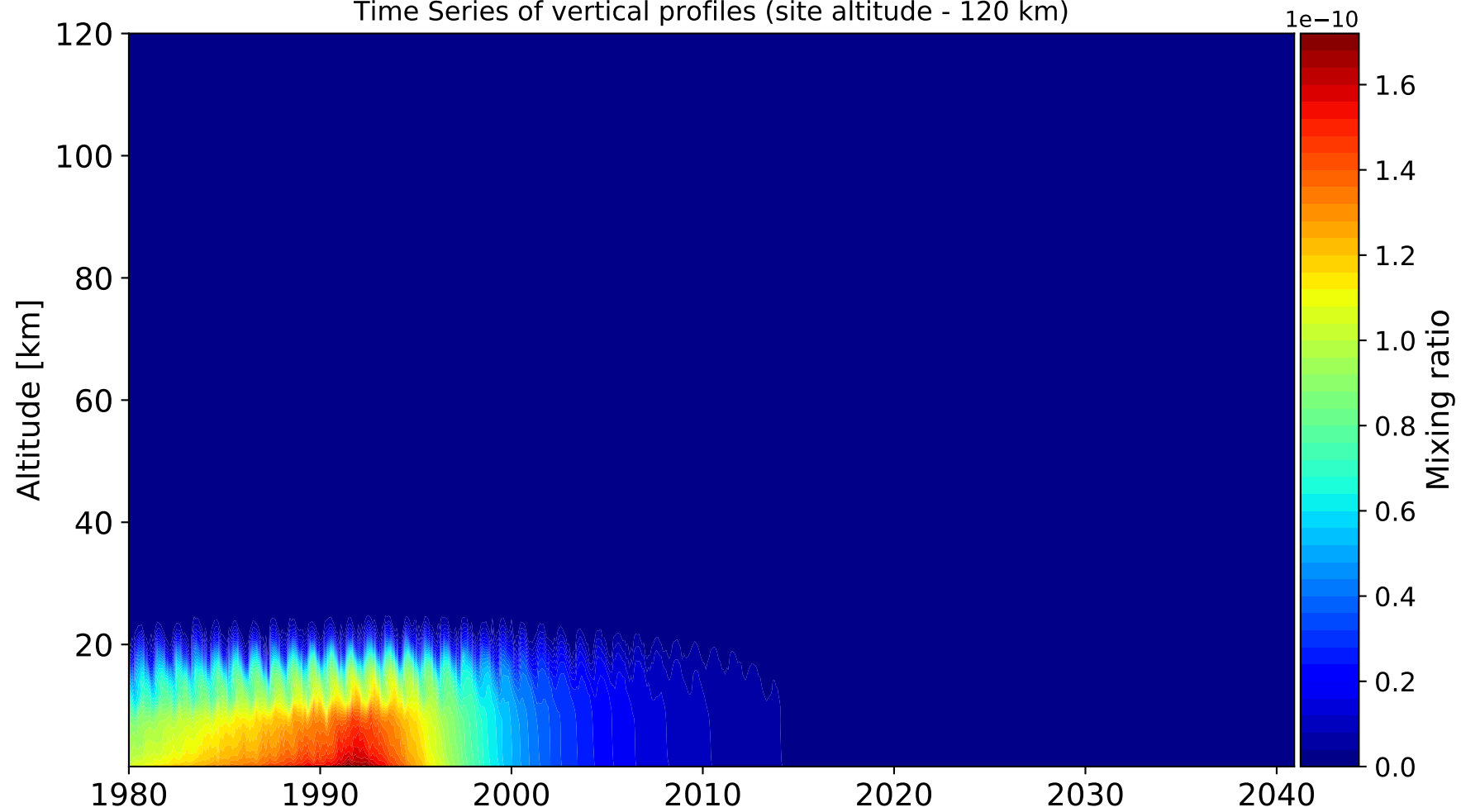
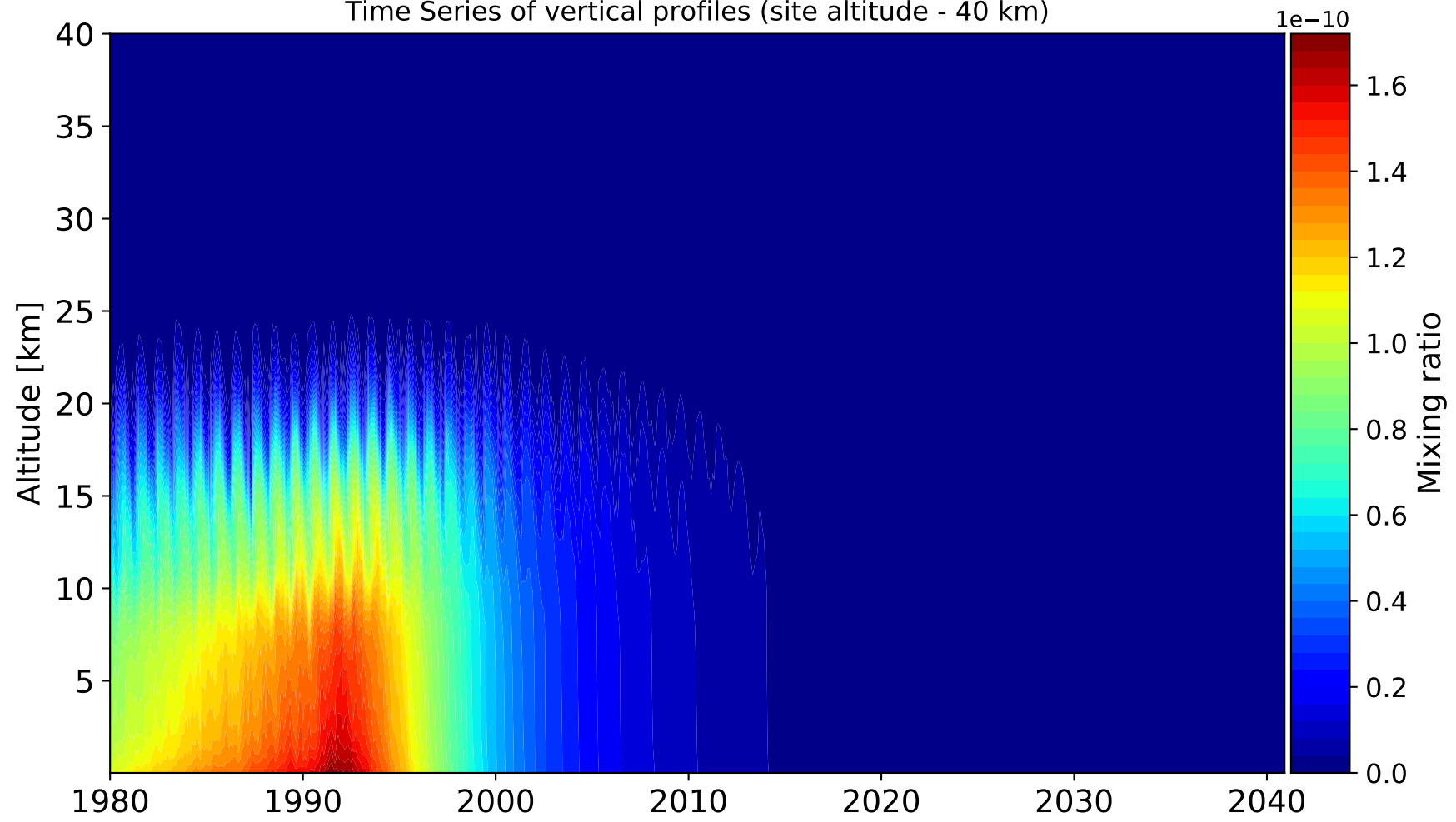


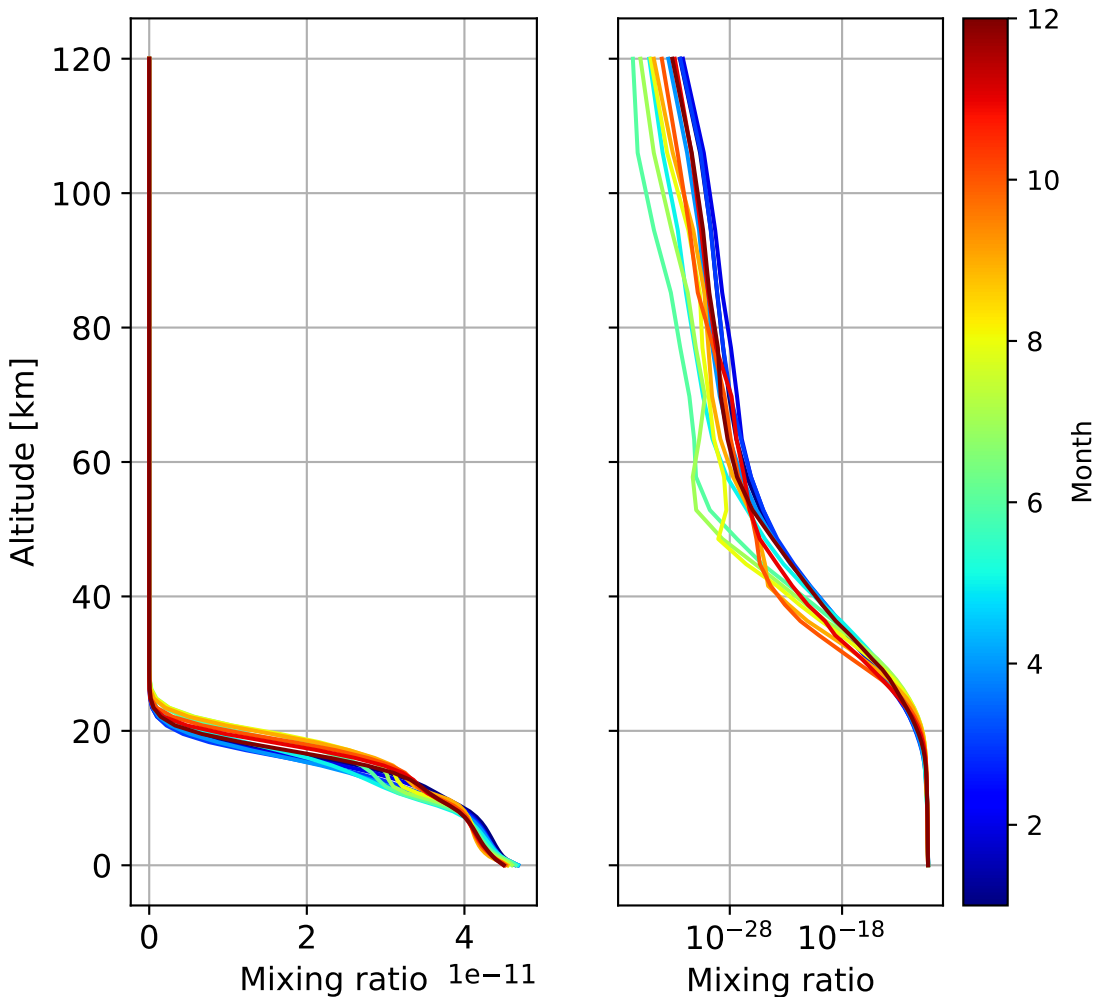
Time Series of vertical profiles (site altitude - 120 km)



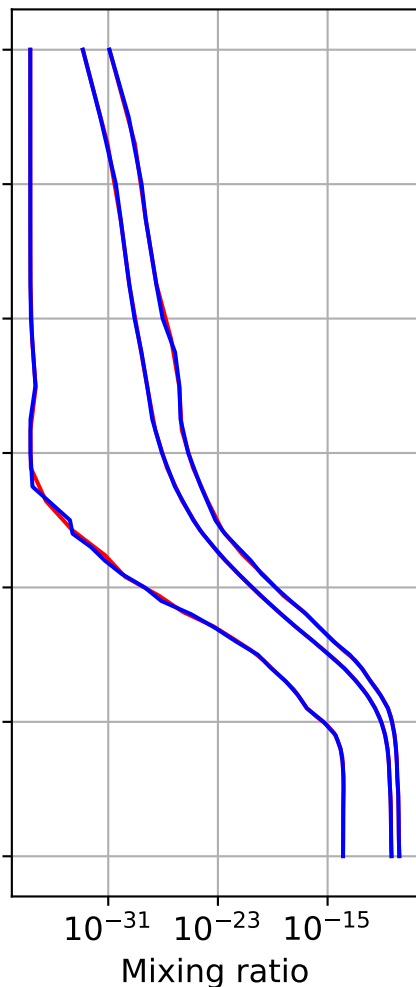
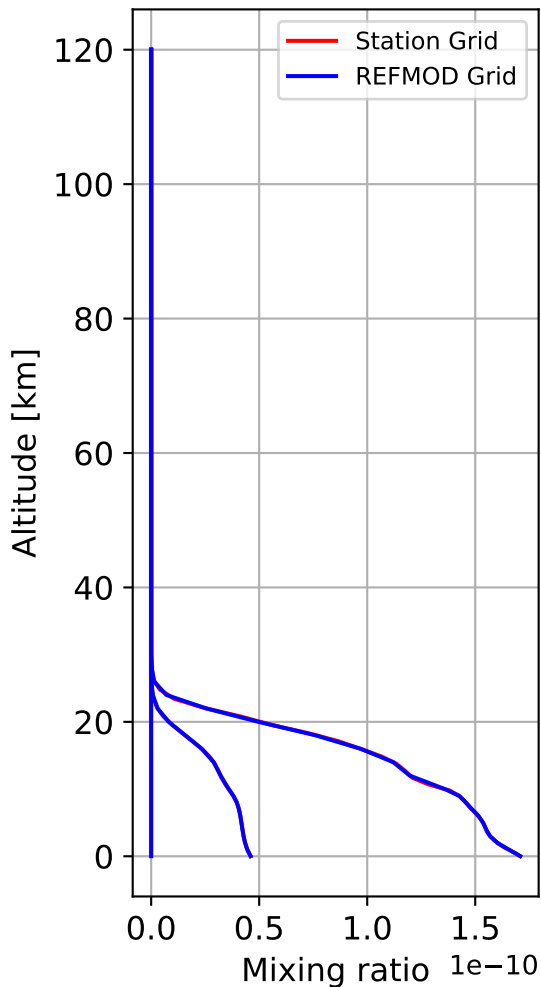
Time Series of vertical profiles (site altitude - 40 km)



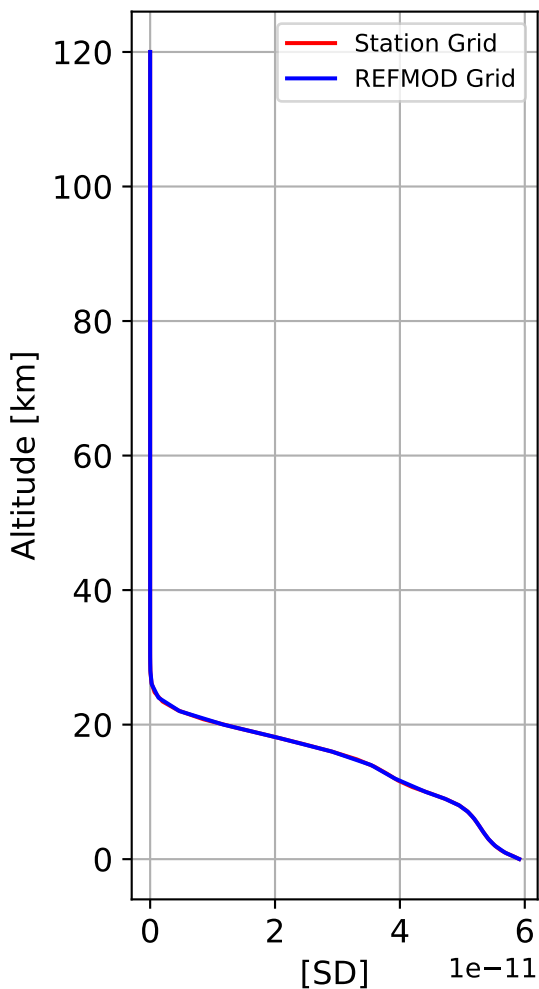
Monthly mean WACCM profile (interpolated to station grid)
Ny_Alesund, 78.9N, 11.9E, 0.02kmasl



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]

80

100

120

3.2

2.8

2.4

2.0

1.6

1.2

0.8

0.4

0.0

Mixing ratio[$\wedge 2$]