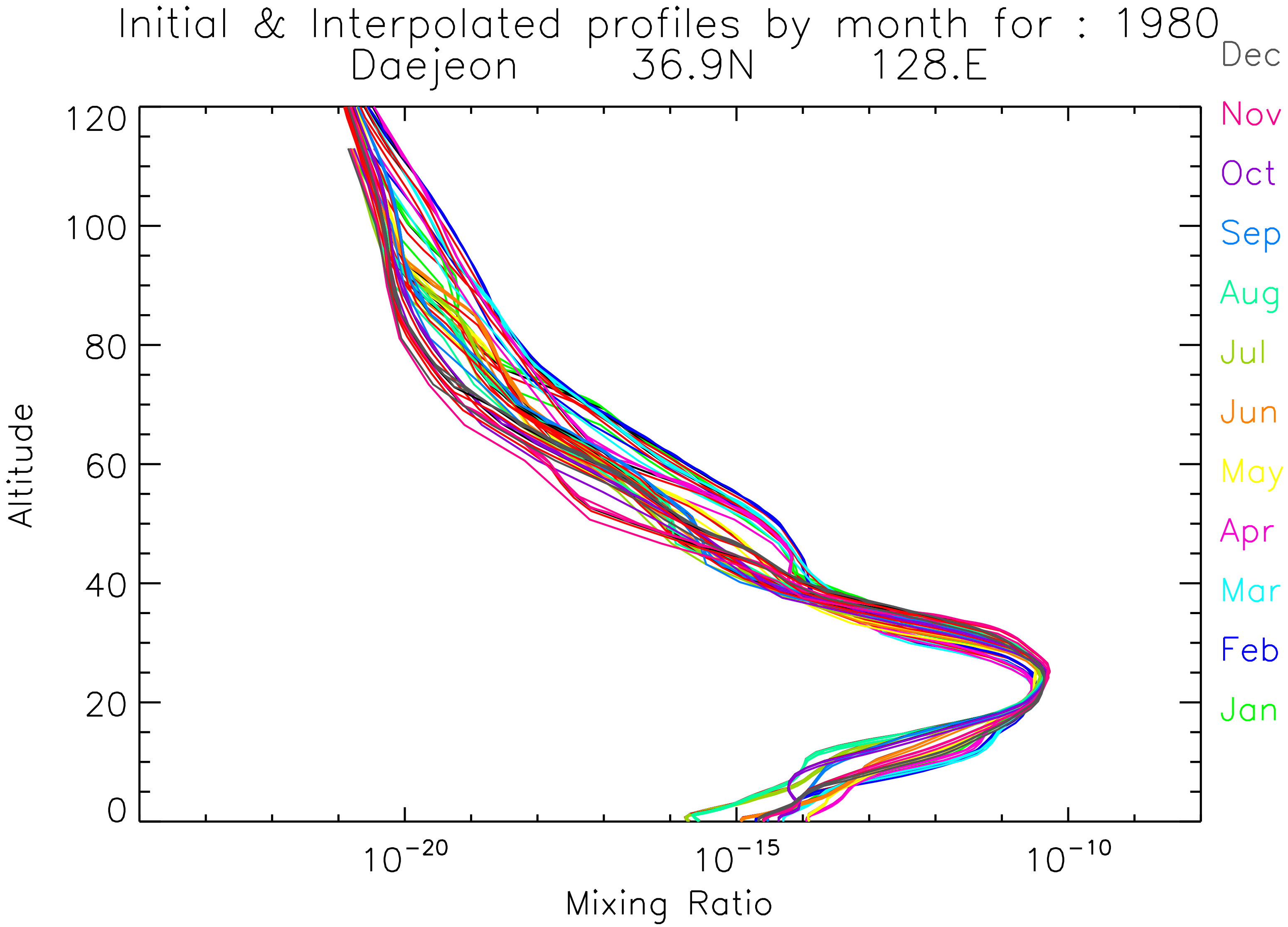
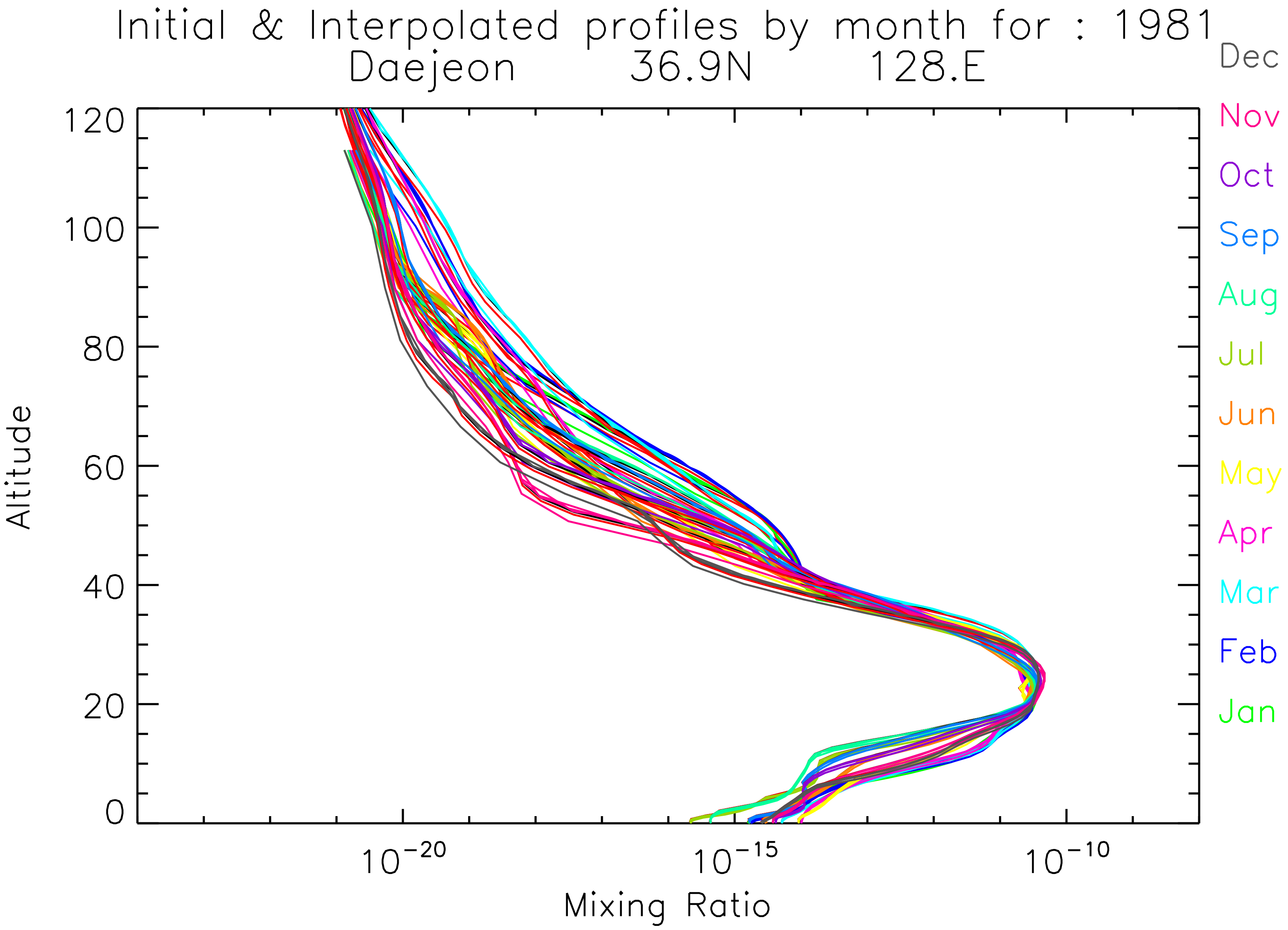
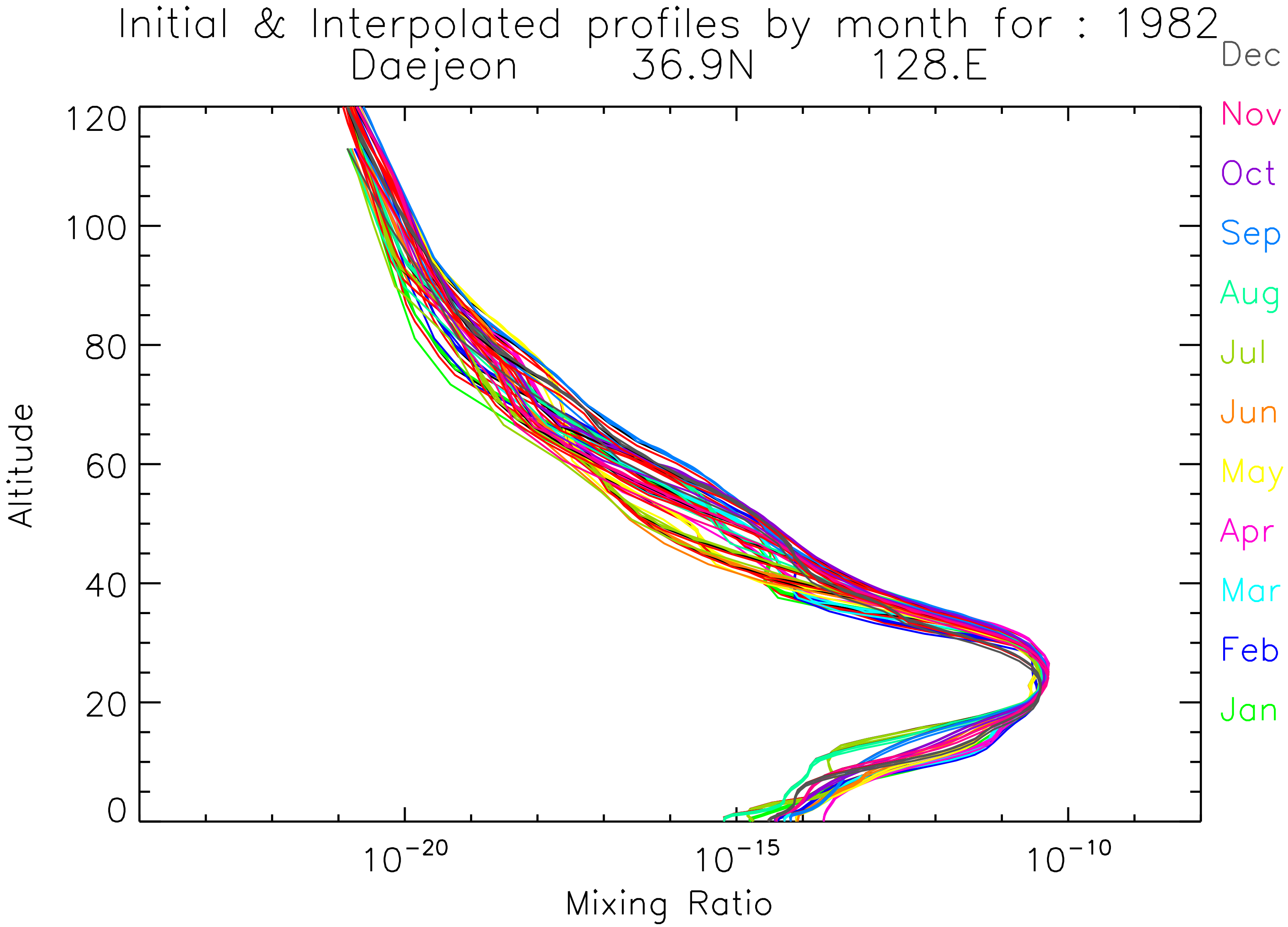
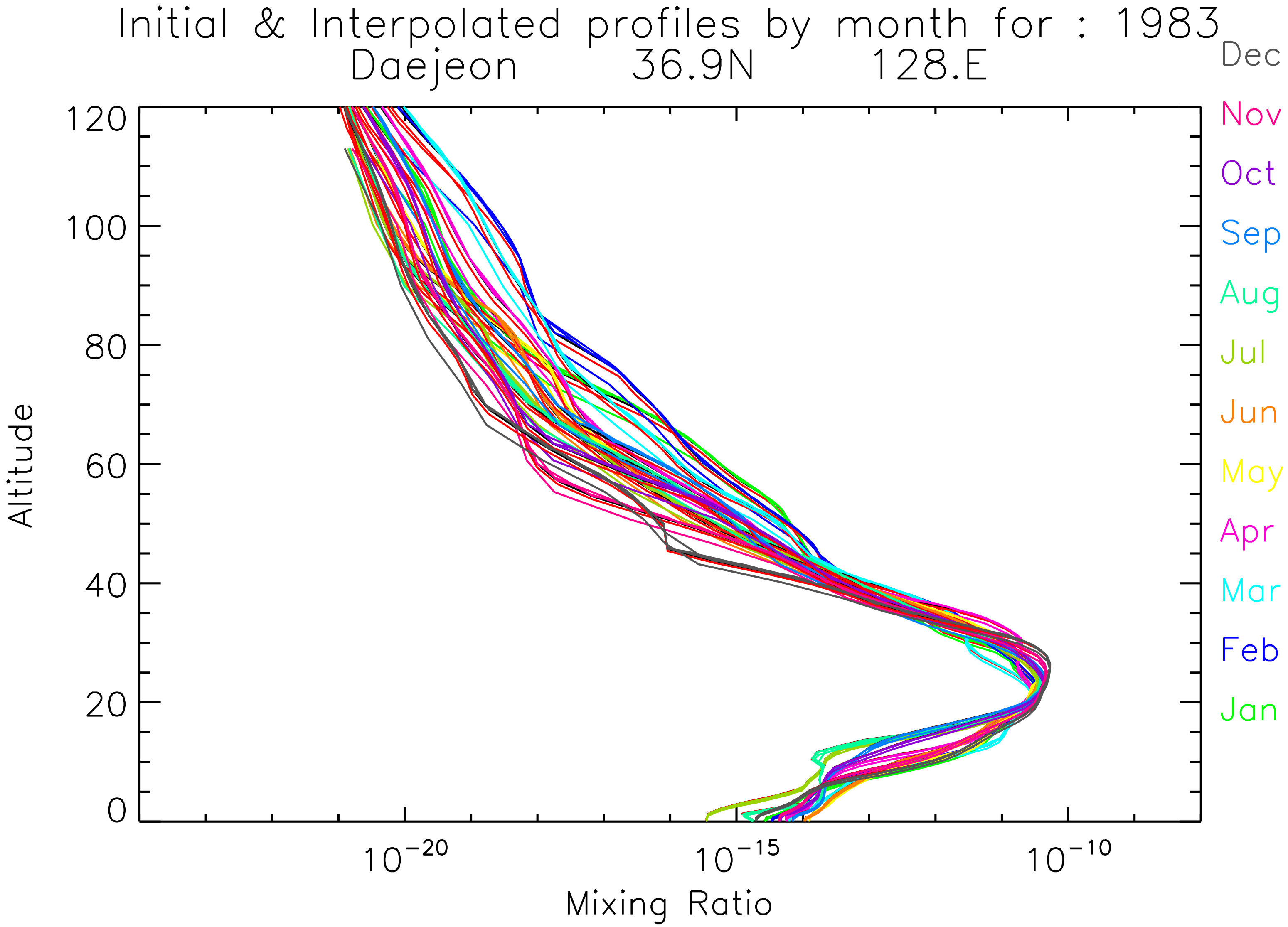

Initial & Interpolated profiles by month for : 1980
Daejeon 36.9N 128.E
Altitude
120
100
80
60
40
20
0
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

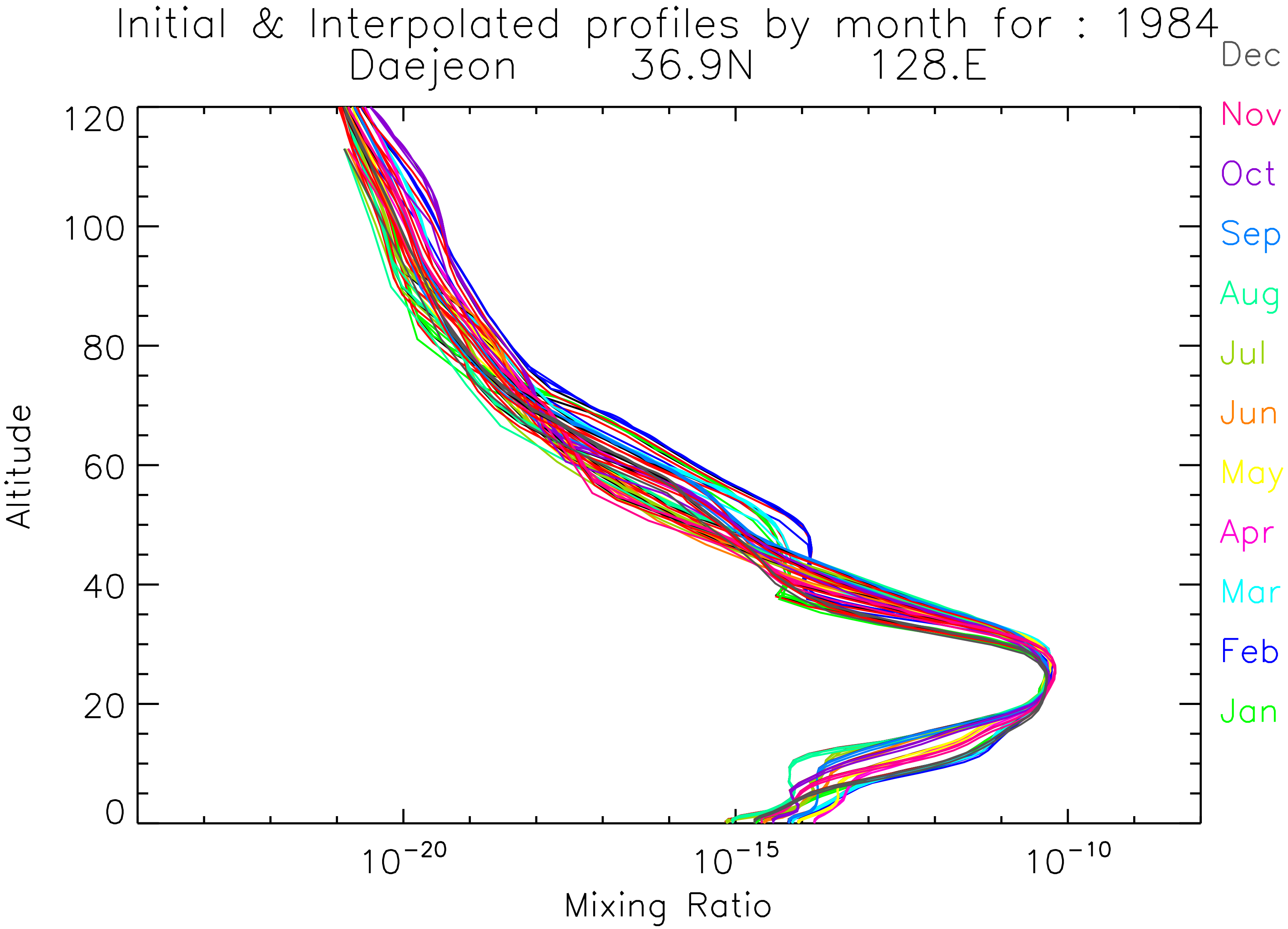


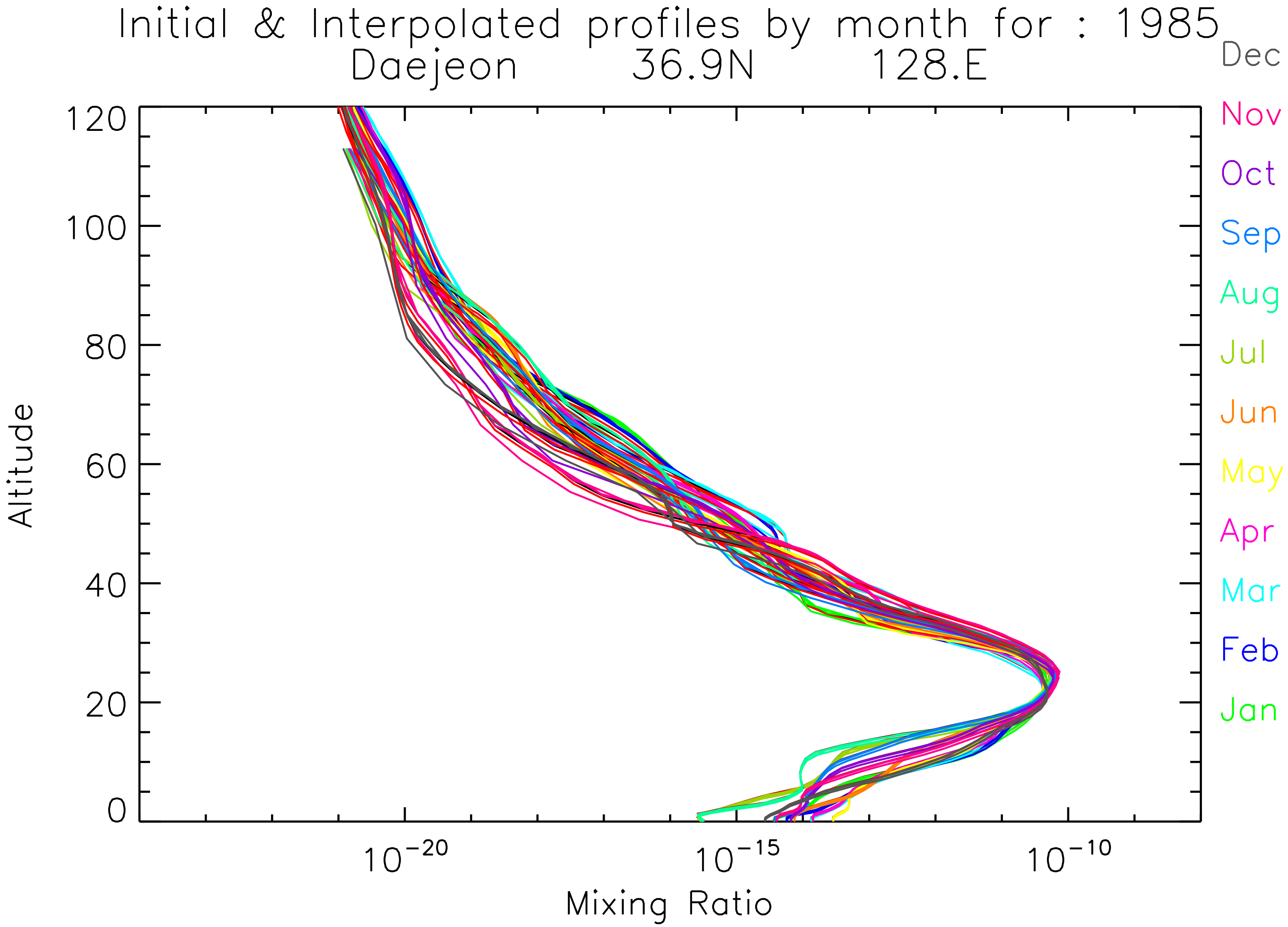
Initial & Interpolated profiles by month for : 1981
Daejeon 36.9N 128.E

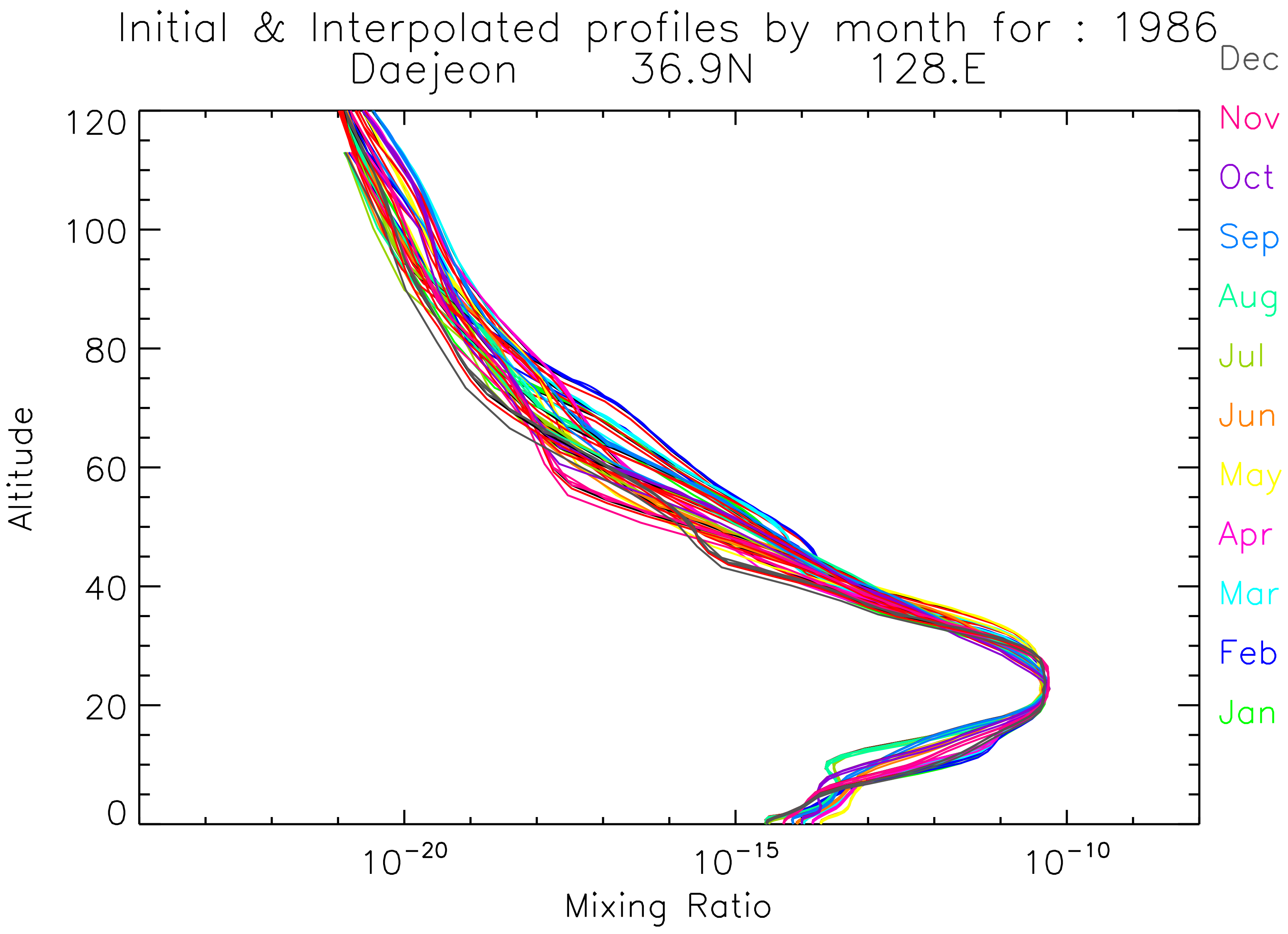

Initial & Interpolated profiles by month for : 1982
Daejeon 36.9N 128.E
Altitude
Mixing Ratio
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



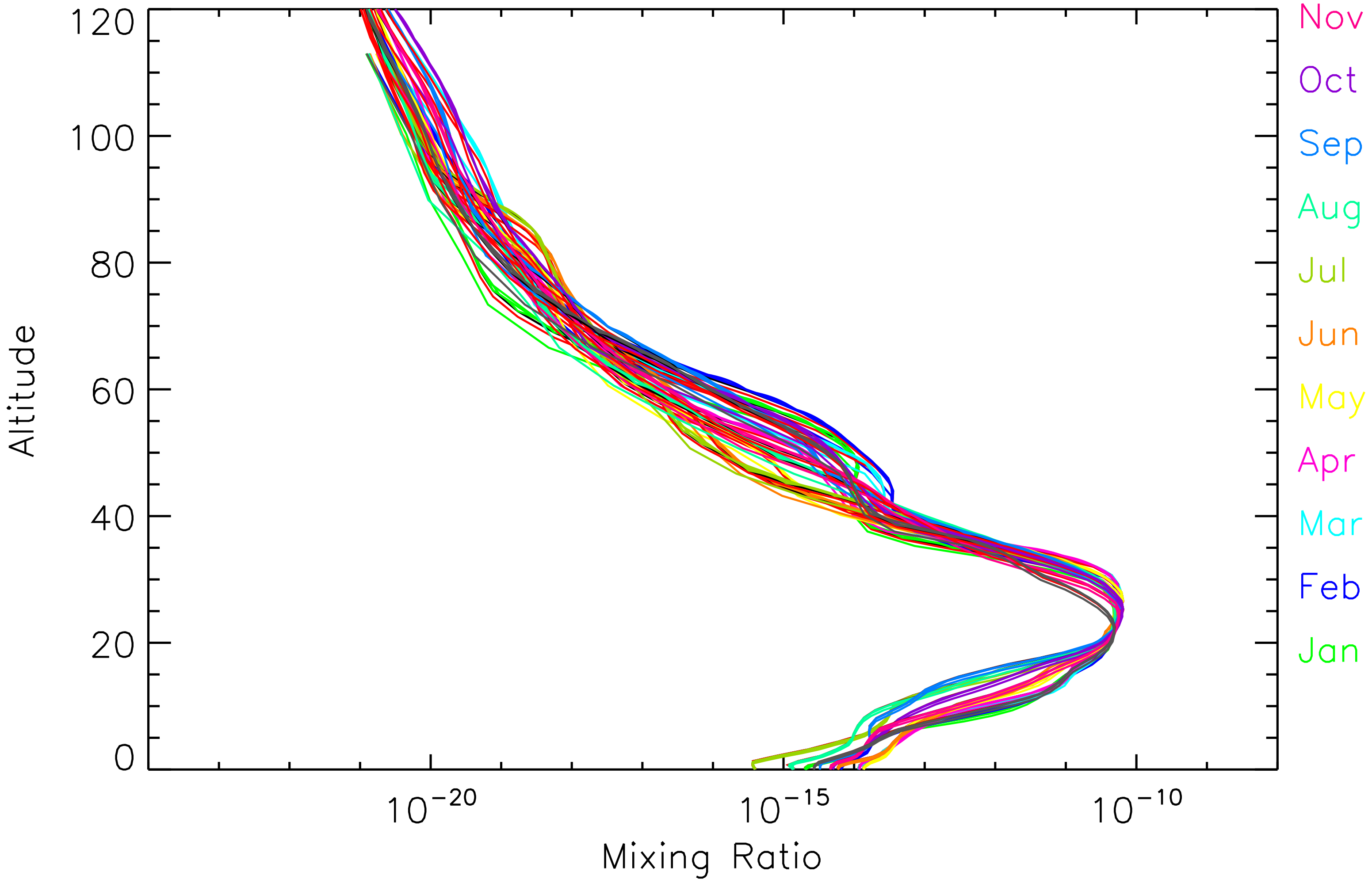
Initial & Interpolated profiles by month for : 1983
Daejeon 36.9N 128.E


Initial & Interpolated profiles by month for : 1984
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

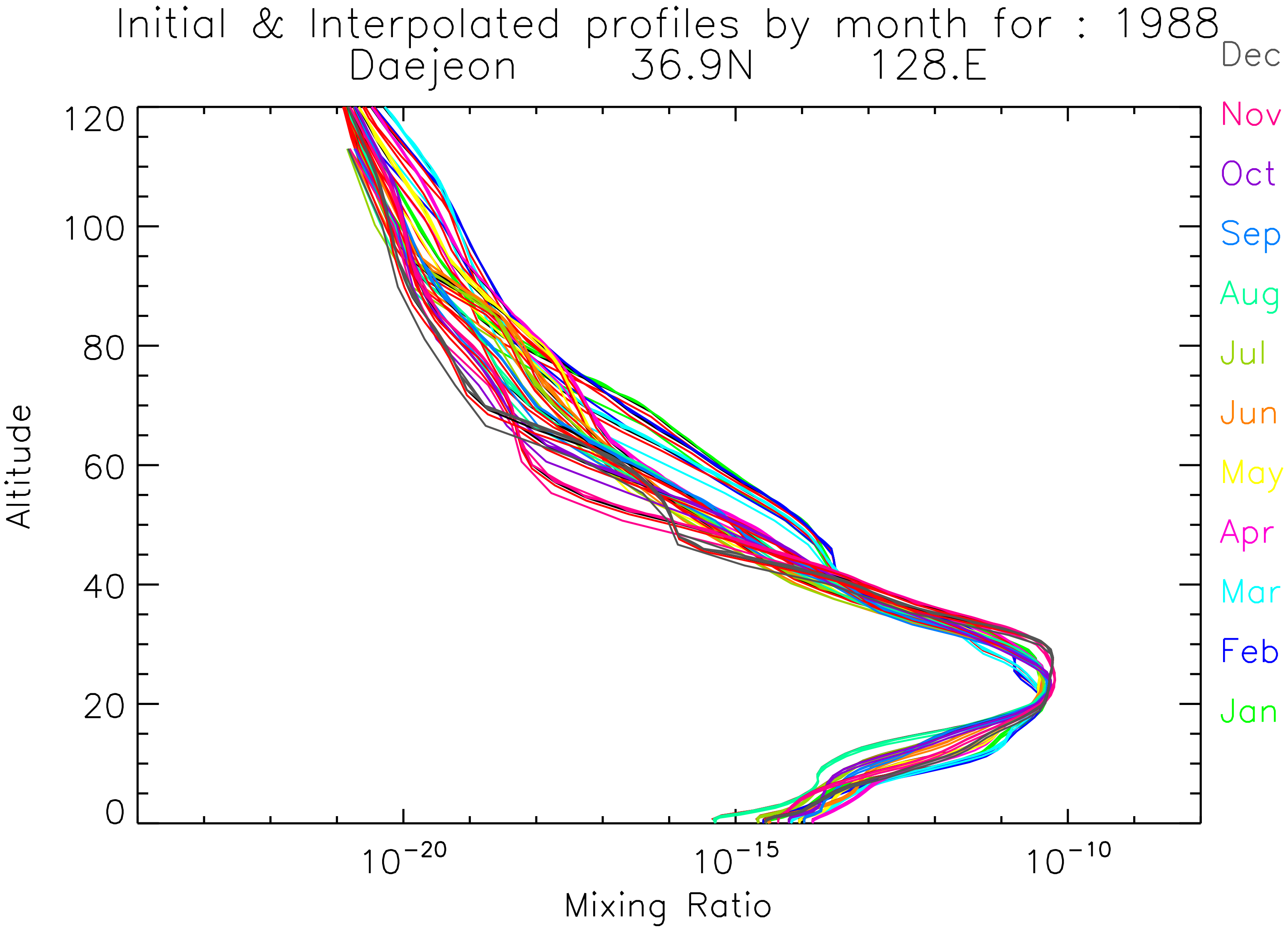

Initial & Interpolated profiles by month for : 1985
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



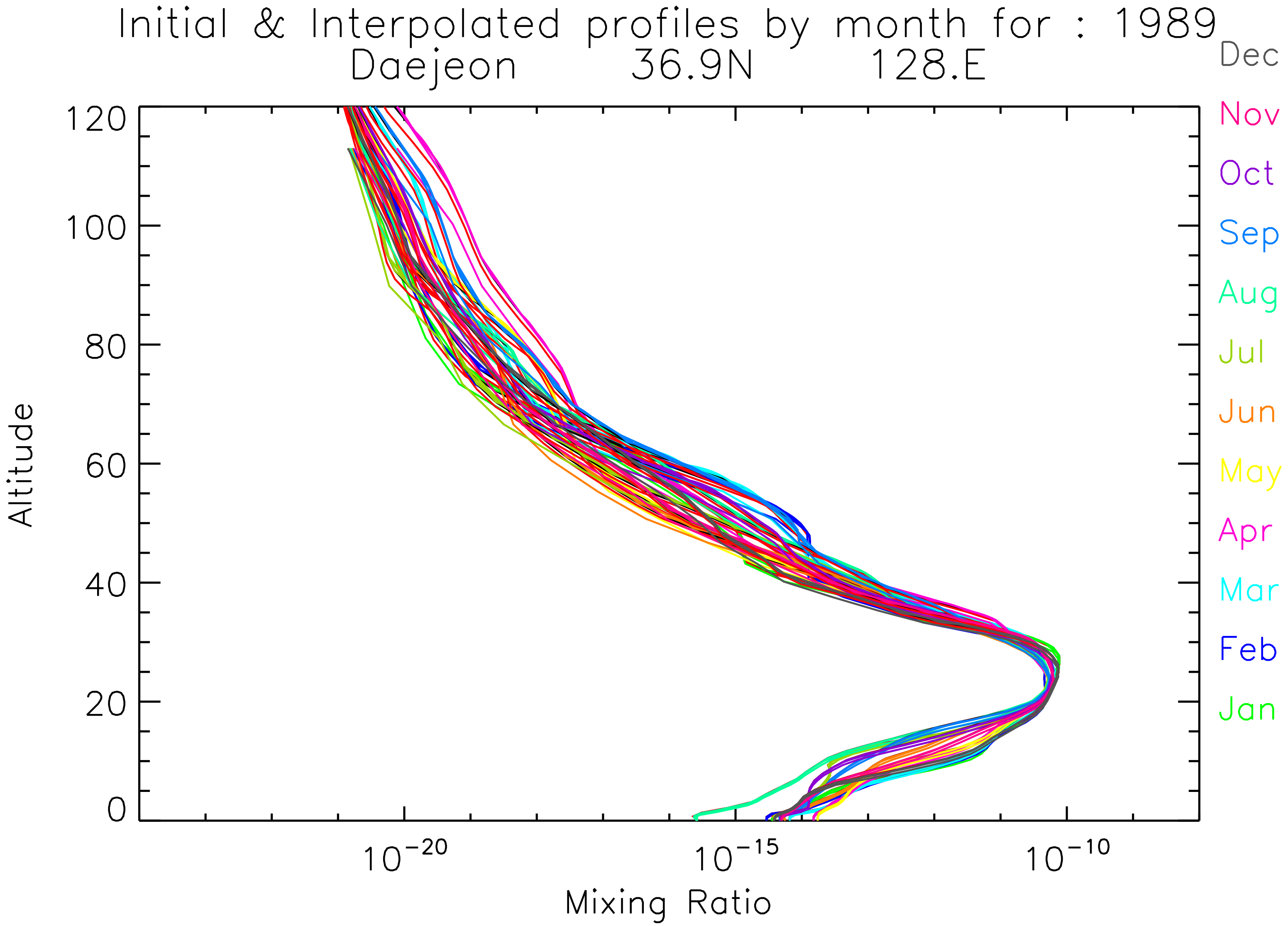
Initial & Interpolated profiles by month for : 1986
Daejeon 36.9N 128.E

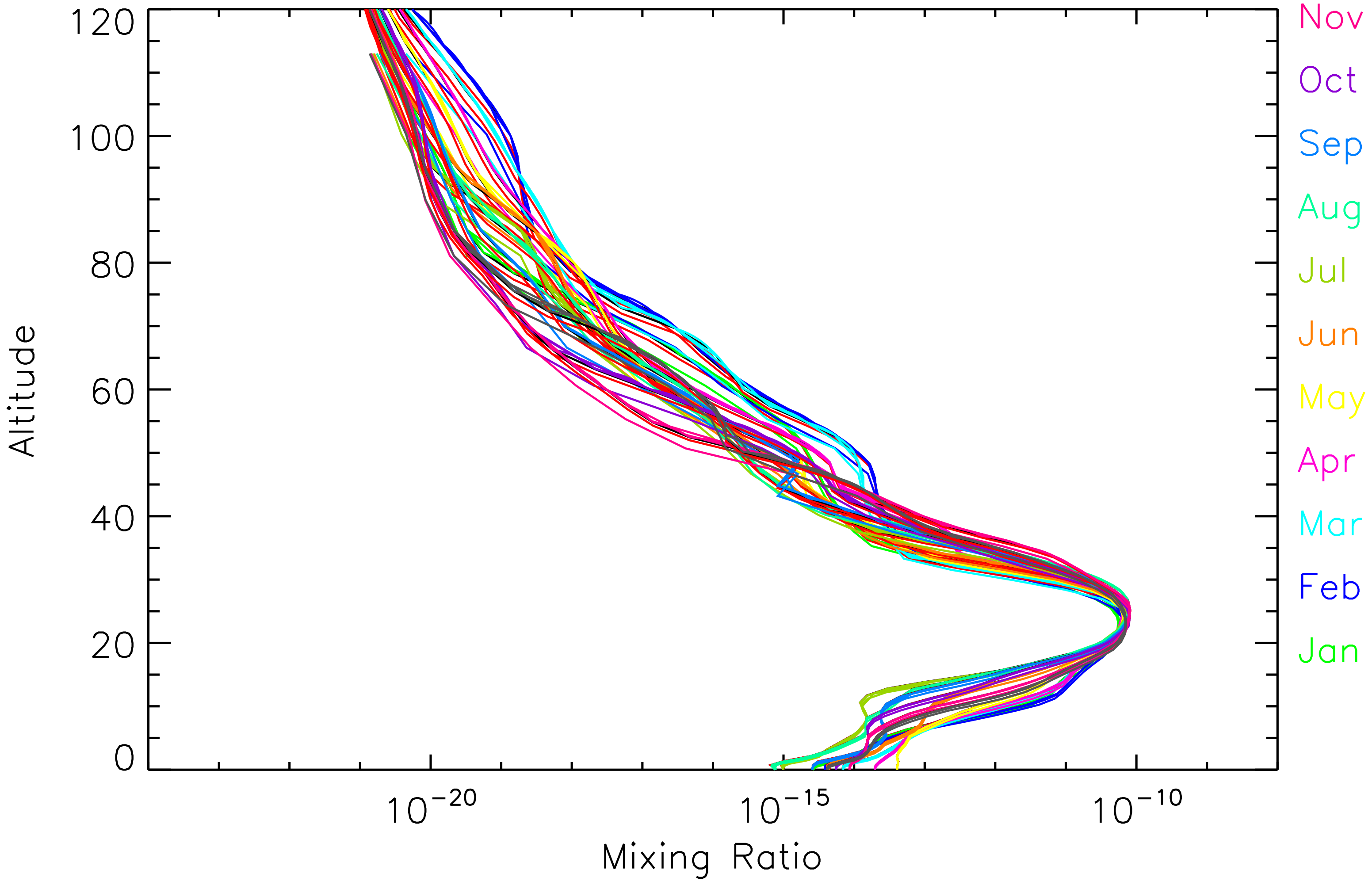


Initial & Interpolated profiles by month for : 1987
Daejeon 36.9N 128.E

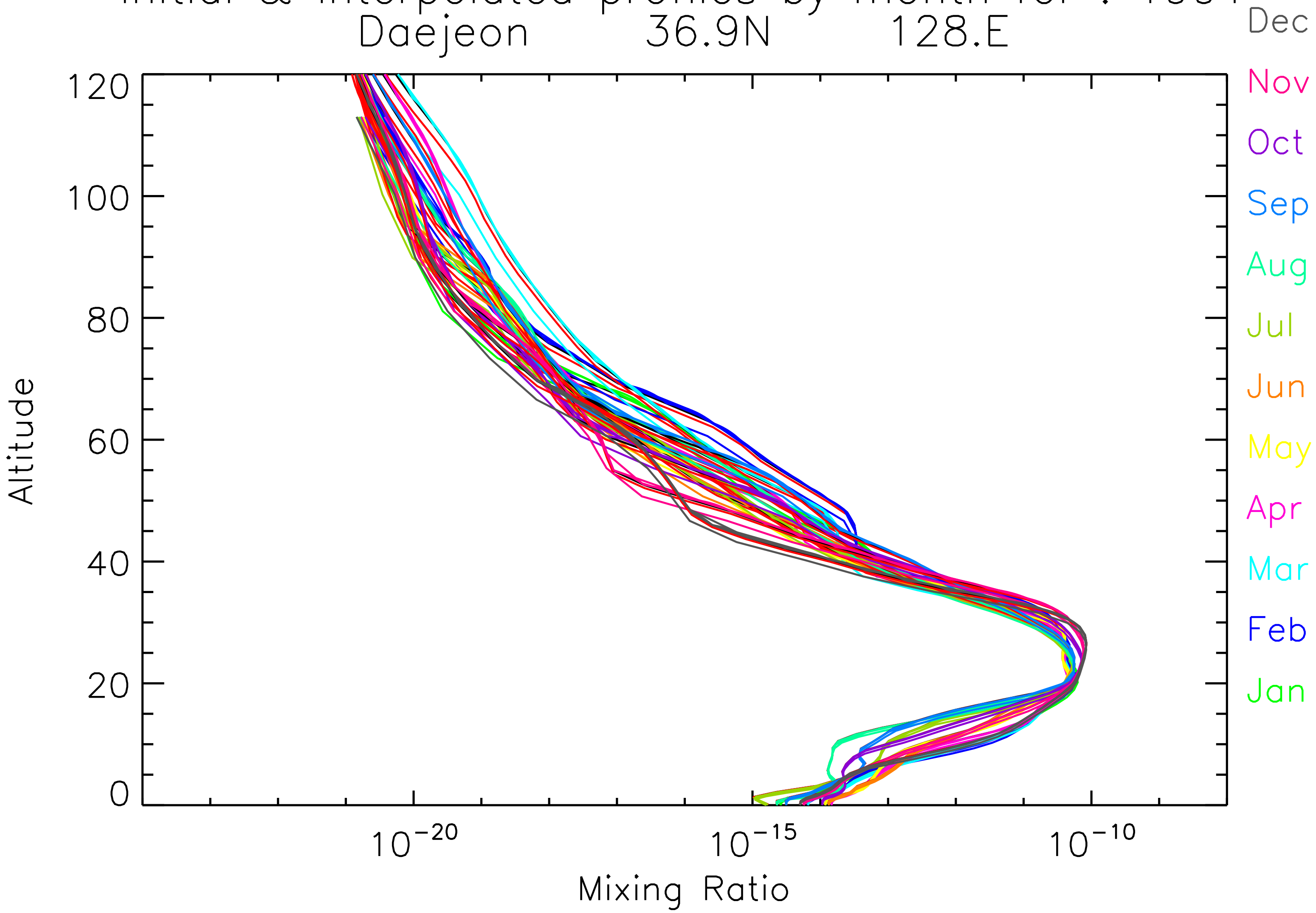


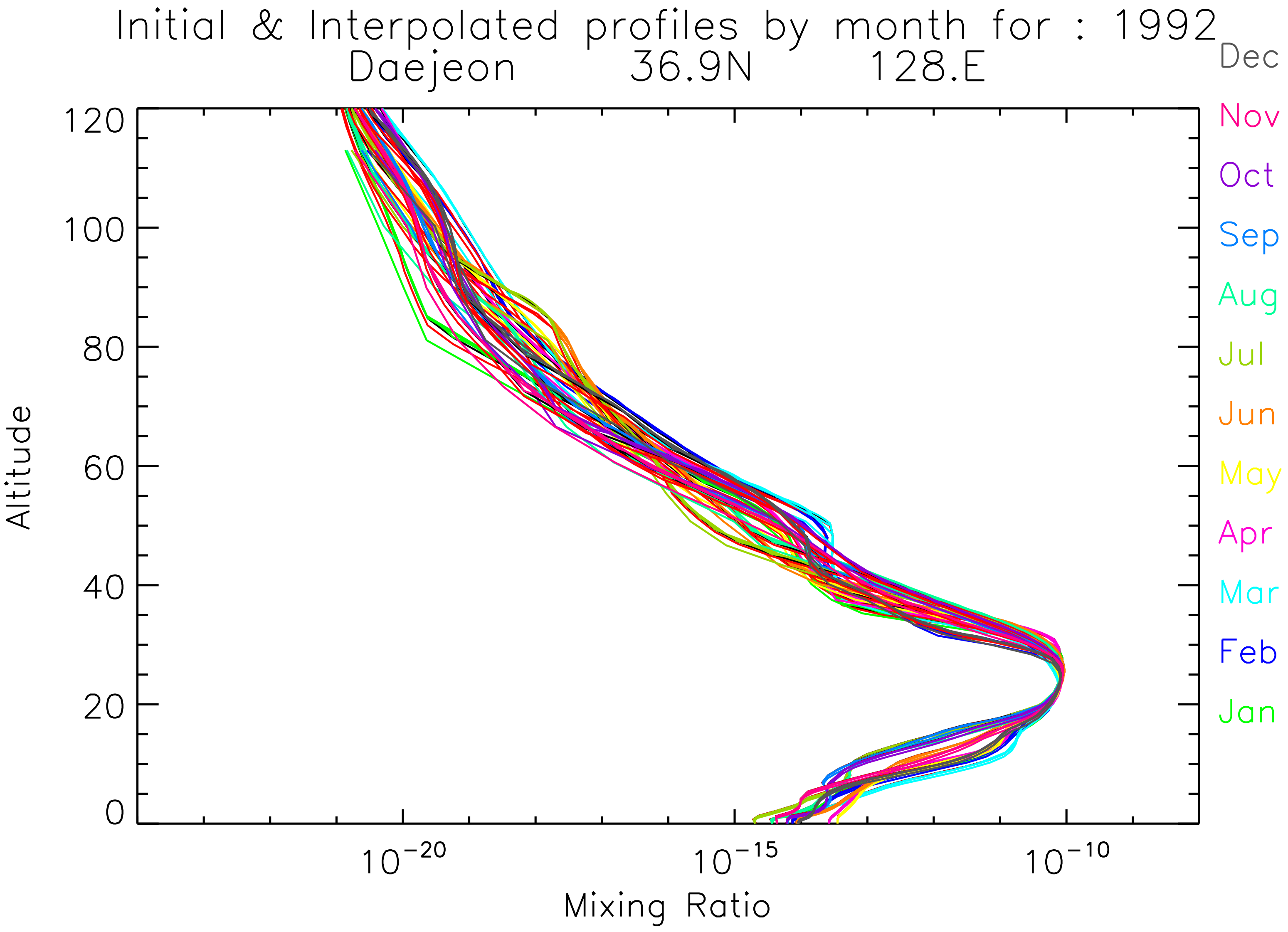
Initial & Interpolated profiles by month for : 1988
Daejeon 36.9N 128.E

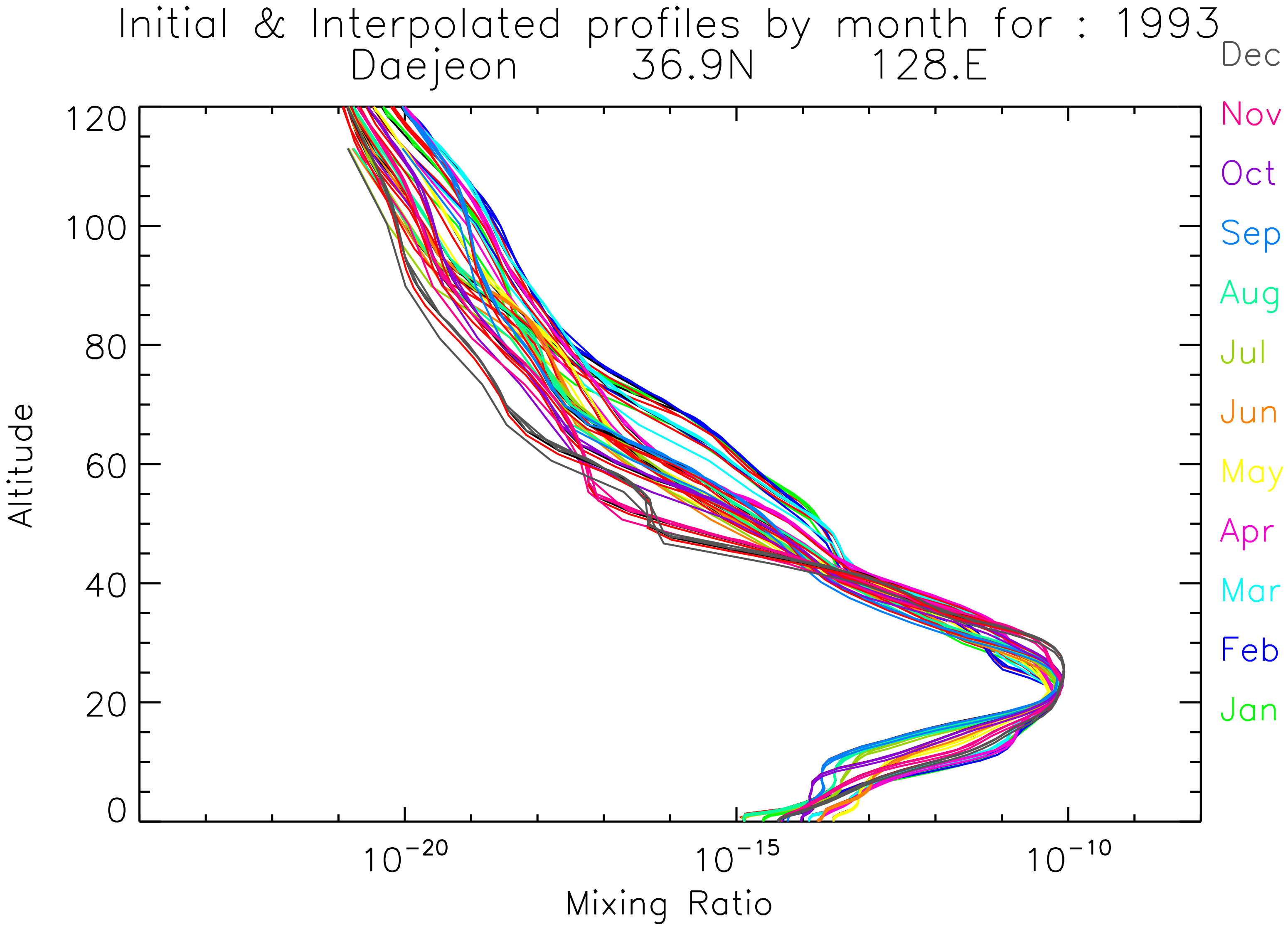

Initial & Interpolated profiles by month for : 1989
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 1990
Daejeon 36.9N 128.E

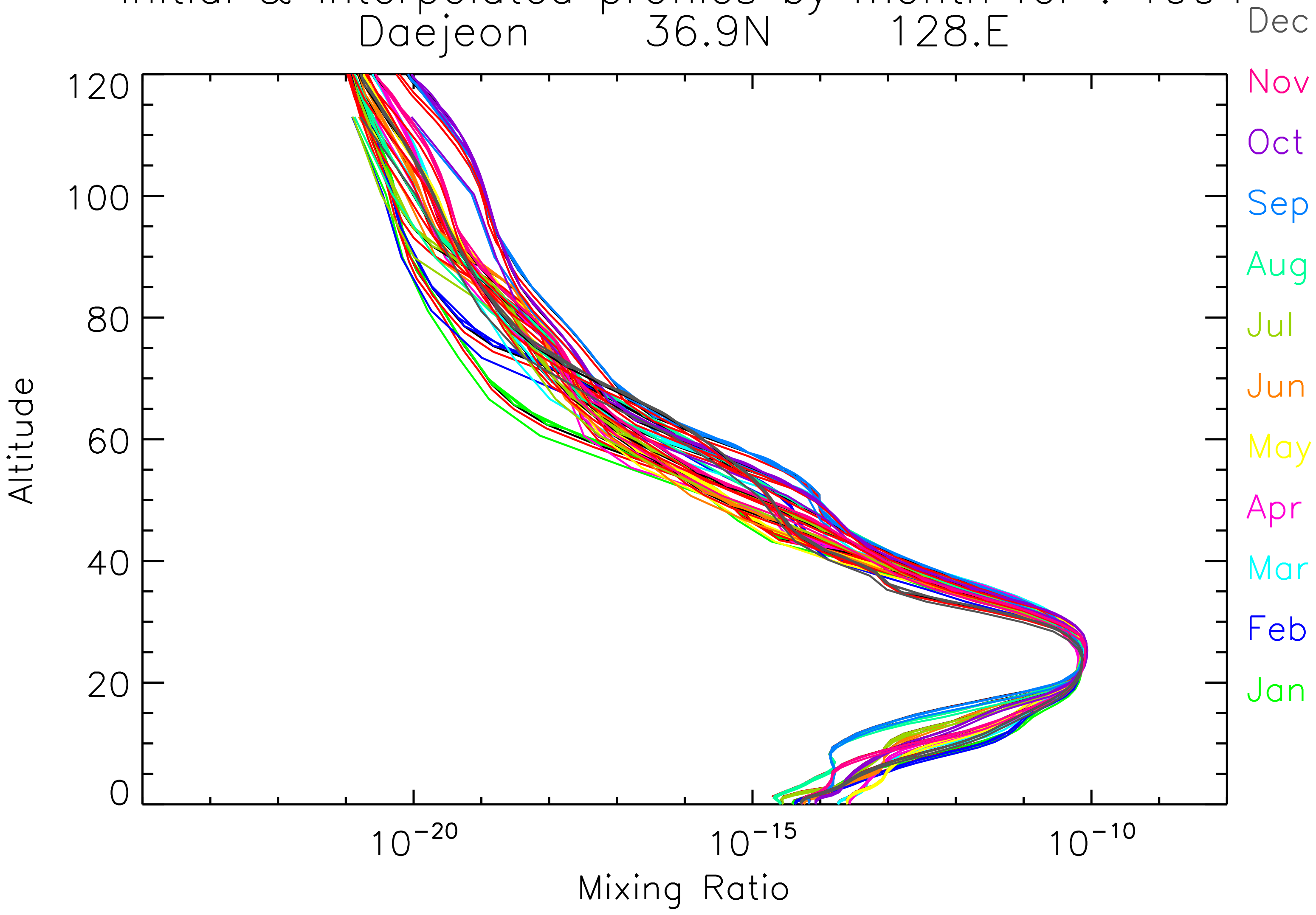
Initial & Interpolated profiles by month for : 1991
Daejeon 36.9N 128.E

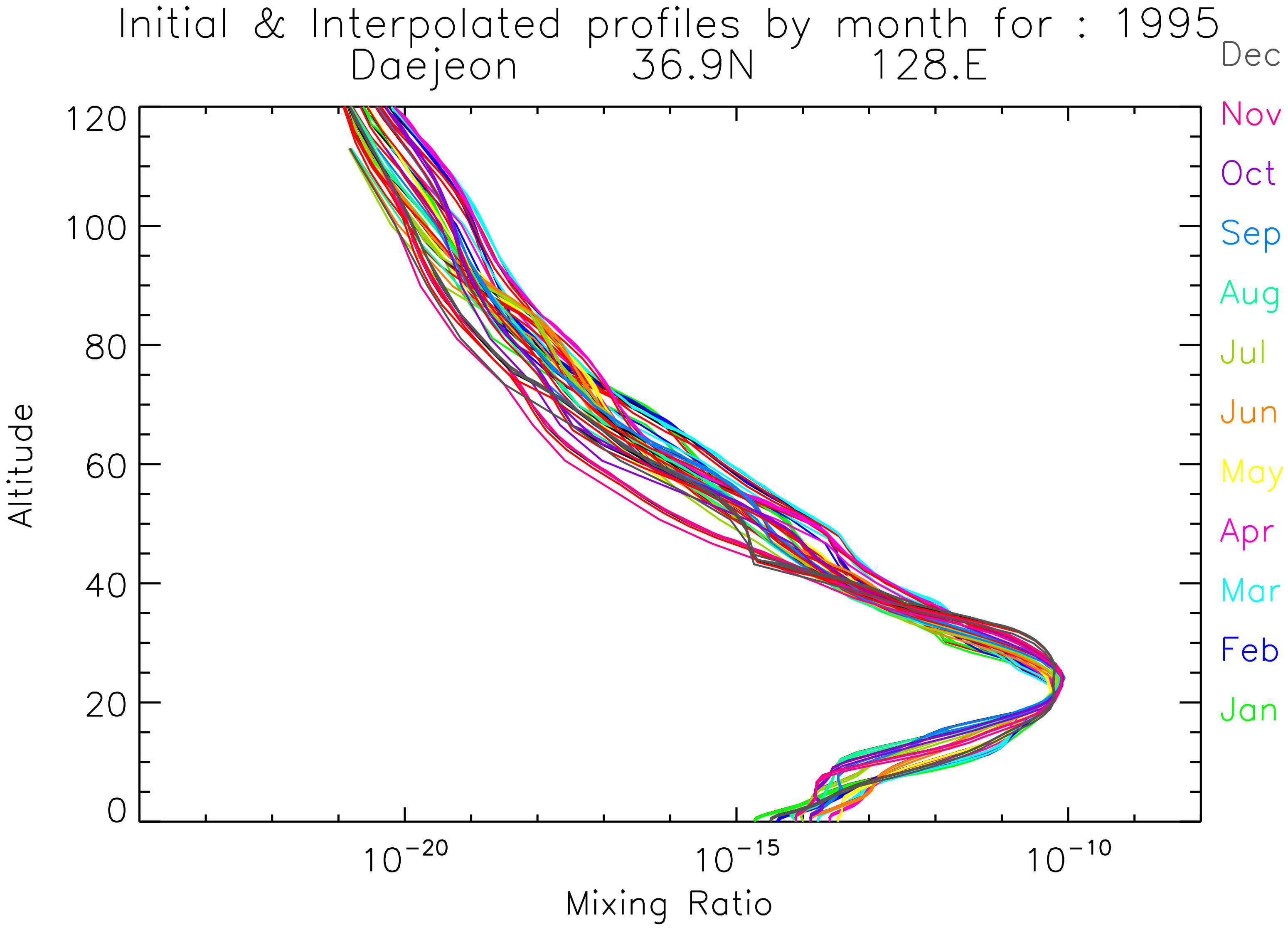


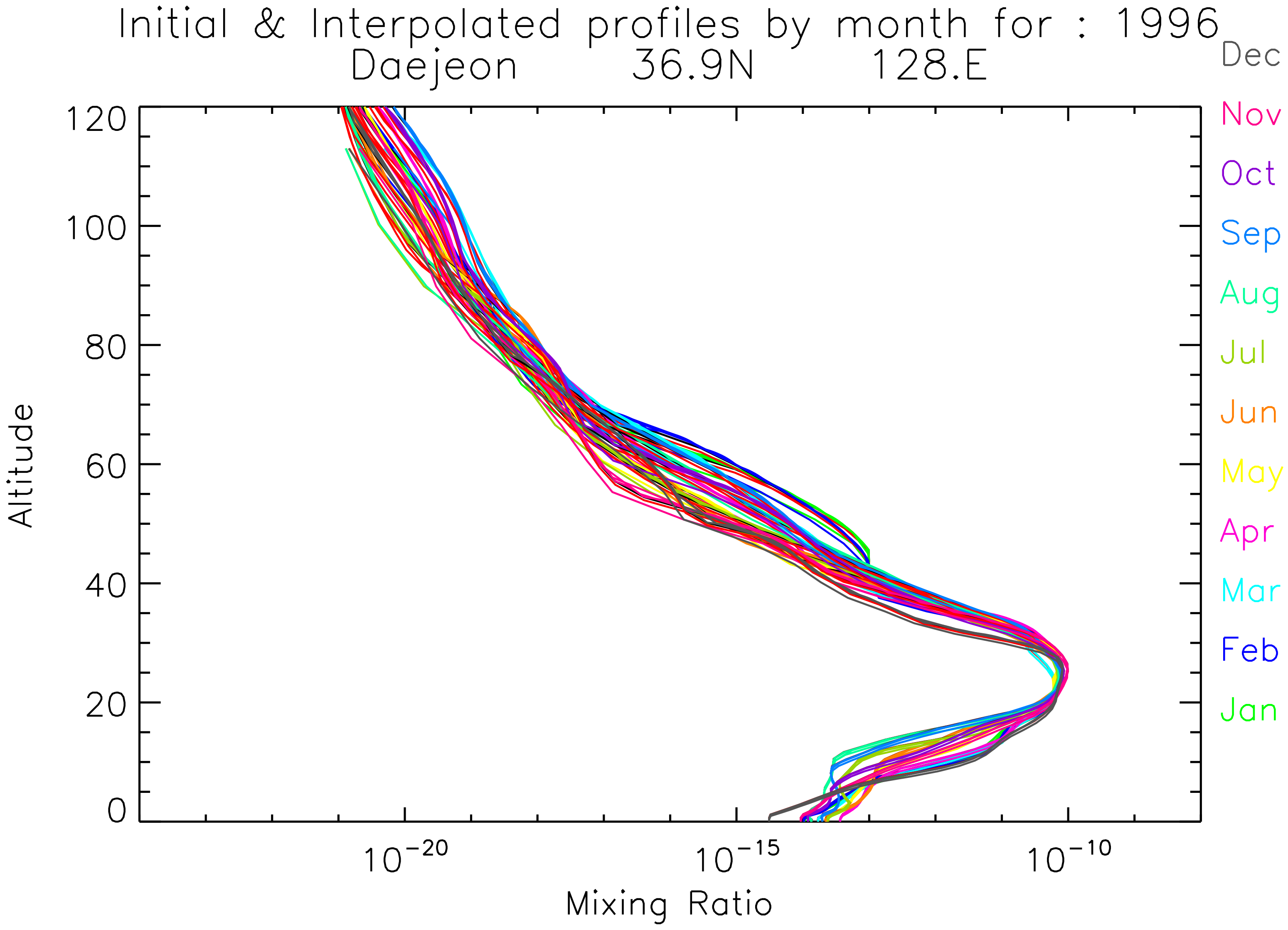

Initial & Interpolated profiles by month for : 1992
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 1993
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

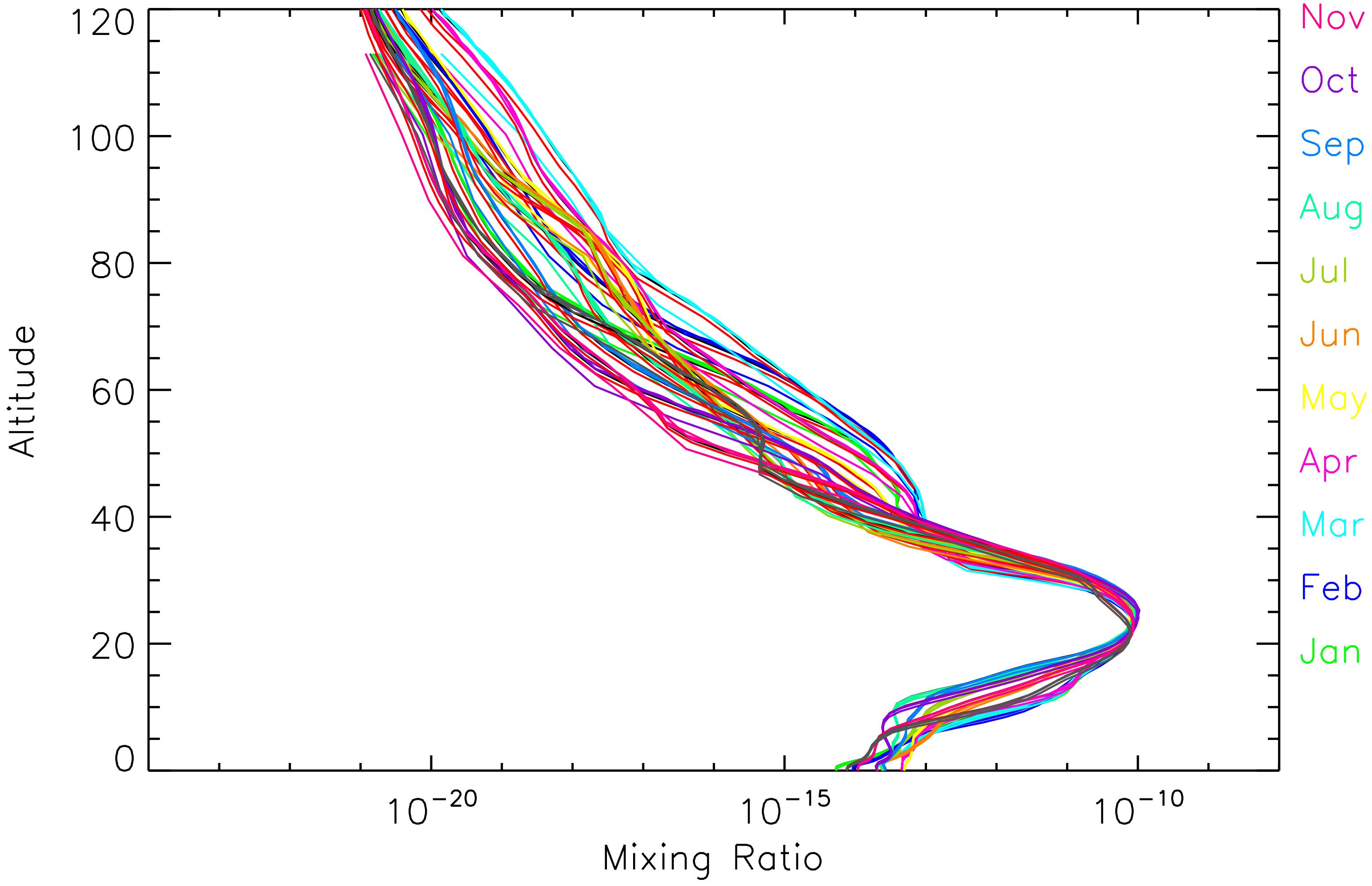
Initial & Interpolated profiles by month for : 1994
Daejeon 36.9N 128.E

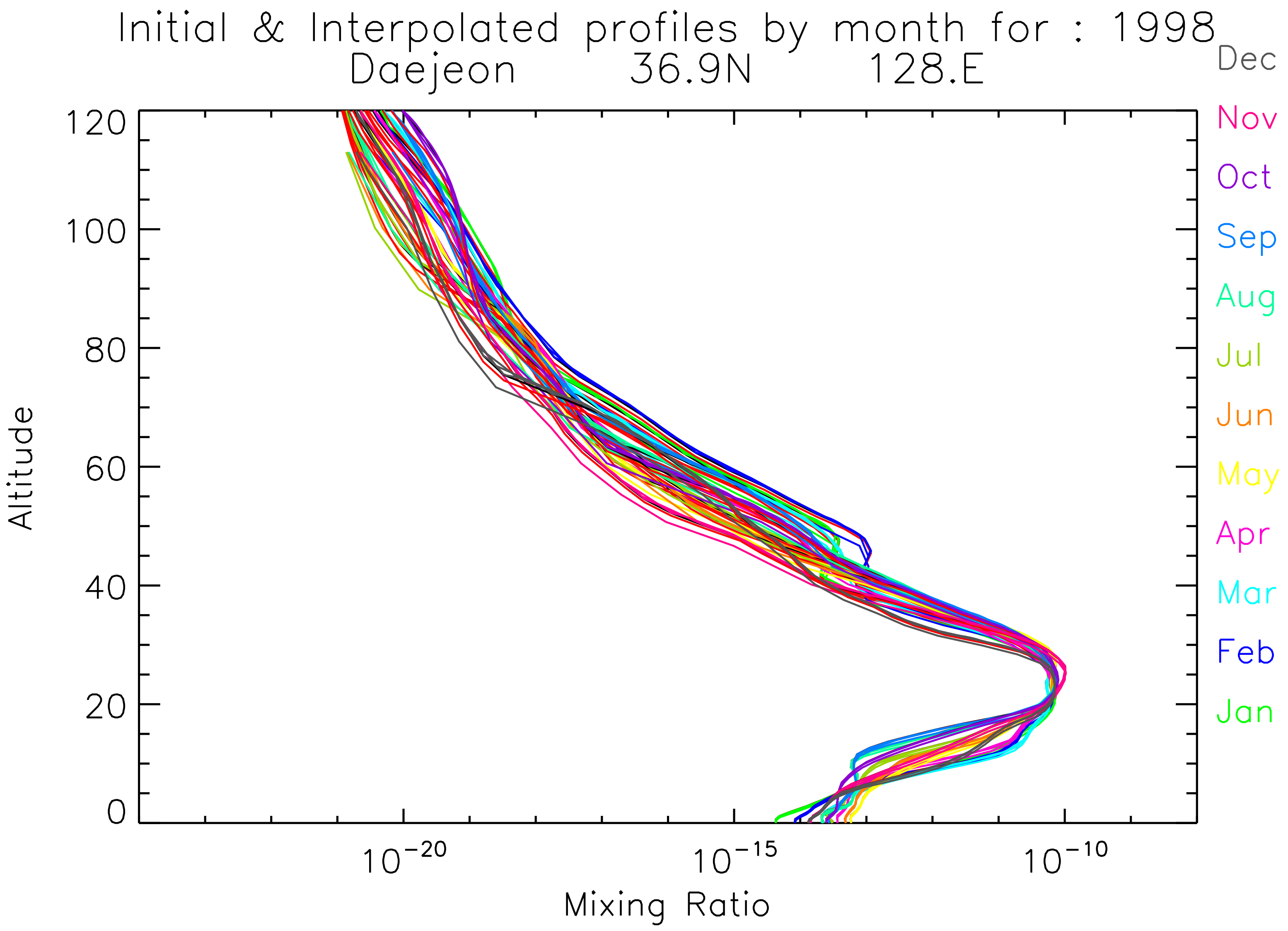



Initial & Interpolated profiles by month for : 1995
Daejeon 36.9N 128.E
Altitude
120
100
80
60
40
20
0
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

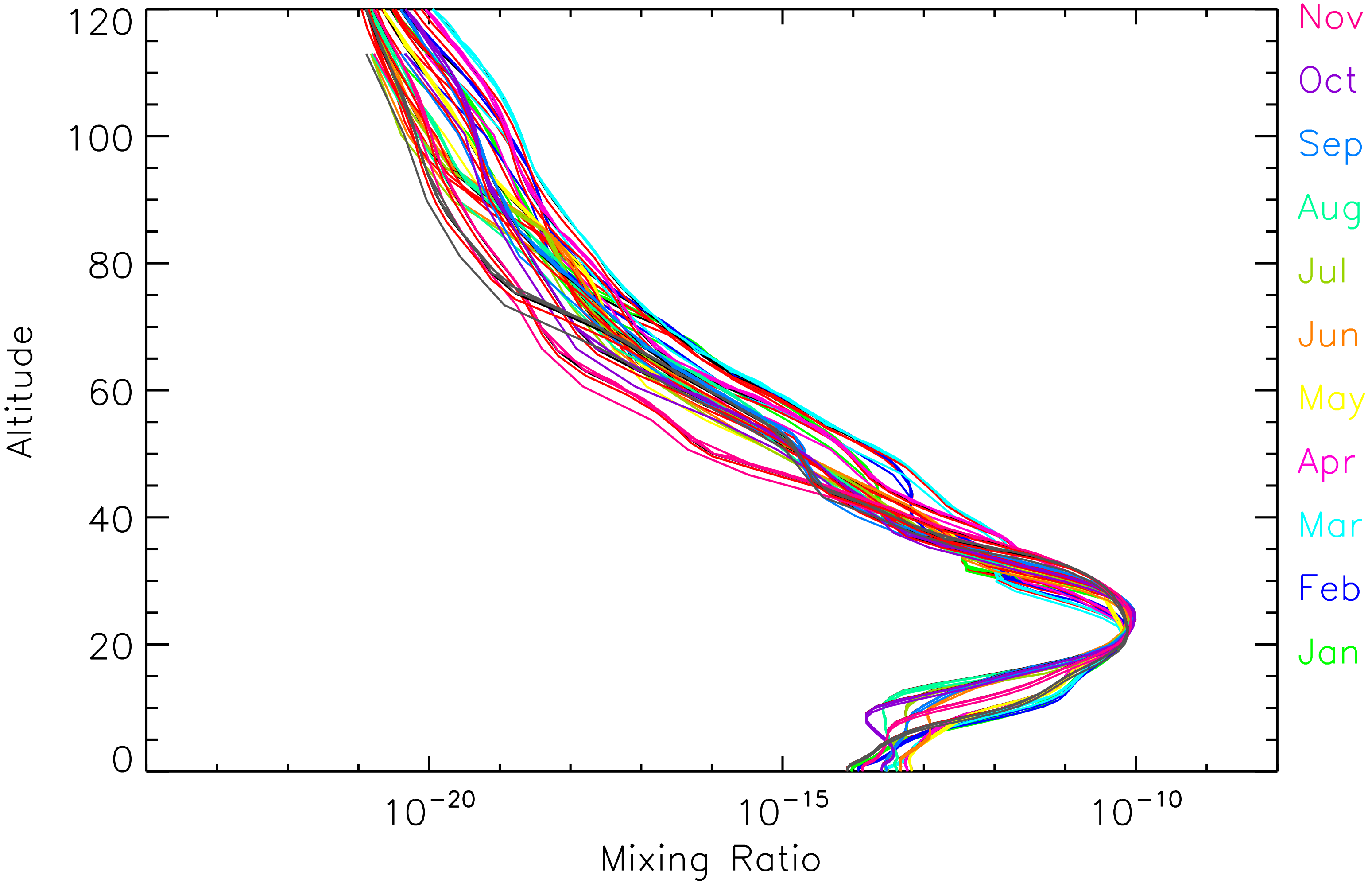

Initial & Interpolated profiles by month for : 1996
Daejeon 36.9N 128.E

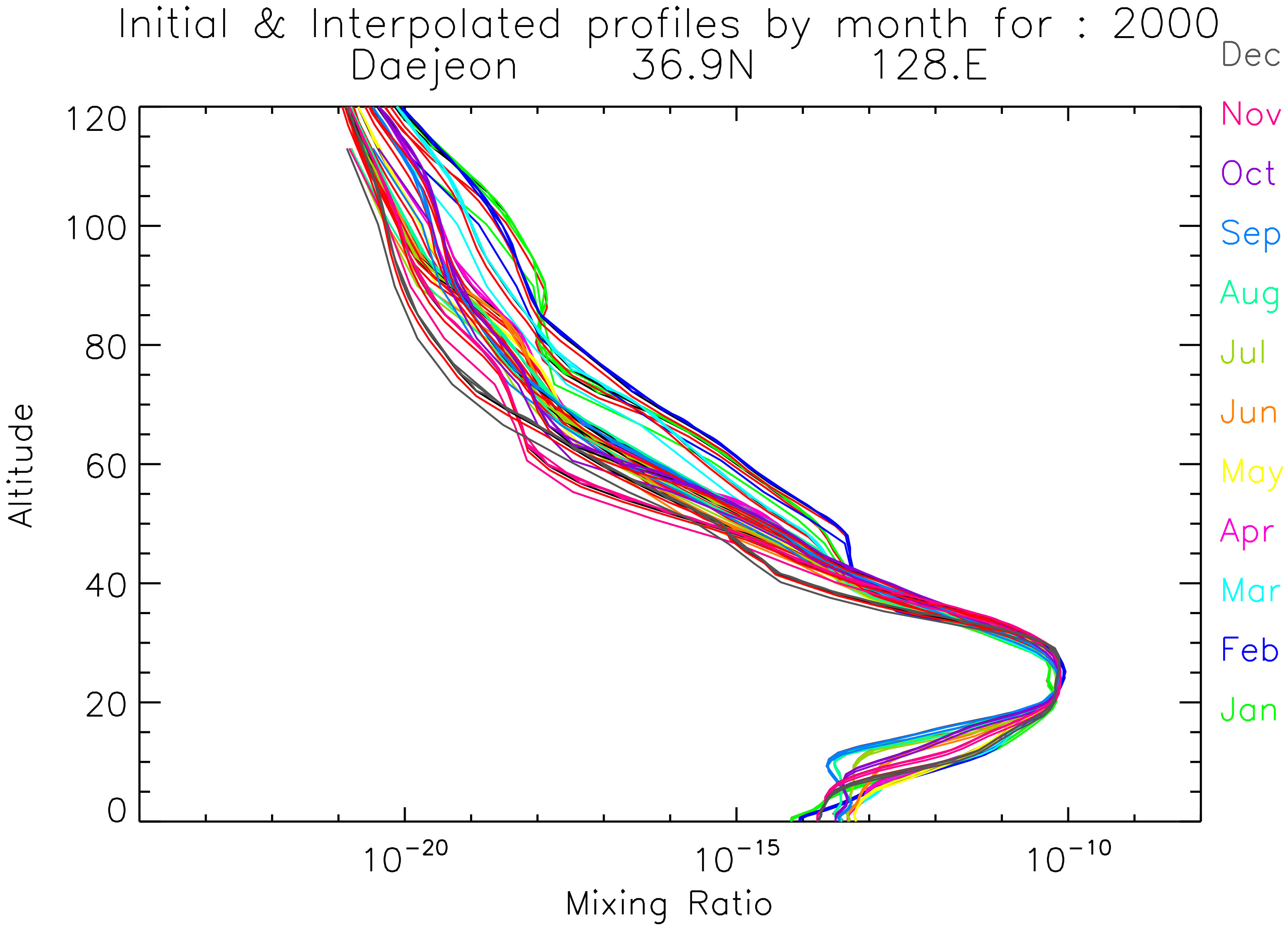
Initial & Interpolated profiles by month for : 1997
Daejeon 36.9N 128.E



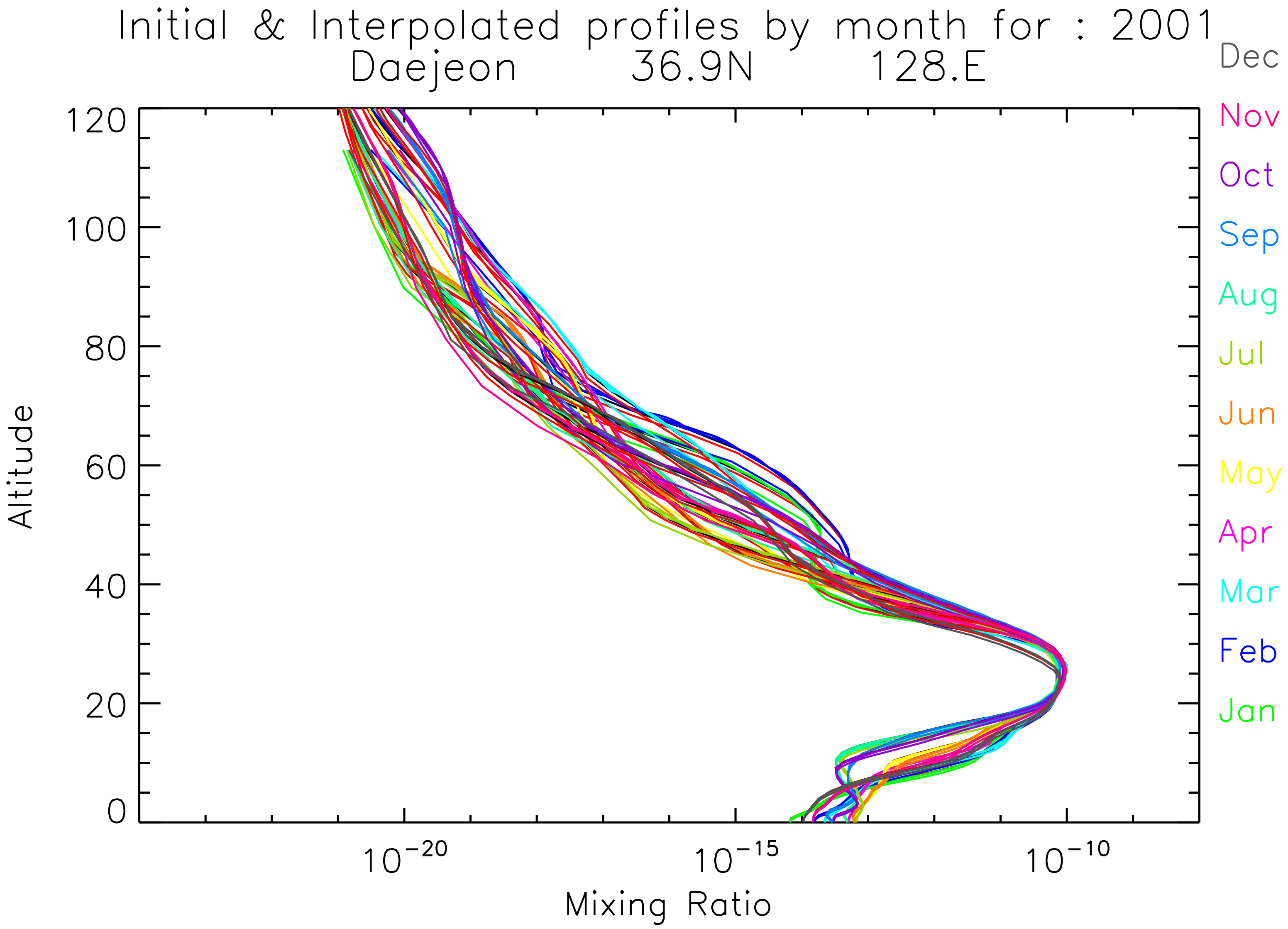

Initial & Interpolated profiles by month for : 1998
Daejeon 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

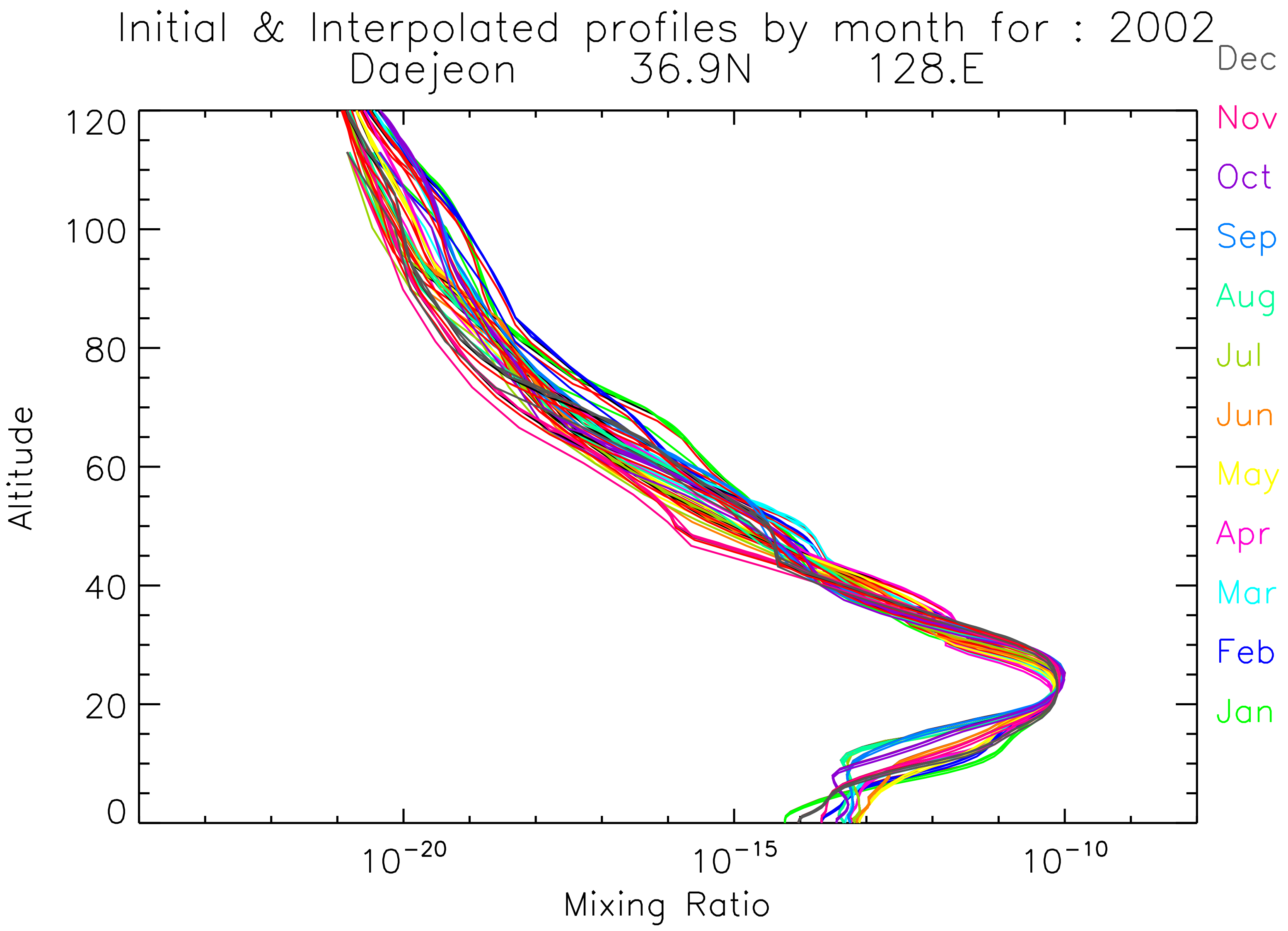
Initial & Interpolated profiles by month for : 1999
Daejeon 36.9N 128.E

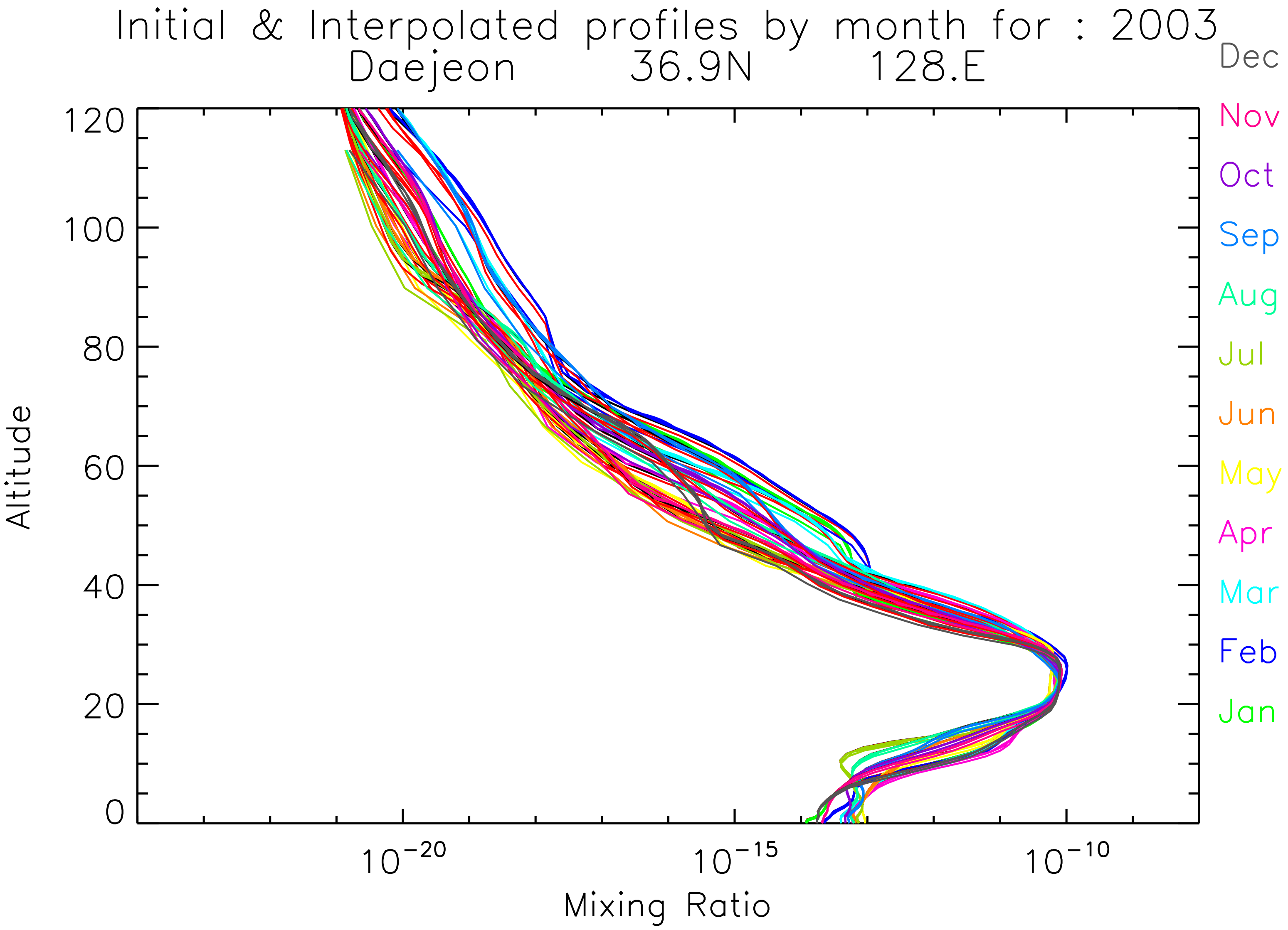


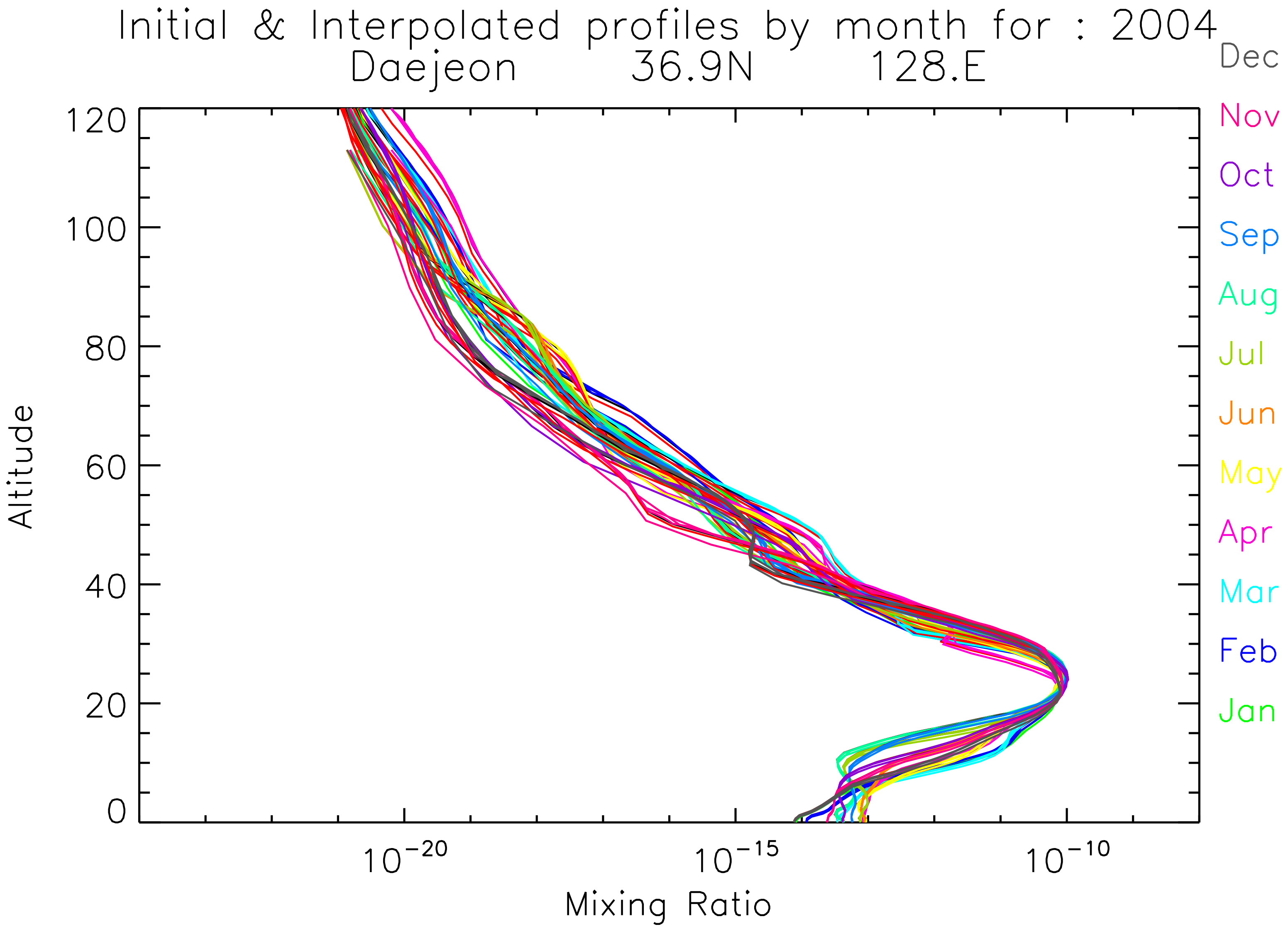


Initial & Interpolated profiles by month for : 2000
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

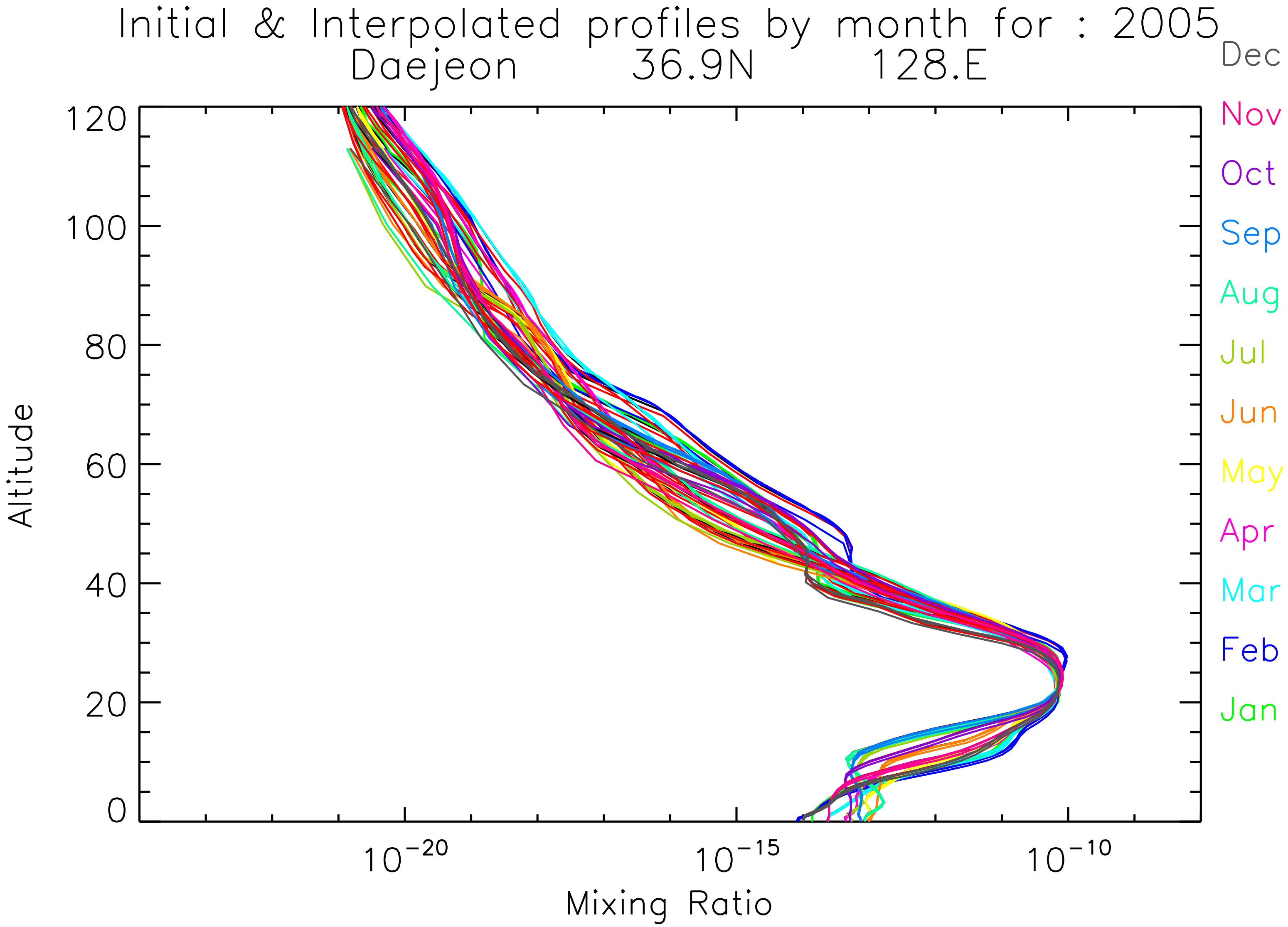

Initial & Interpolated profiles by month for : 2001
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2002
Daejeon 36.9N 128.E
Altitude
120
100
80
60
40
20
0
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

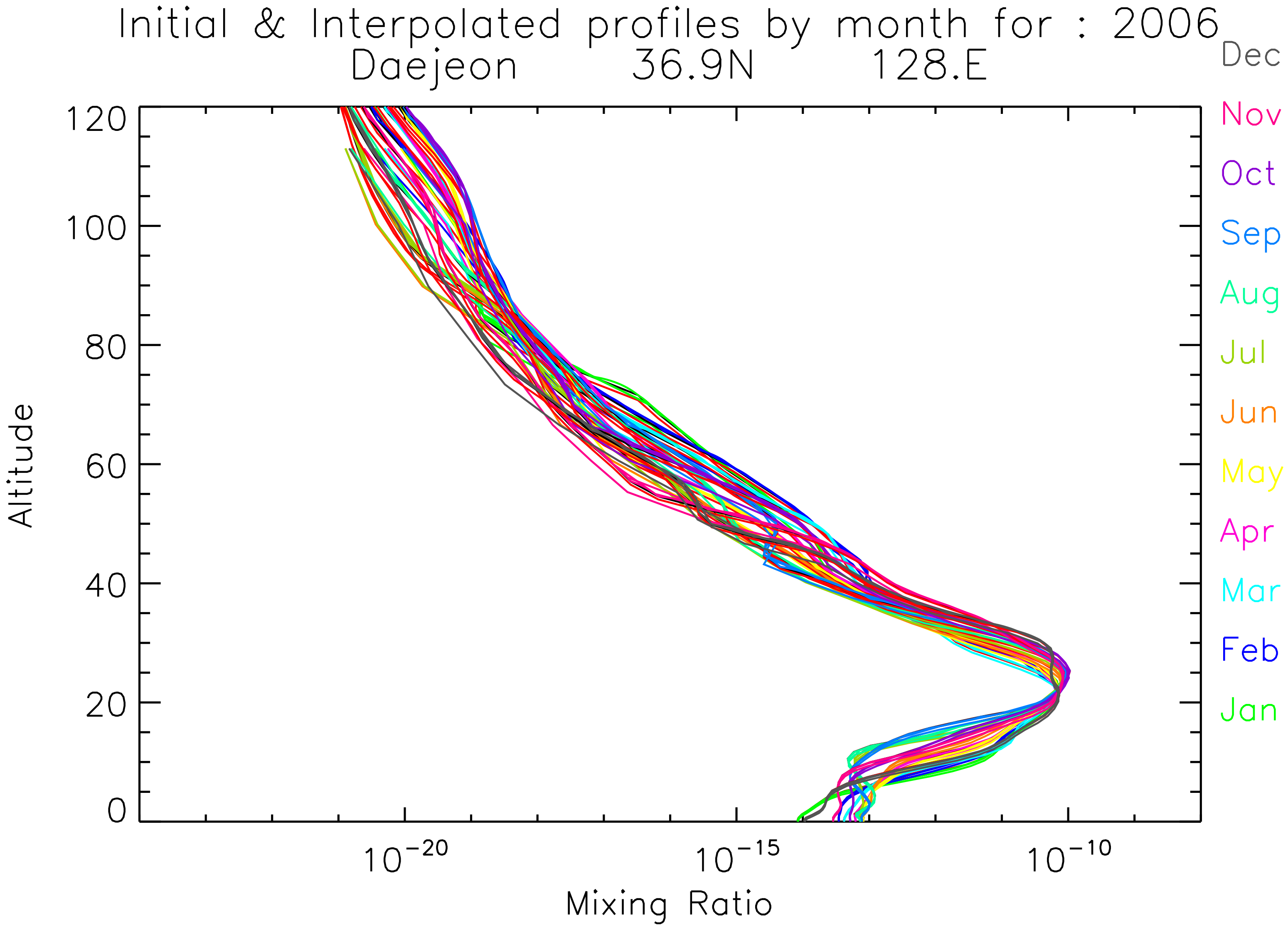

Initial & Interpolated profiles by month for : 2003
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



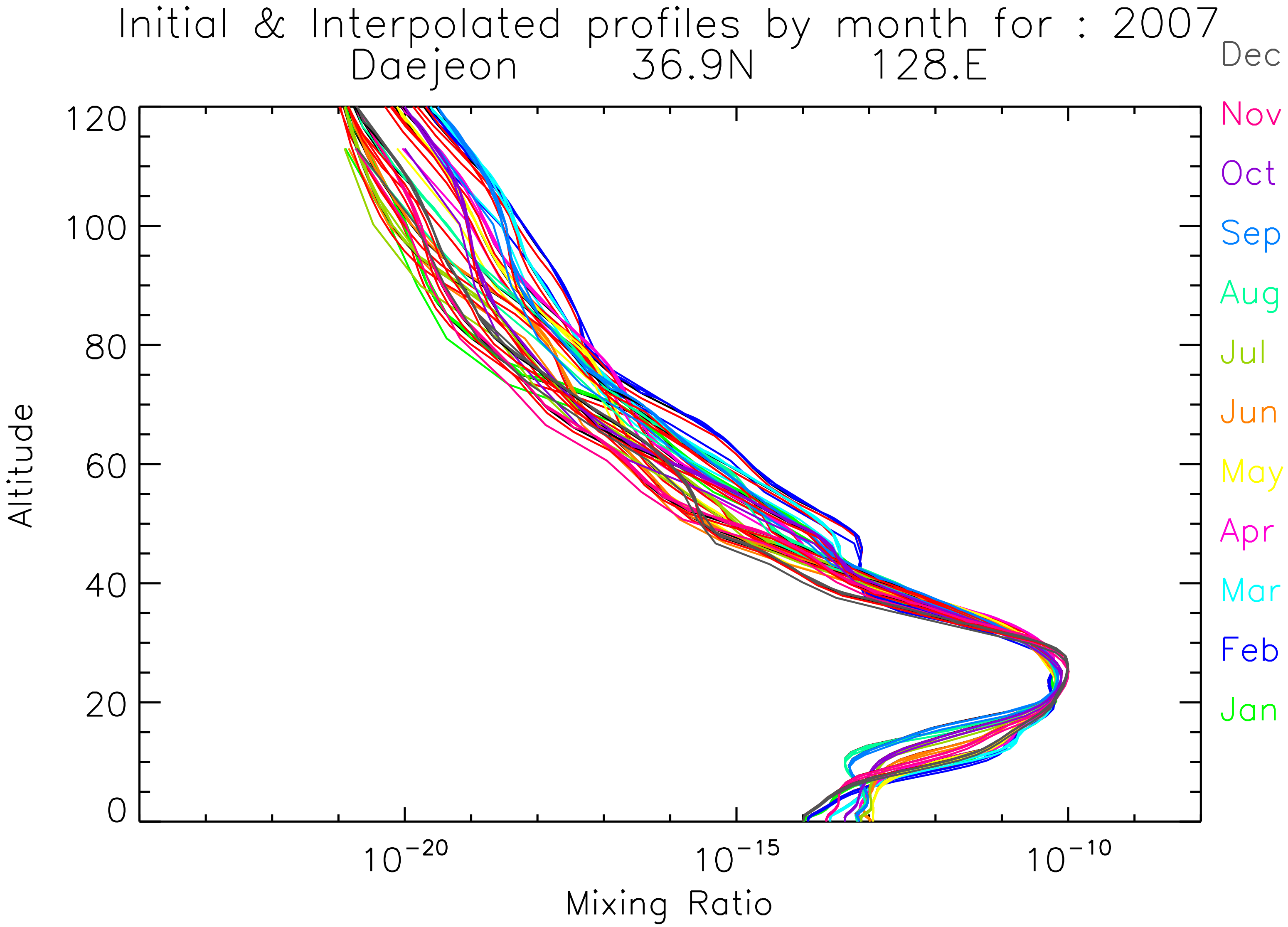
Initial & Interpolated profiles by month for : 2004
Daejeon 36.9N 128.E

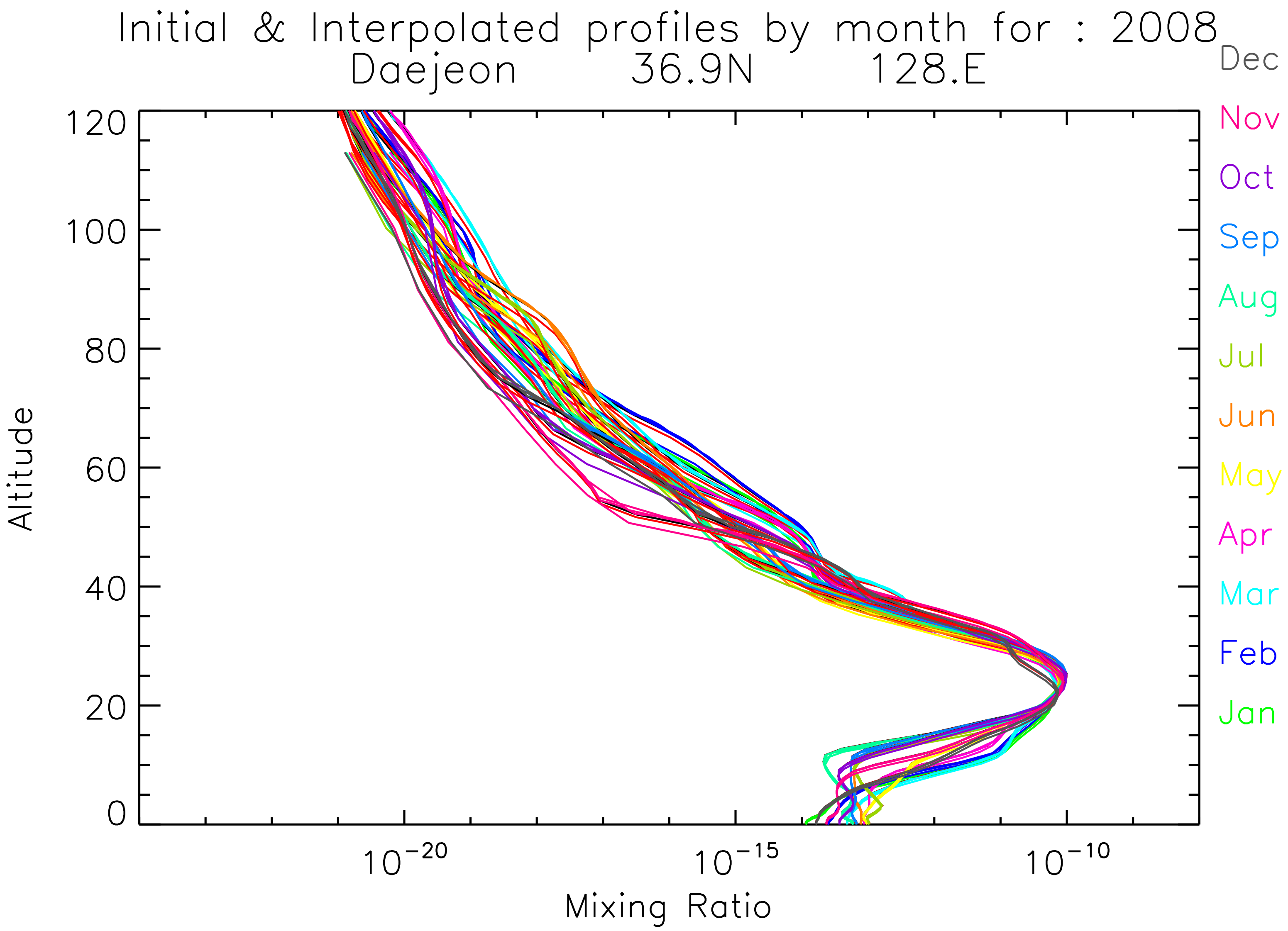


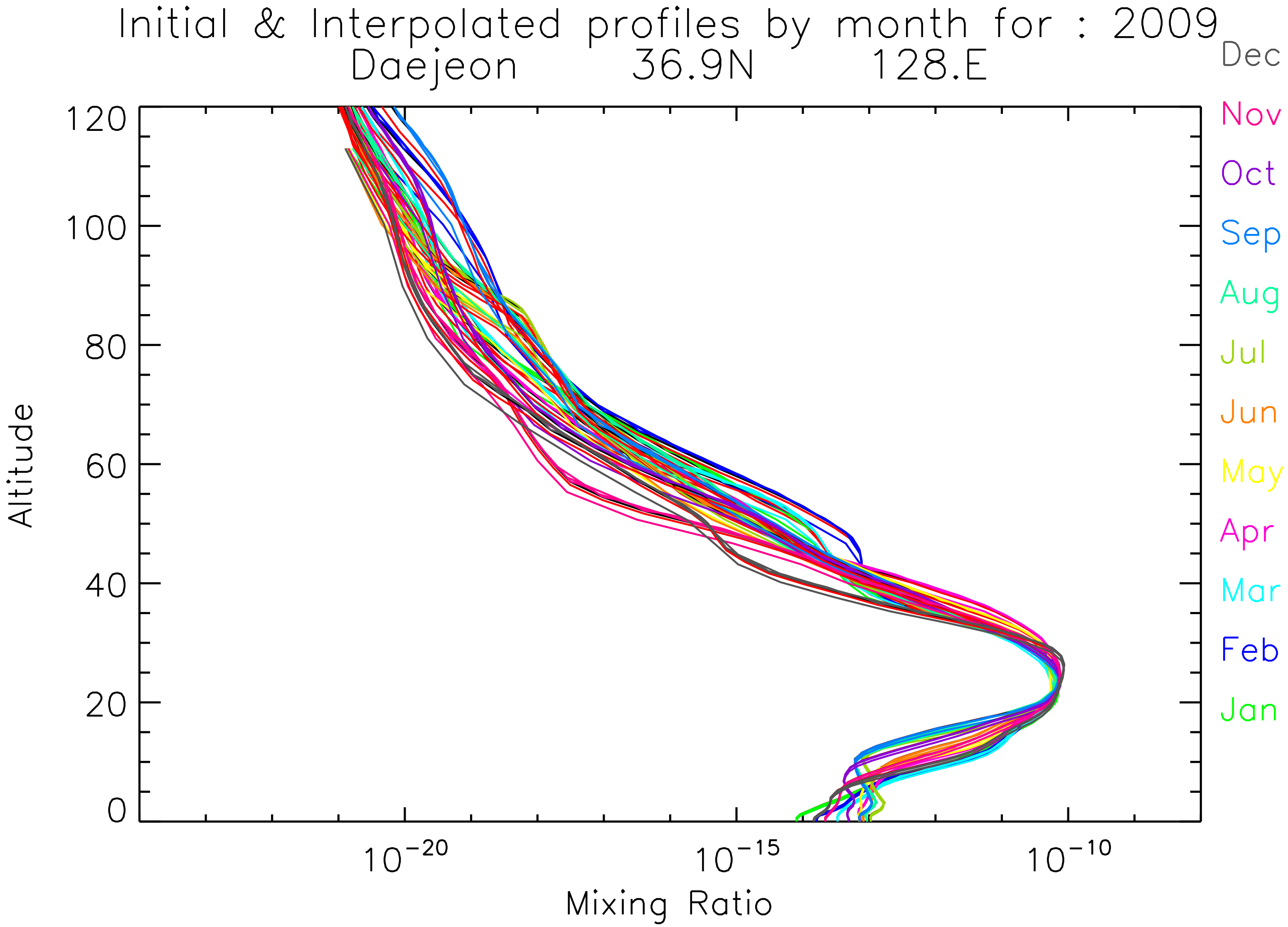
Initial & Interpolated profiles by month for : 2005
Daejeon 36.9N 128.E

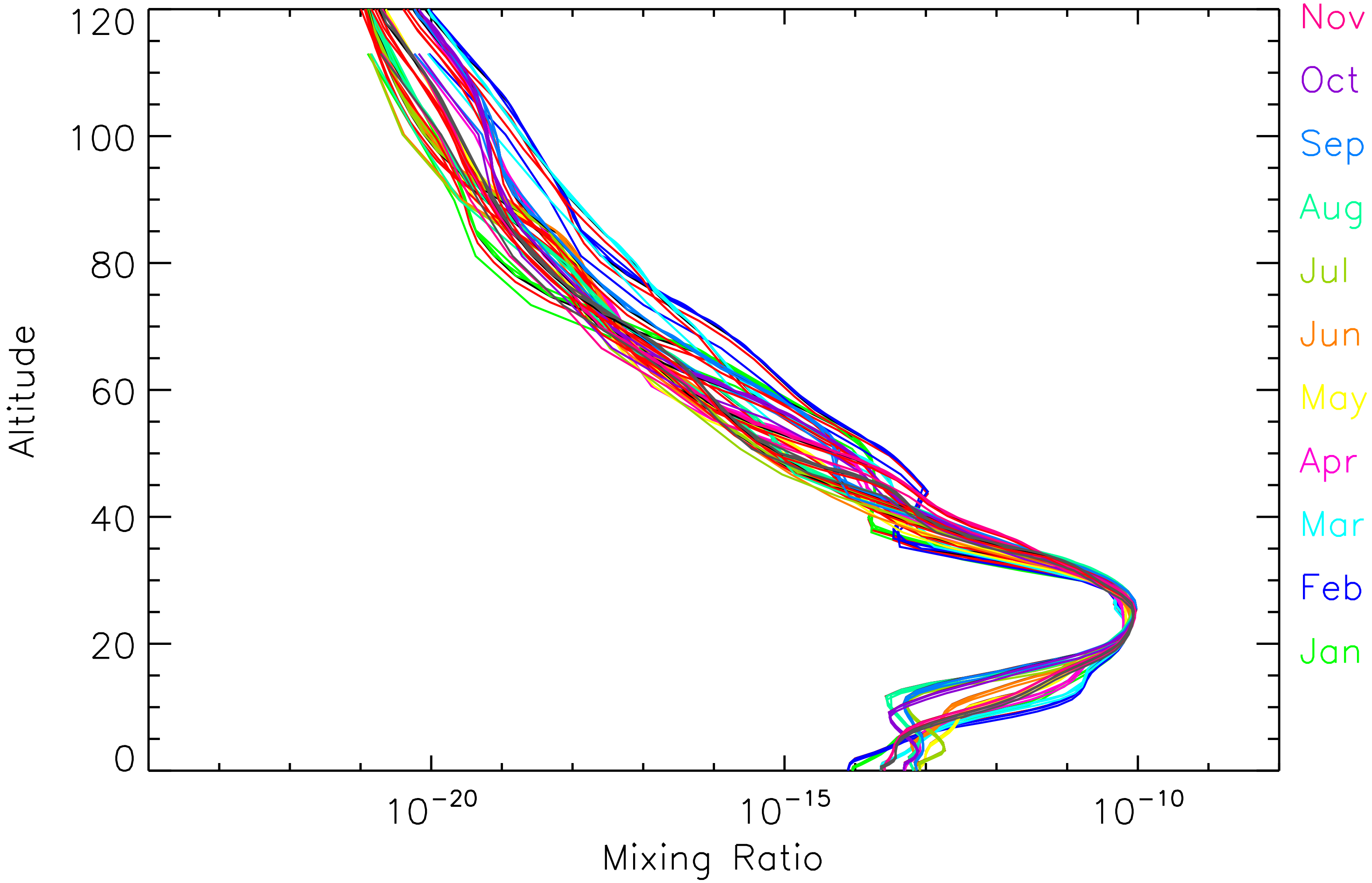


Initial & Interpolated profiles by month for : 2006
Daejeon 36.9N 128.E

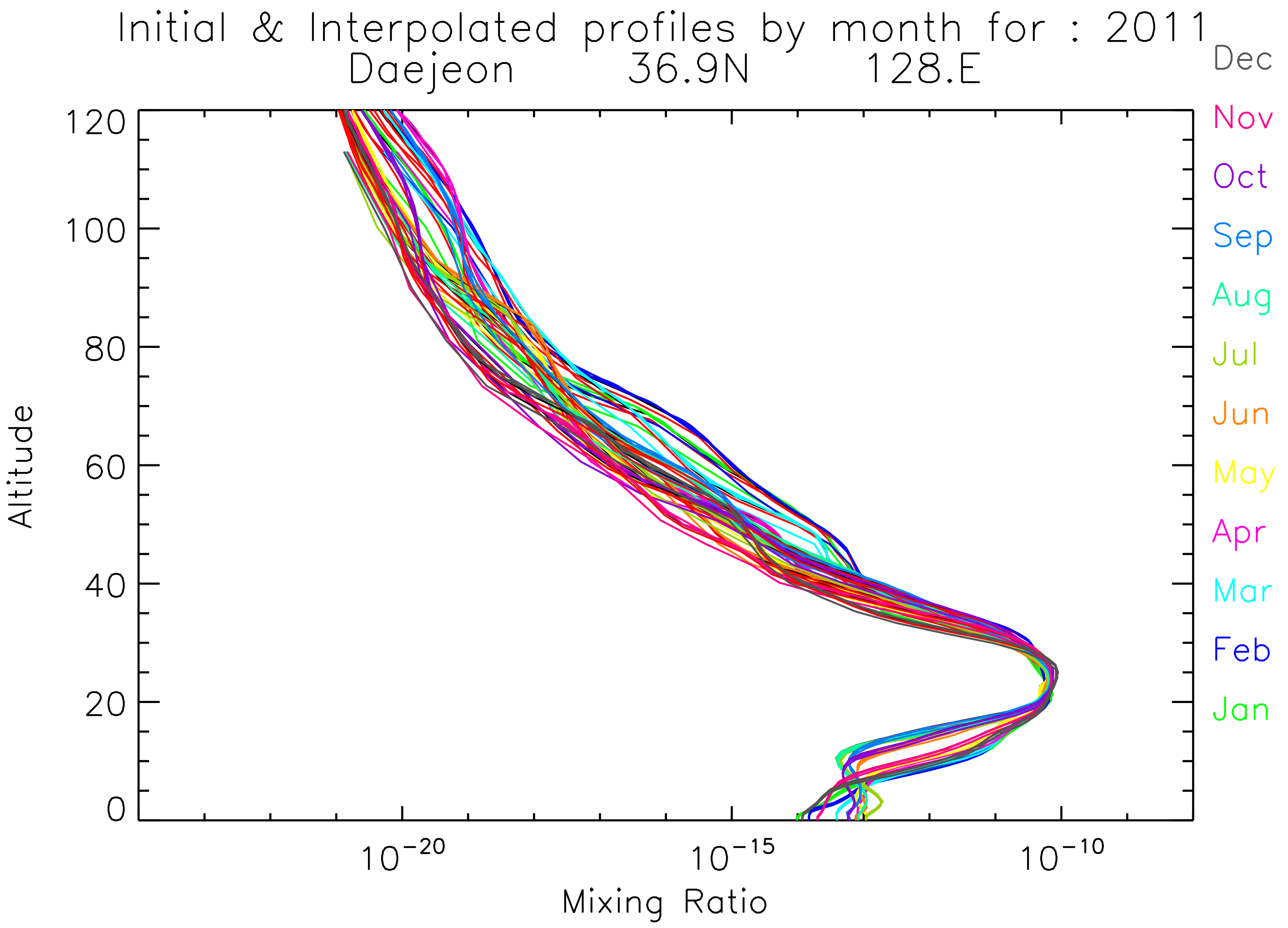

Initial & Interpolated profiles by month for : 2007
Daejeon 36.9N 128.E
Altitude
120
100
80
60
40
20
0
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

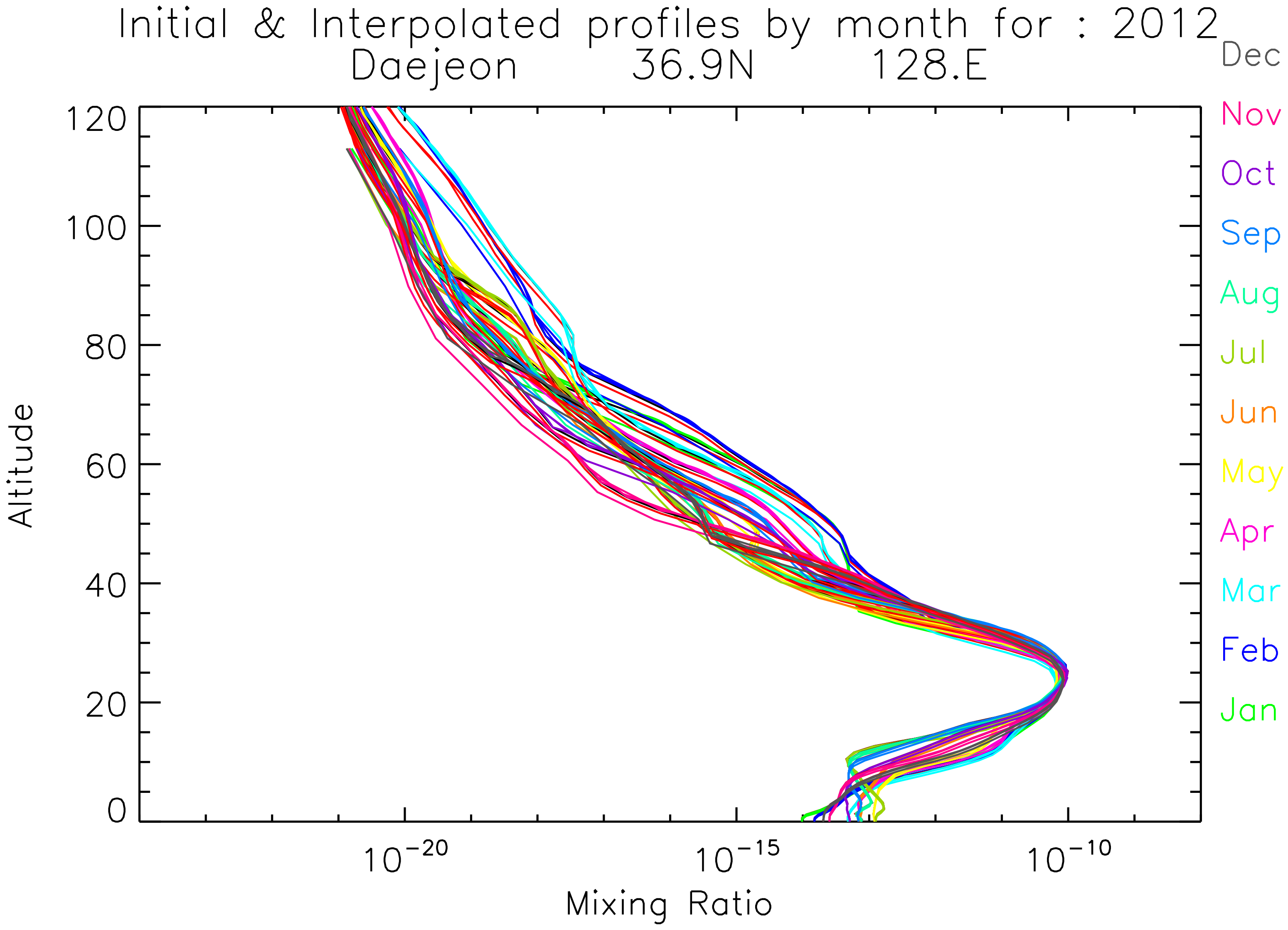

Initial & Interpolated profiles by month for : 2008
Daejeon 36.9N 128.E
Altitude
120
100
80
60
40
20
0
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2009
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

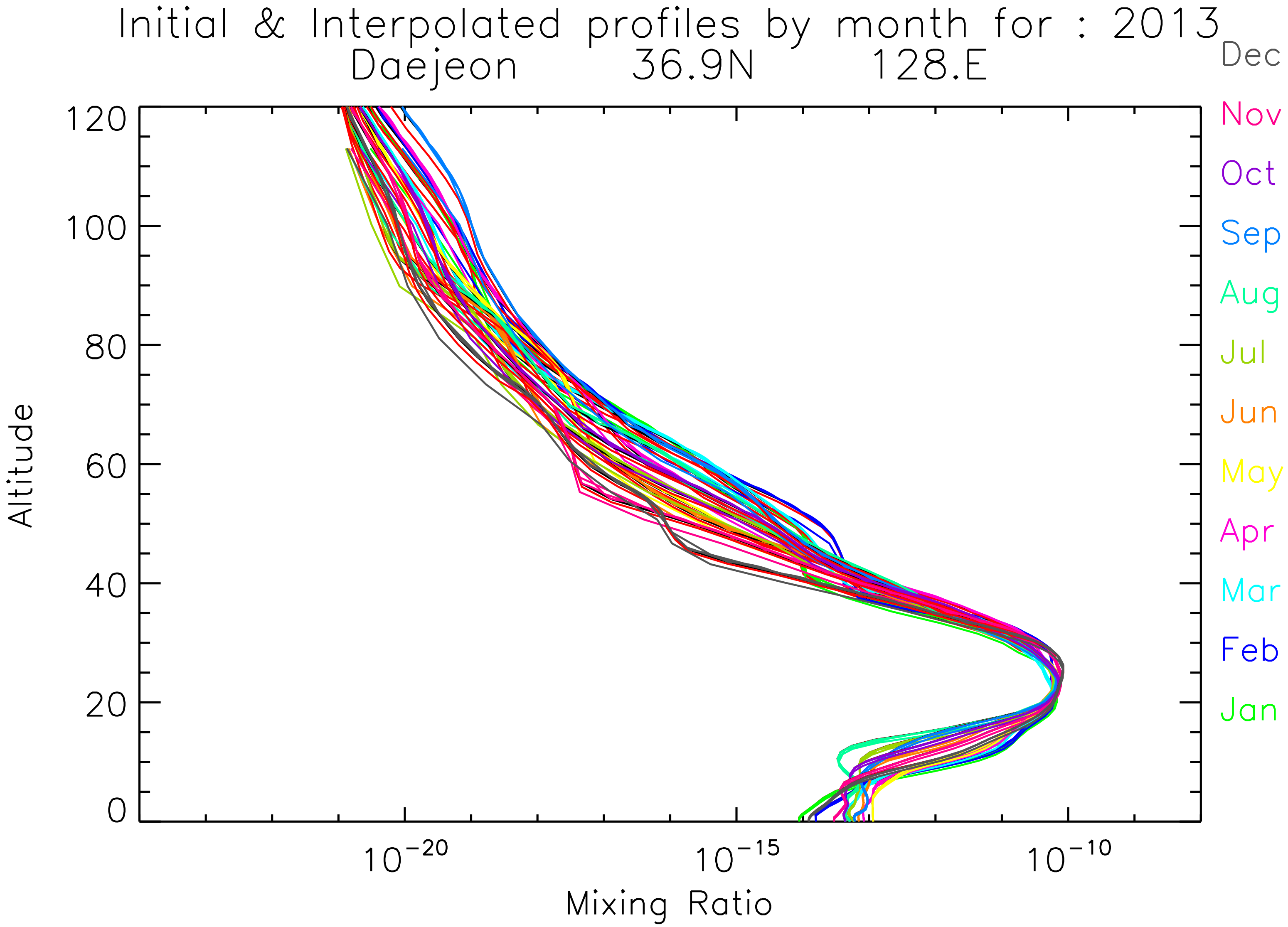


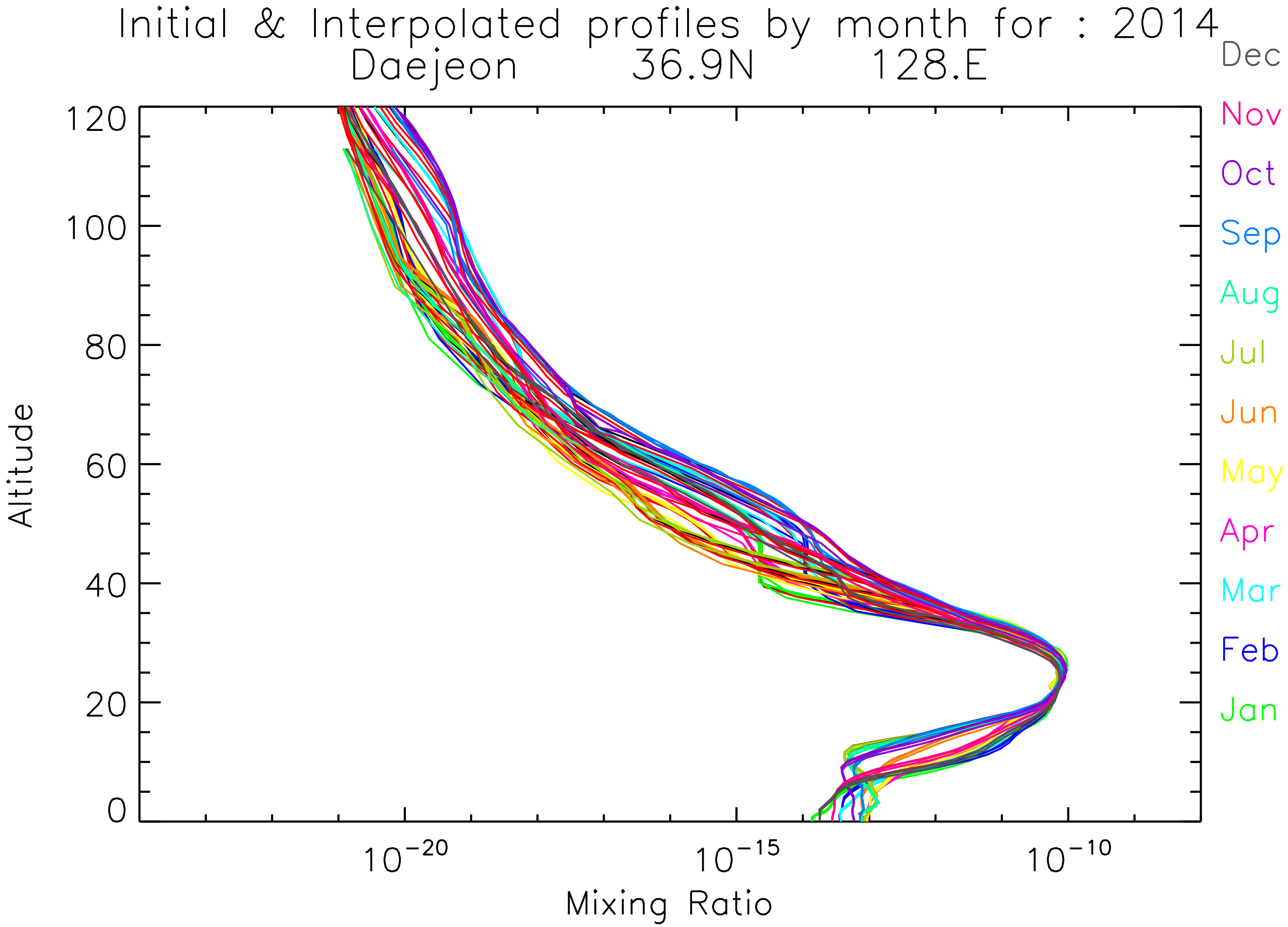
Initial & Interpolated profiles by month for : 2010
Daejeon 36.9N 128.E

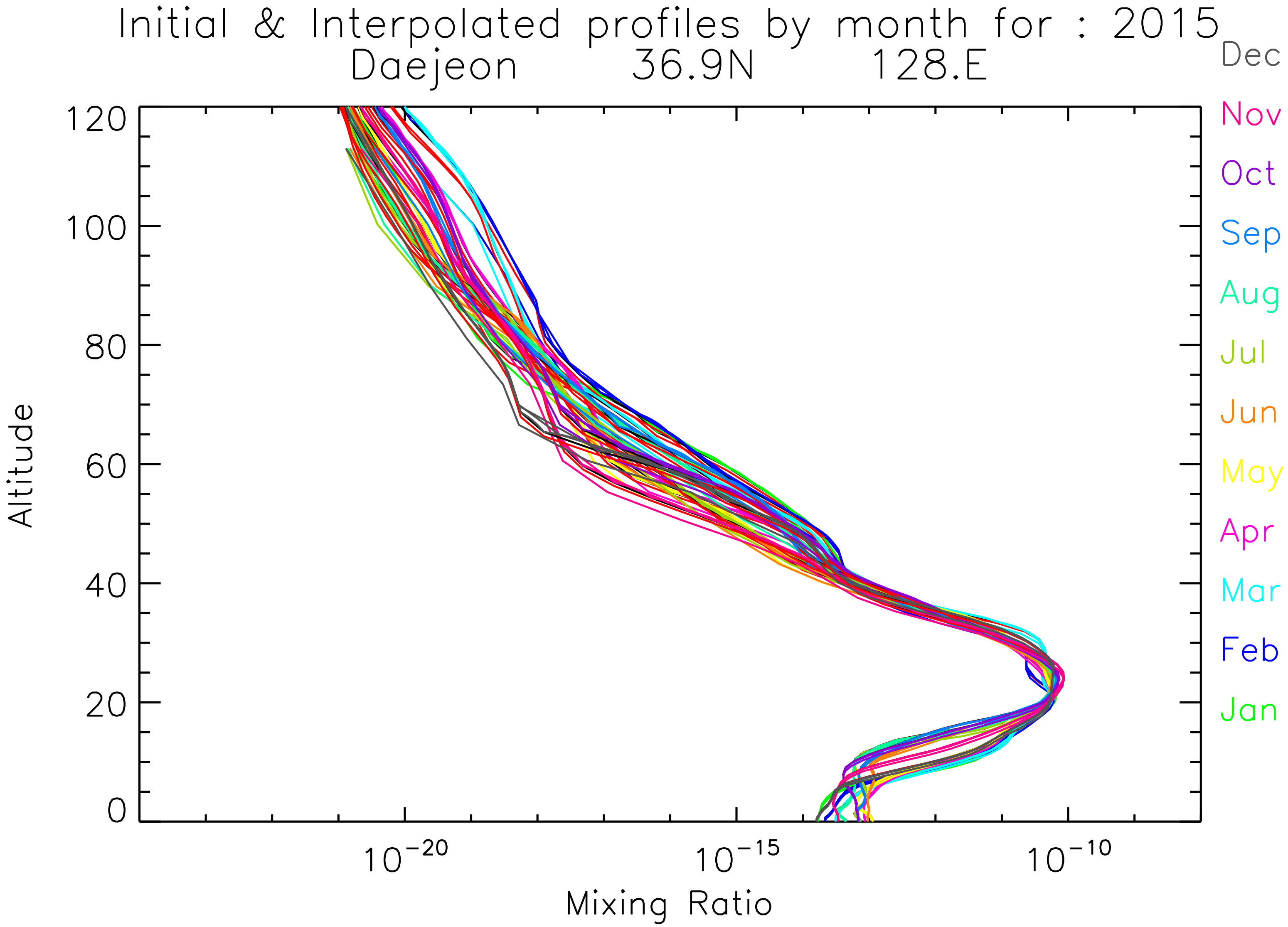

Initial & Interpolated profiles by month for : 2011
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

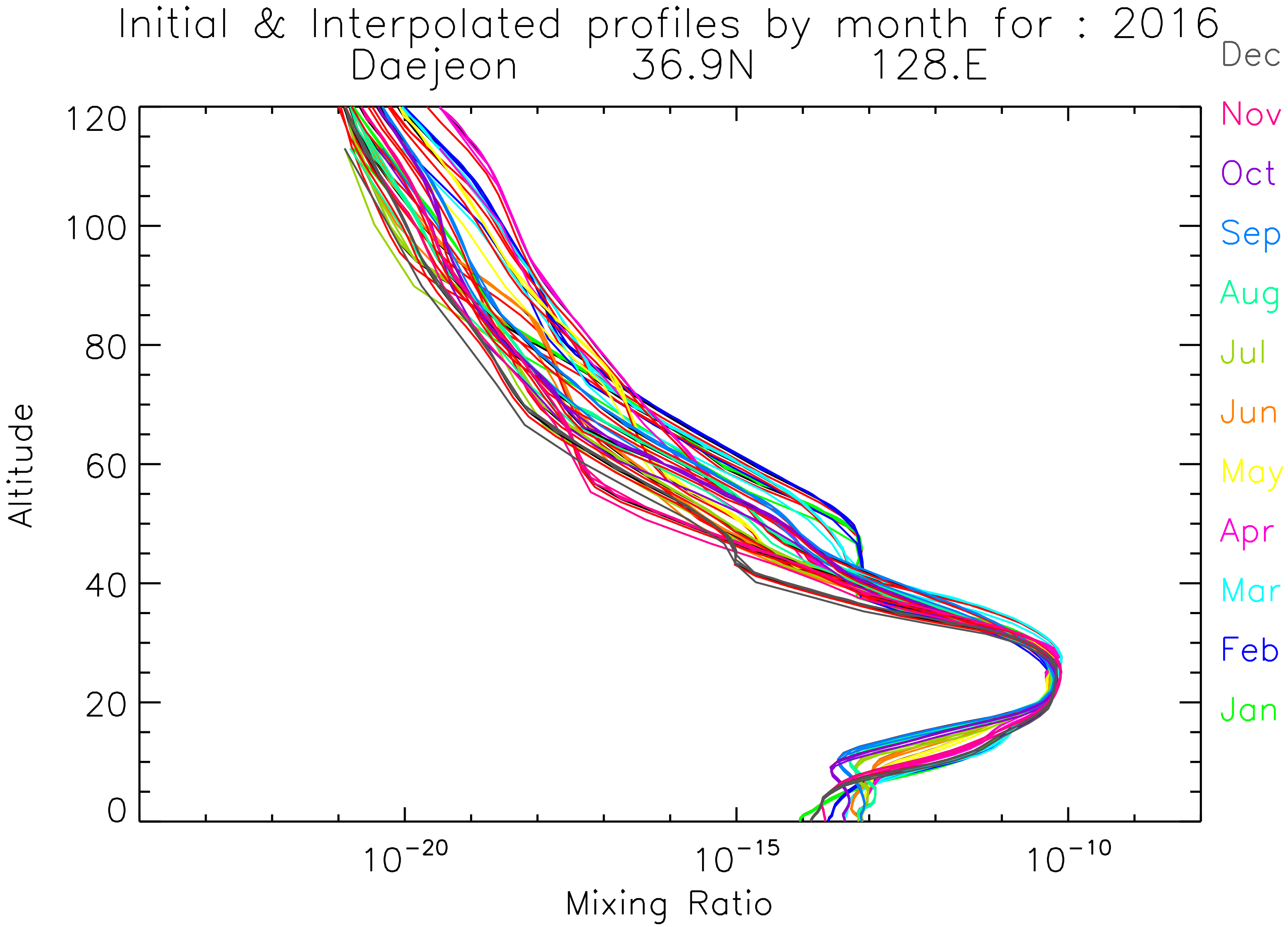


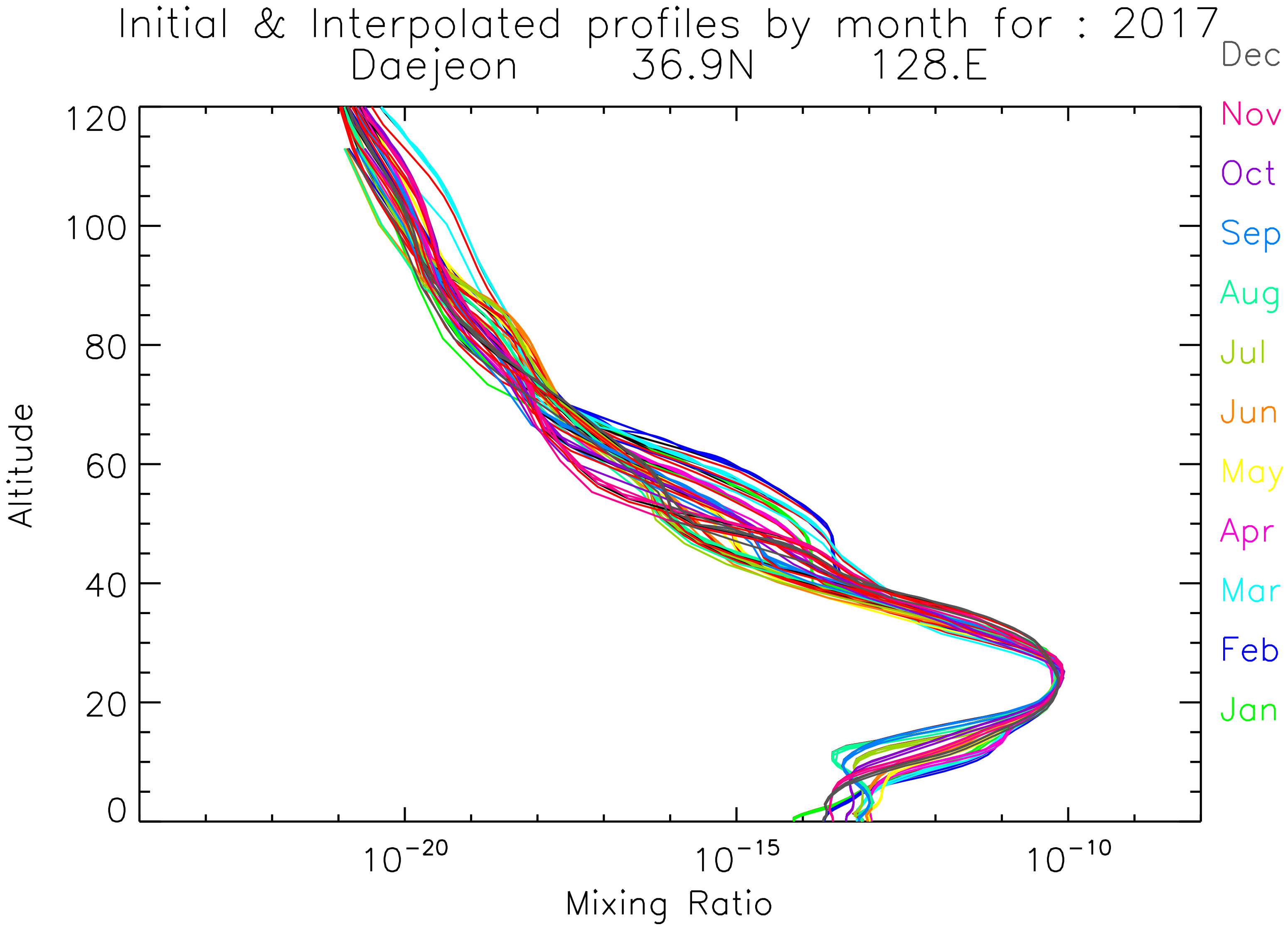
Initial & Interpolated profiles by month for : 2012
Daejeon 36.9N 128.E

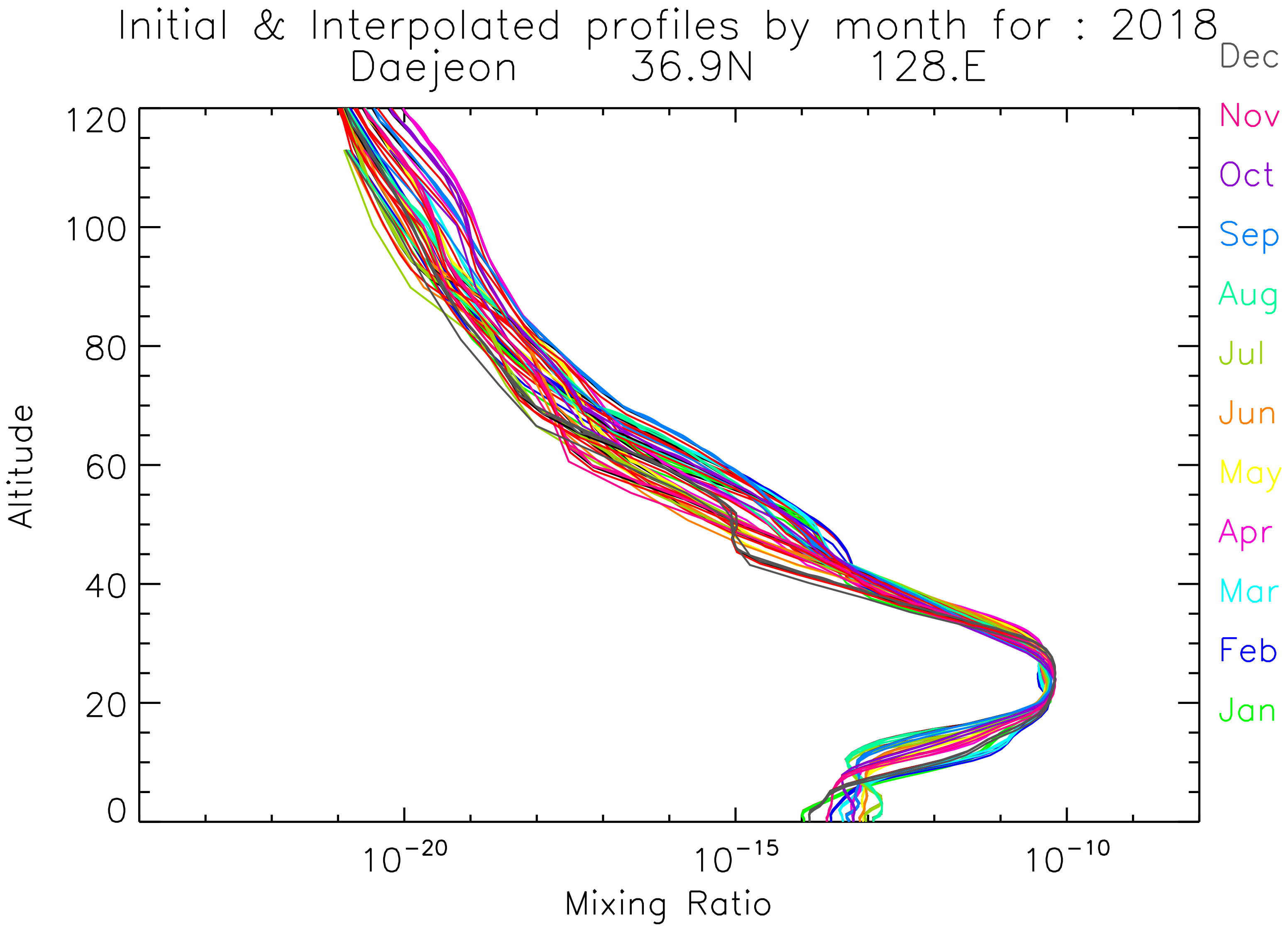

Initial & Interpolated profiles by month for : 2013
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2014
Daejeon 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

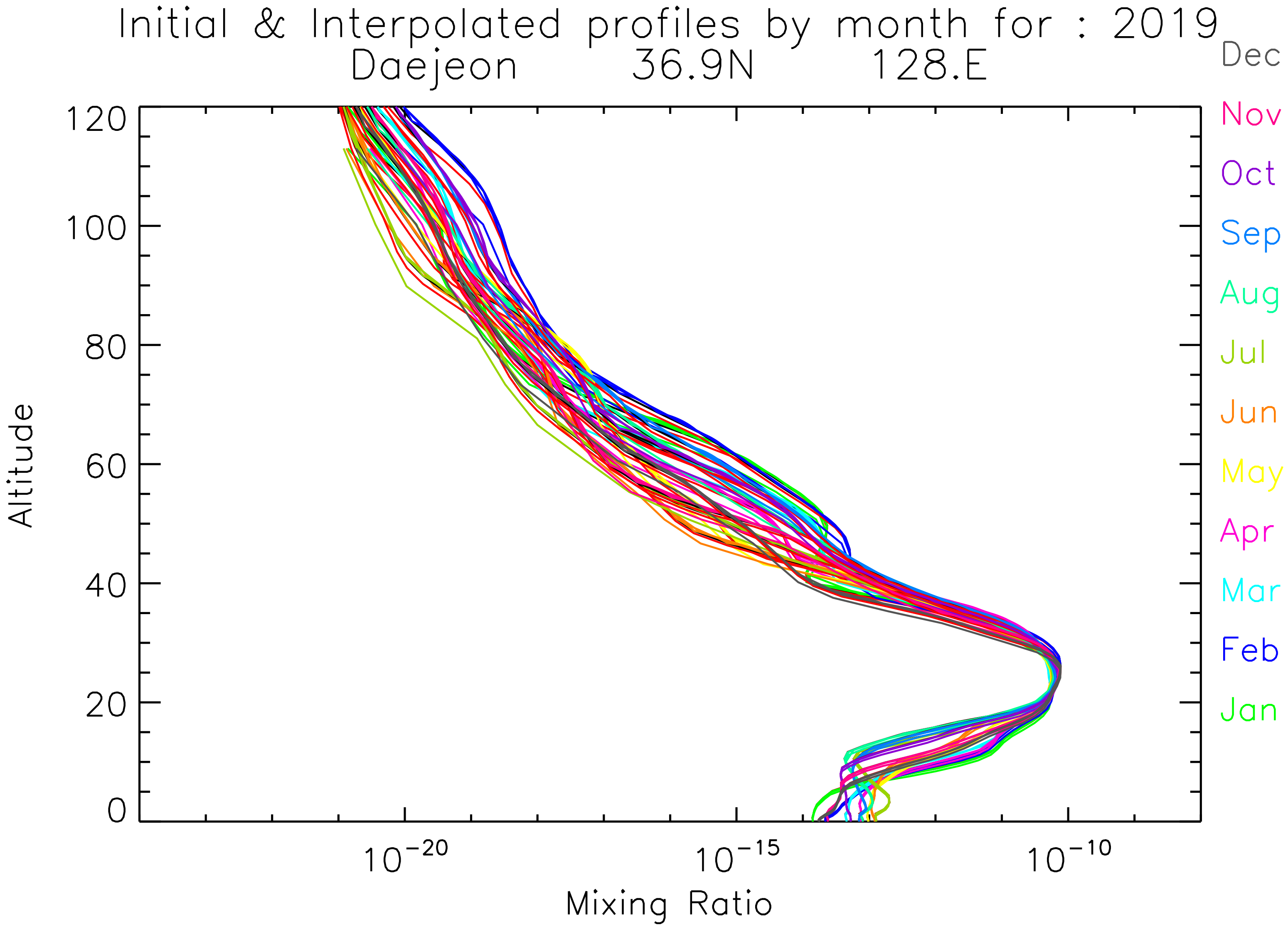

Initial & Interpolated profiles by month for : 2015
Daejeon 36.9N 128.E

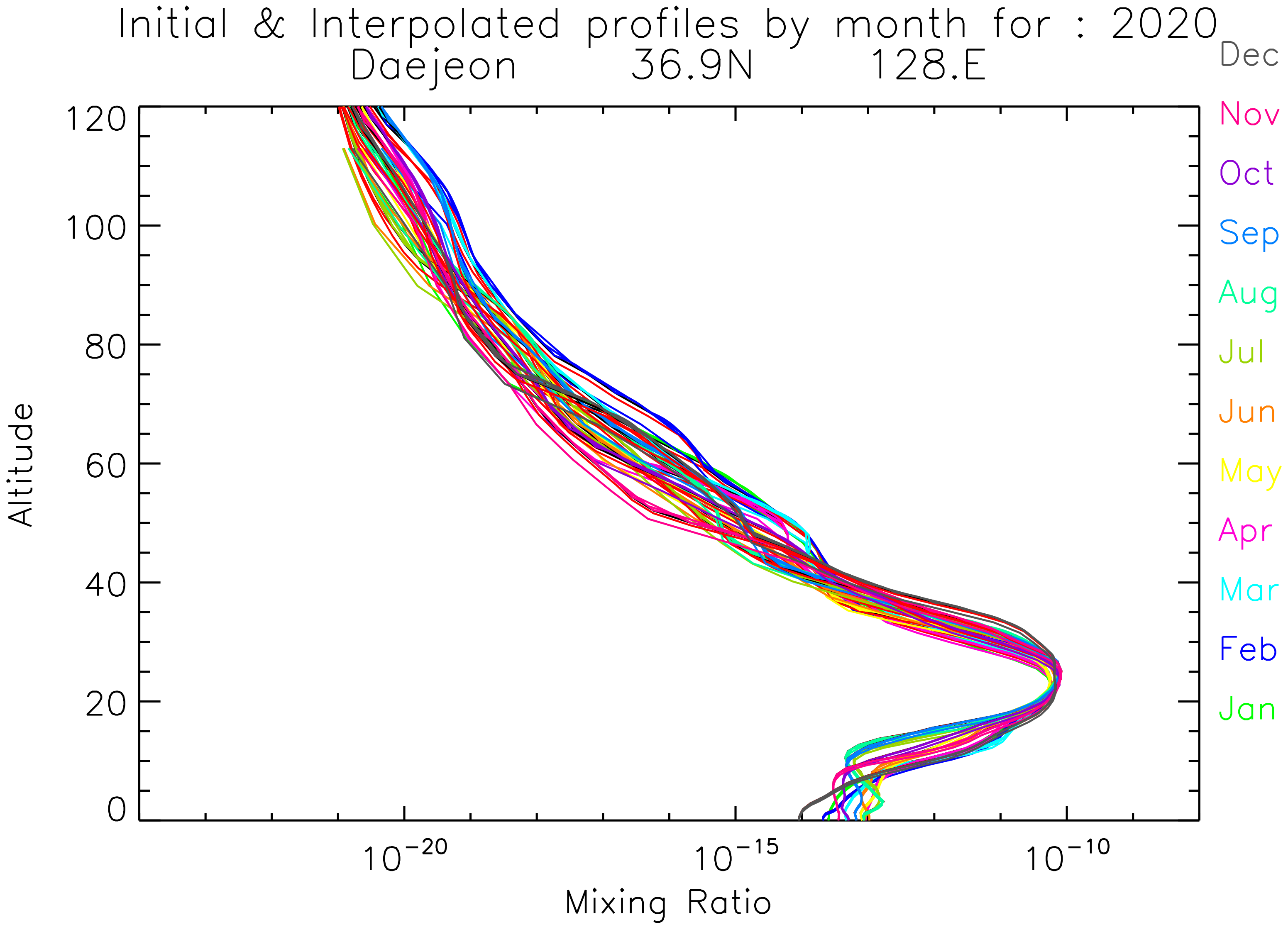

Initial & Interpolated profiles by month for : 2016
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

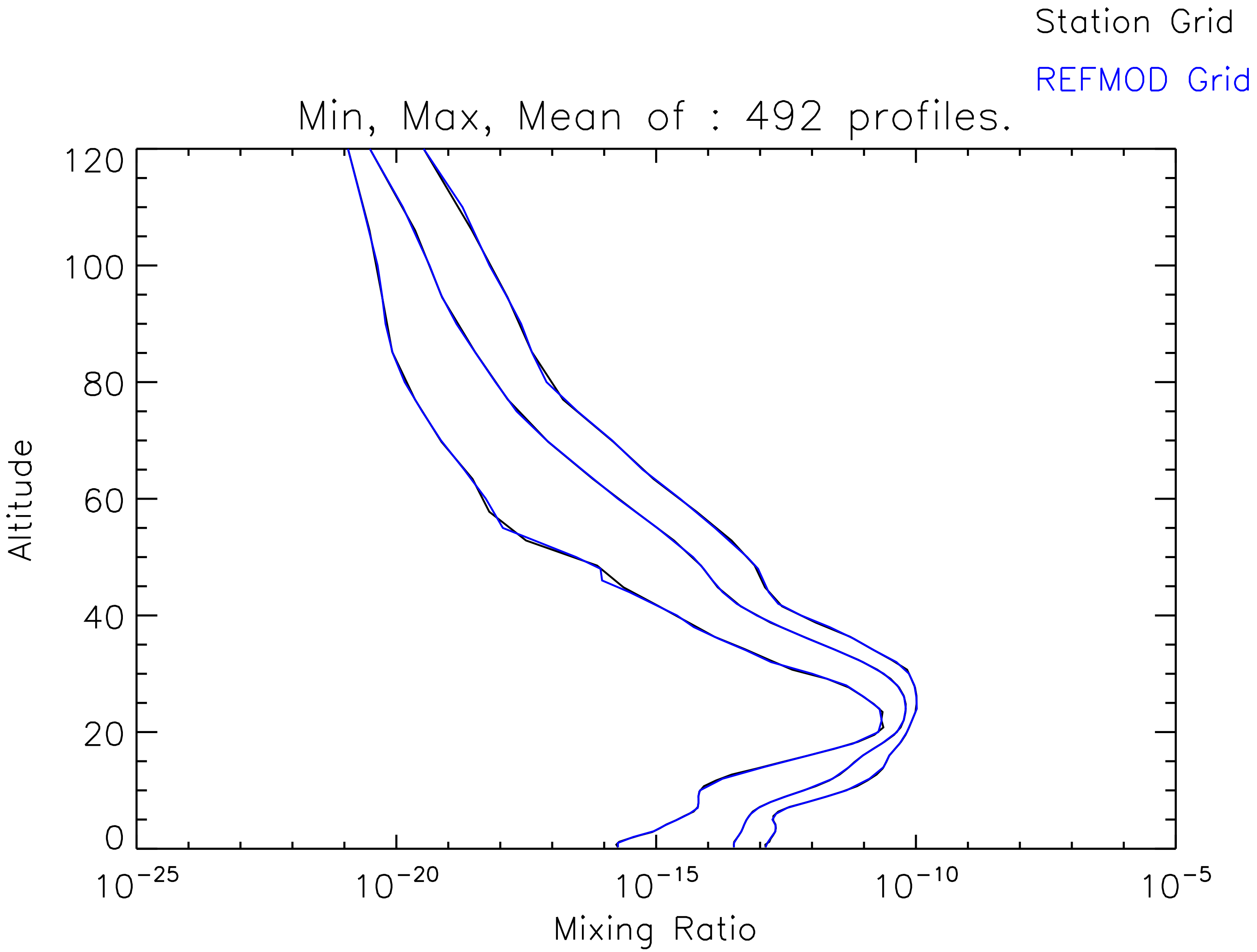

Initial & Interpolated profiles by month for : 2017
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

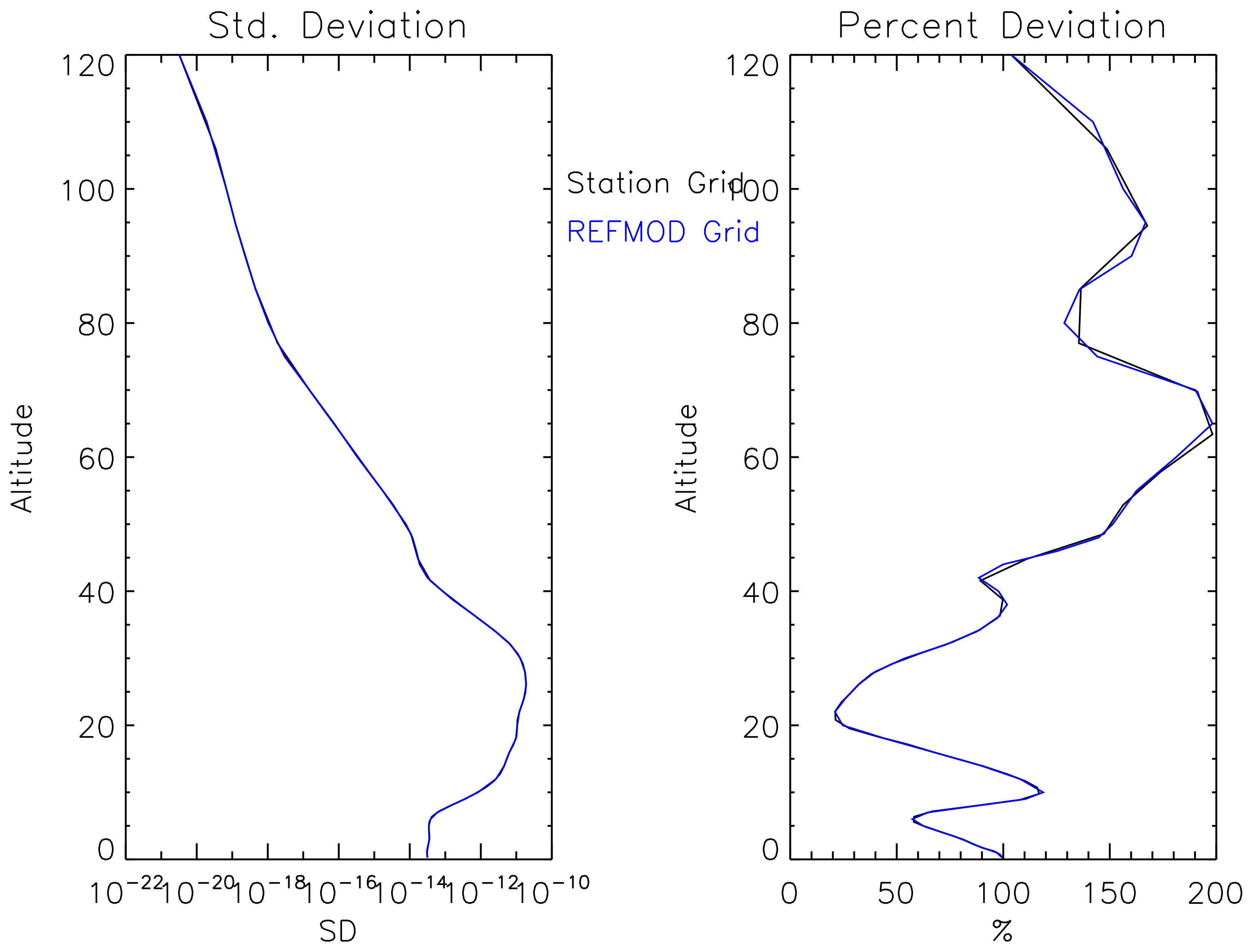


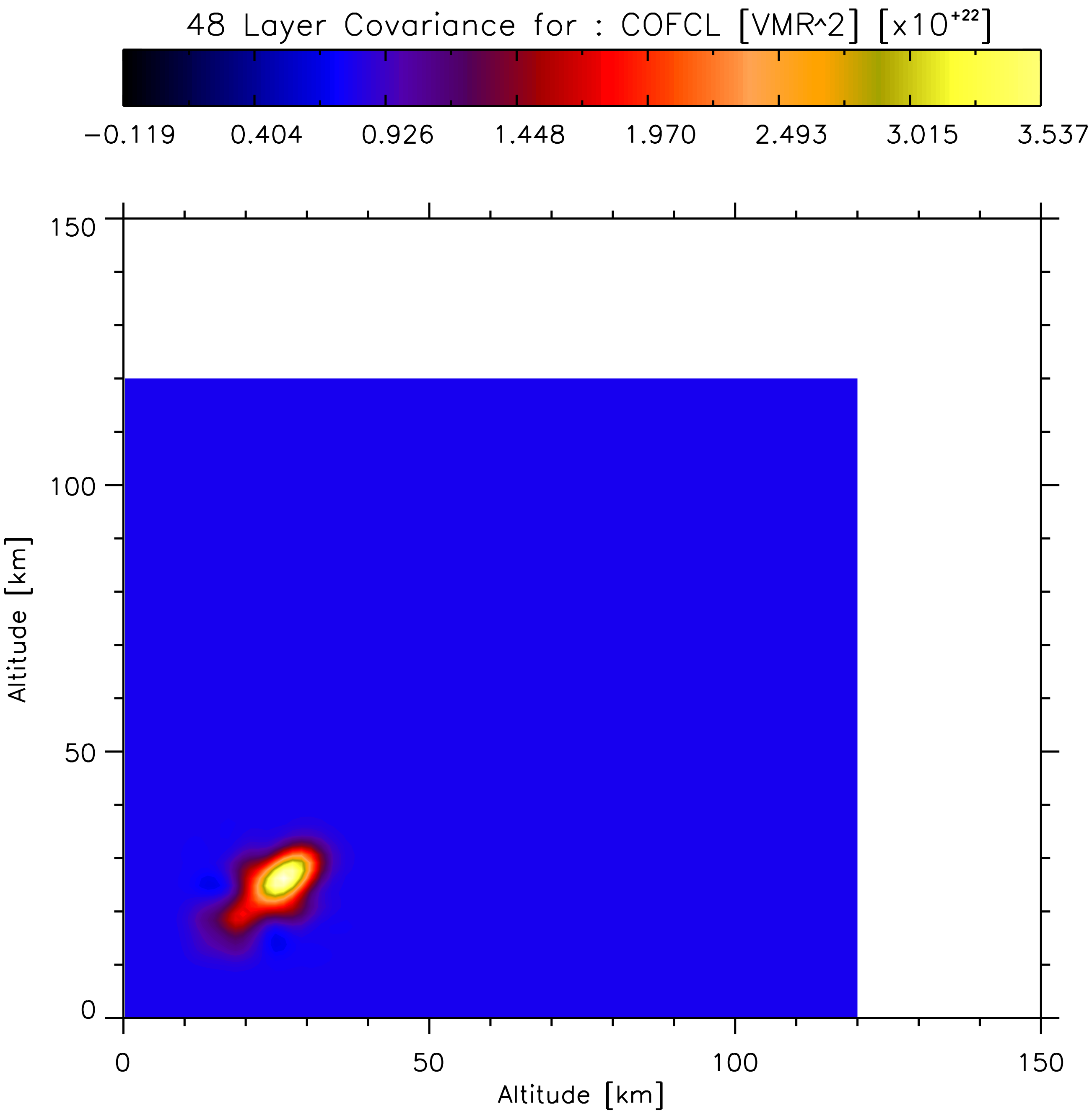
Initial & Interpolated profiles by month for : 2018
Daejeon 36.9N 128.E

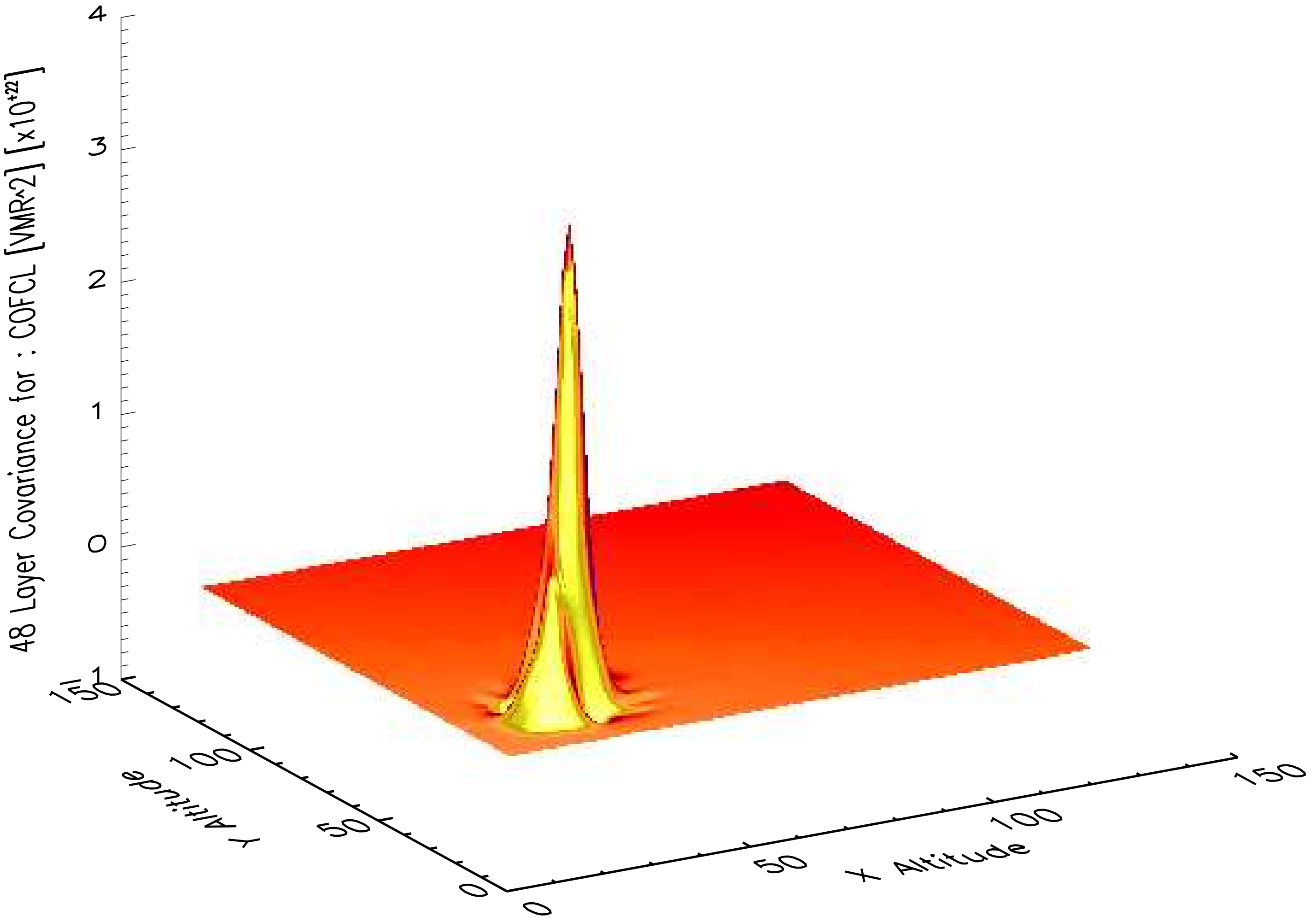

Initial & Interpolated profiles by month for : 2019
Daejeon 36.9N 128.E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-20}
10^{-15}
10^{-10}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

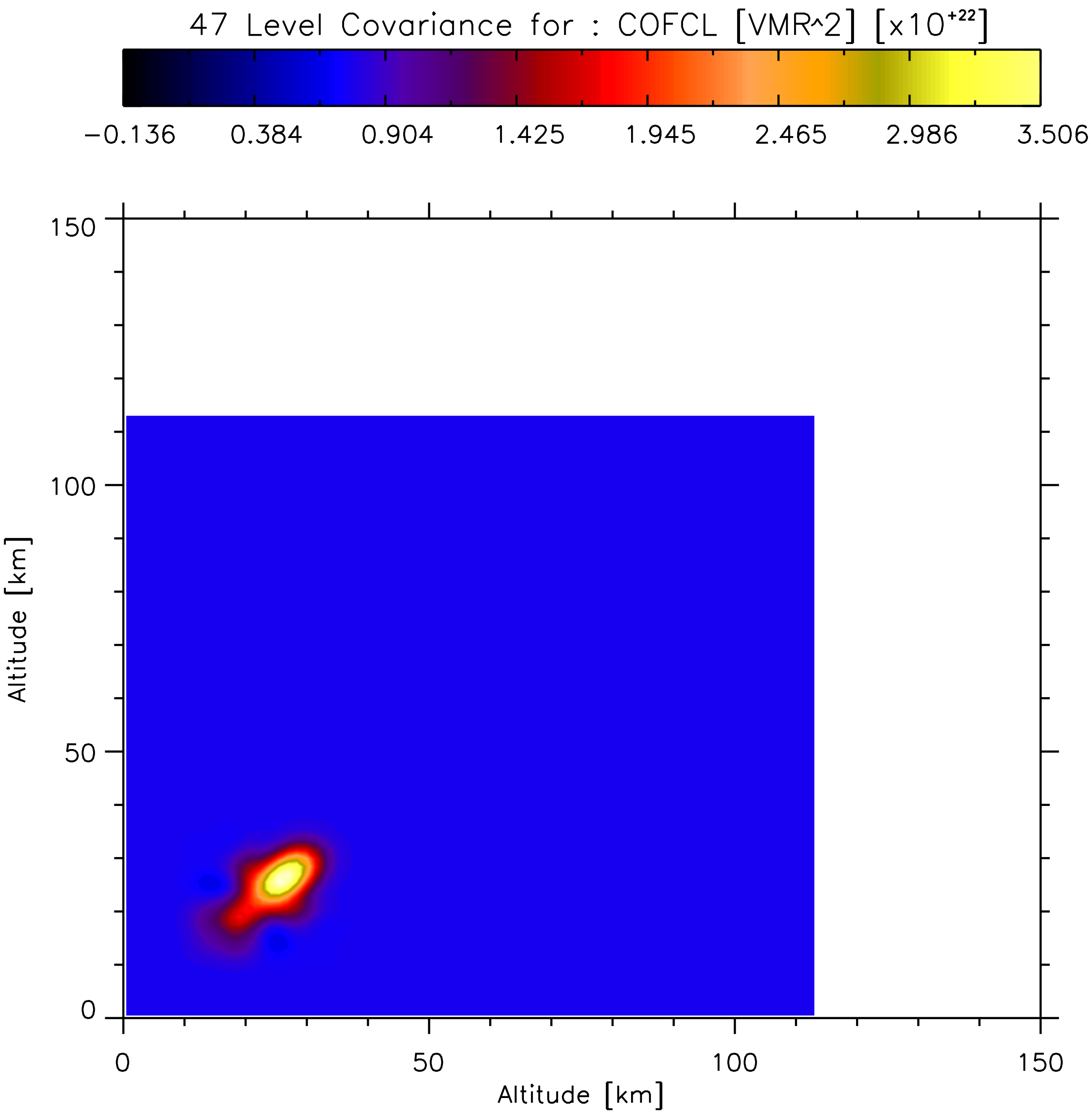

Initial & Interpolated profiles by month for : 2020
Daejeon 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
0
20
40
60
80
100
120
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

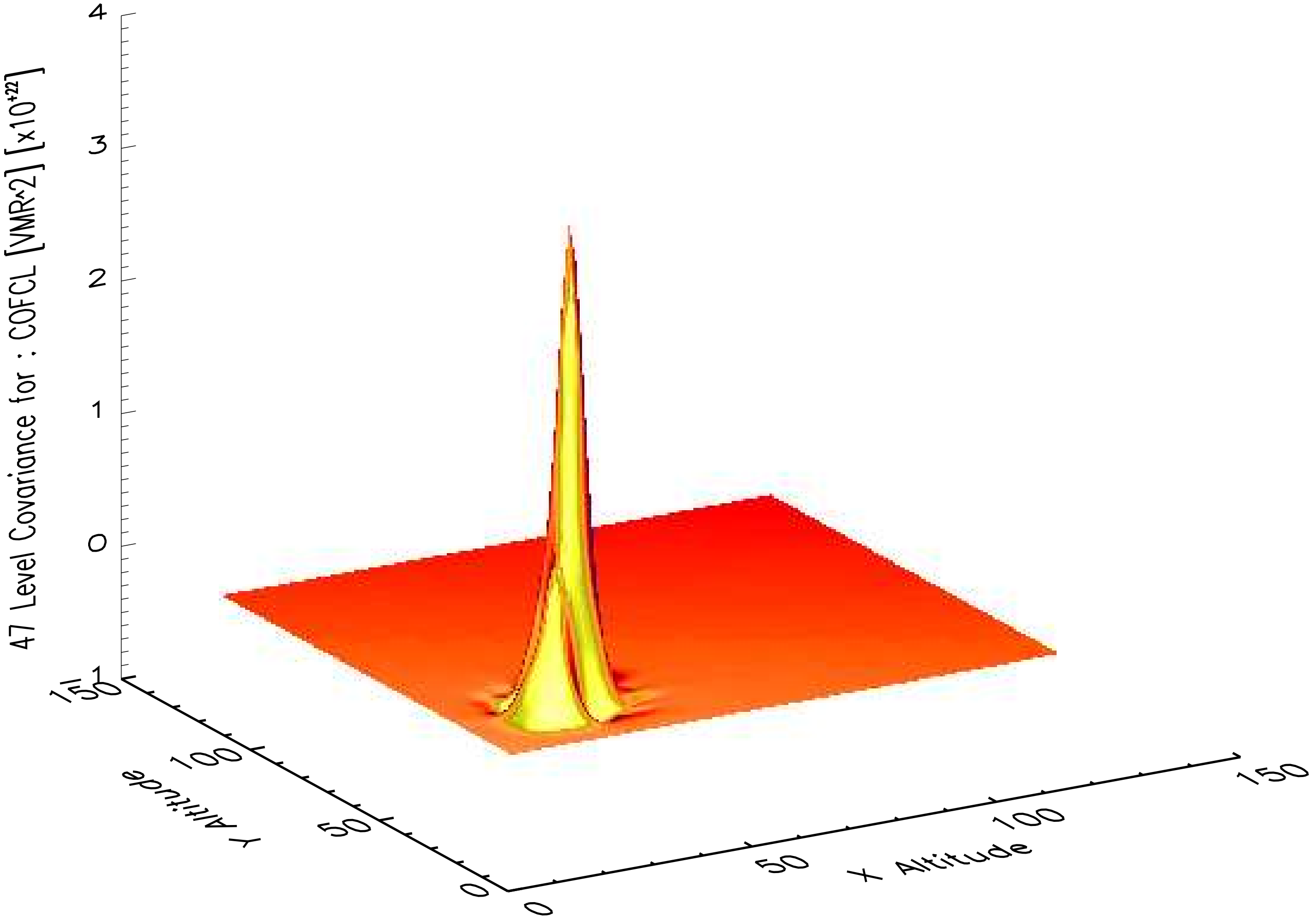

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
10^{-5}
Mixing Ratio


Std. Deviation
Percent Deviation
Altitude
Altitude
120
100
80
60
40
20
0
10^{-22} 10^{-20} 10^{-18} 10^{-16} 10^{-14} 10^{-12} 10^{-10}
SD
0
50
100
150
200
%
Station Grid
REFMOD Grid


48 Layer Covariance for : COFCL [VMR^2] [x10^{+22}]
−0.119
0.404
0.926
1.448
1.970
2.493
3.015
3.537
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : COFCL [VMR^2] [x10^+22]
4
3
2
1
0
-1
150
100
50
0
Y Altitude
0
50
100
150
X Altitude


47 Level Covariance for : COFCL [VMR^2] [x10^+22]
-0.136
0.384
0.904
1.425
1.945
2.465
2.986
3.506
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]



47 Level Covariance for : COFCL [VMR^2] [x10^+22]
-1
0
1
2
3
4
Y Altitude
0
50
100
150
X Altitude
0
50
100
150