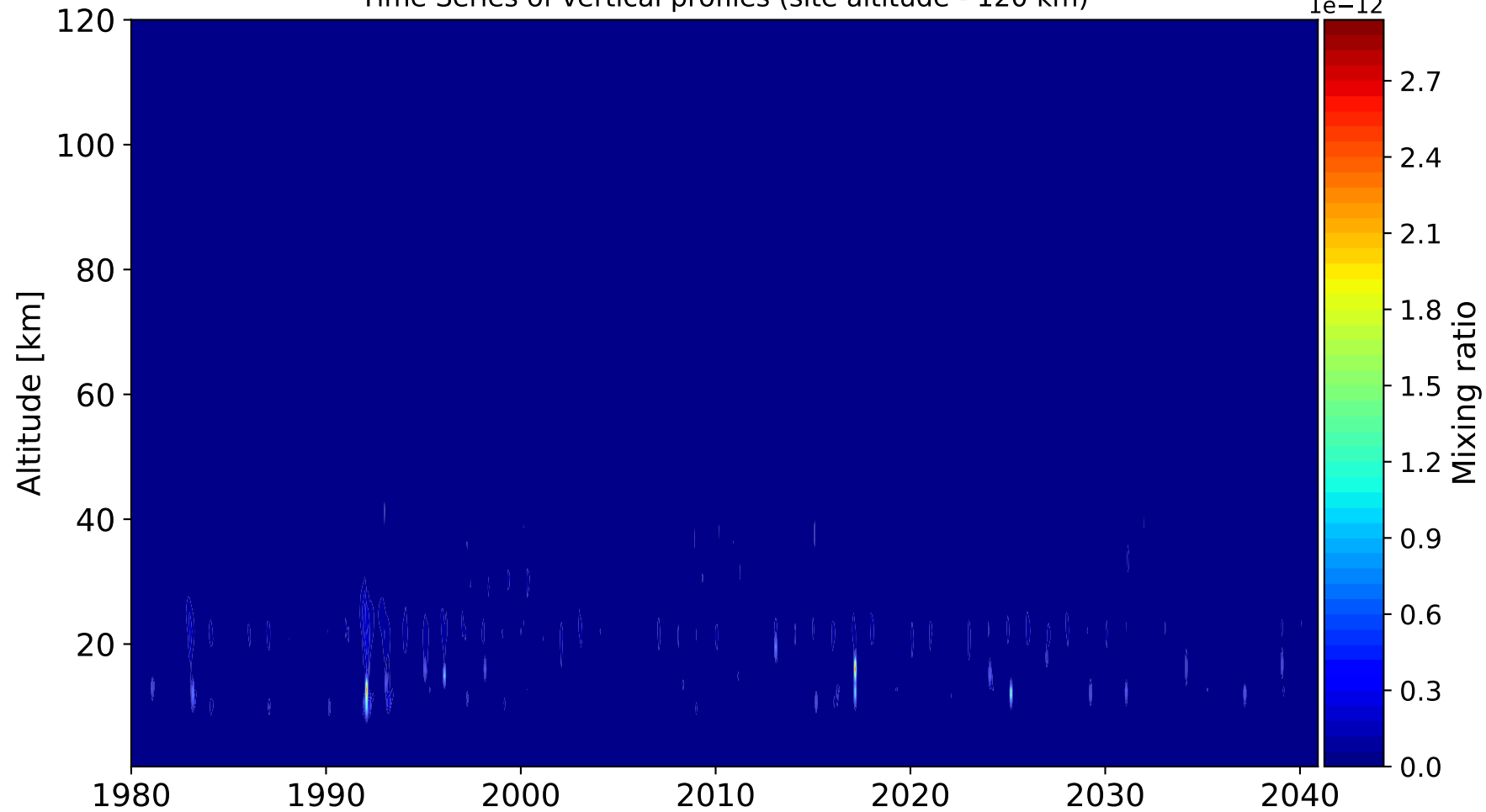
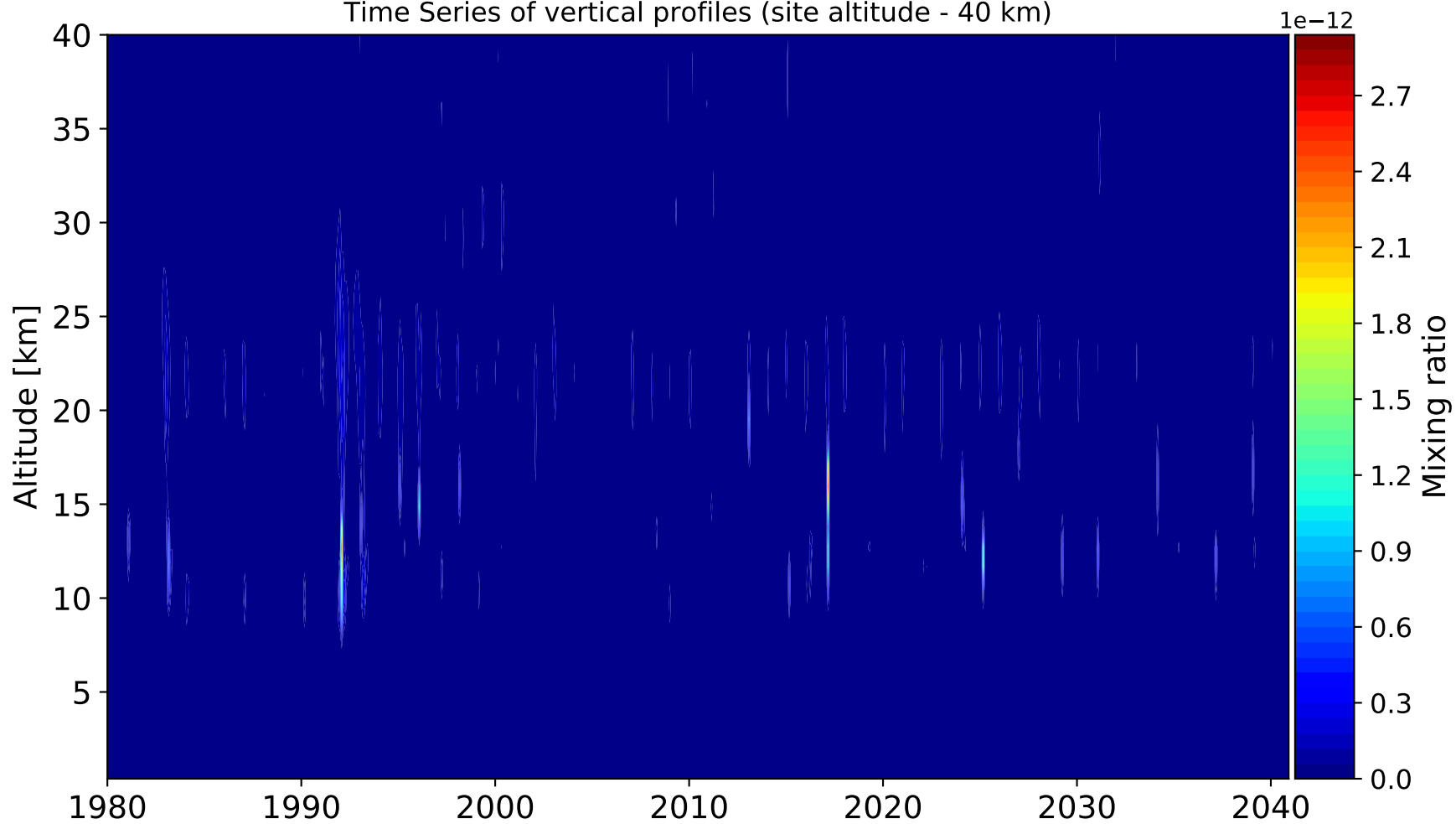


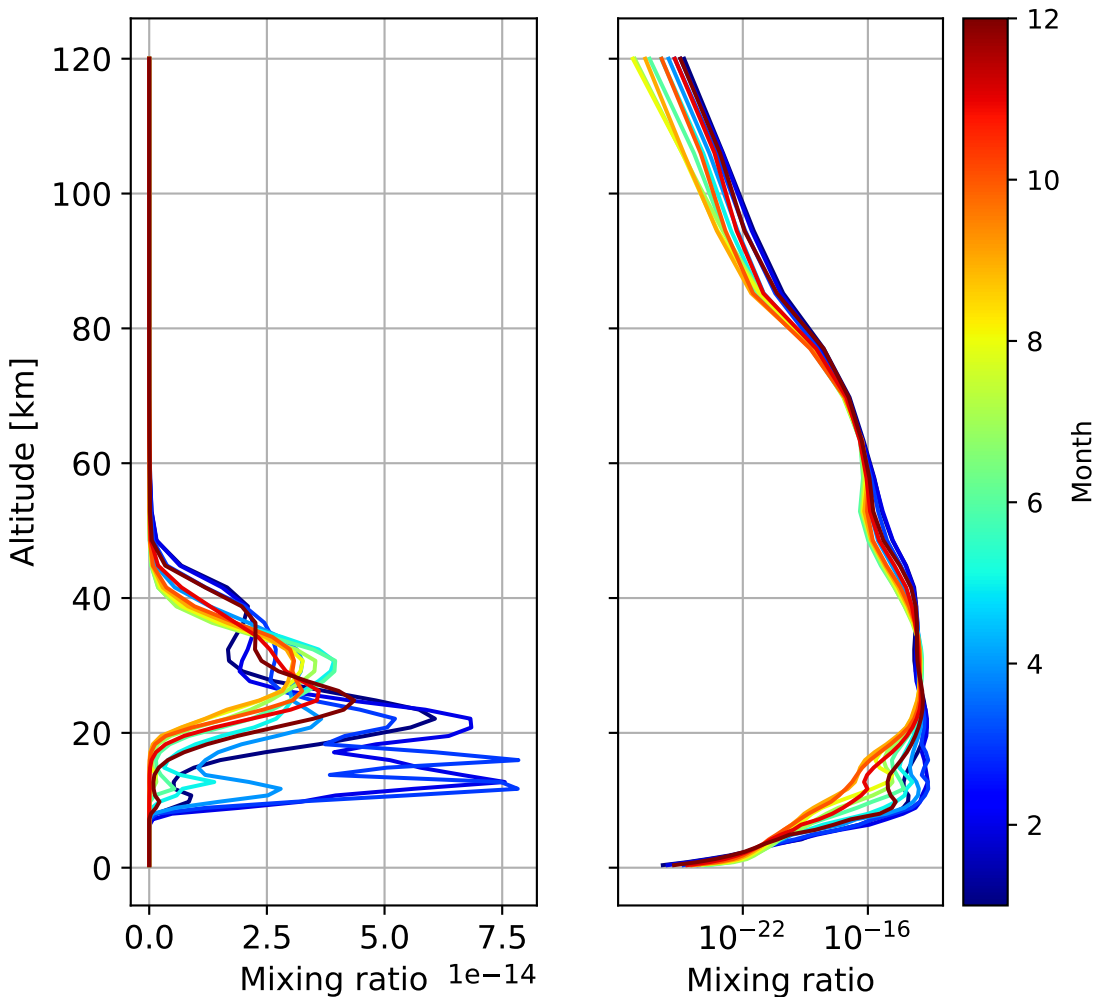
Time Series of vertical profiles (site altitude - 120 km)



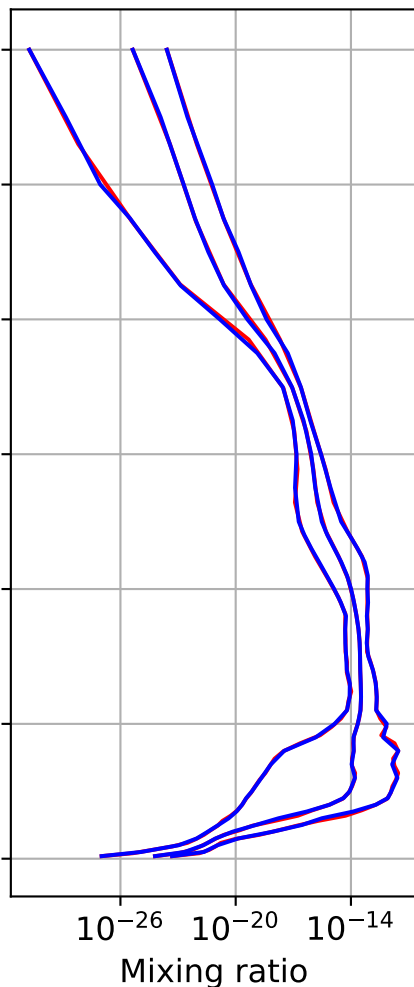
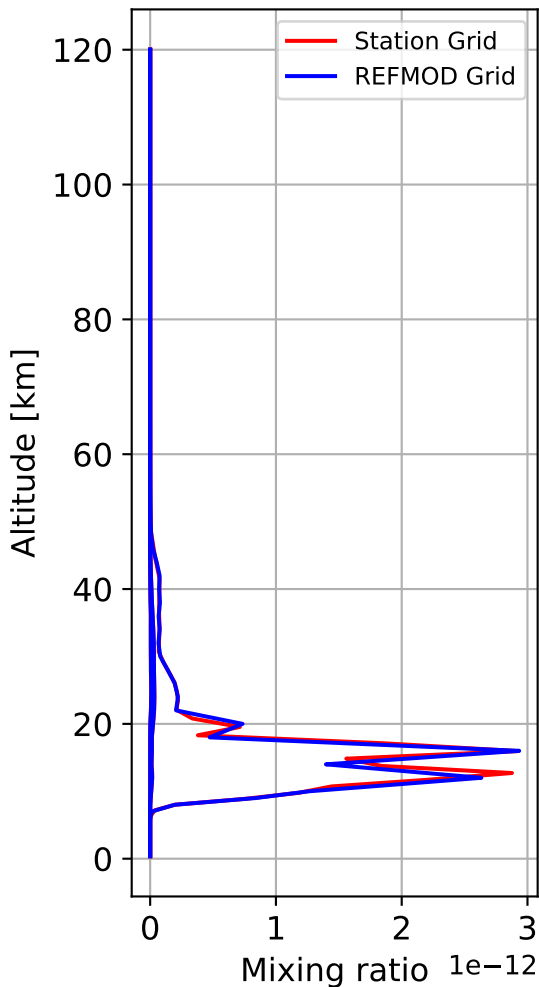
Time Series of vertical profiles (site altitude - 40 km)



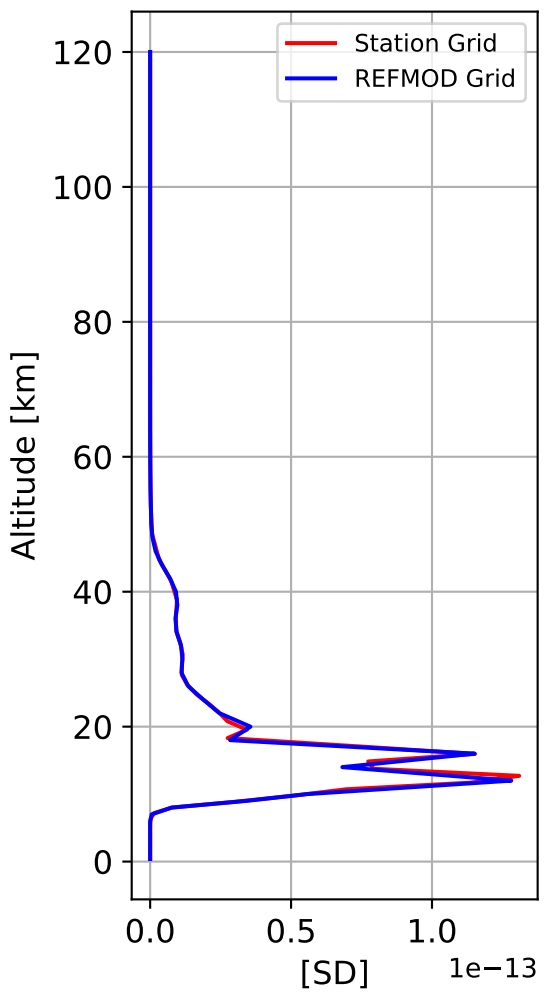
Monthly mean WACCM profile (interpolated to station grid)
Rikubetsu, 43.46N, 143.77E, 0.38kmasl



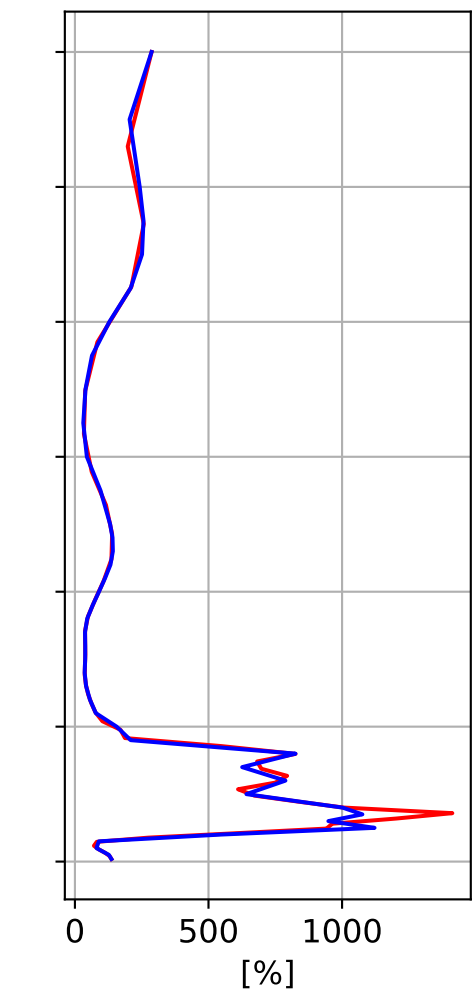
Min, Max, Mean of 732 profiles Rikubetsu, 43.46N, 143.77E, 0.38kmasl



Std. Deviation



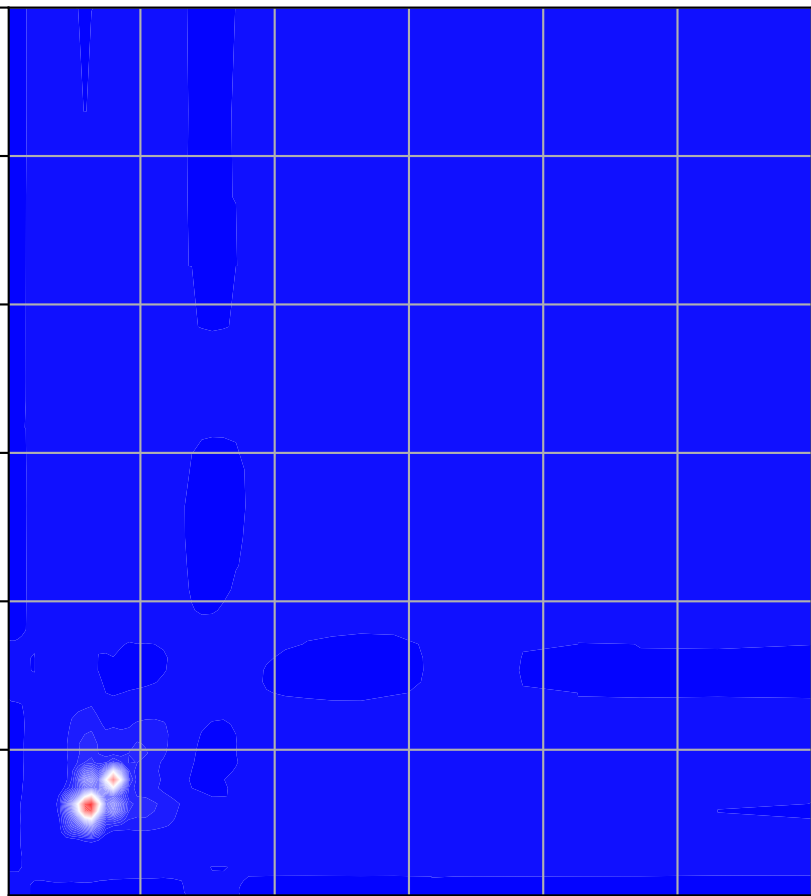
Percent Deviation



Level covariance matrix

 $1e-26$

Altitude [km]

120
100
80
60
40
20

Altitude [km]

Mixing ratio²1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0