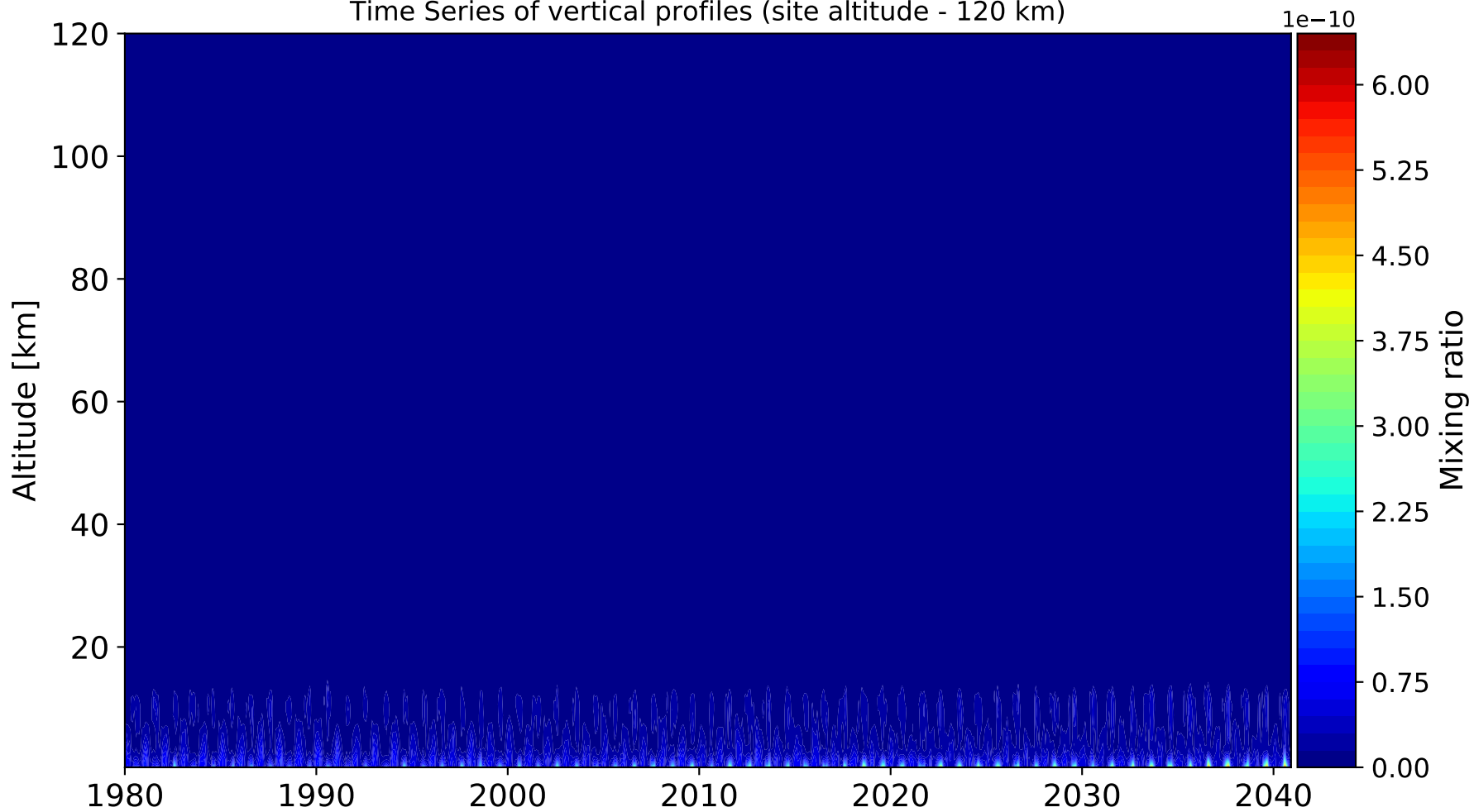
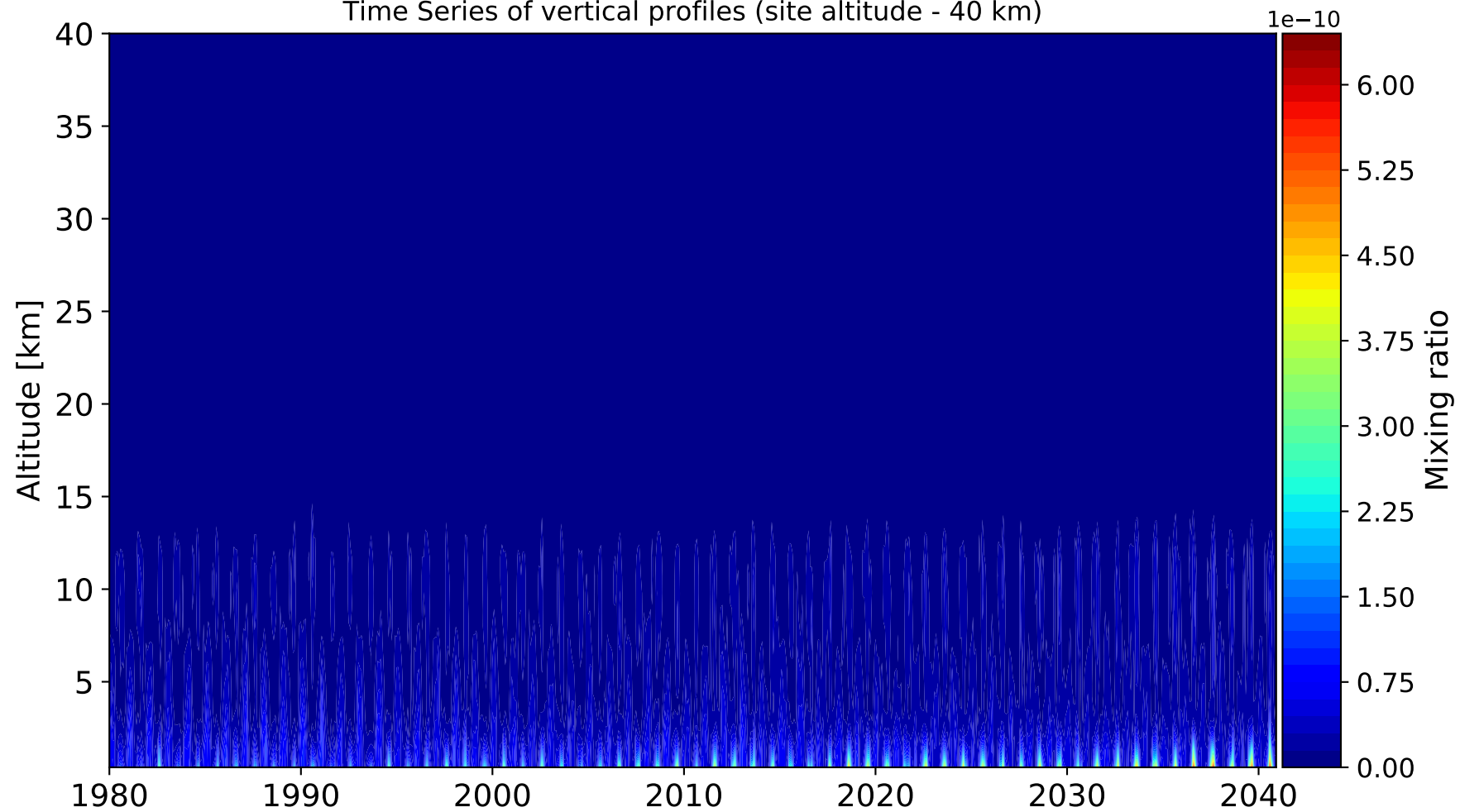


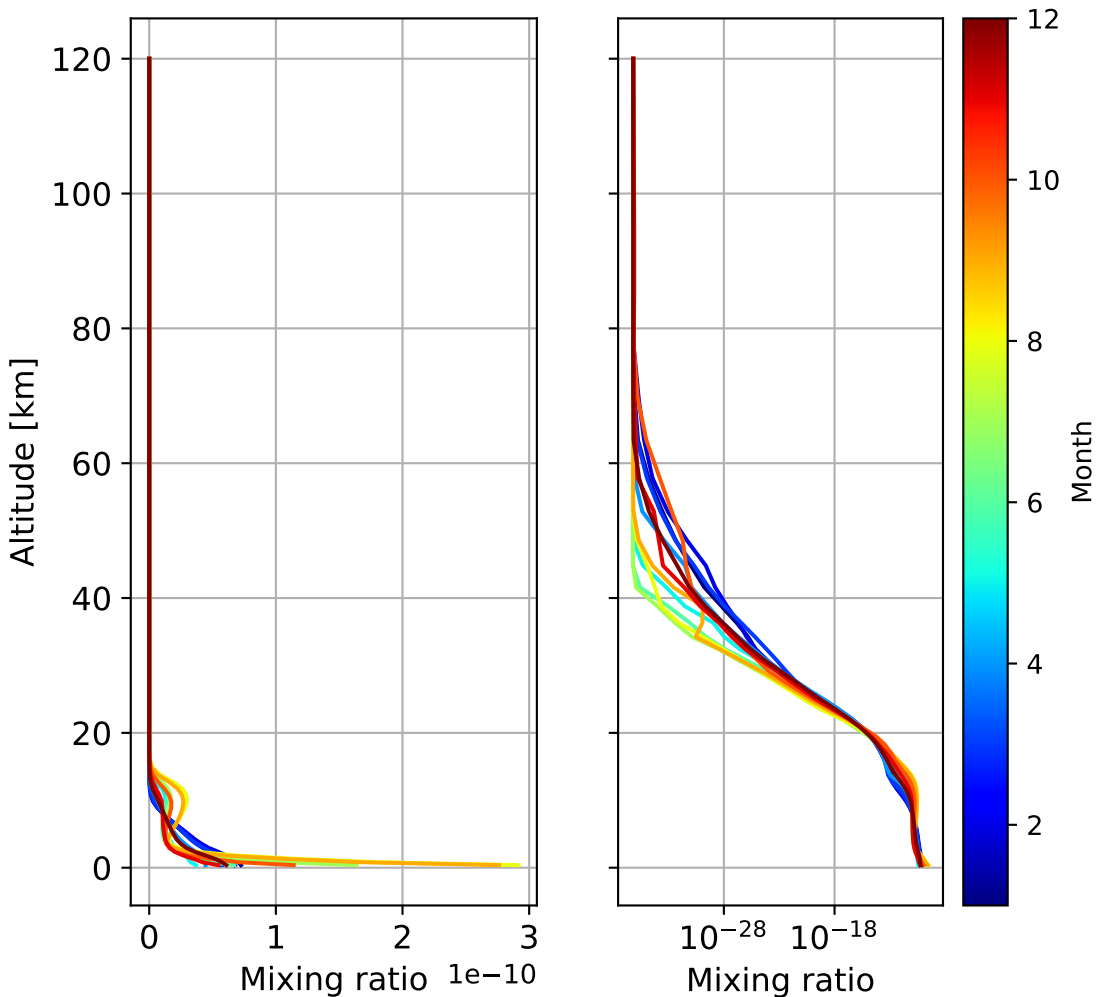
Time Series of vertical profiles (site altitude - 120 km)



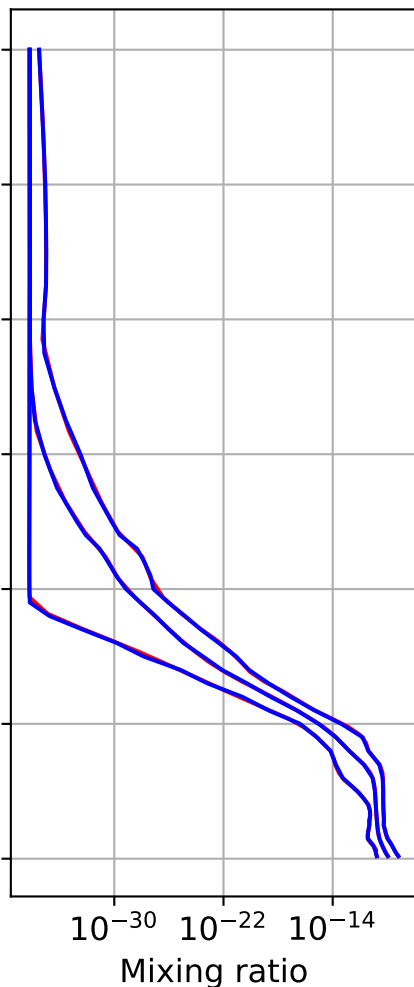
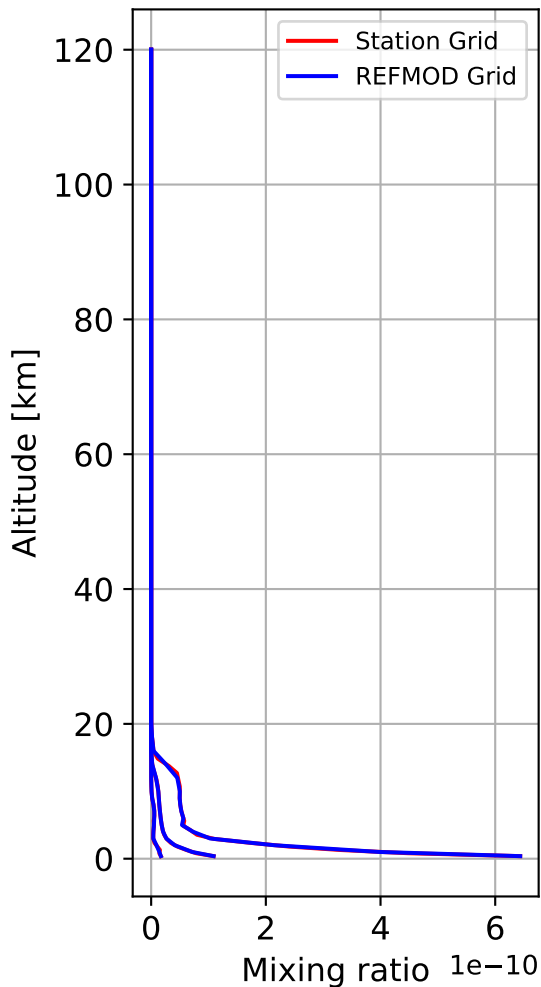
Time Series of vertical profiles (site altitude - 40 km)



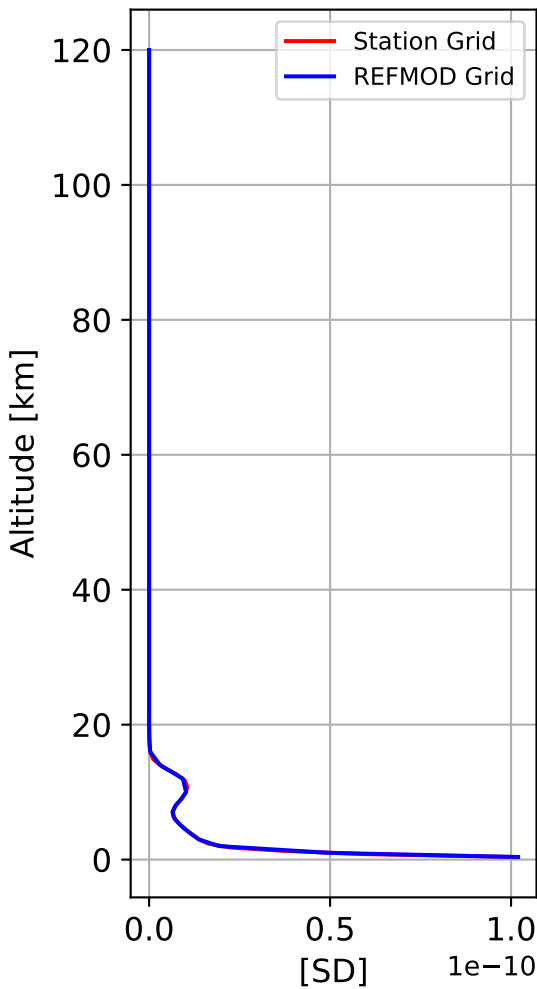
Monthly mean WACCM profile (interpolated to station grid) Rikubetsu, 43.46N, 143.77E, 0.38kmasl



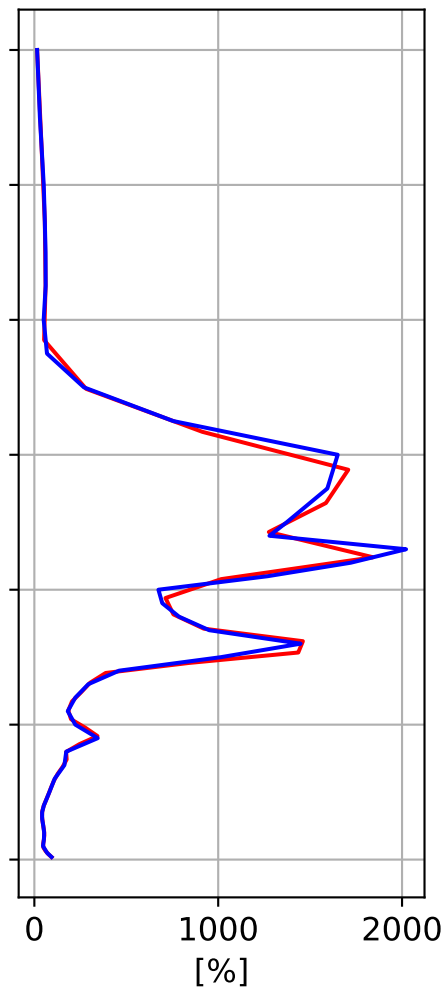
Min, Max, Mean of 732 profiles
Rikubetsu, 43.46N, 143.77E, 0.38kmasl



Std. Deviation



Percent Deviation



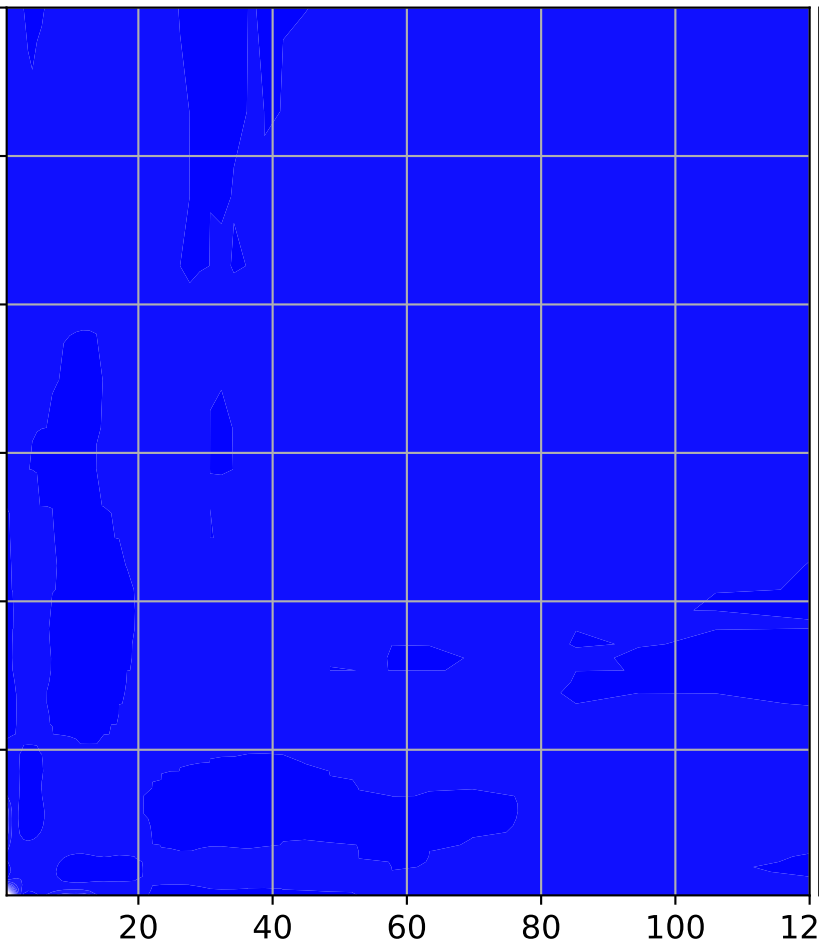
Level covariance matrix

1e-20

Altitude [km]

120
100
80
60
40
20

Altitude [km]



1.000
0.875
0.750
0.625
0.500
0.375
0.250
0.125
0.000

Mixing ratio [^2]