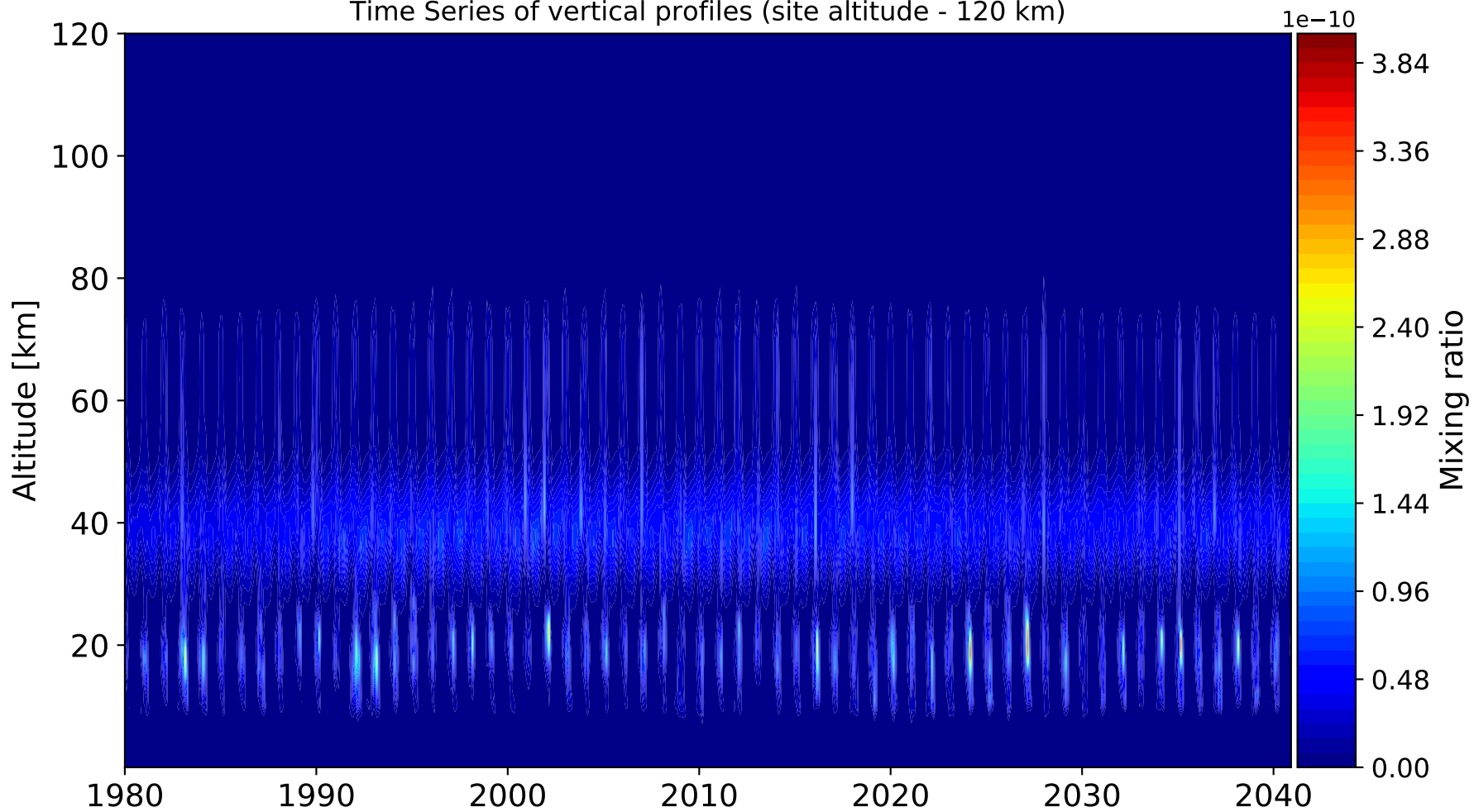
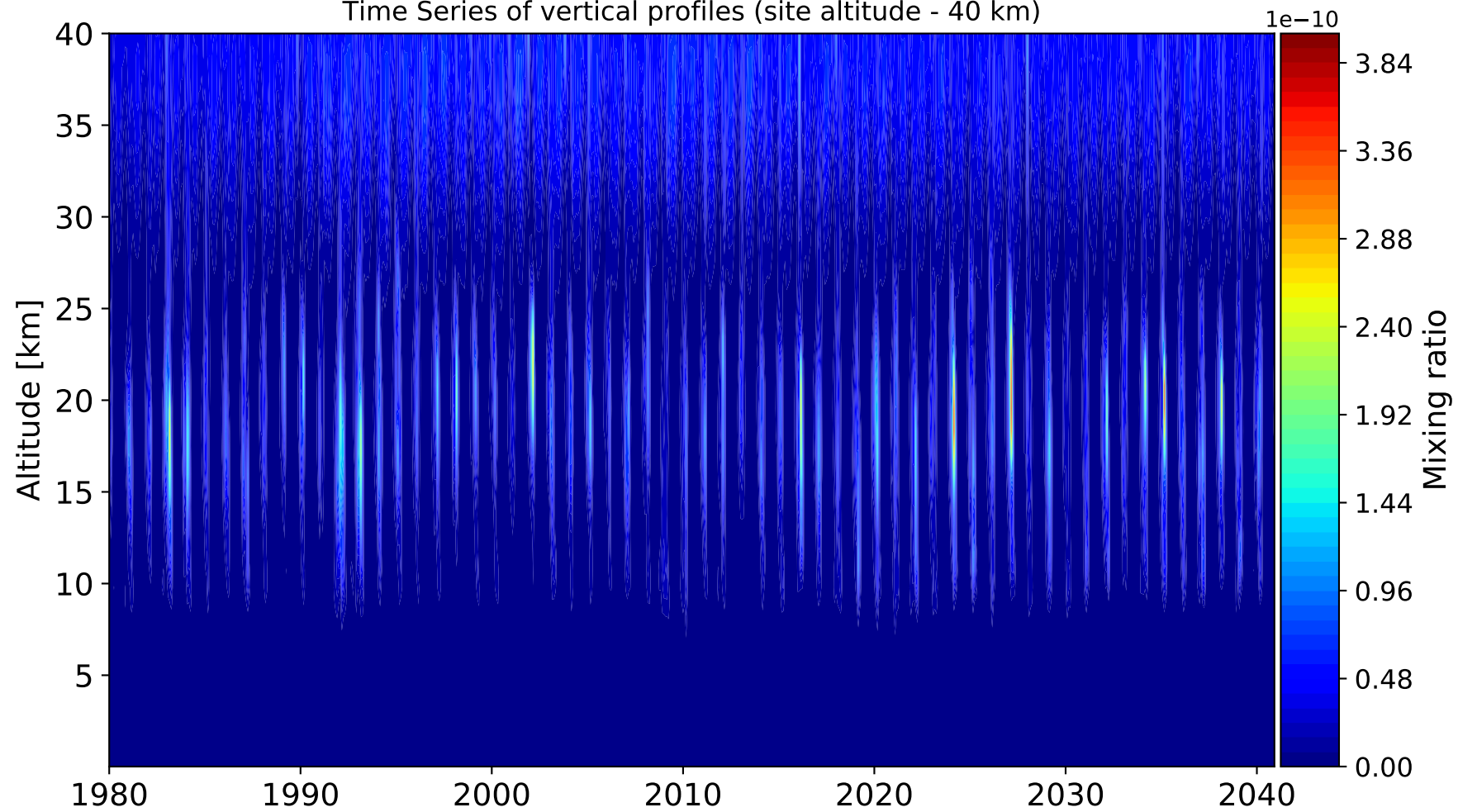


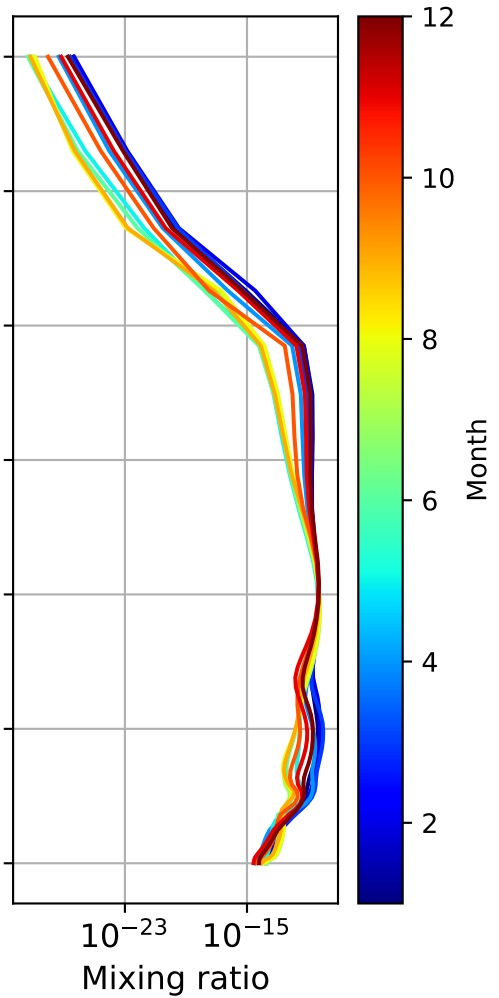
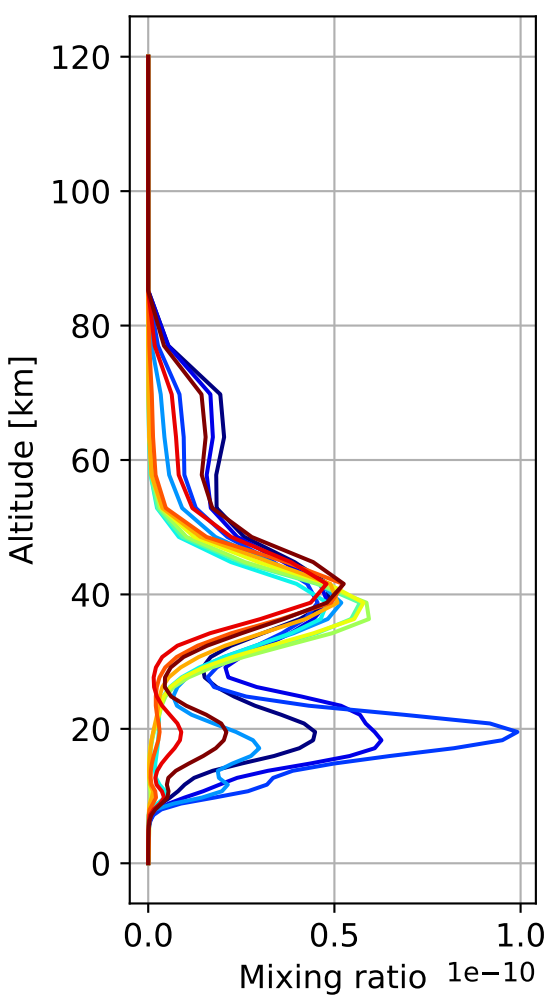
Time Series of vertical profiles (site altitude - 120 km)



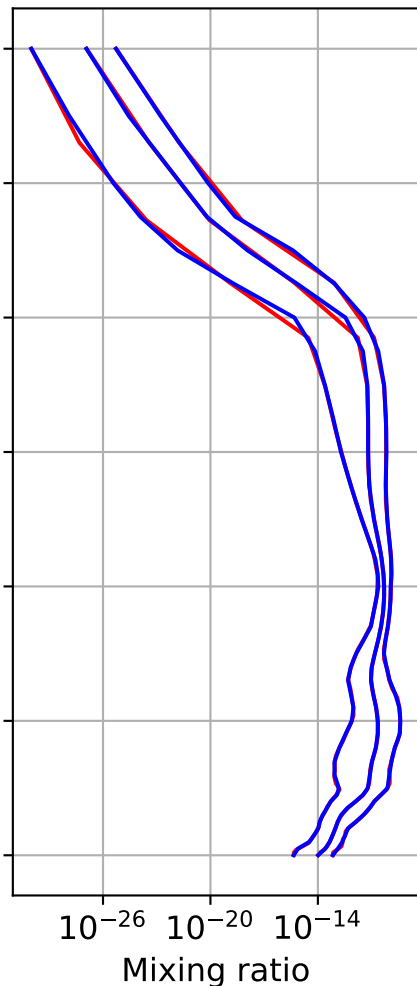
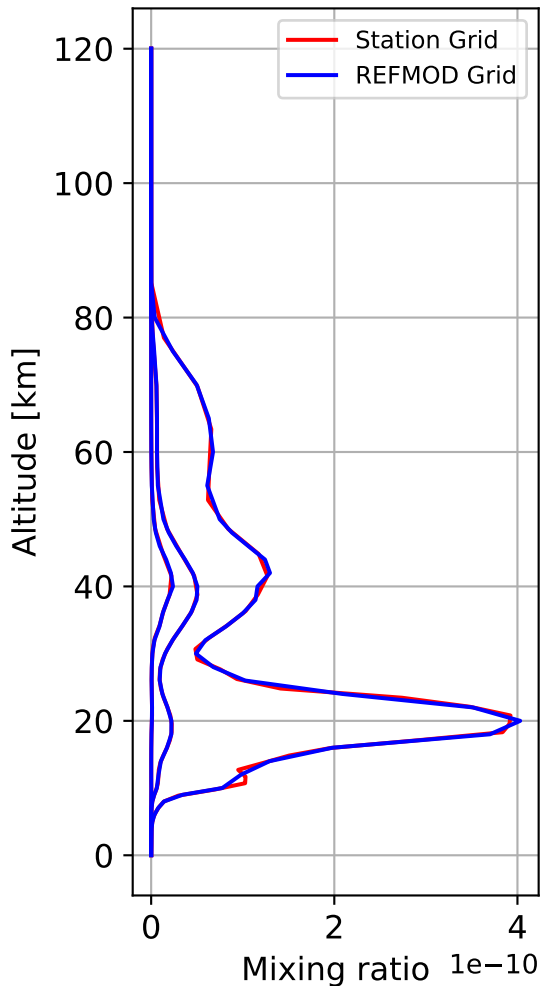
Time Series of vertical profiles (site altitude - 40 km)



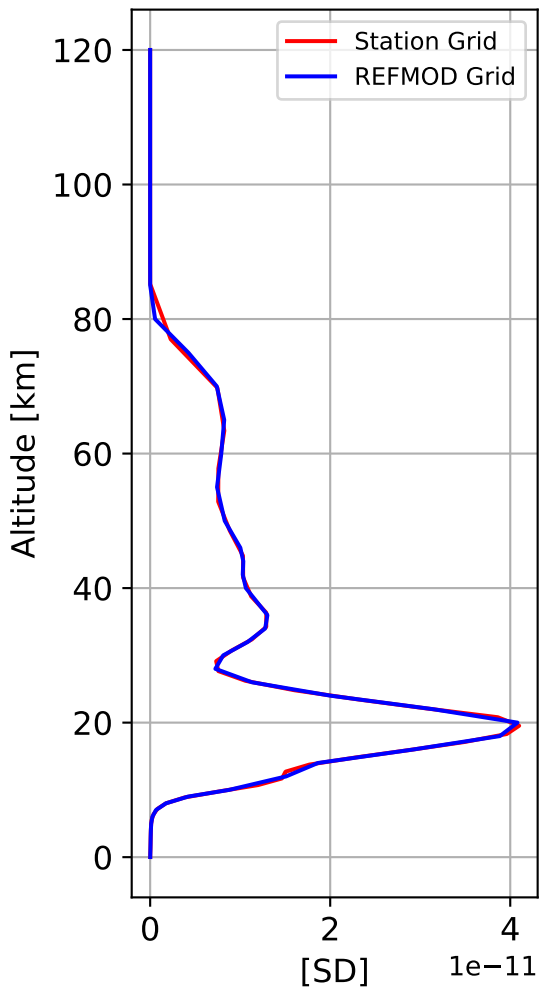
Monthly mean WACCM profile (interpolated to station grid) Ny_Alesund, 78.9N, 11.9E, 0.02kmasl



Min, Max, Mean of 732 profiles
Ny_Alesund, 78.9N, 11.9E, 0.02kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

 $1e-21$

Altitude [km]

120

100

80

60

40

20

20

Altitude [km]

100

120

Mixing ratio[\sim^2]

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0.0

