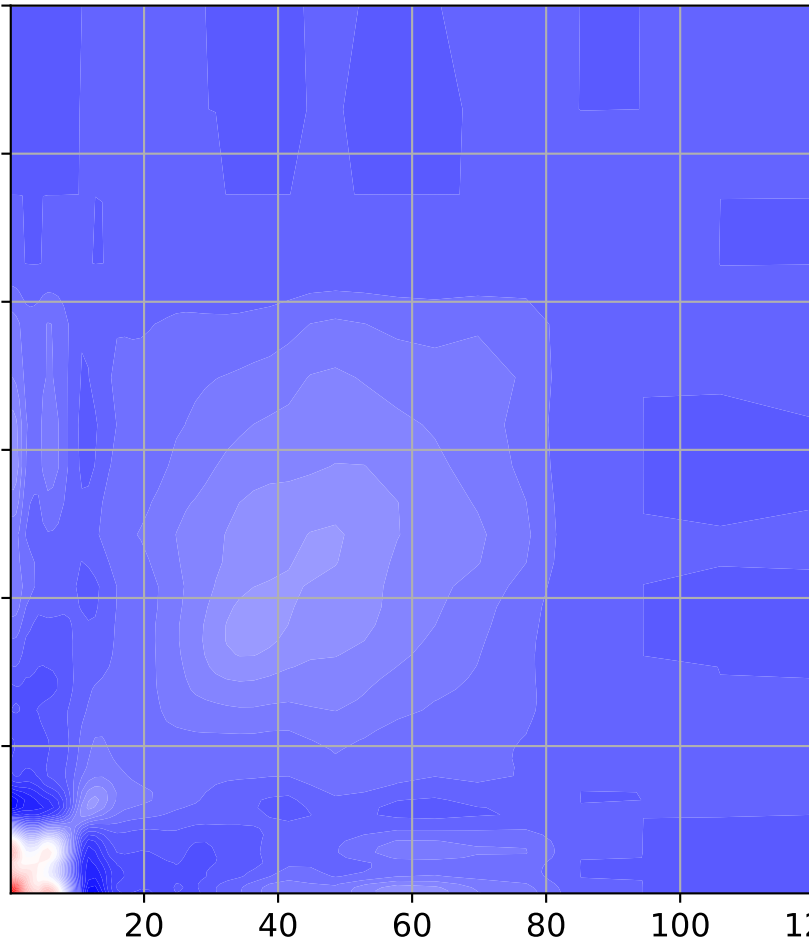


# Level covariance matrix

$1e-26$

Altitude [km]

120  
100  
80  
60  
40  
20



5.25

4.50

3.75

3.00

2.25

1.50

0.75

0.00

-0.75

Mixing ratio<sup>2</sup>

20

Altitude [km]

120