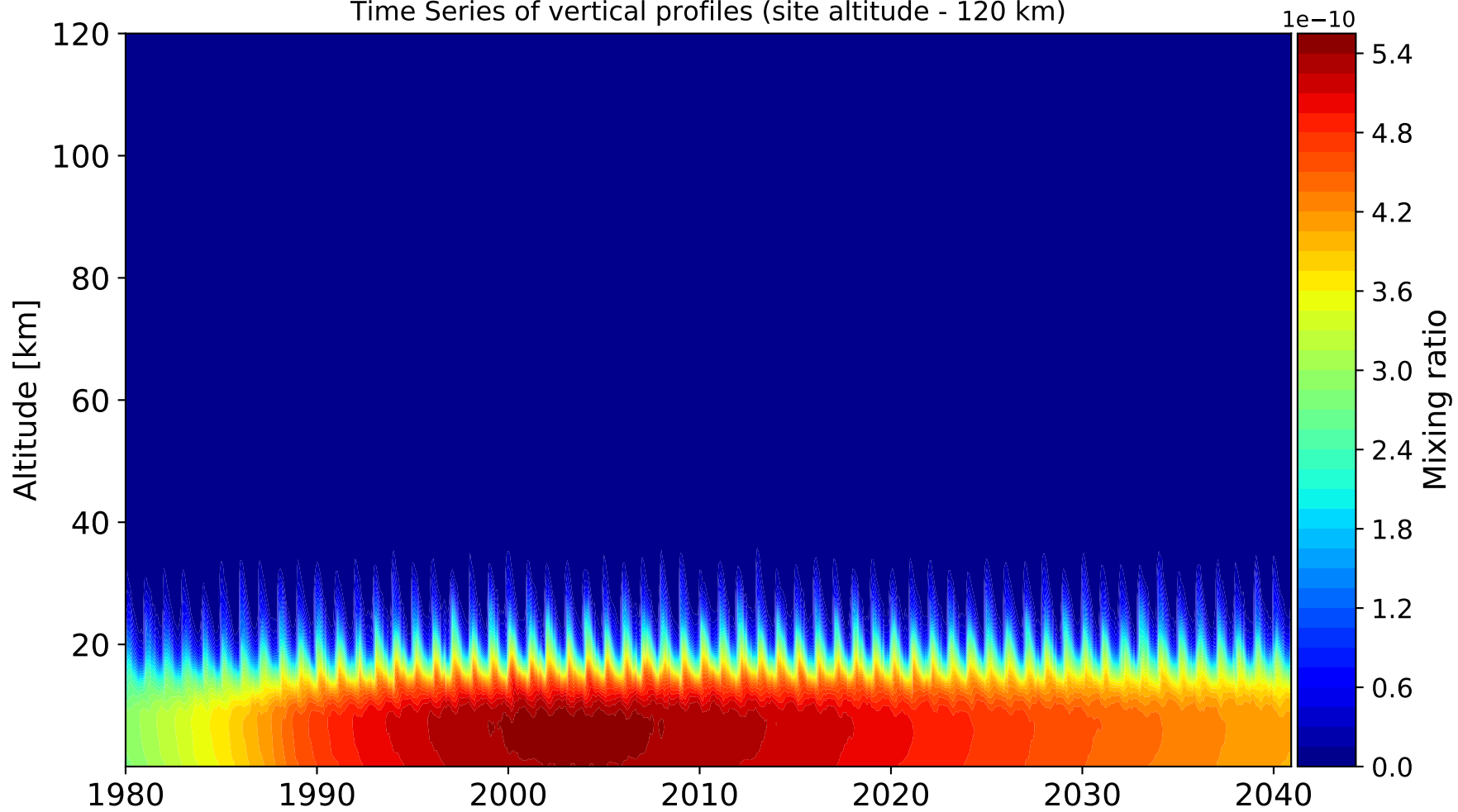
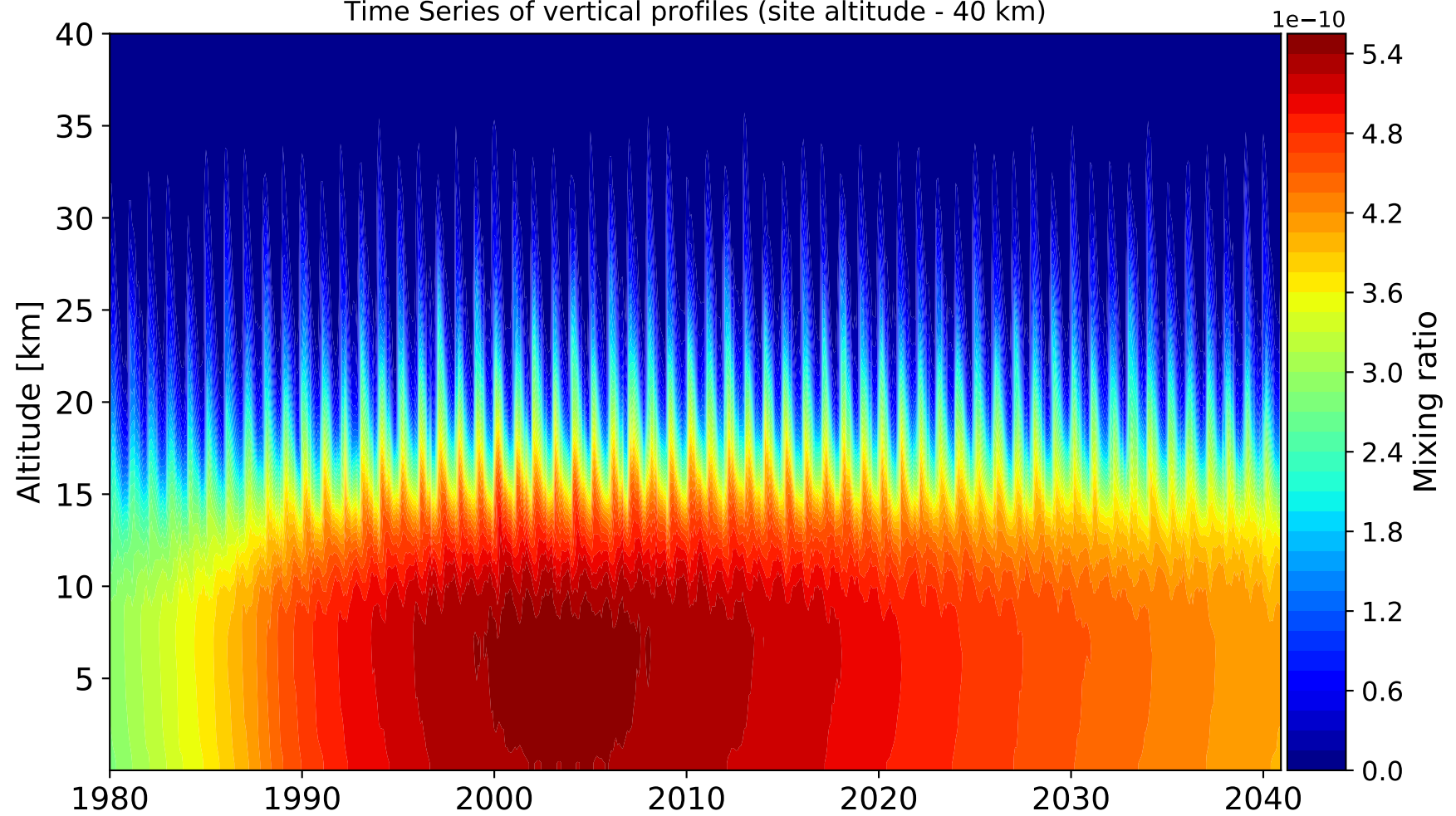


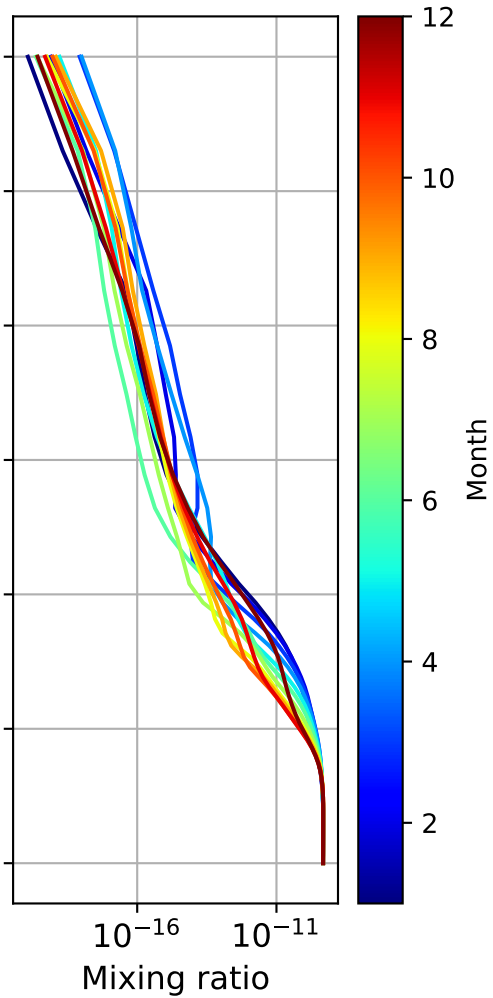
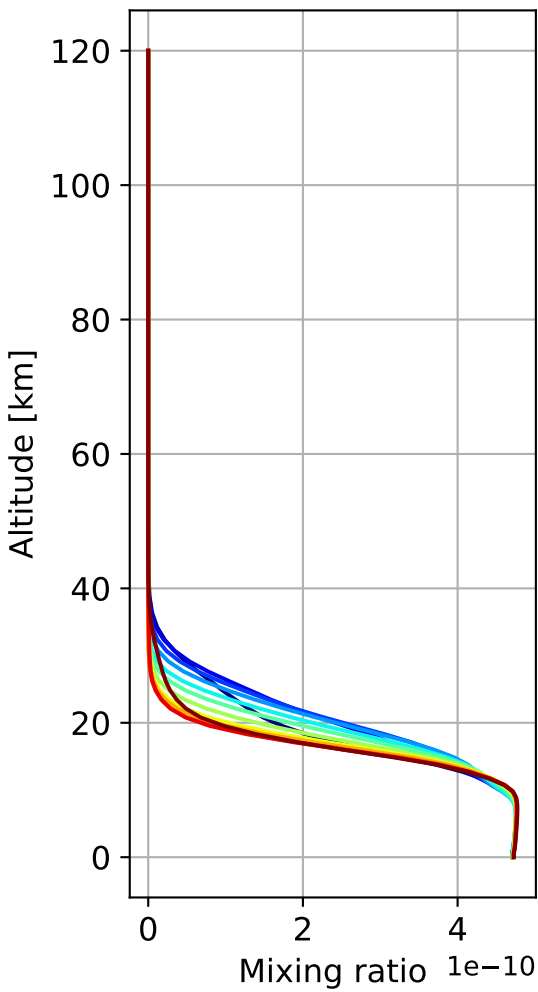
Time Series of vertical profiles (site altitude - 120 km)



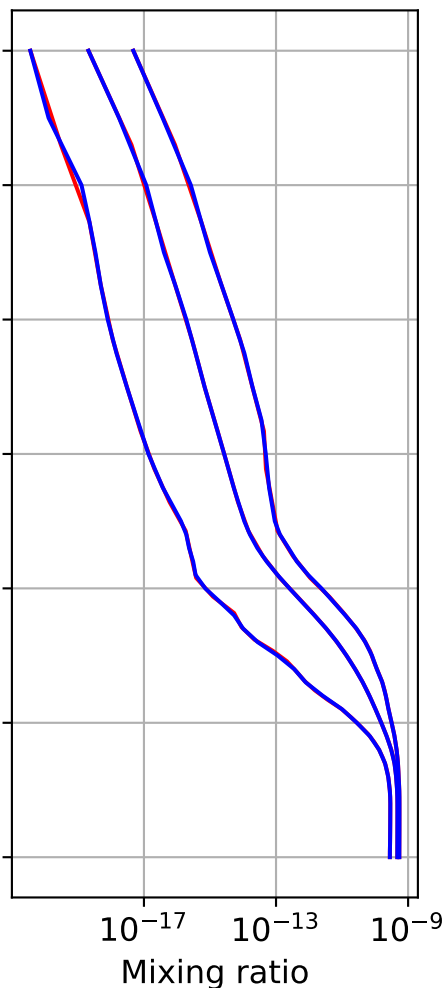
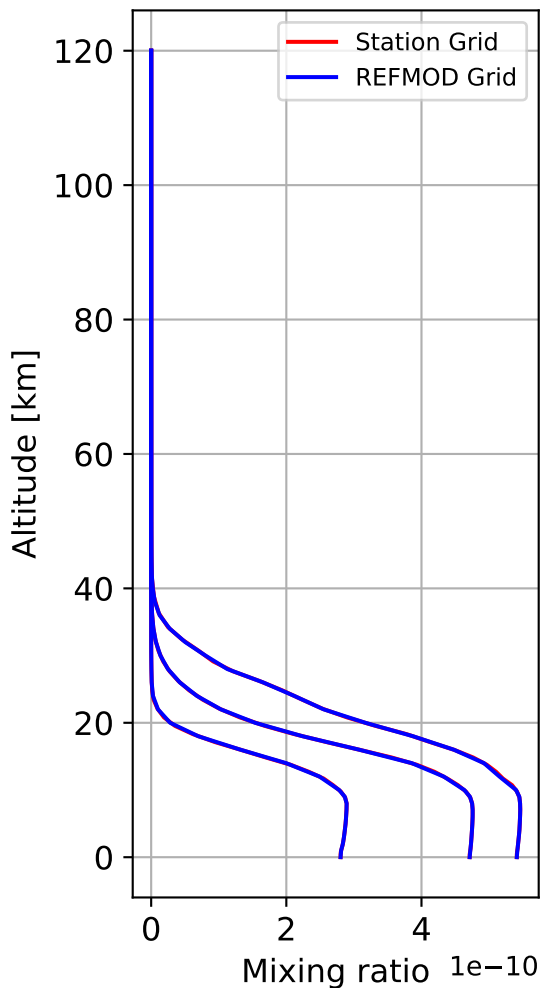
Time Series of vertical profiles (site altitude - 40 km)



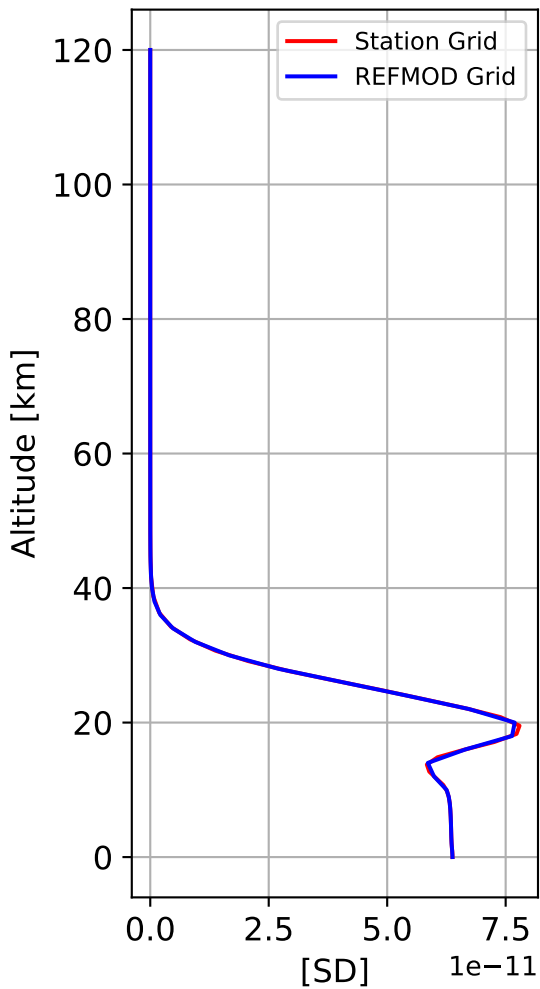
Monthly mean WACCM profile (interpolated to station grid) Syowa_Station, -69.0N, 39.59E, 0.01kmasl



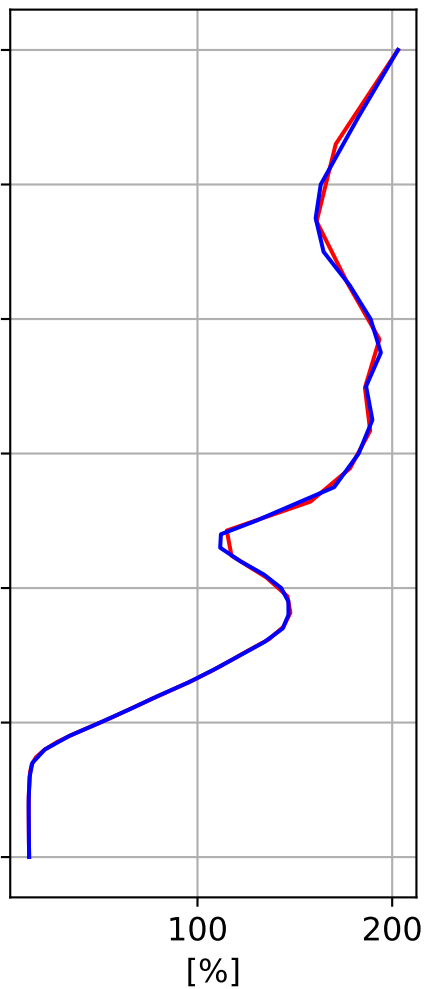
Min, Max, Mean of 732 profiles
Syowa_Station, -69.0N, 39.59E, 0.01kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

1e-21

Altitude [km]

120

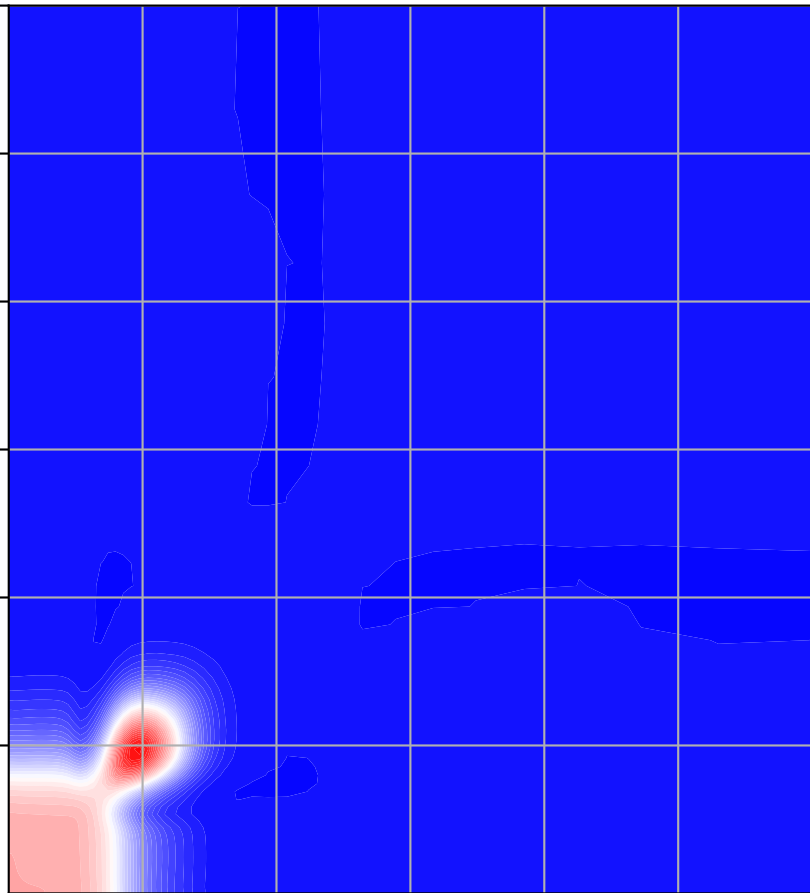
100

80

60

40

20



6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00

Mixing ratio[²]

Altitude [km]