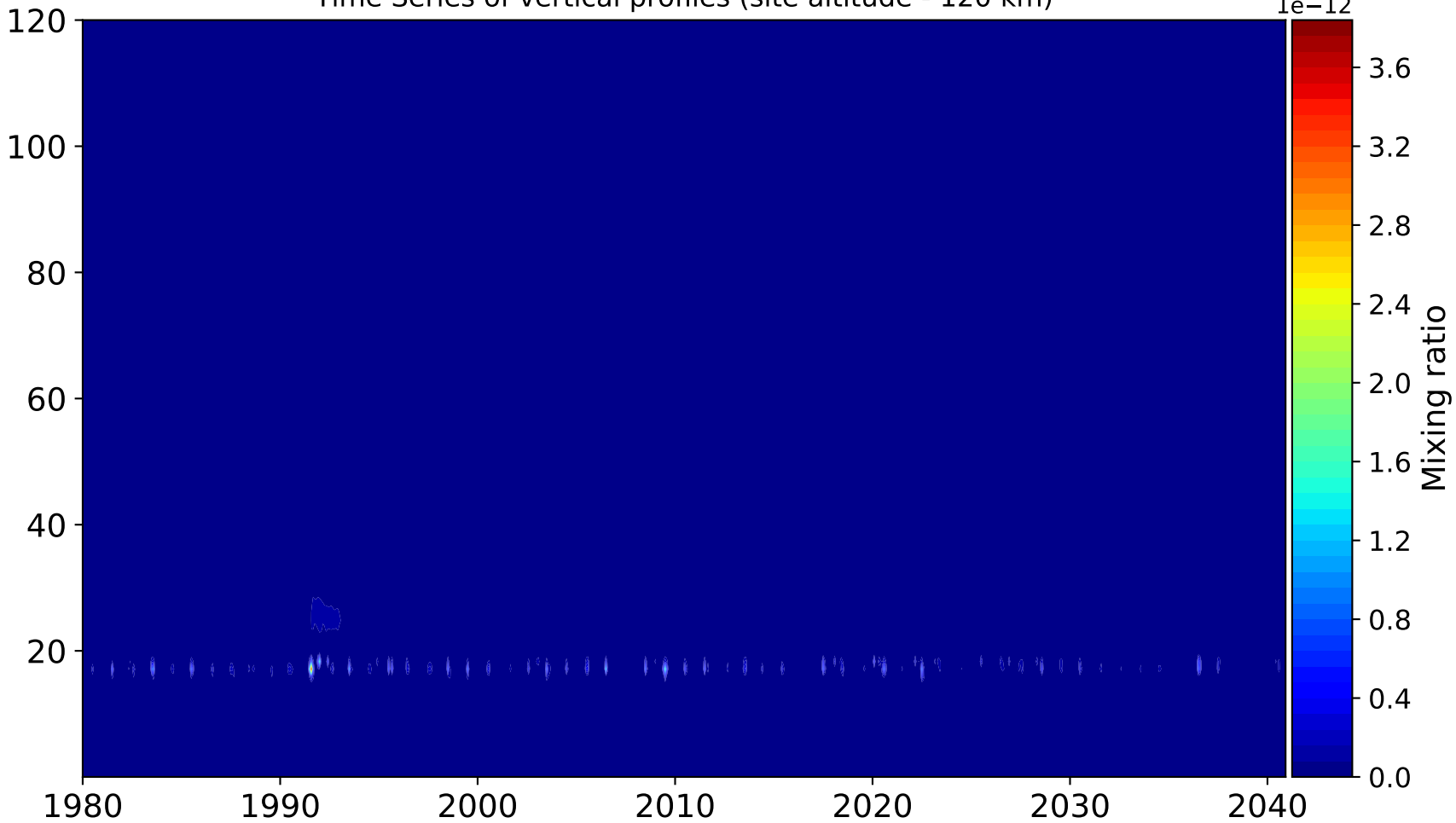


Time Series of vertical profiles (site altitude - 120 km)

Altitude [km]



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

1e-12

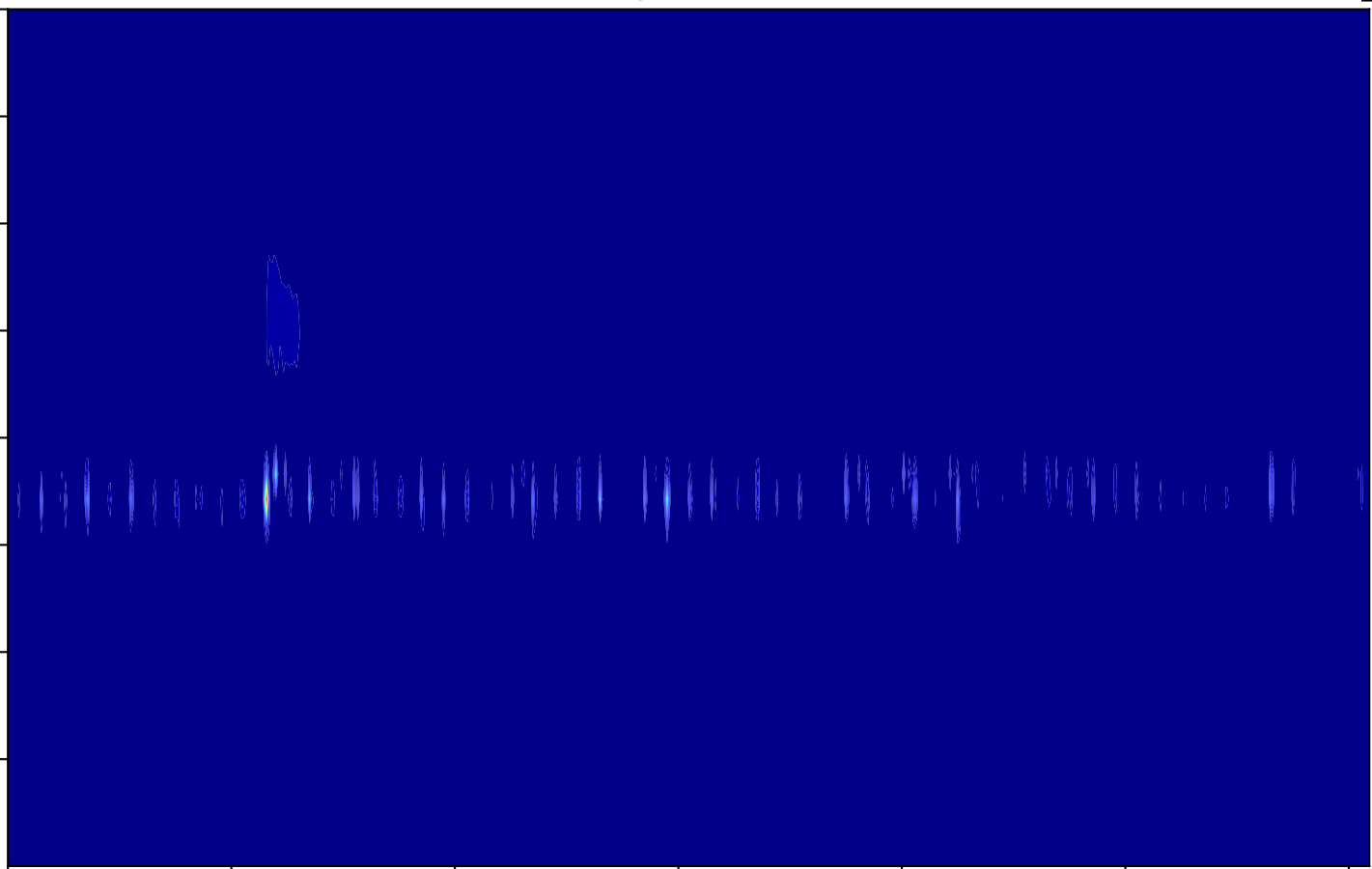
Altitude [km]

40
35
30
25
20
15
10
5

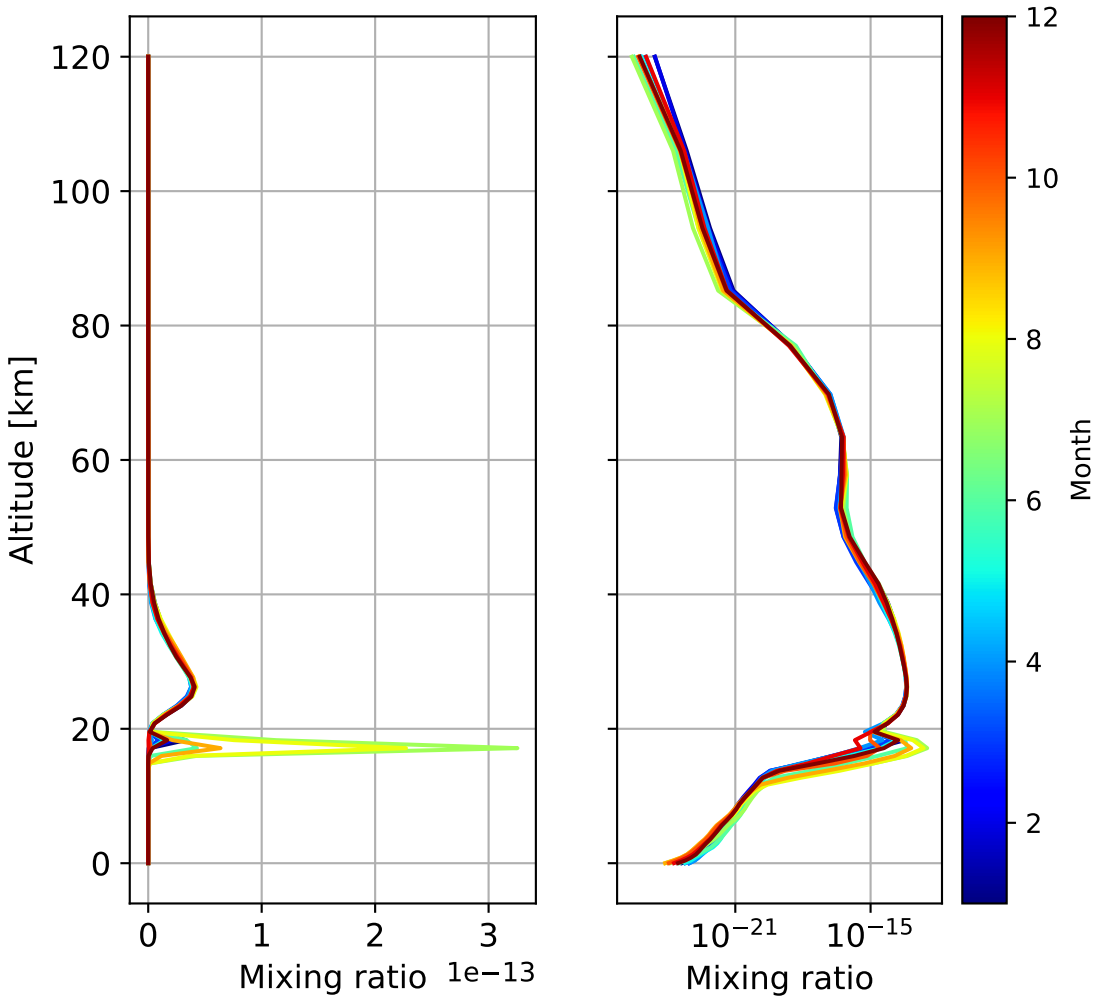
1980 1990 2000 2010 2020 2030 2040

Mixing ratio

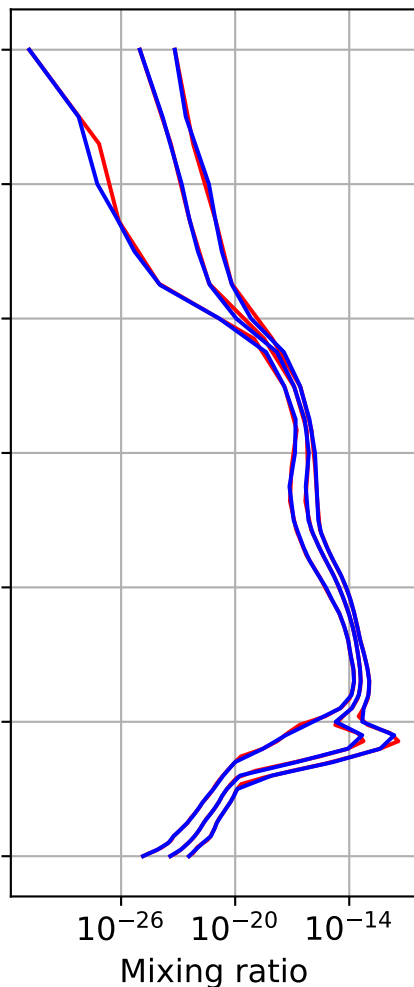
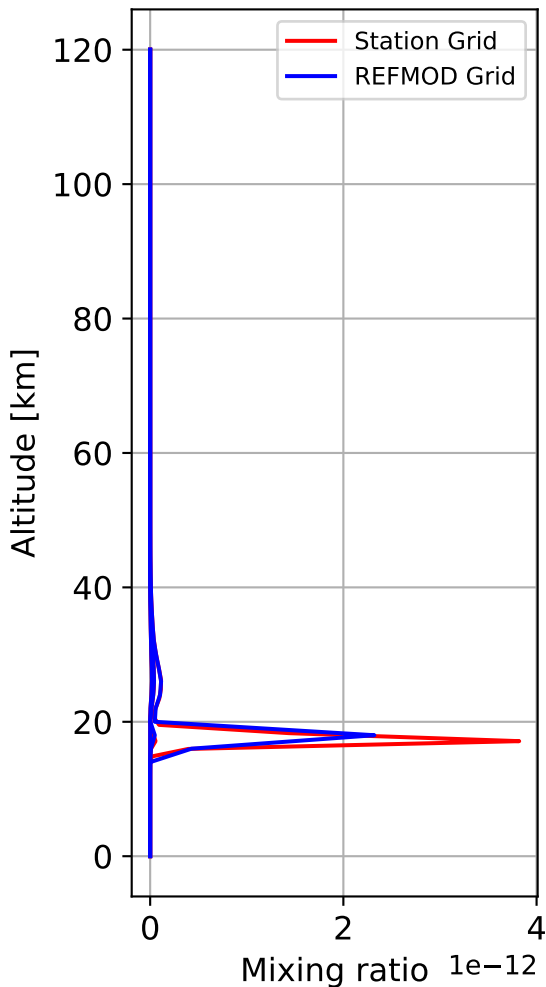
3.6
3.2
2.8
2.4
2.0
1.6
1.2
0.8
0.4
0.0



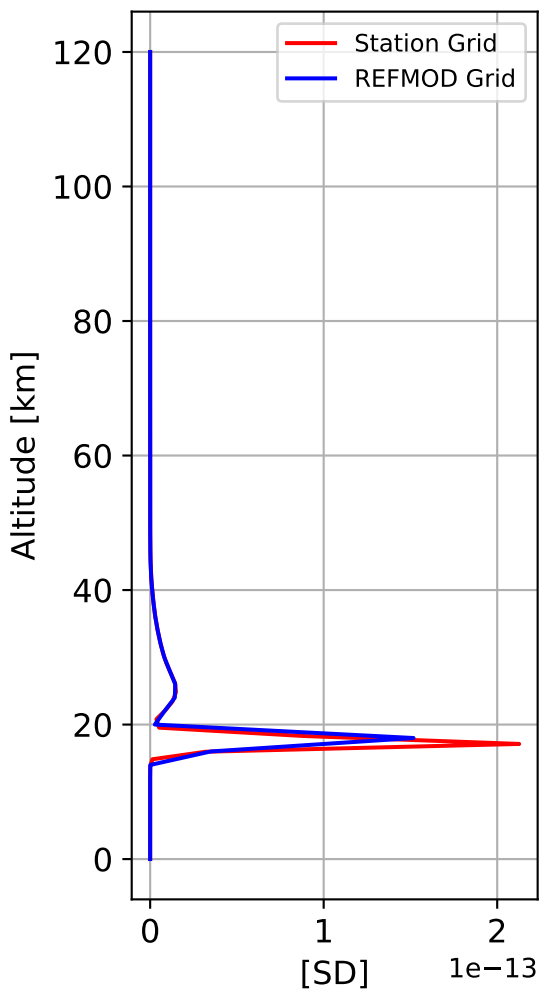
Monthly mean WACCM profile (interpolated to station grid) Palau, 7.342N, 134.4273E, 0.01kmasl



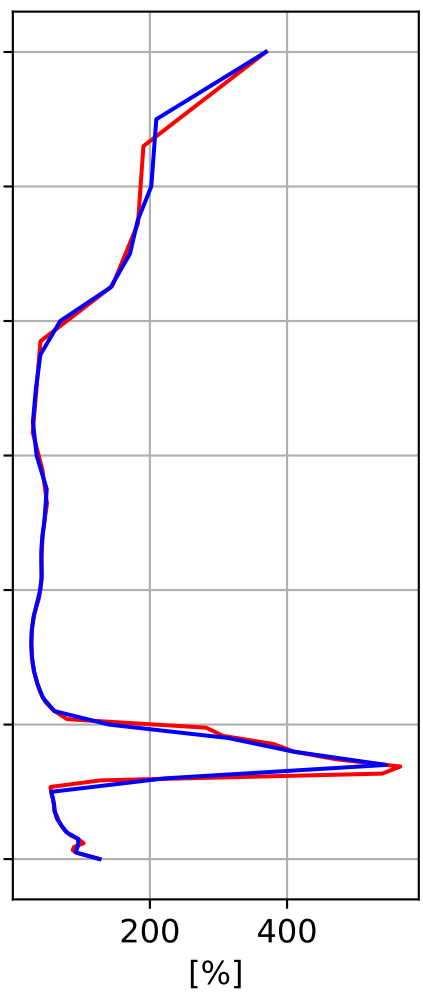
Min, Max, Mean of 732 profiles
Palau, 7.342N, 134.4273E, 0.01kmasl



Std. Deviation



Percent Deviation



Level covariance matrix

 $1e-26$ 