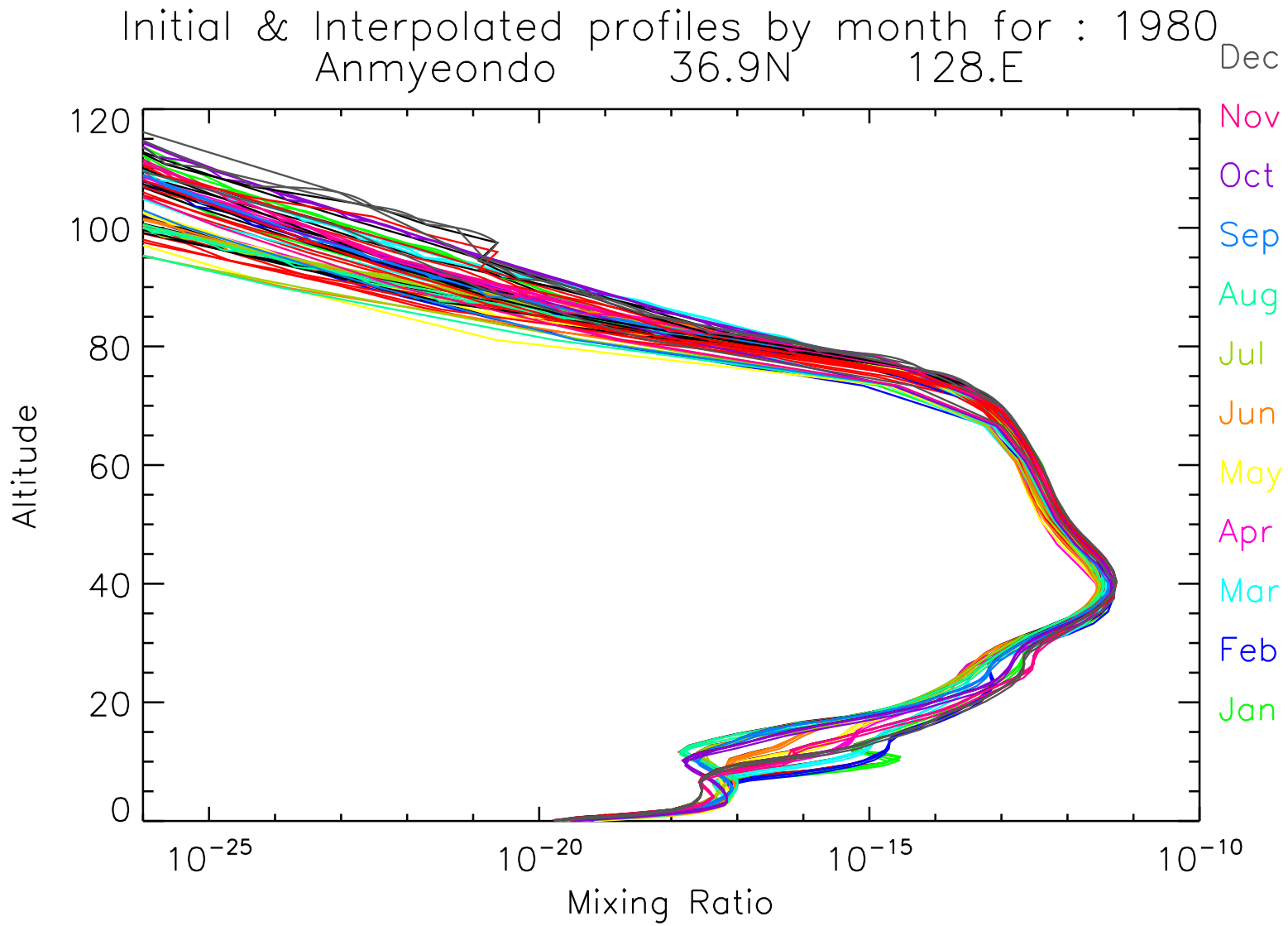
Initial & Interpolated profiles by month for : 1980
Anmyeondo 36.9N 128.E
Dec
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Altitude
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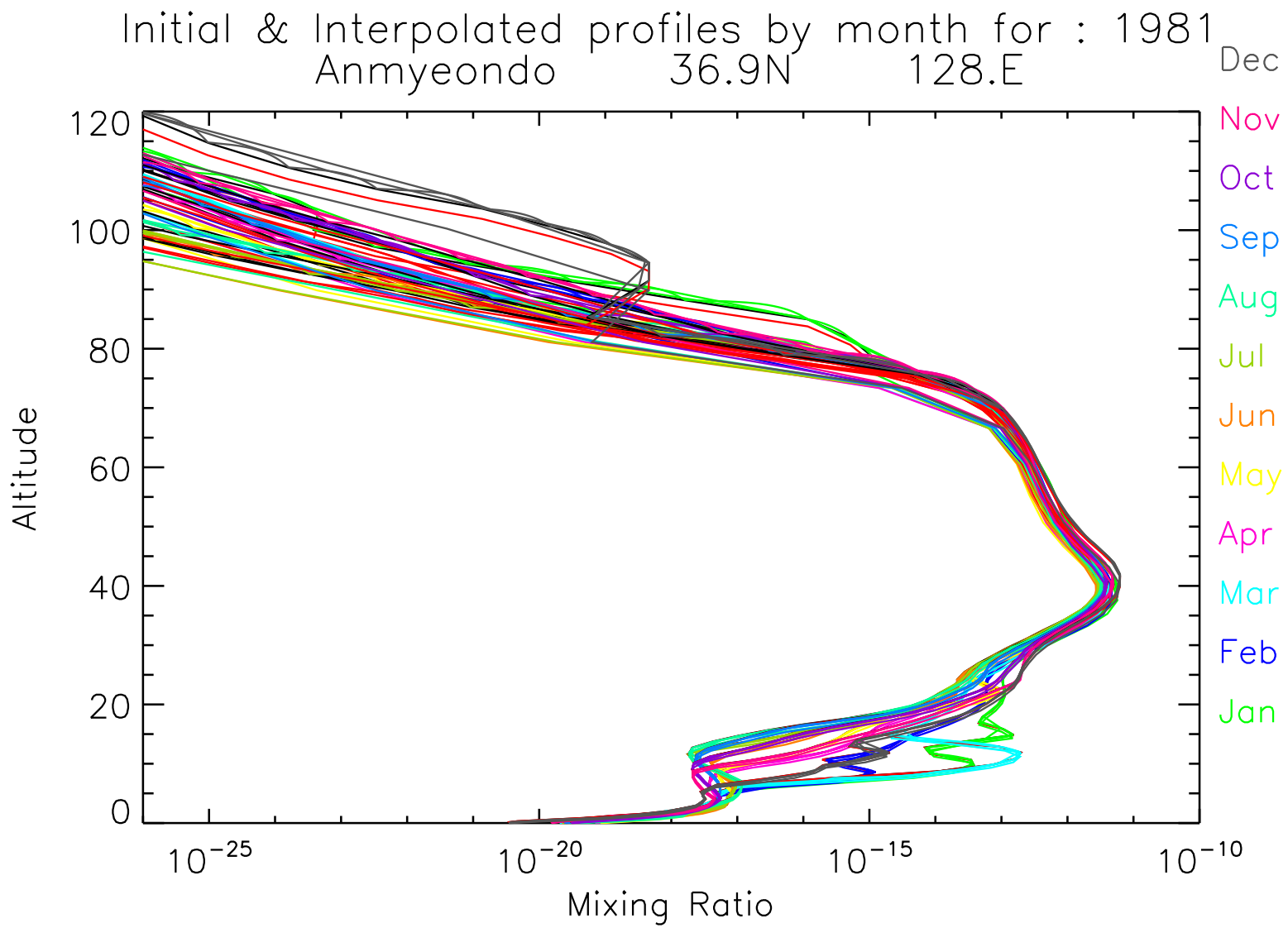
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Anmyeondo 36.9N 128.E
Dec
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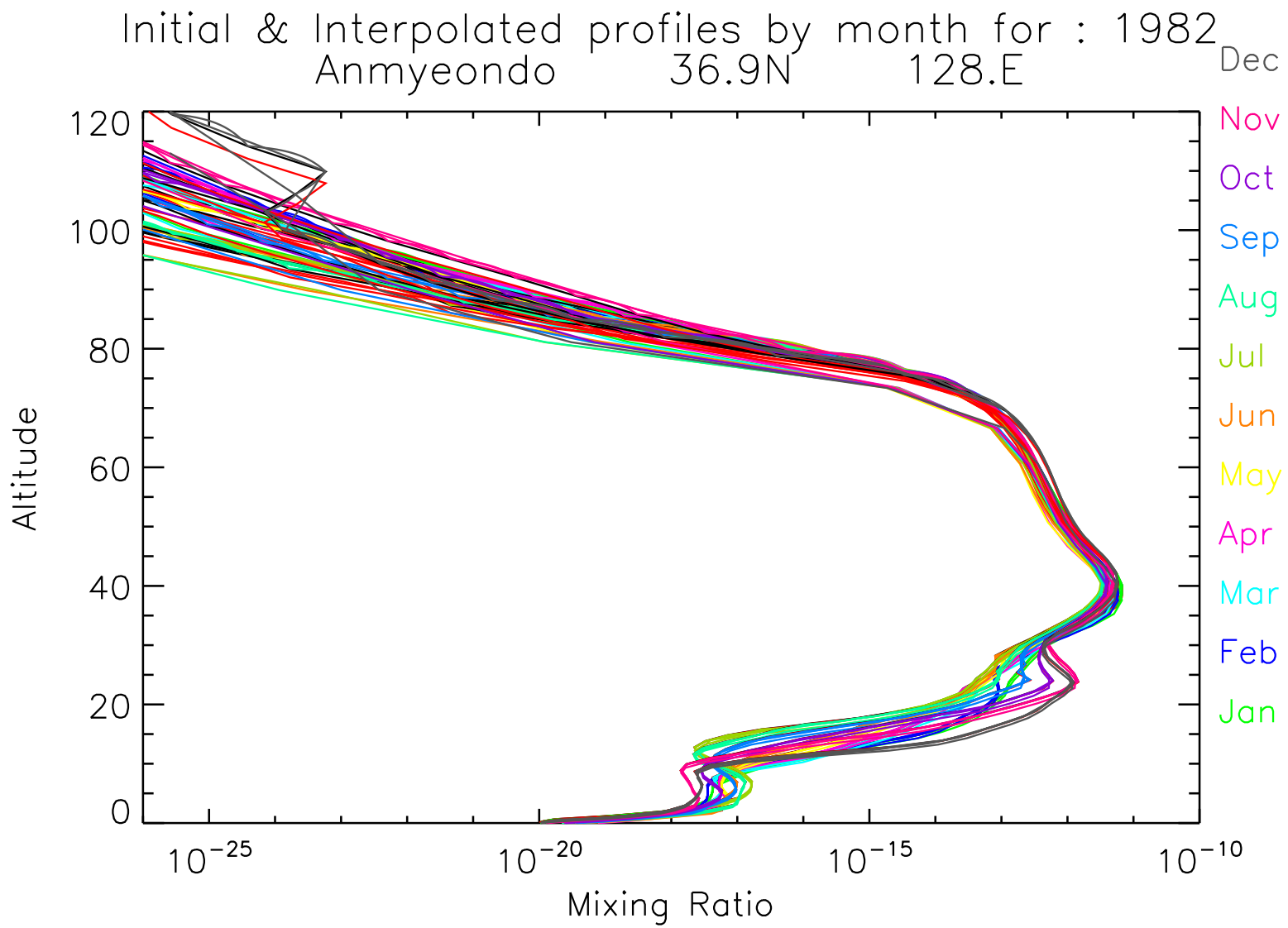
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Anmyeondo 36.9N 128.E
Dec
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120
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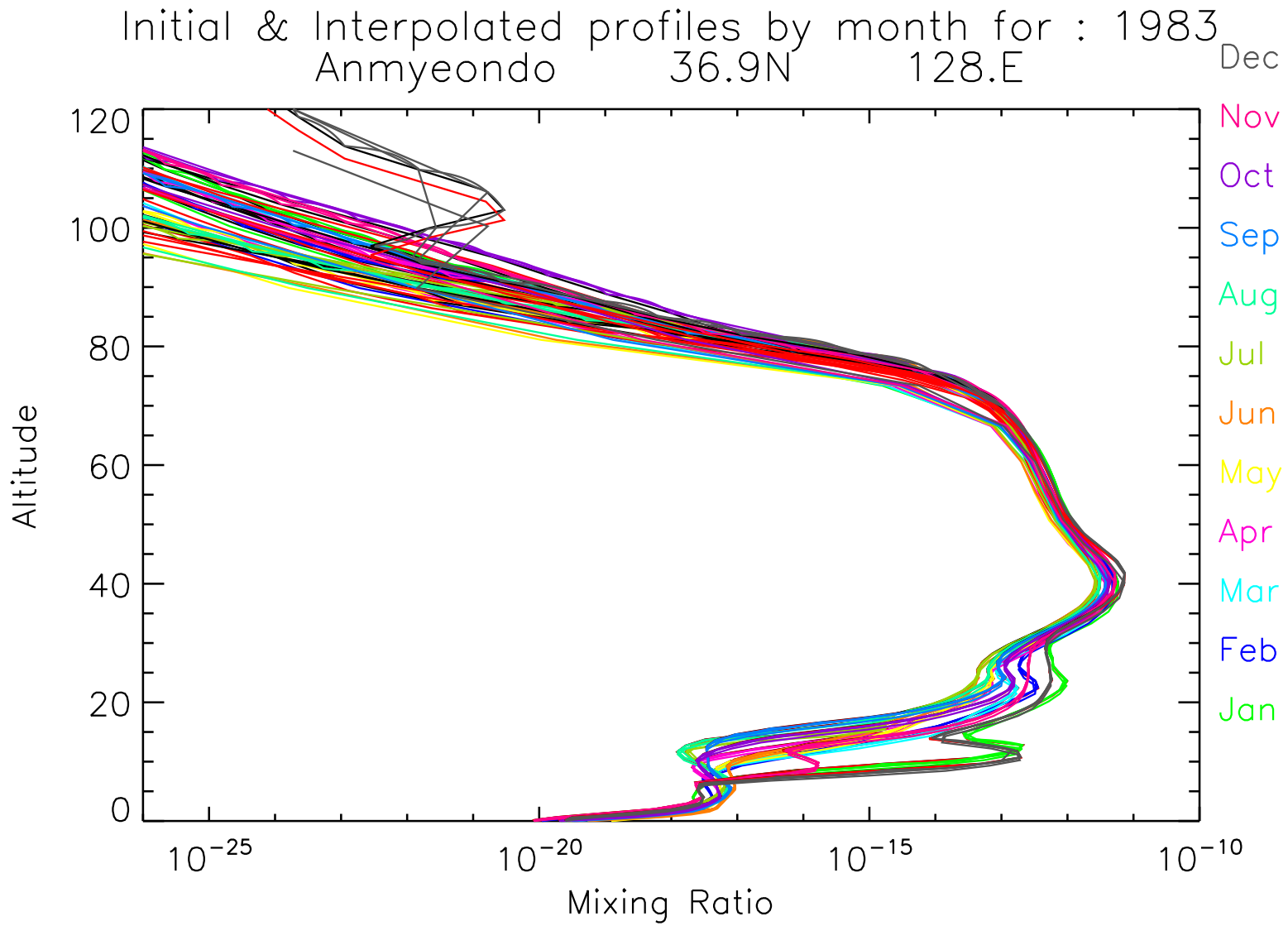
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Anmyeondo 36.9N 128.E
Dec
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0
Altitude
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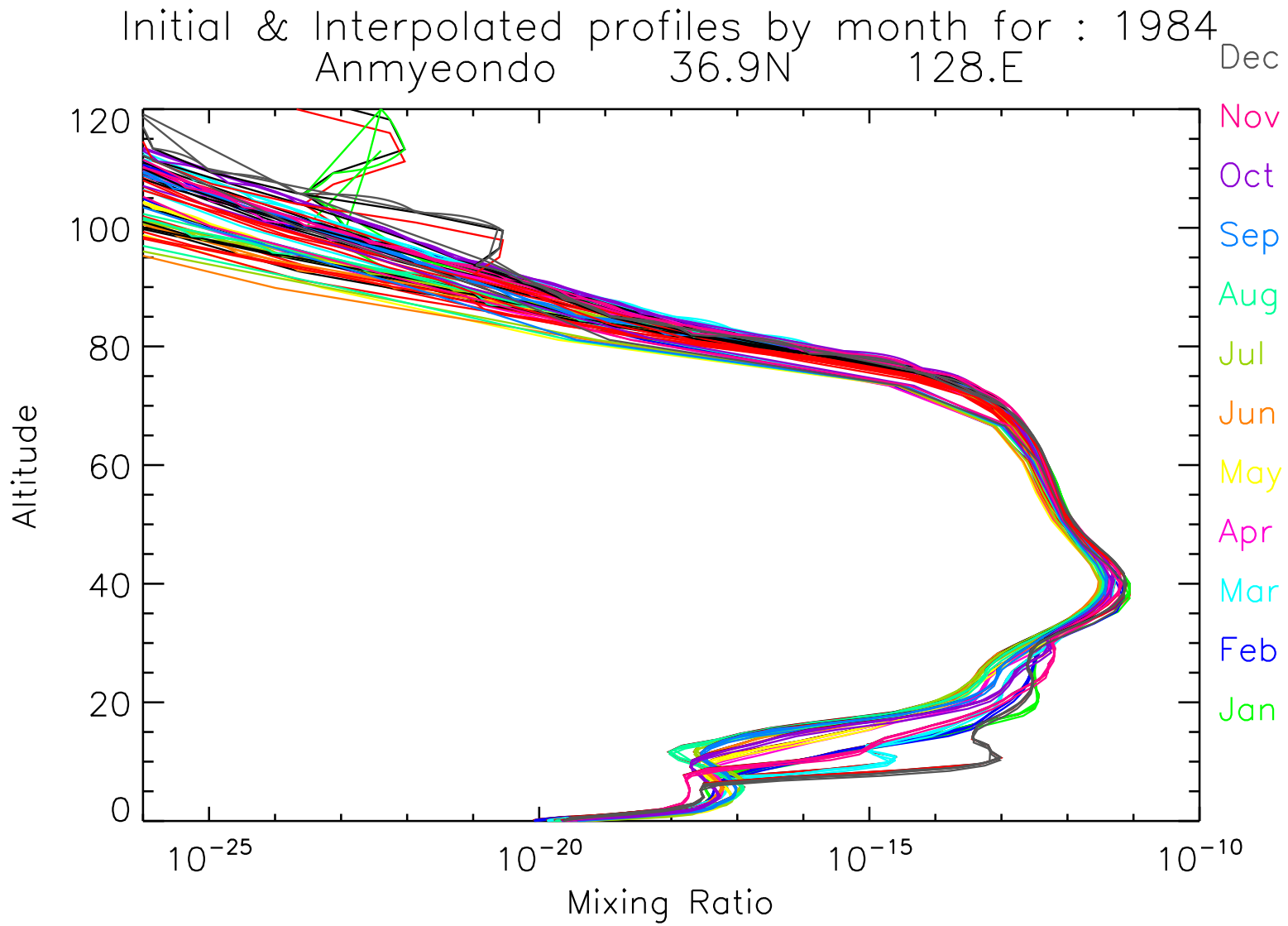
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Anmyeondo 36.9N 128.E
Dec
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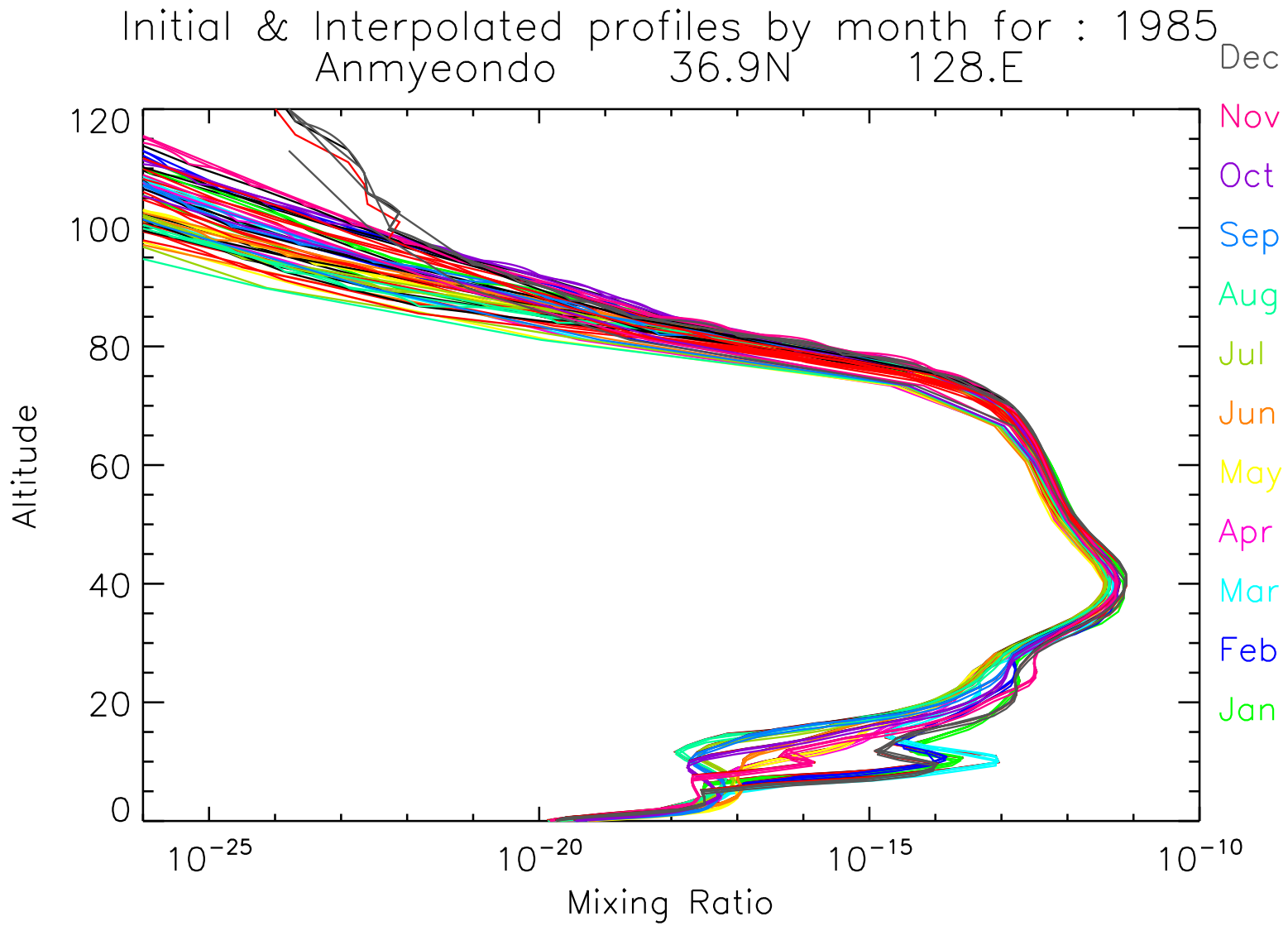
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Anmyeondo 36.9N 128.E
Dec
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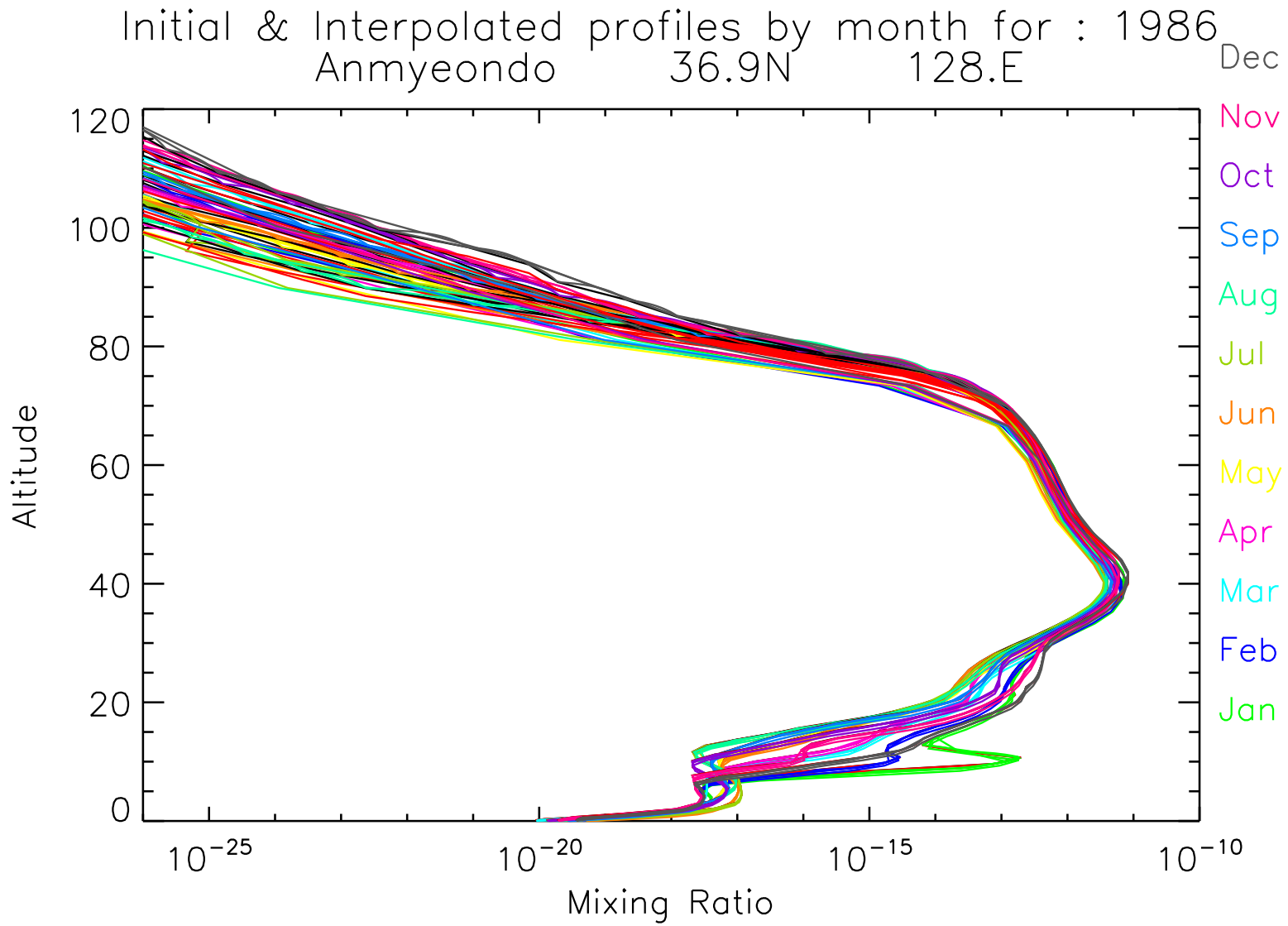
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Anmyeondo 36.9N 128.E
Dec
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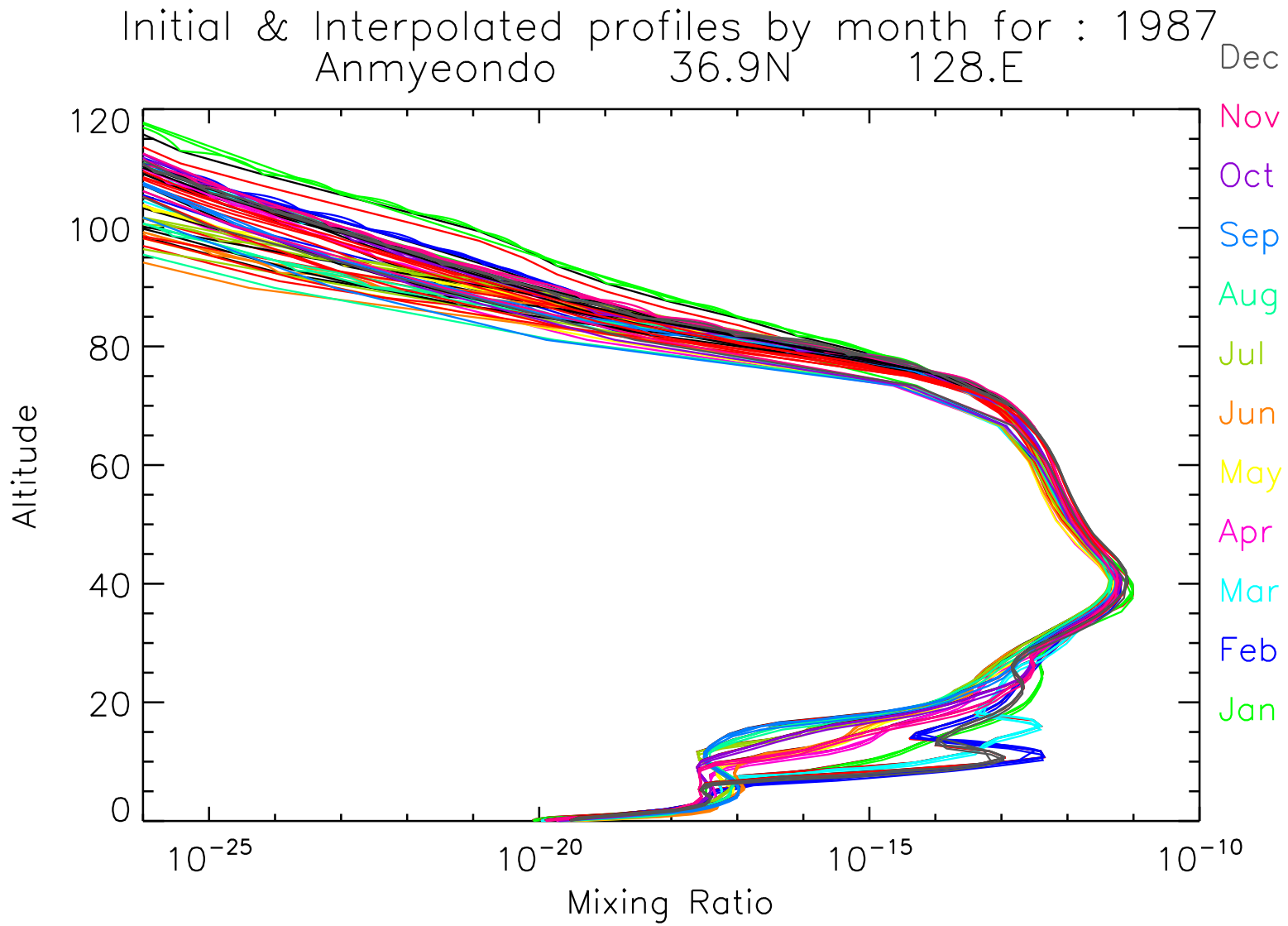
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Anmyeondo 36.9N 128.E
Dec
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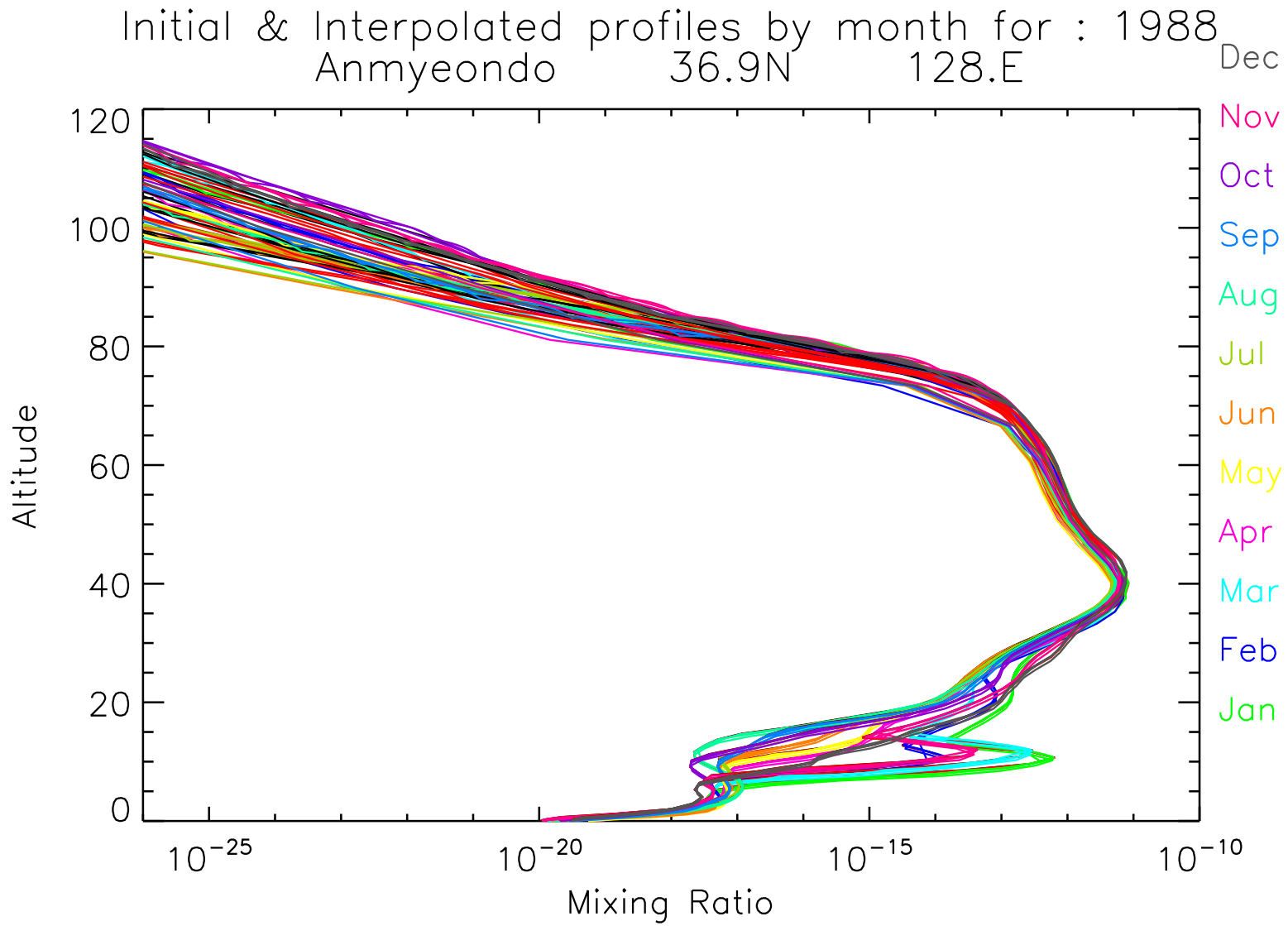
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Anmyeondo 36.9N 128.E
Dec
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Altitude
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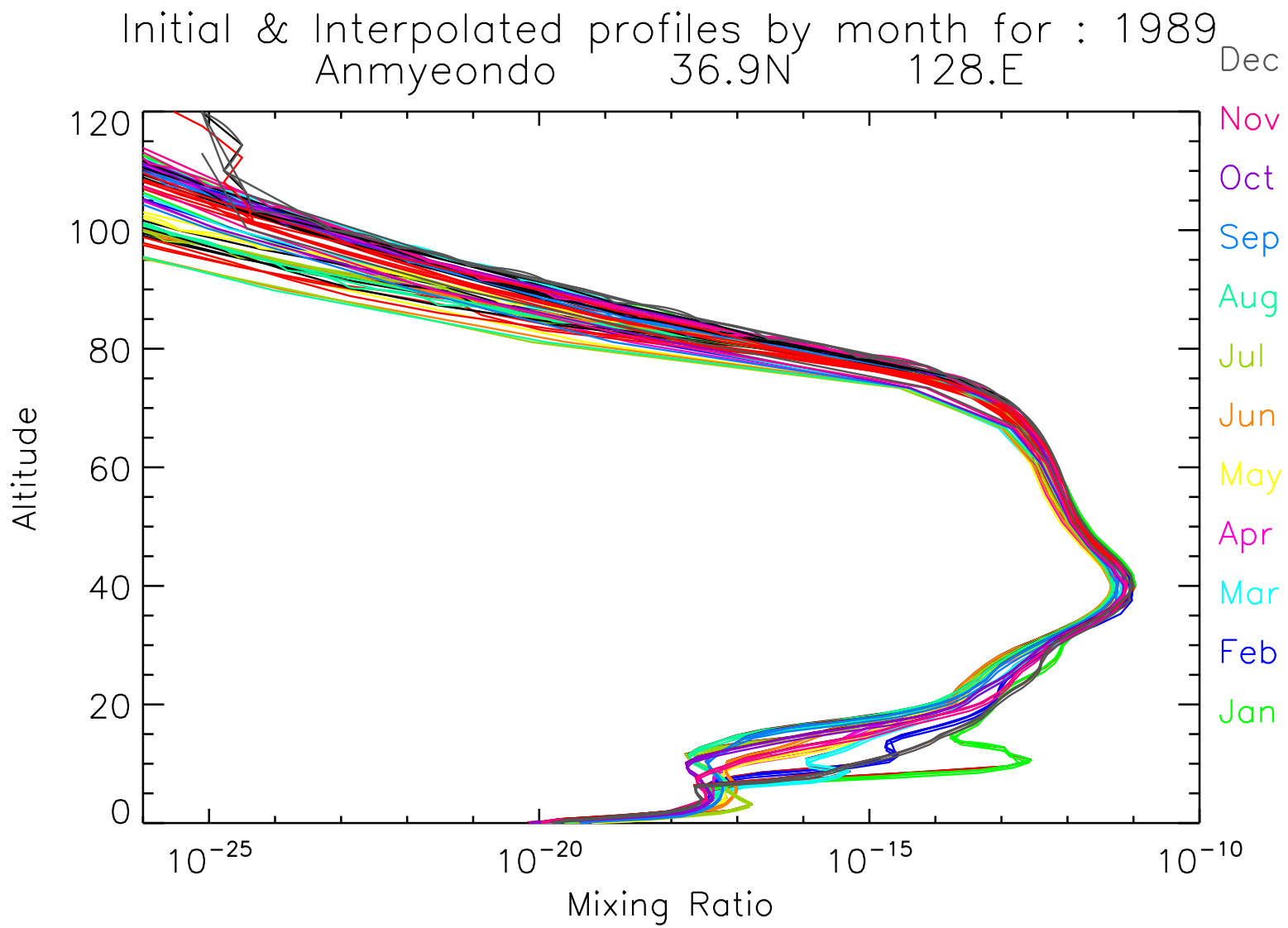
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Anmyeondo 36.9N 128.E
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Altitude
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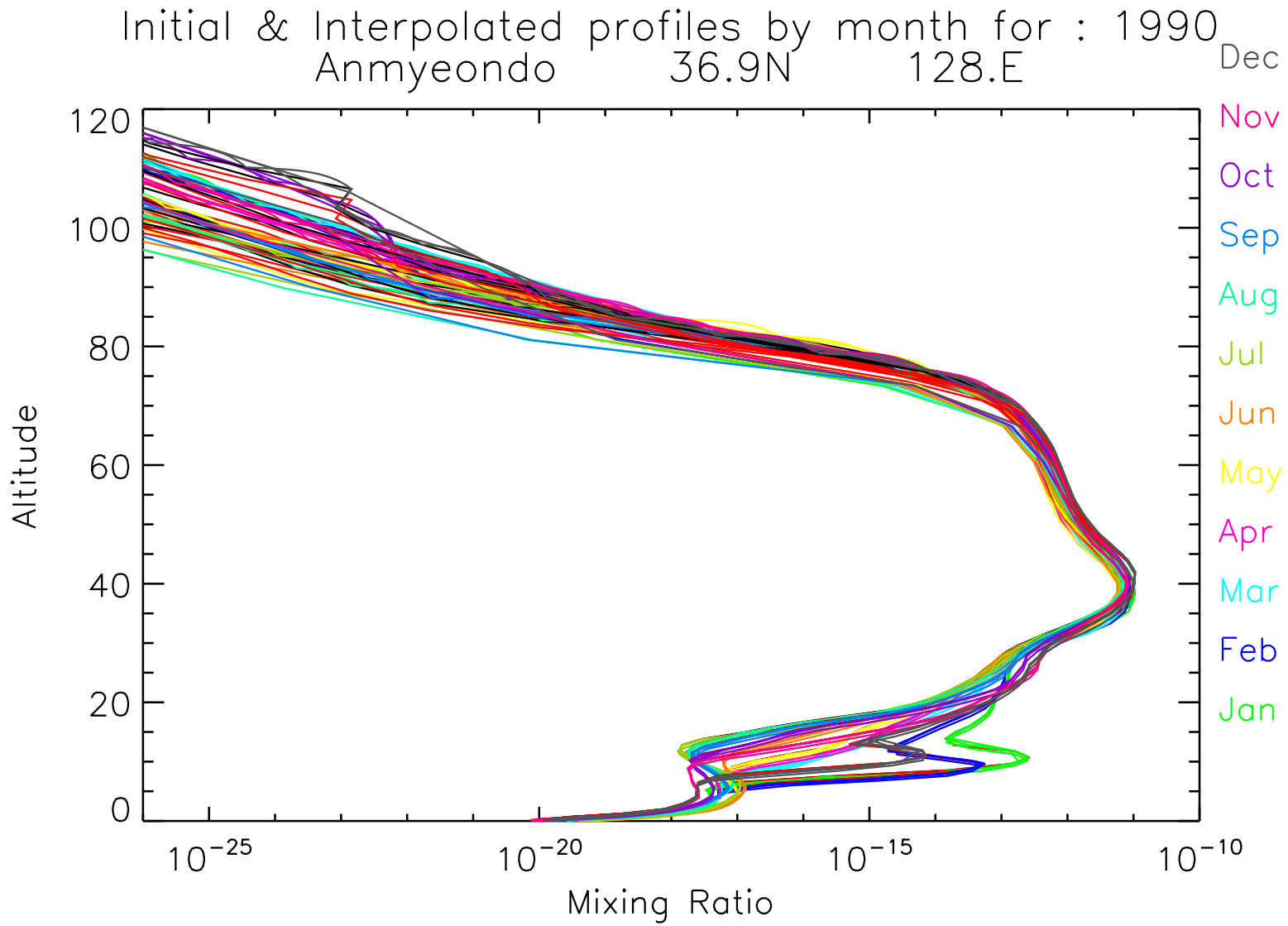
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Anmyeondo 36.9N 128.E
Dec
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Altitude
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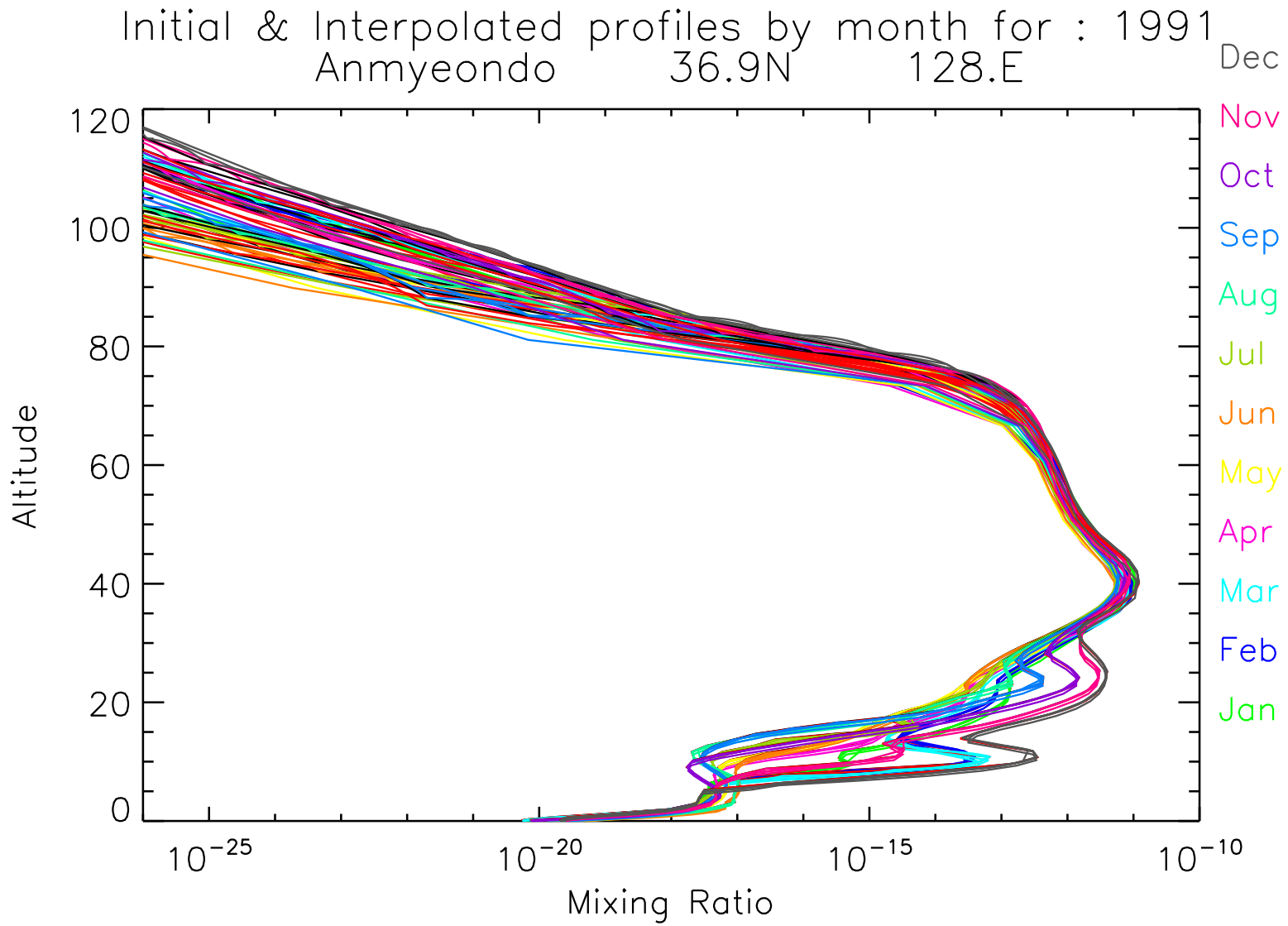
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Anmyeondo 36.9N 128.E
Dec
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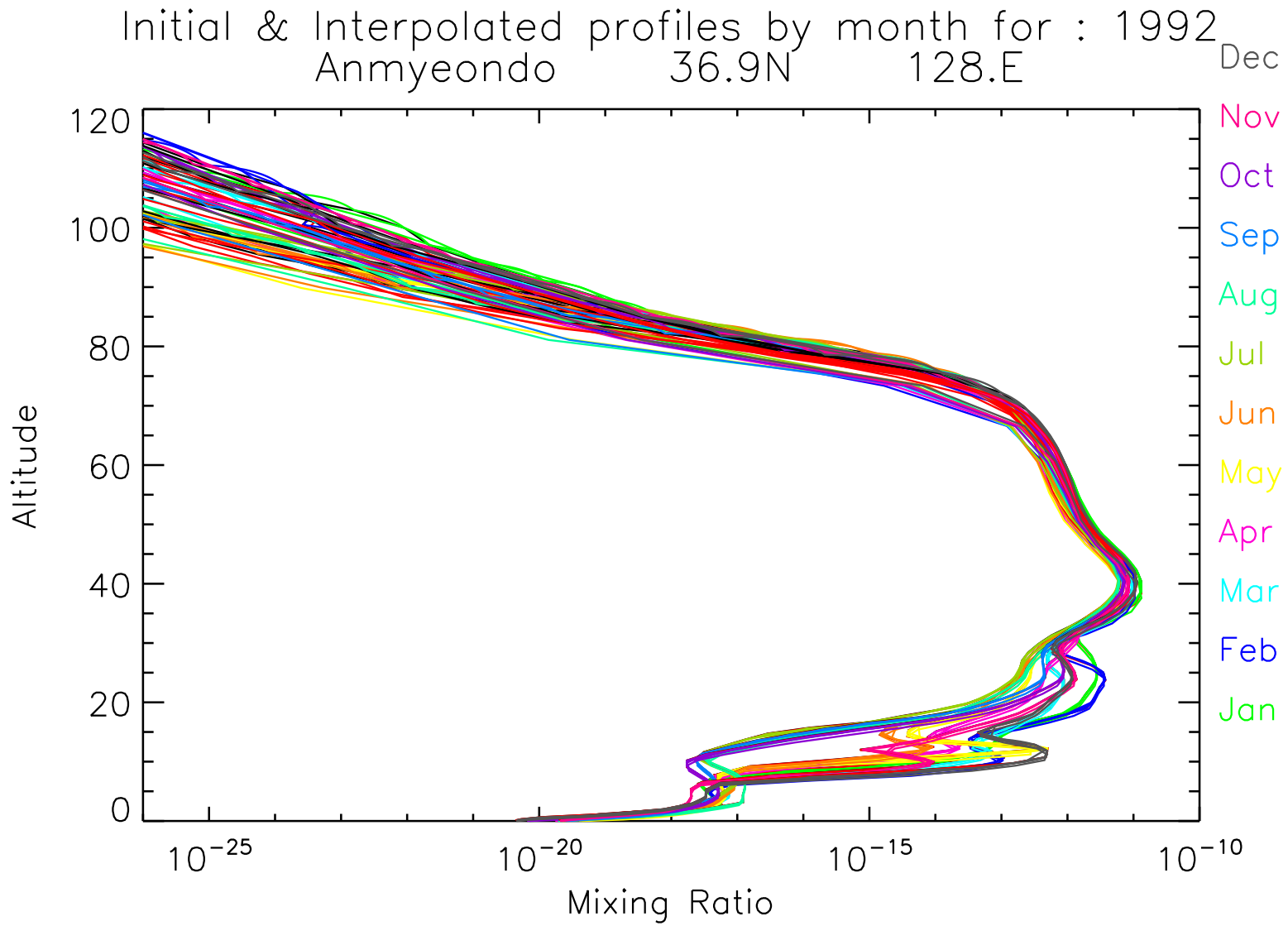
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Anmyeondo 36.9N 128.E
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Altitude
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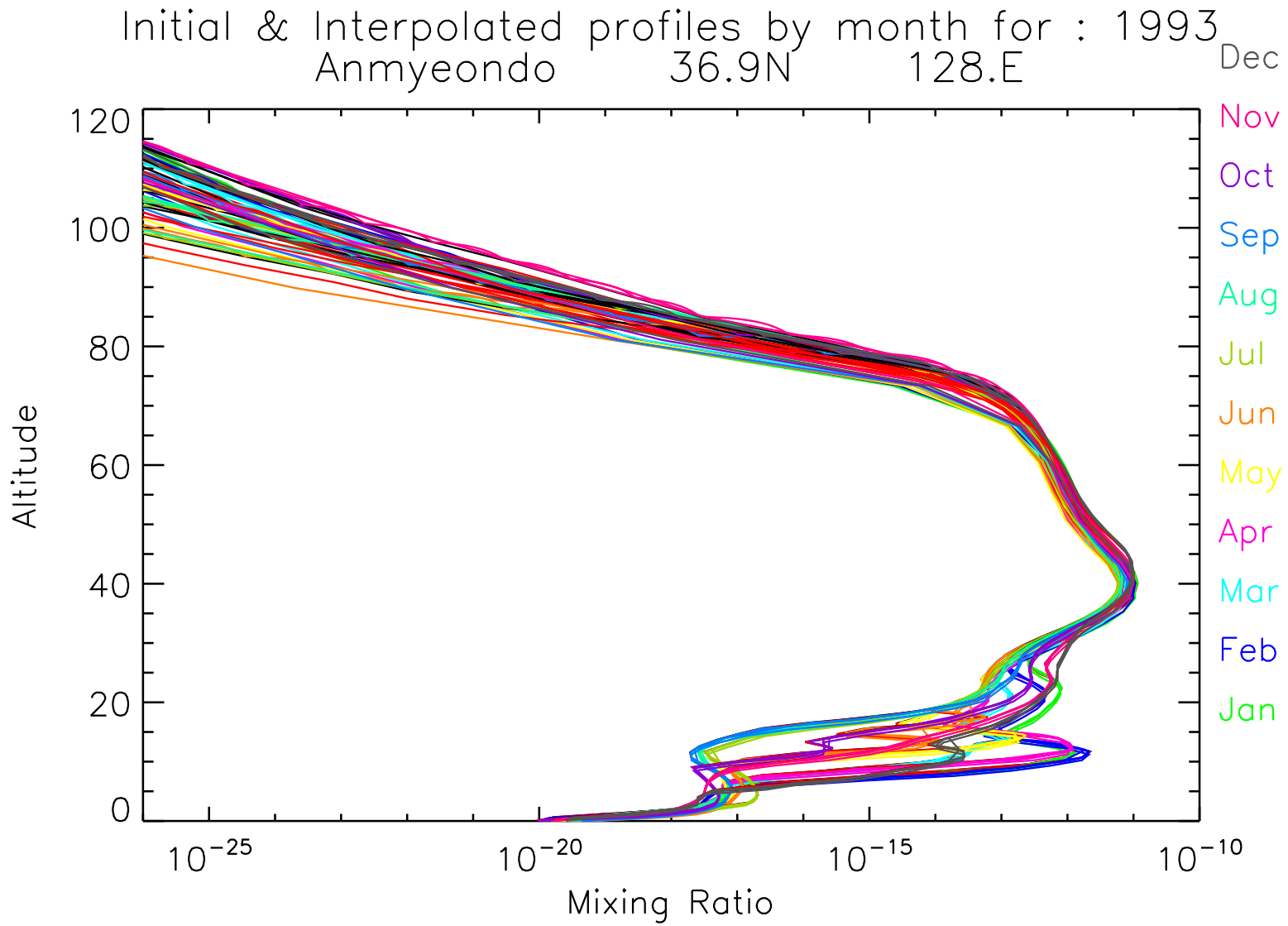
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Anmyeondo 36.9N 128.E
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Altitude
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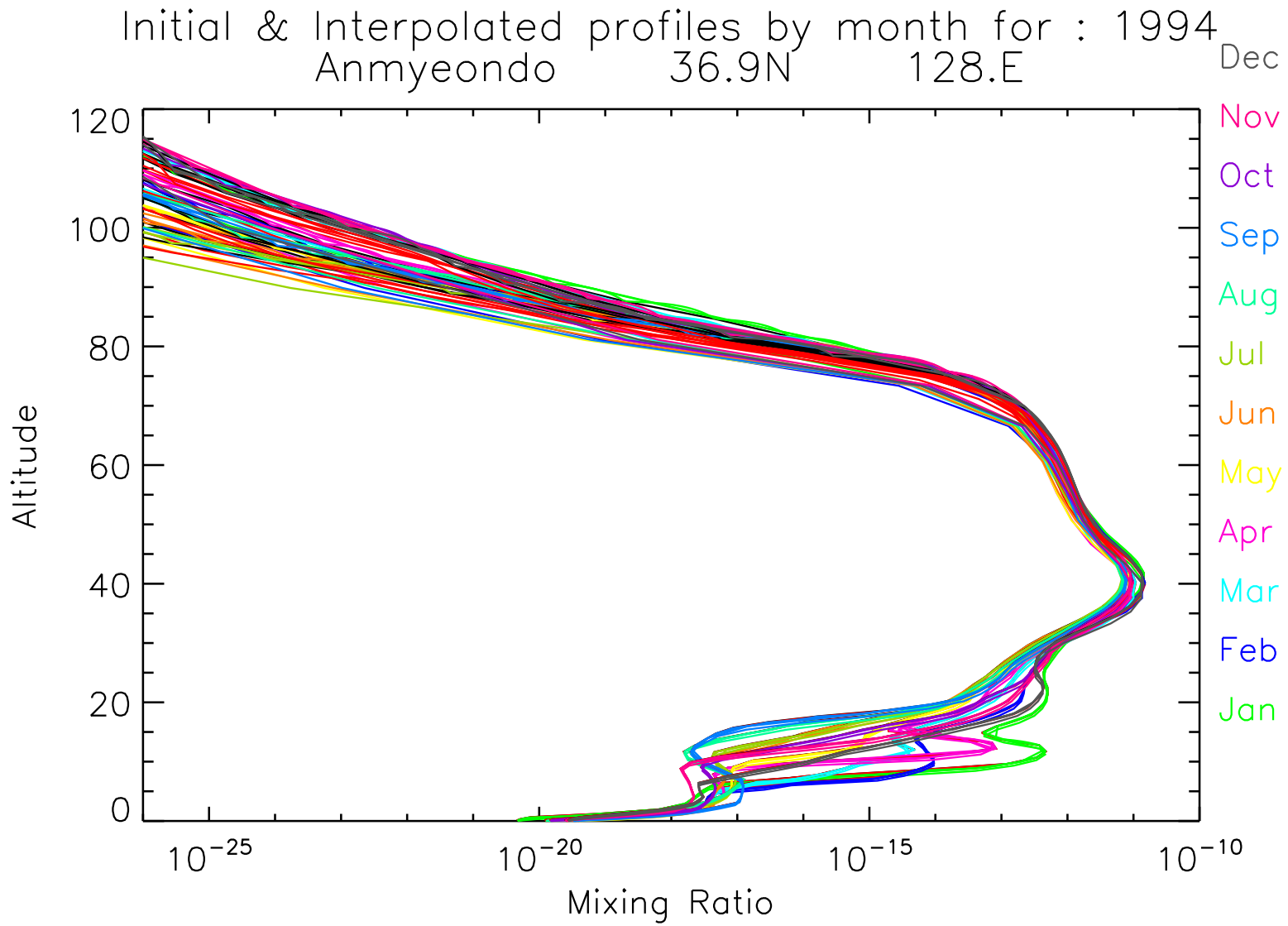
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Anmyeondo 36.9N 128.E
Dec
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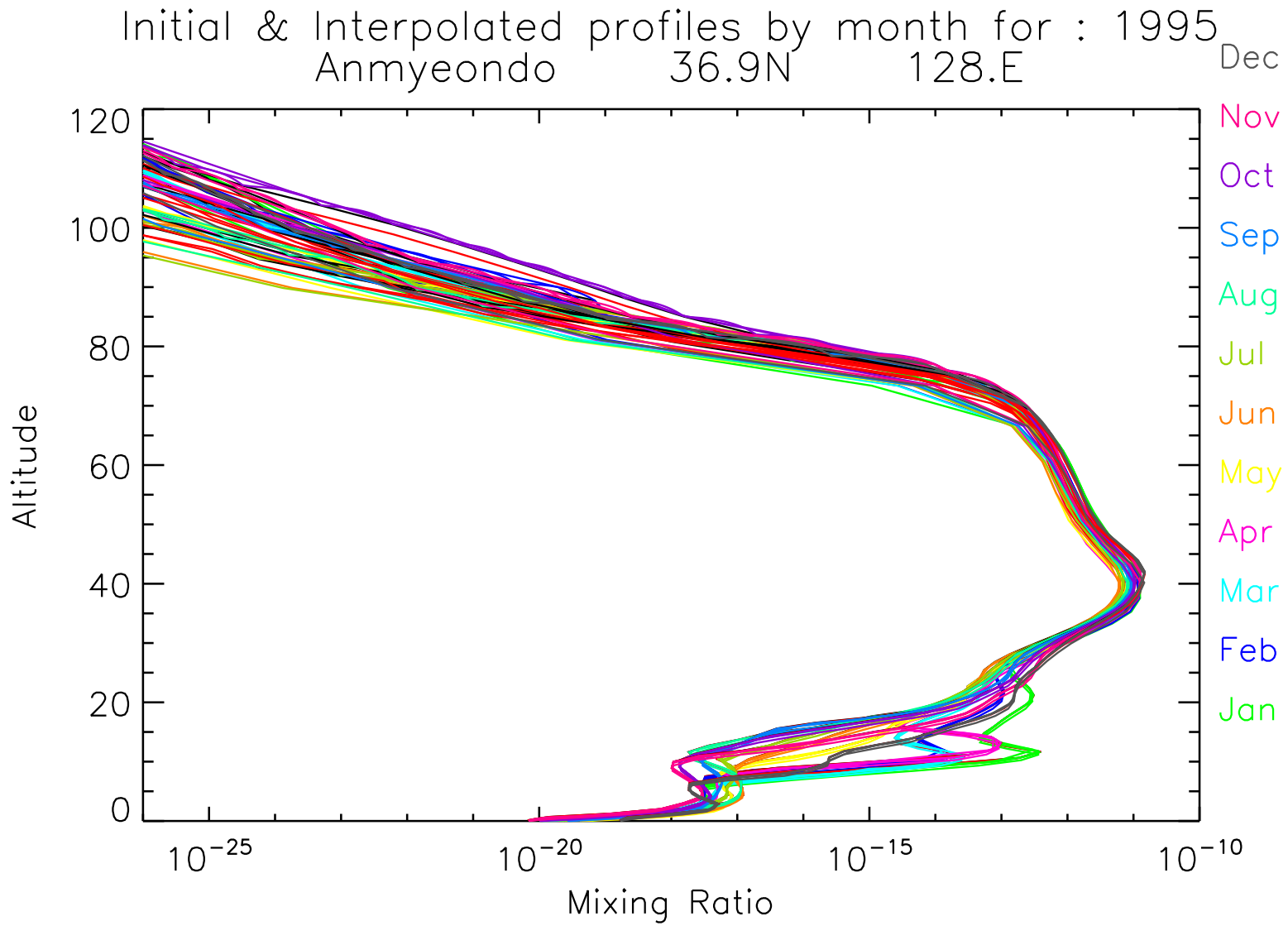
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Anmyeondo 36.9N 128.E
Dec
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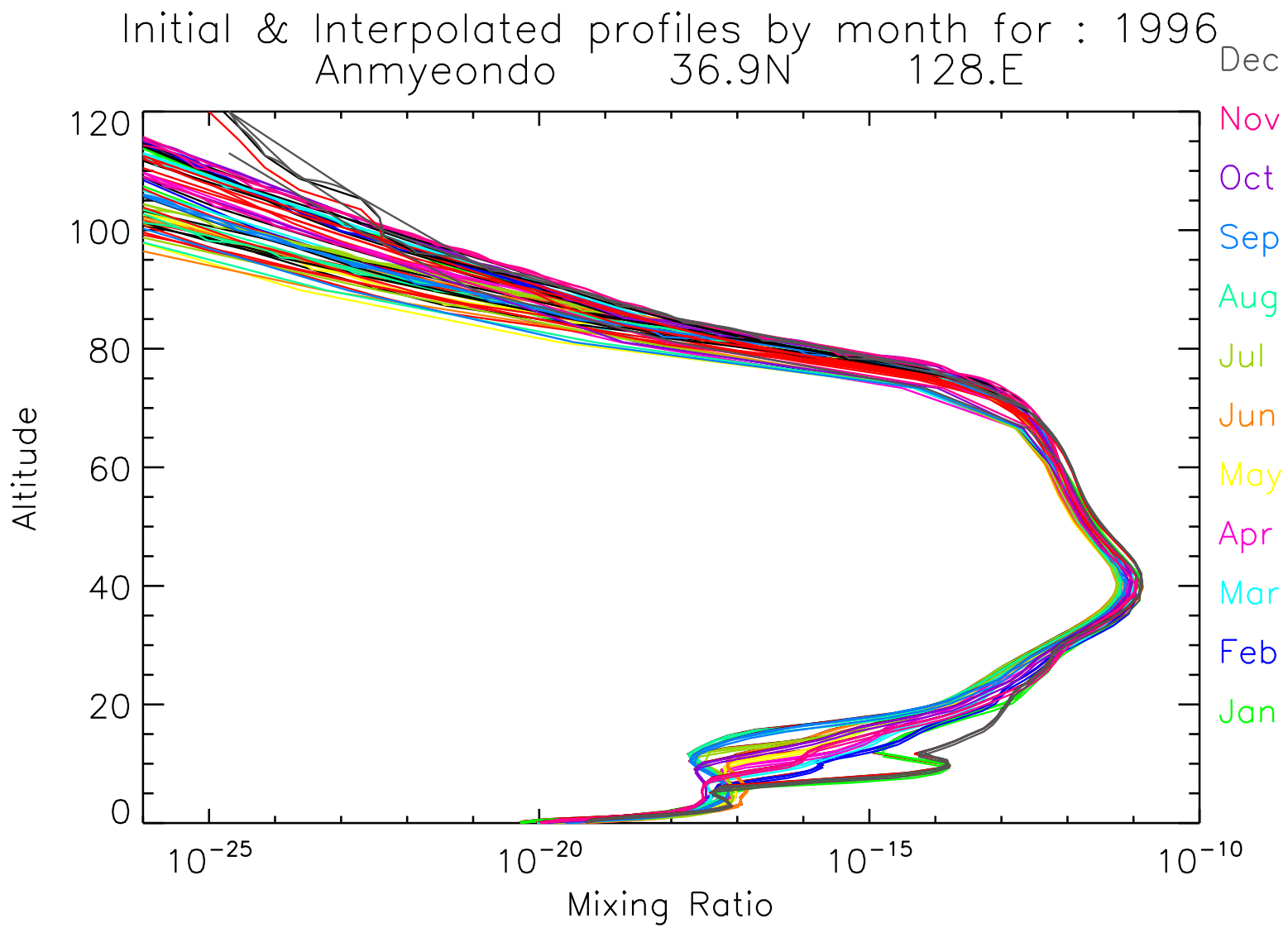
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Anmyeondo 36.9N 128.E
Dec
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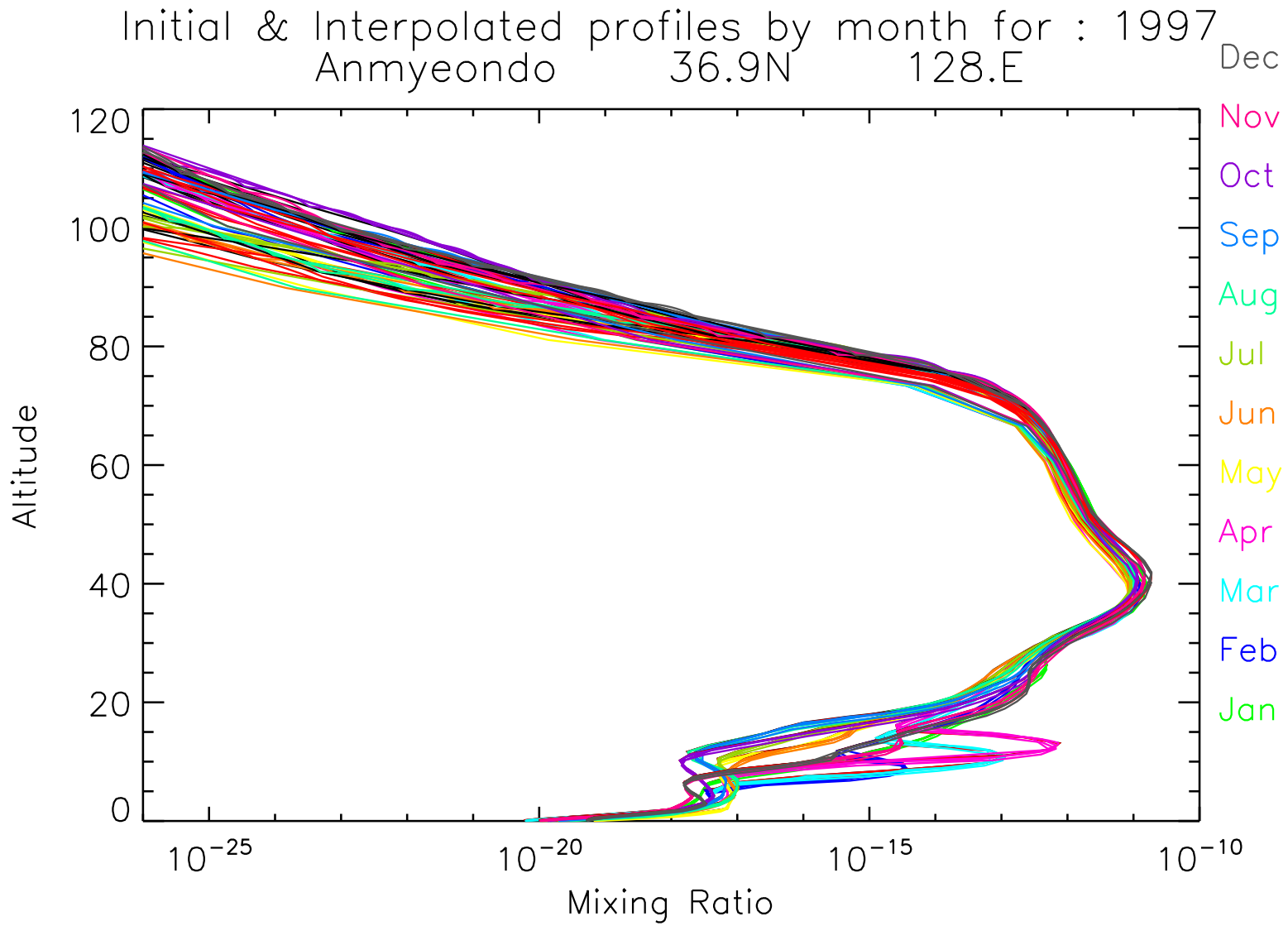
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Anmyeondo 36.9N 128.E
Dec
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Altitude
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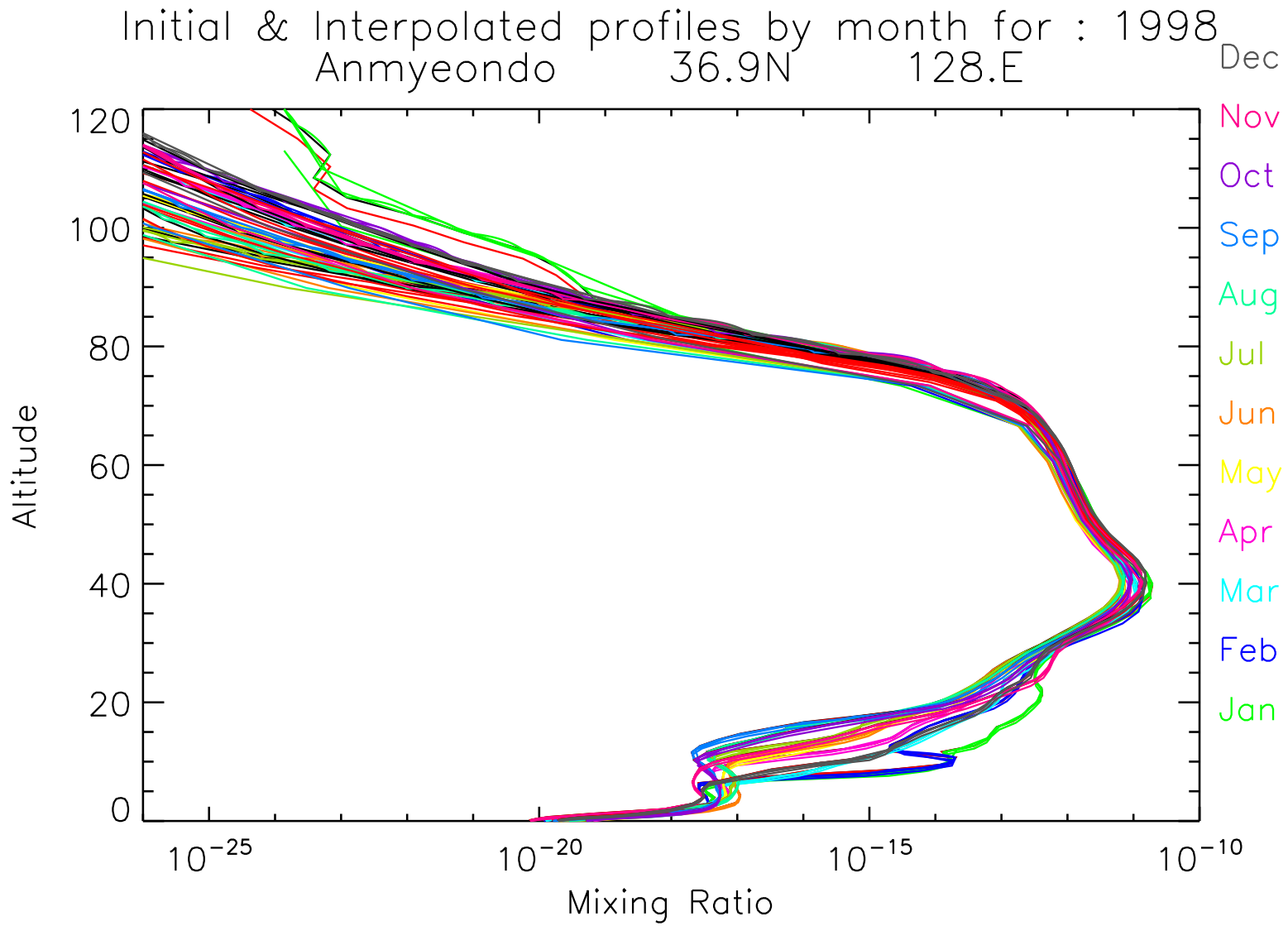
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Anmyeondo 36.9N 128.E
Dec
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Altitude
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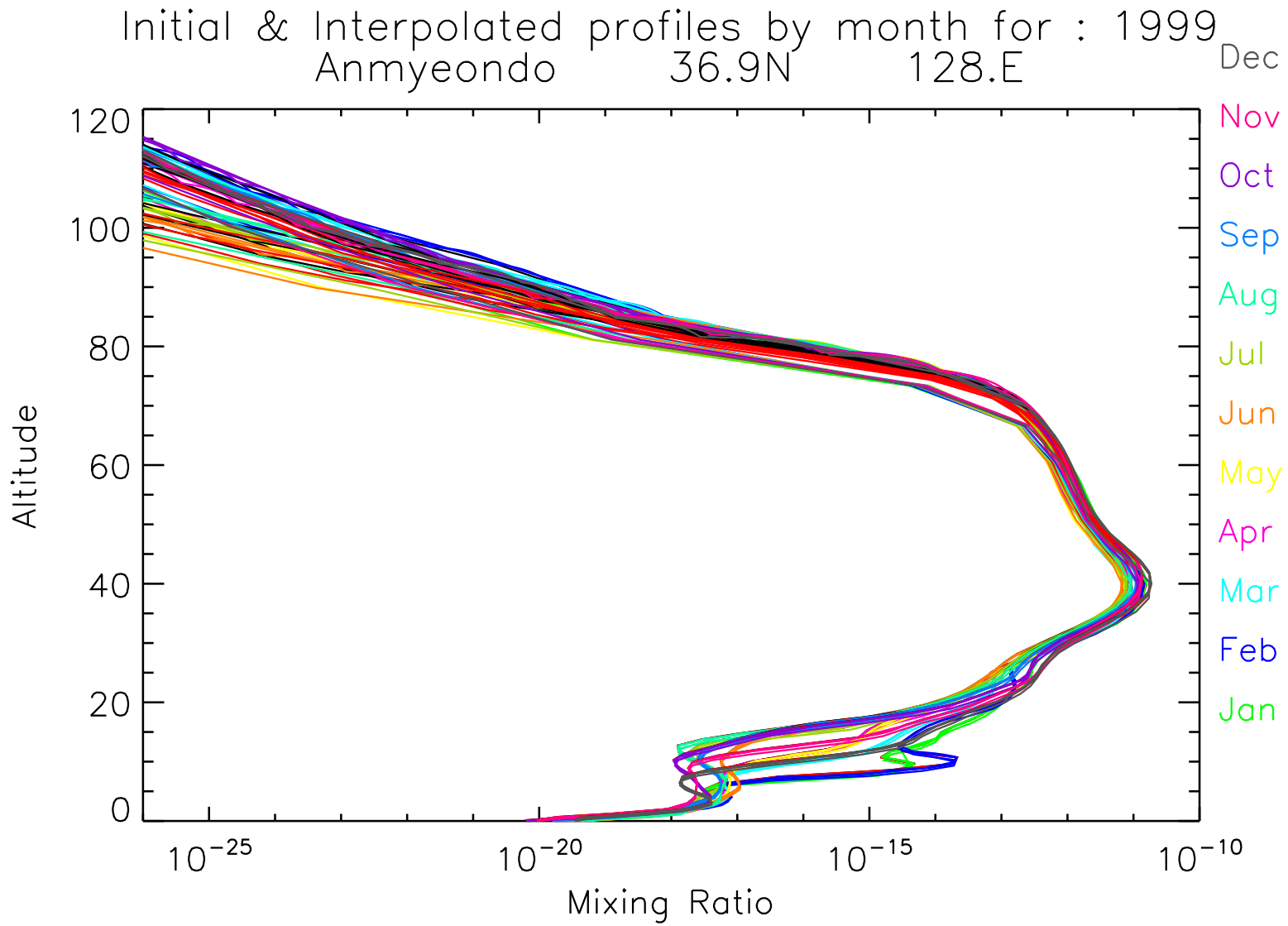
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Anmyeondo 36.9N 128.E
Dec
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Altitude
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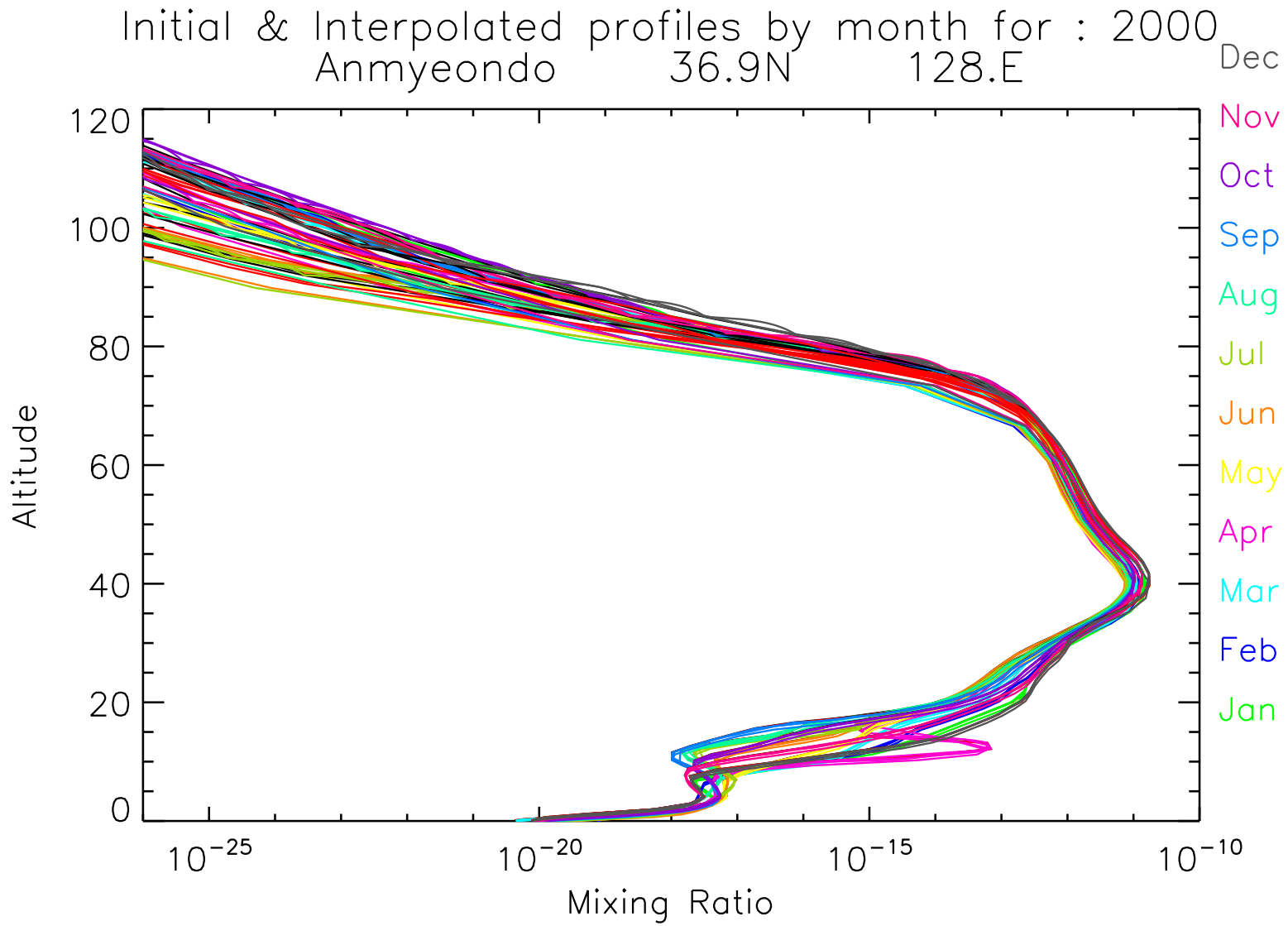
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Anmyeondo 36.9N 128.E
Dec
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Altitude
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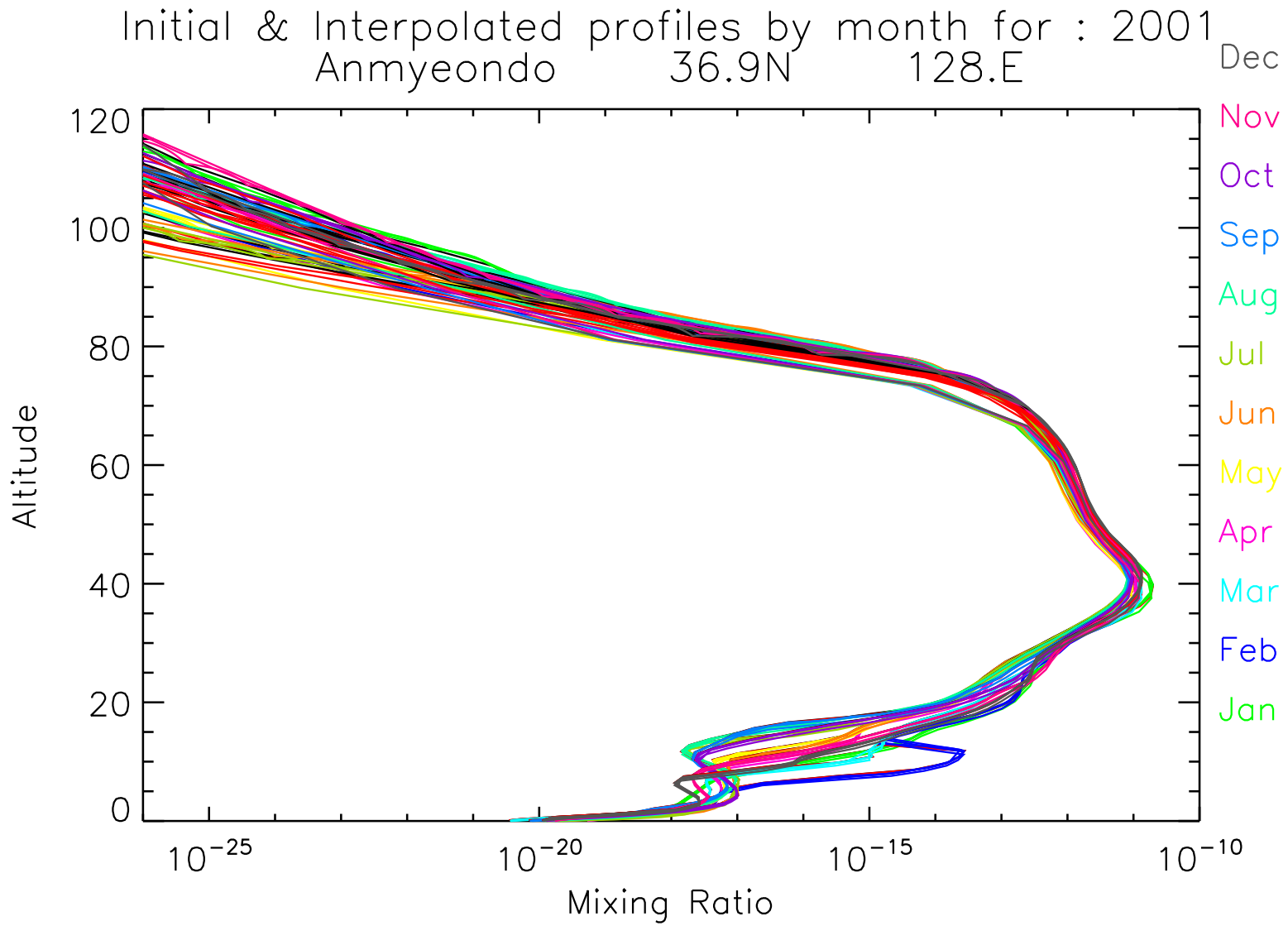
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Anmyeondo 36.9N 128.E
Dec
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Altitude
10^{-25}
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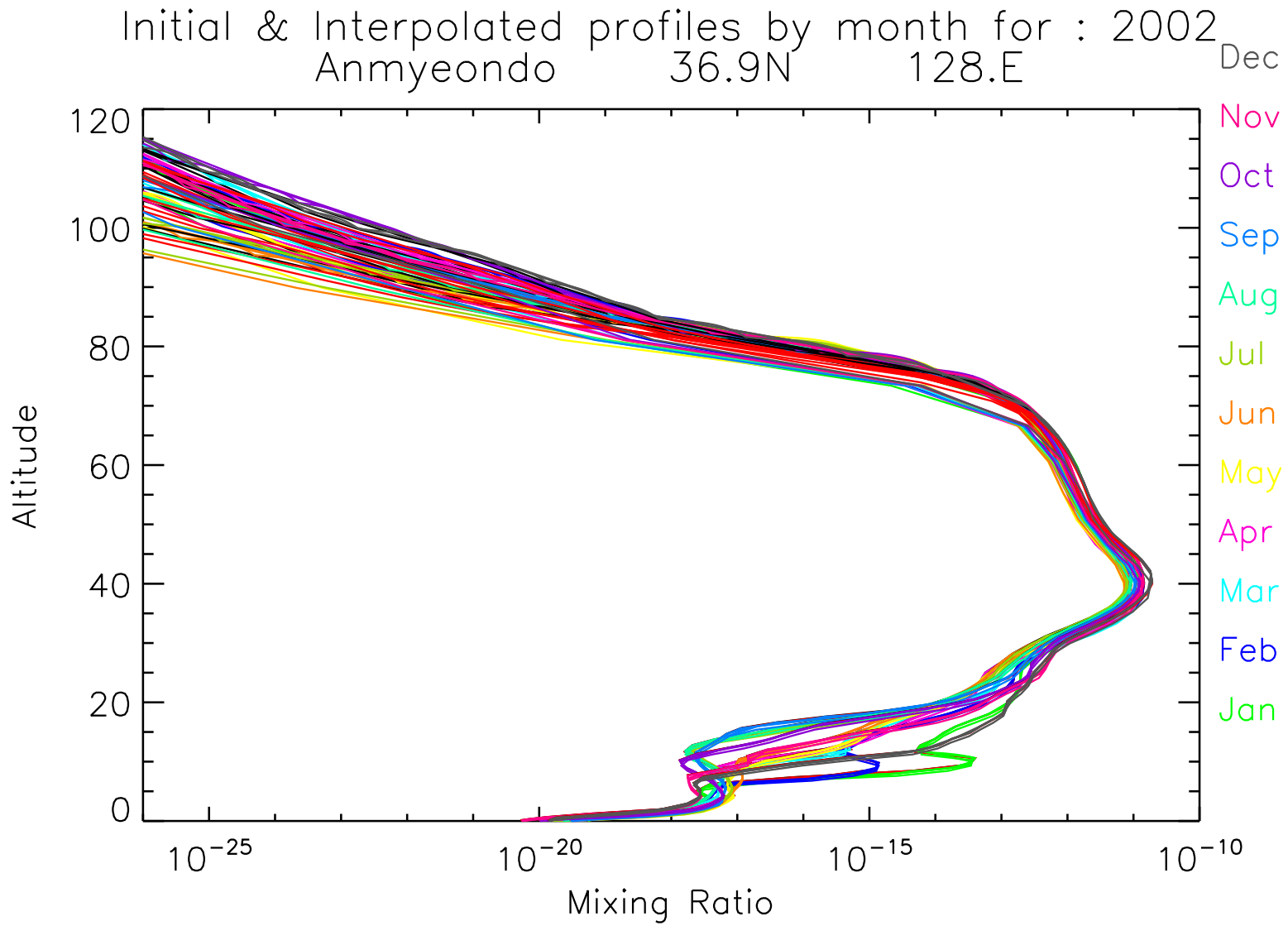
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Anmyeondo 36.9N 128.E
Dec
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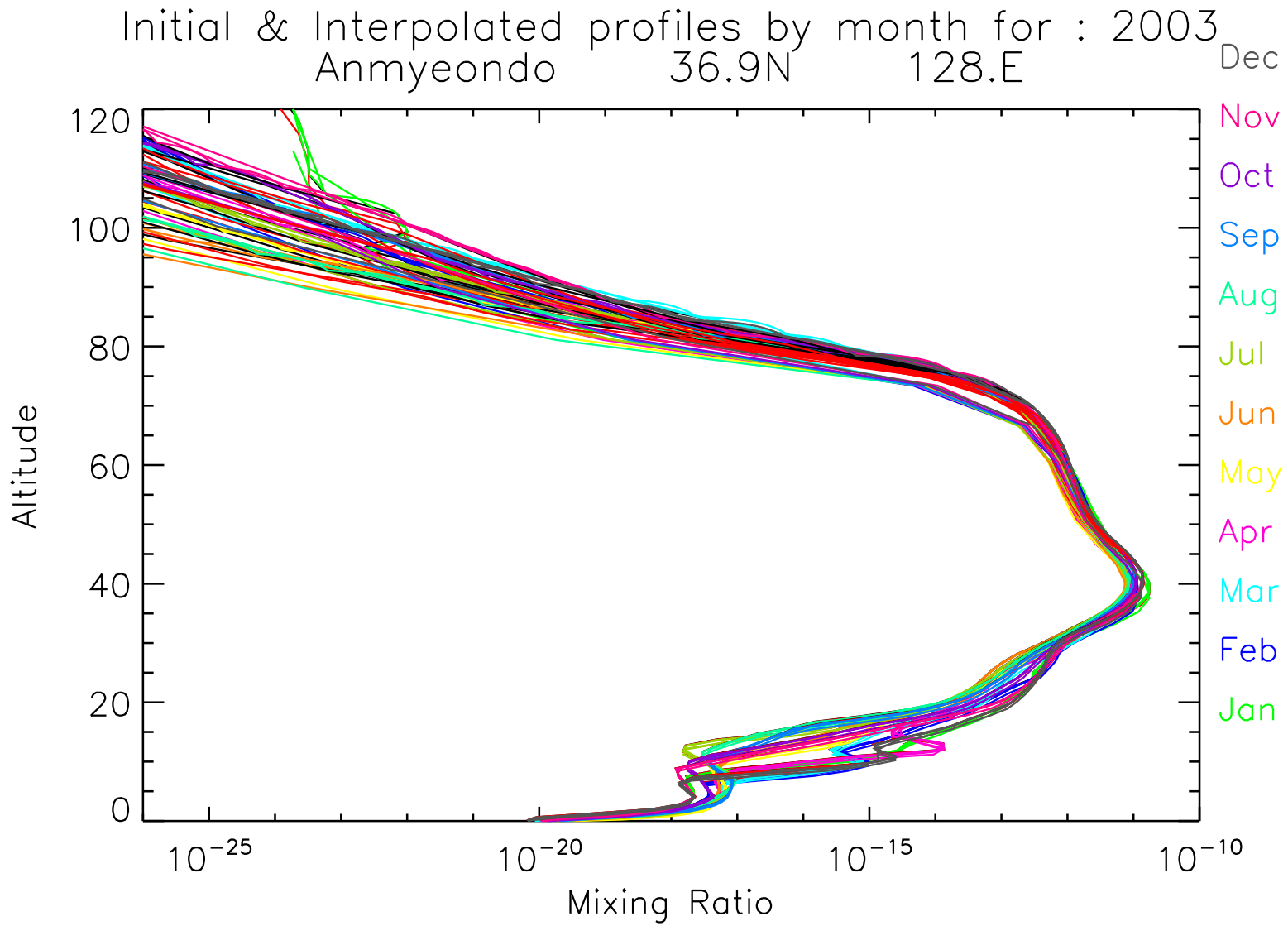
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Anmyeondo 36.9N 128.E
Dec
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Altitude
10^{-25}
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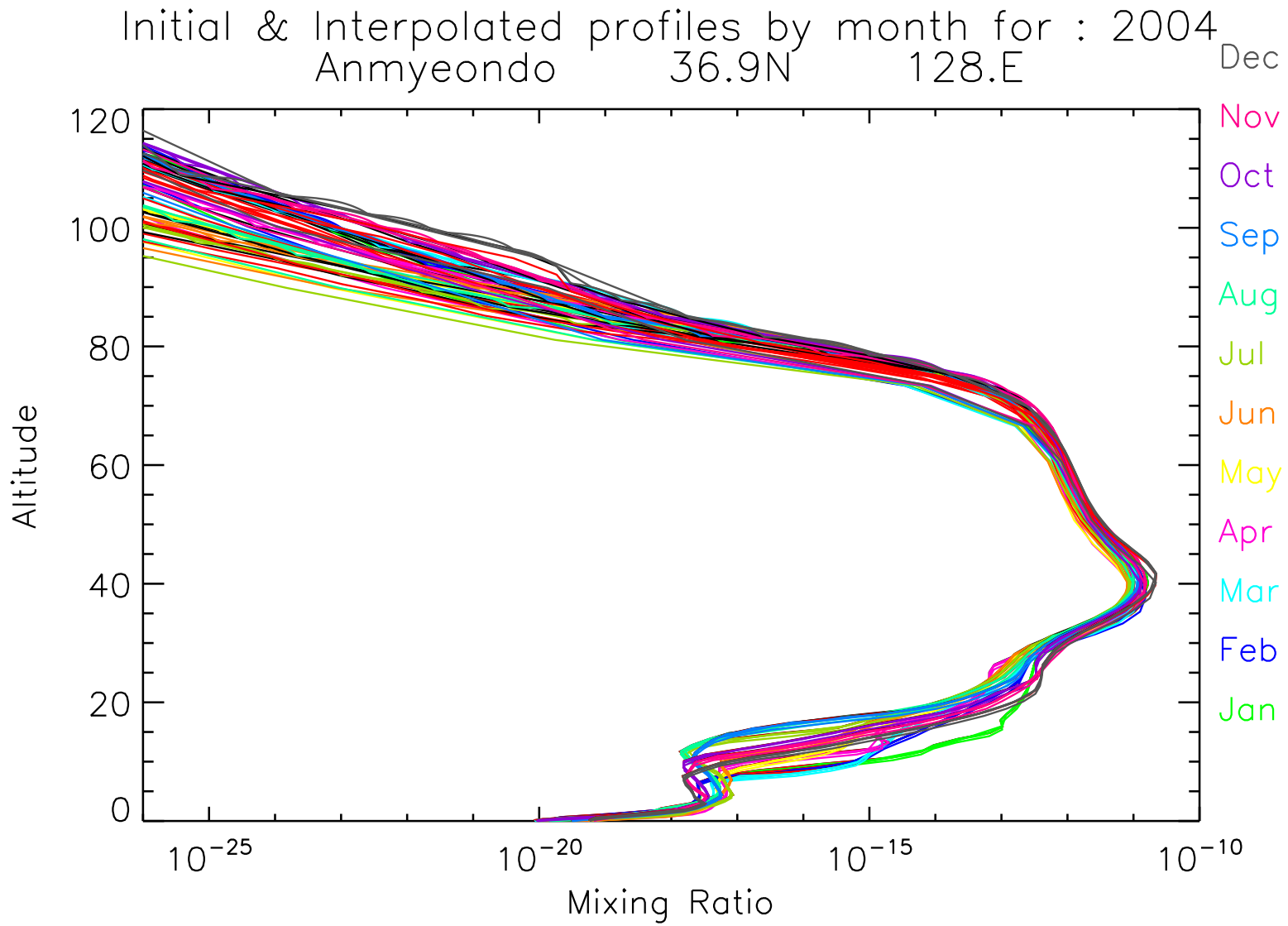
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Anmyeondo 36.9N 128.E
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120
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Altitude
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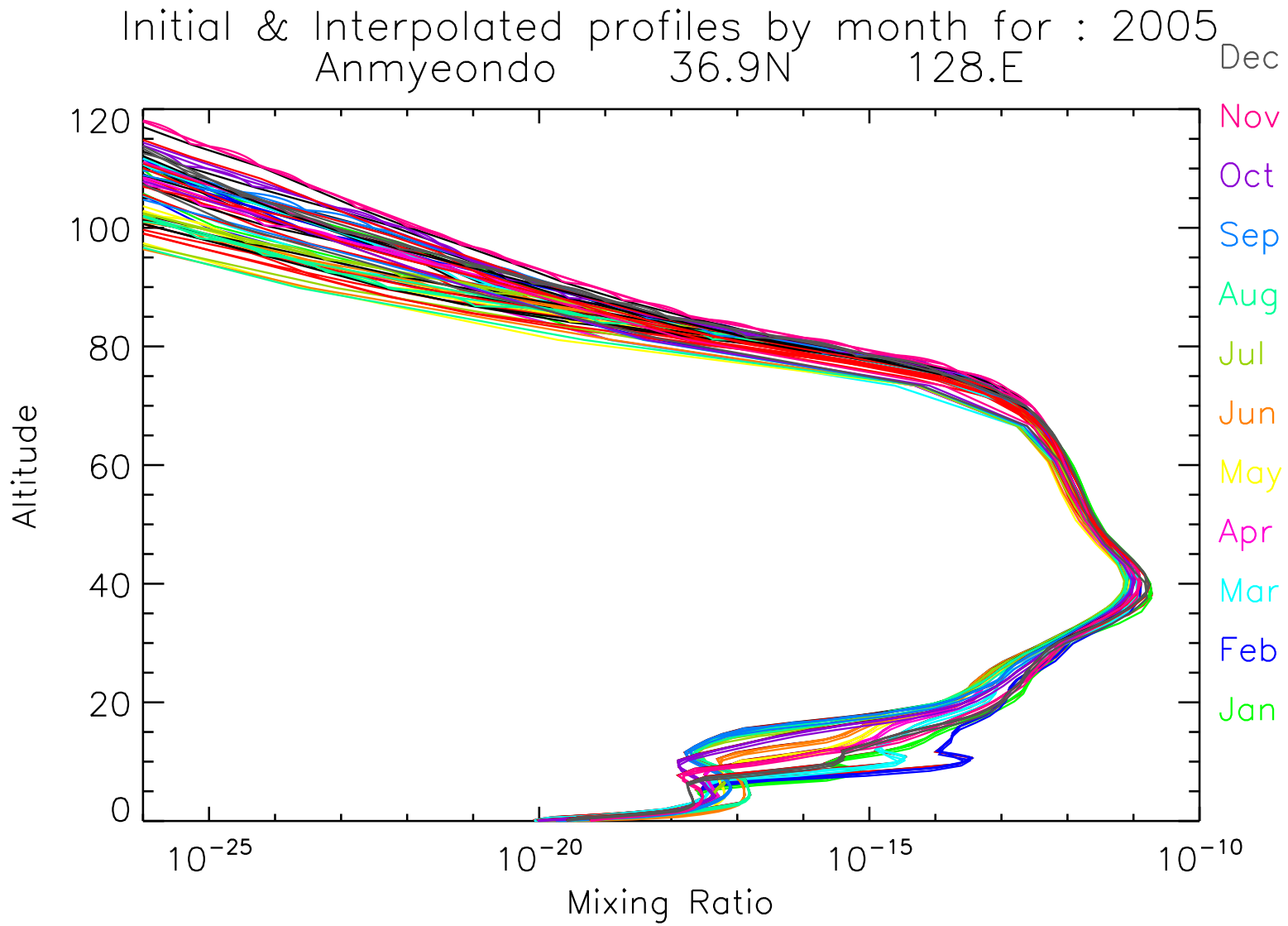
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Anmyeondo 36.9N 128.E
Dec
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Altitude
10^{-25}
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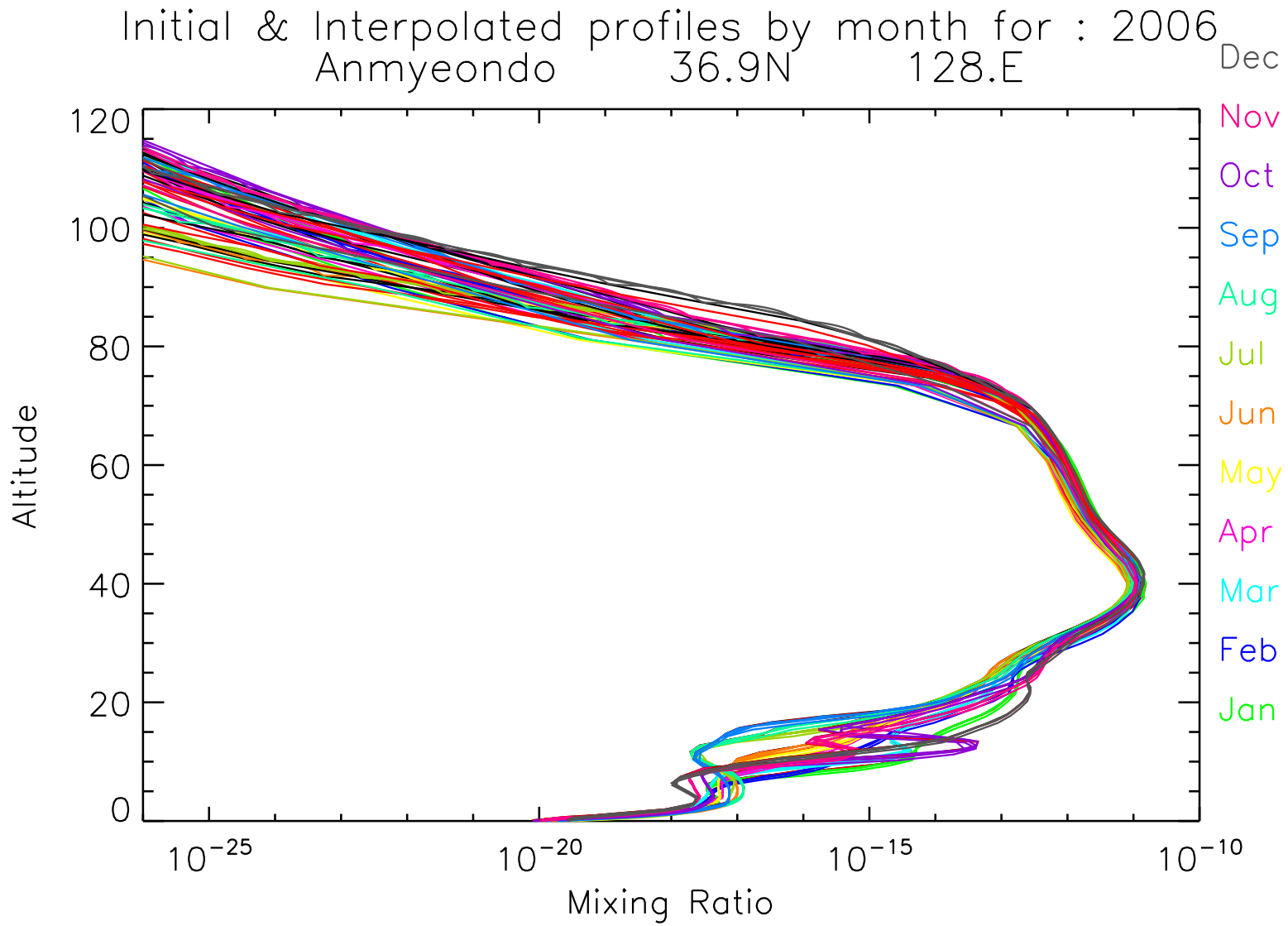
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Anmyeondo 36.9N 128.E
Dec
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Altitude
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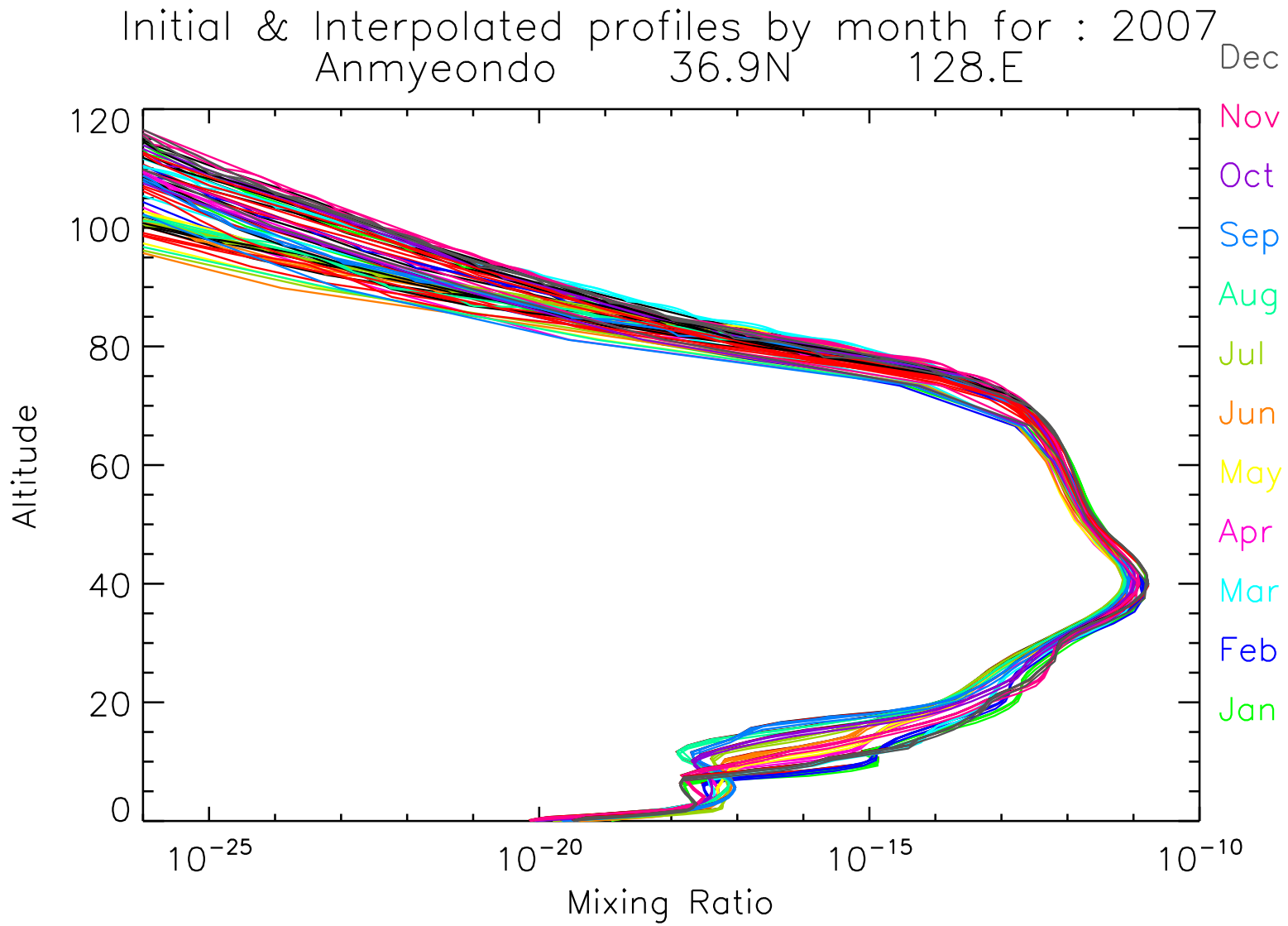
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Anmyeondo 36.9N 128.E
Dec
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Altitude
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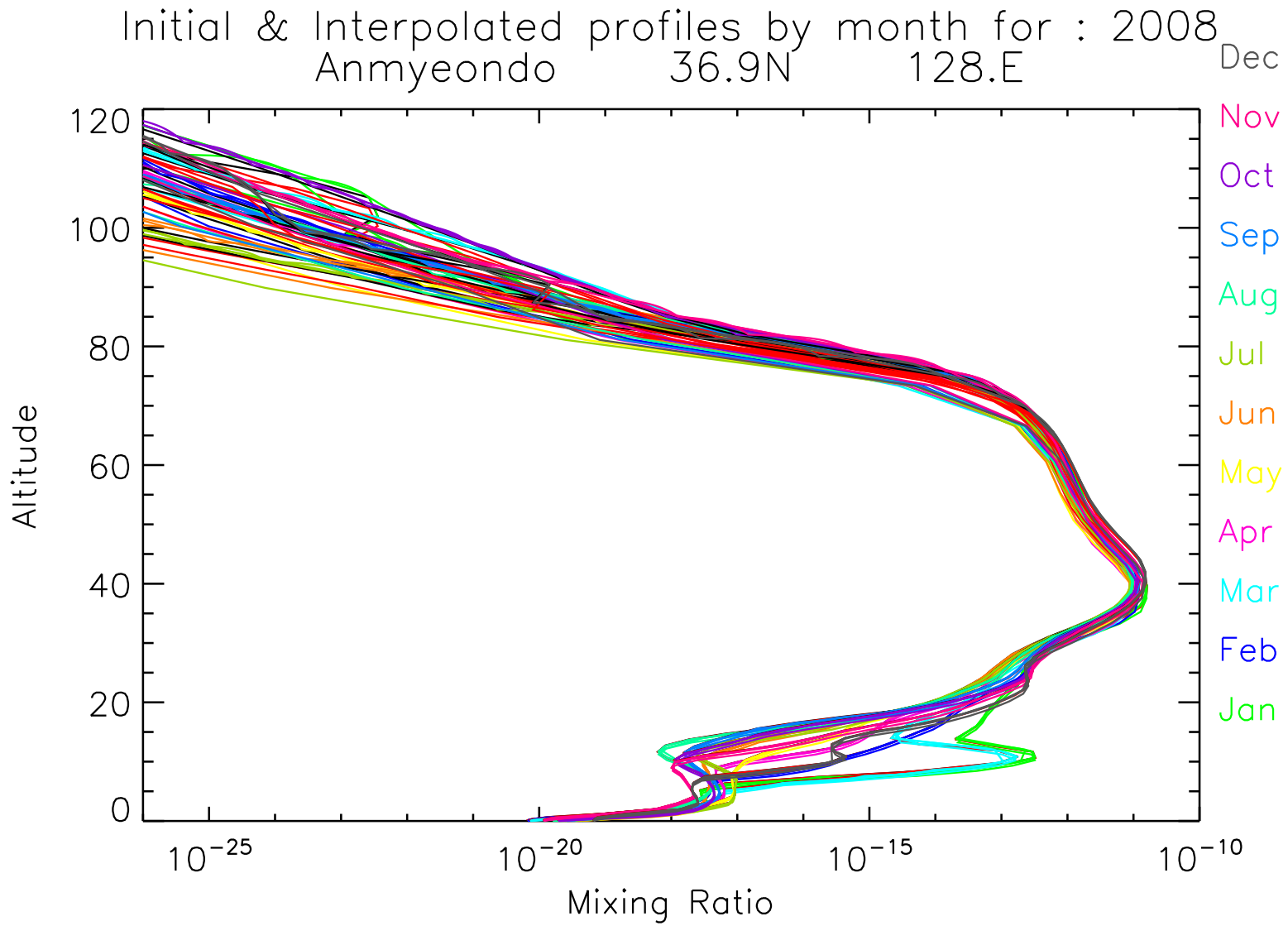
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Anmyeondo 36.9N 128.E
Dec
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Altitude
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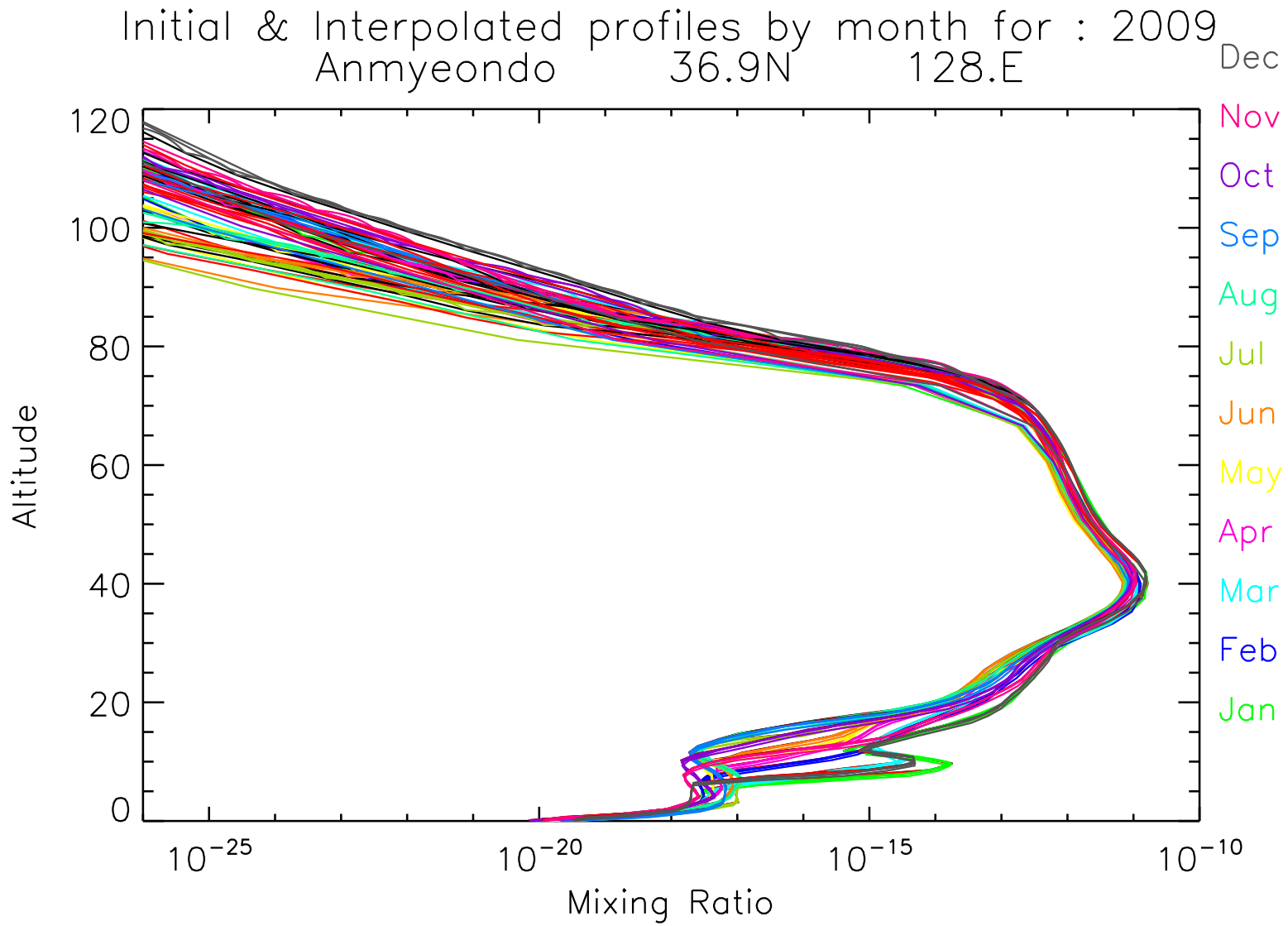
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Anmyeondo 36.9N 128.E
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Altitude
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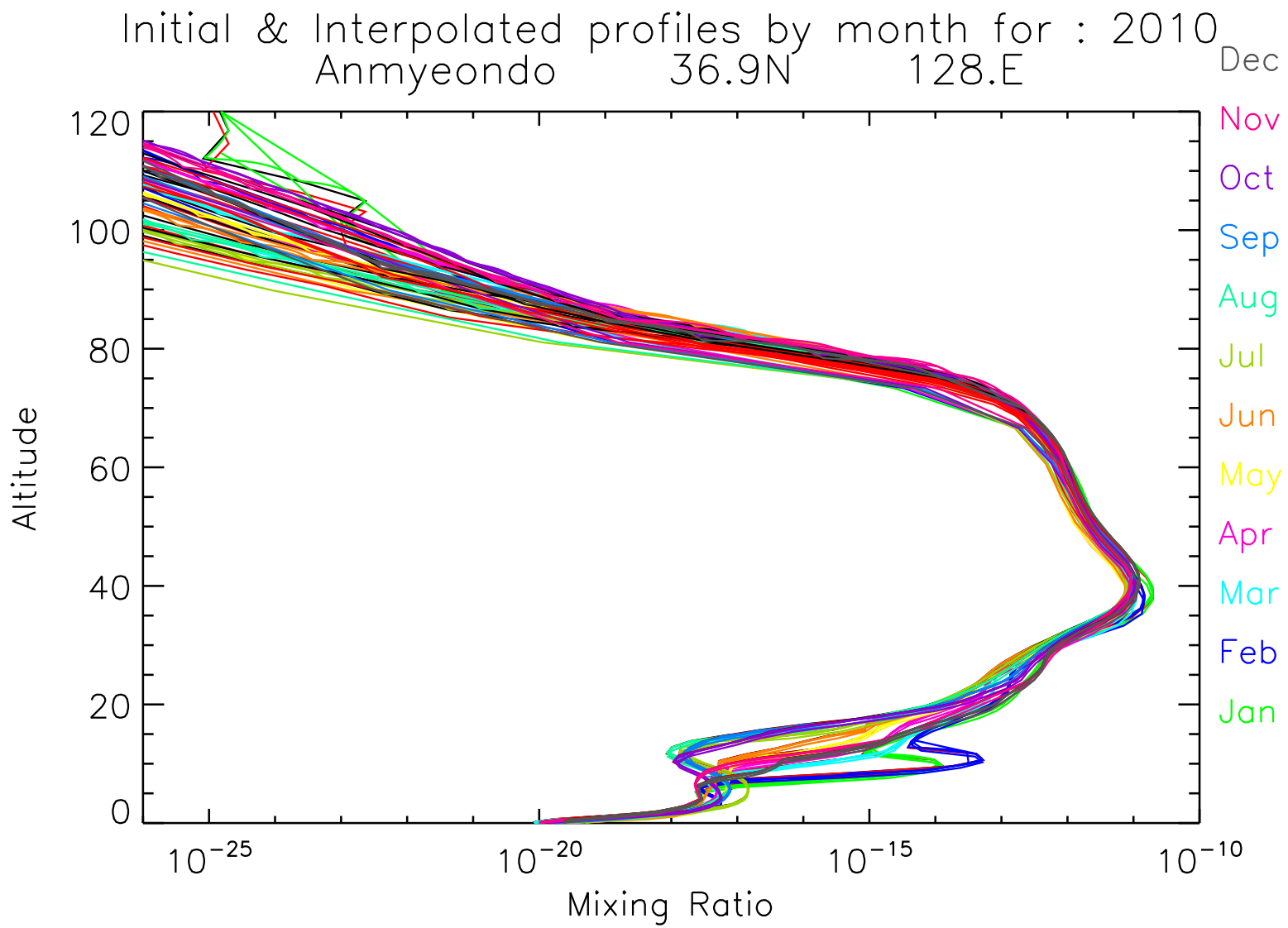
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Anmyeondo 36.9N 128.E
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Altitude
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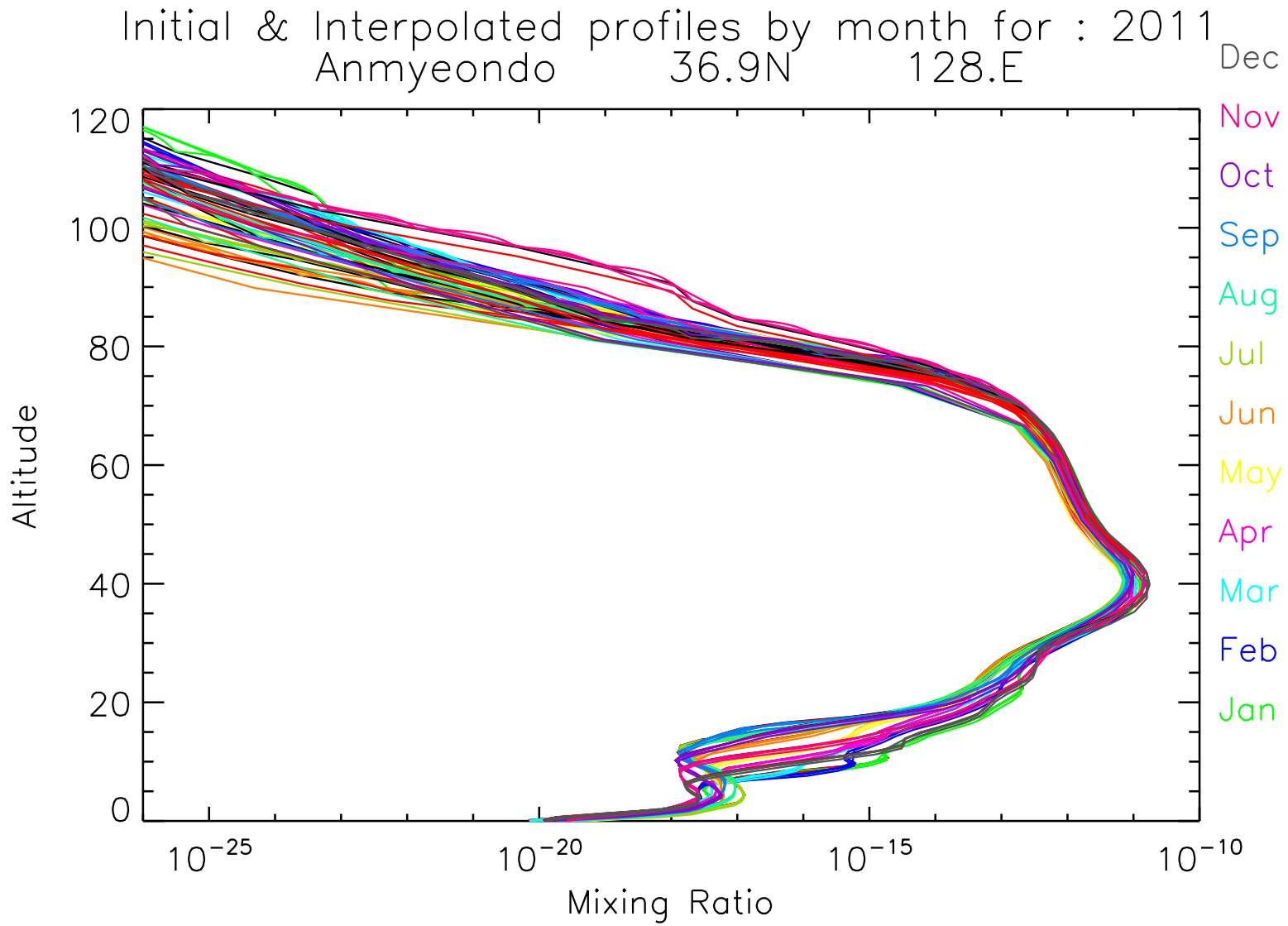
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Anmyeondo 36.9N 128.E
Dec
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Altitude
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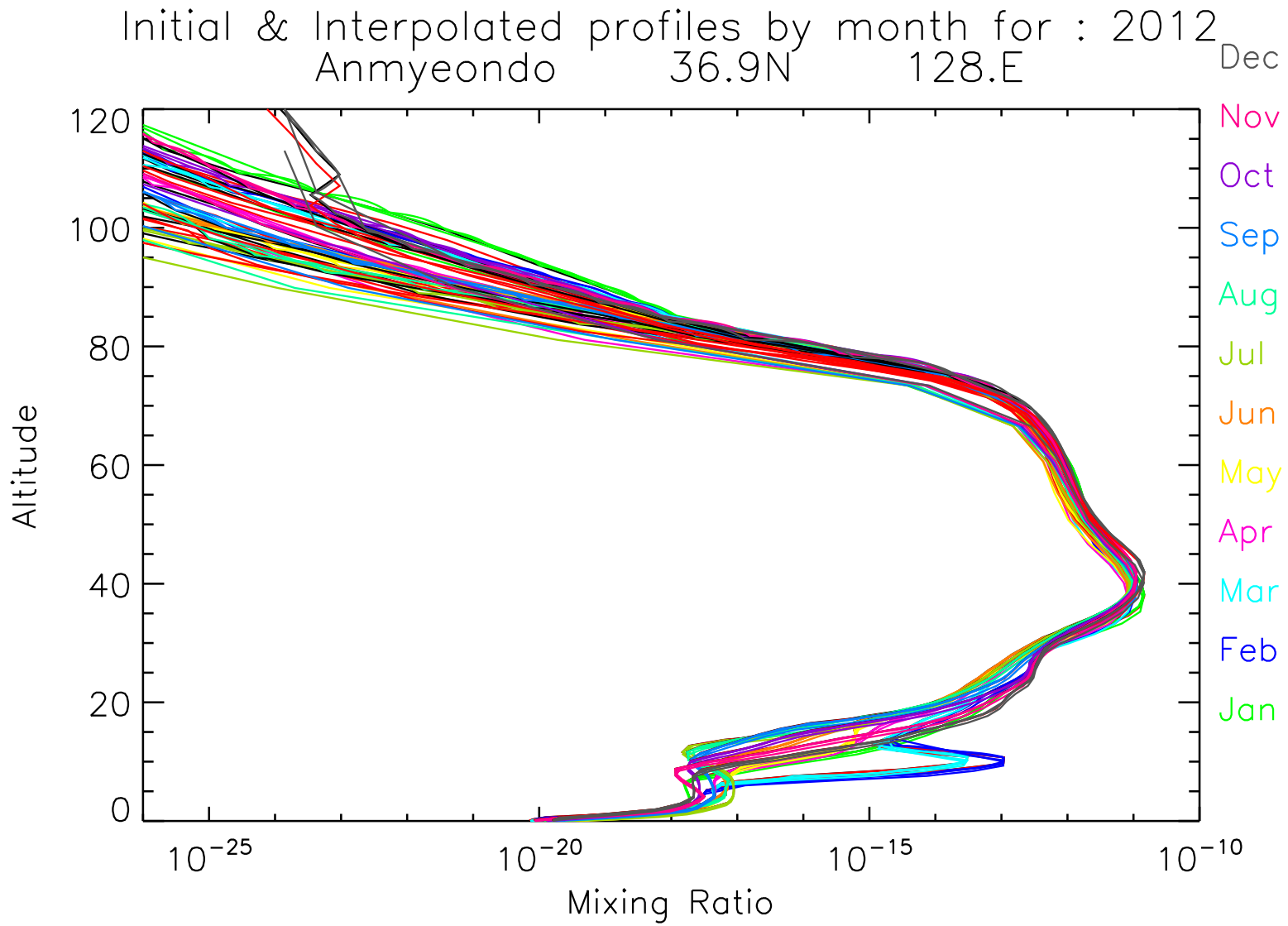
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2012
Anmyeondo 36.9N 128.E
Dec
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120
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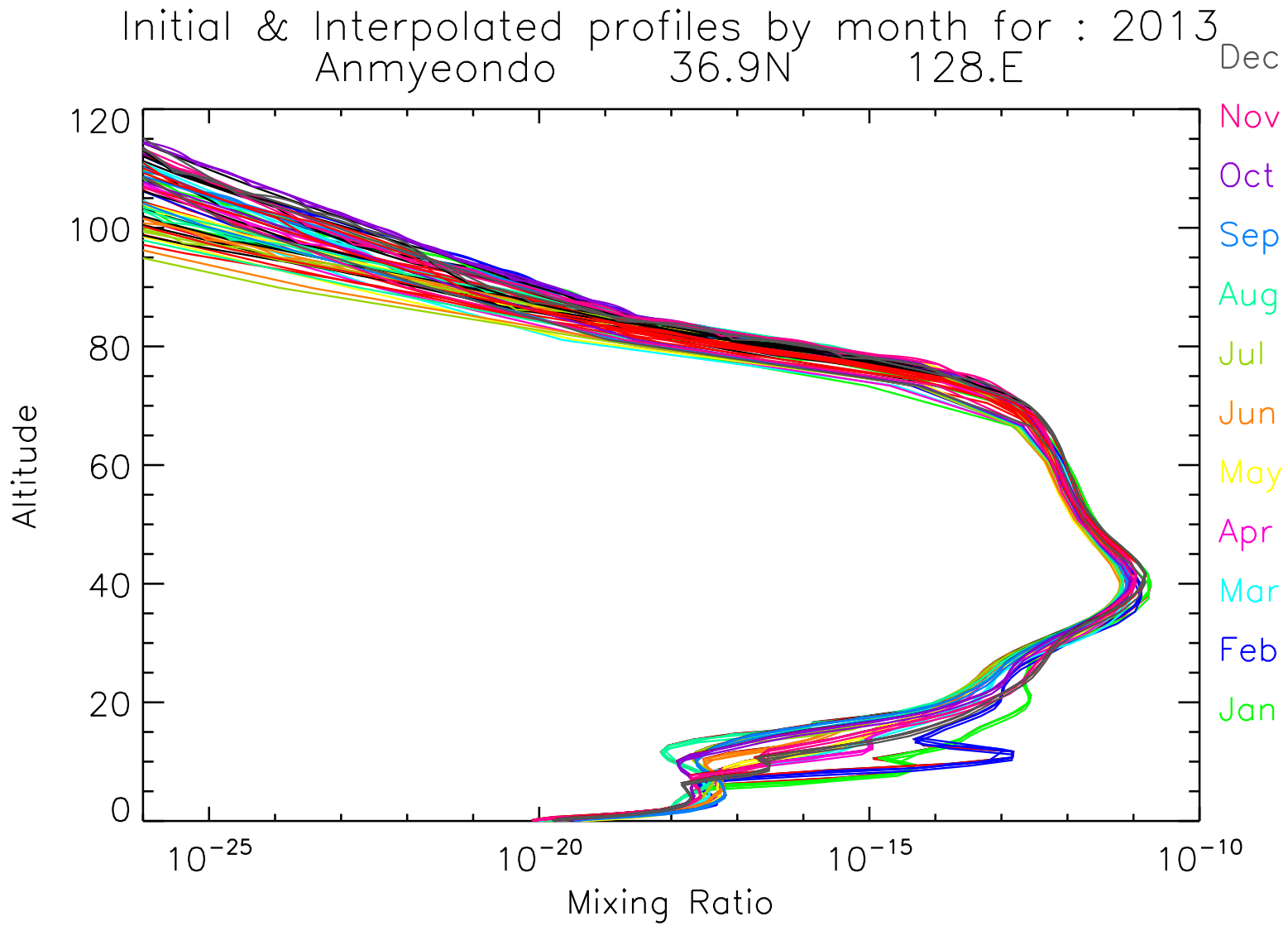
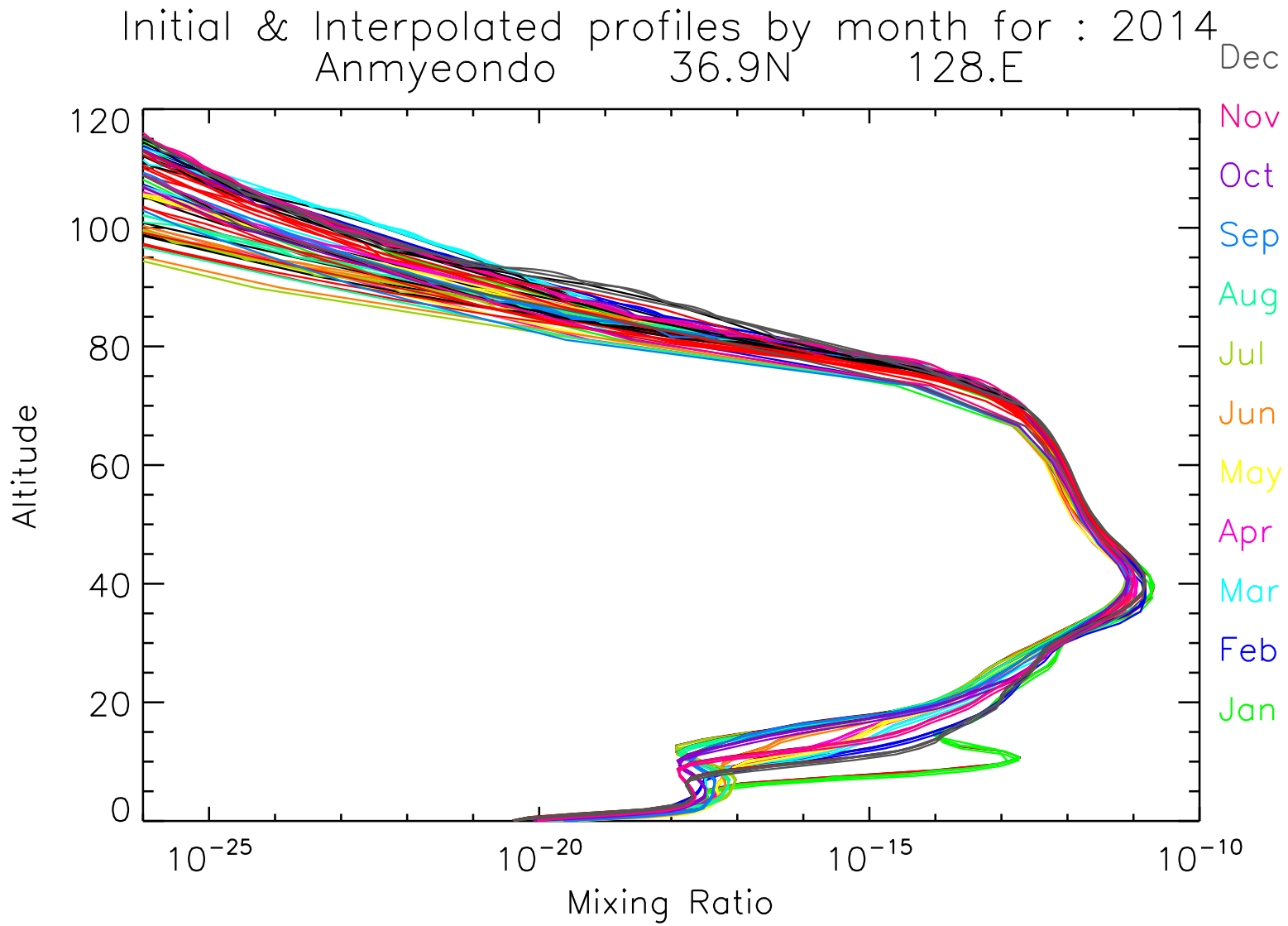
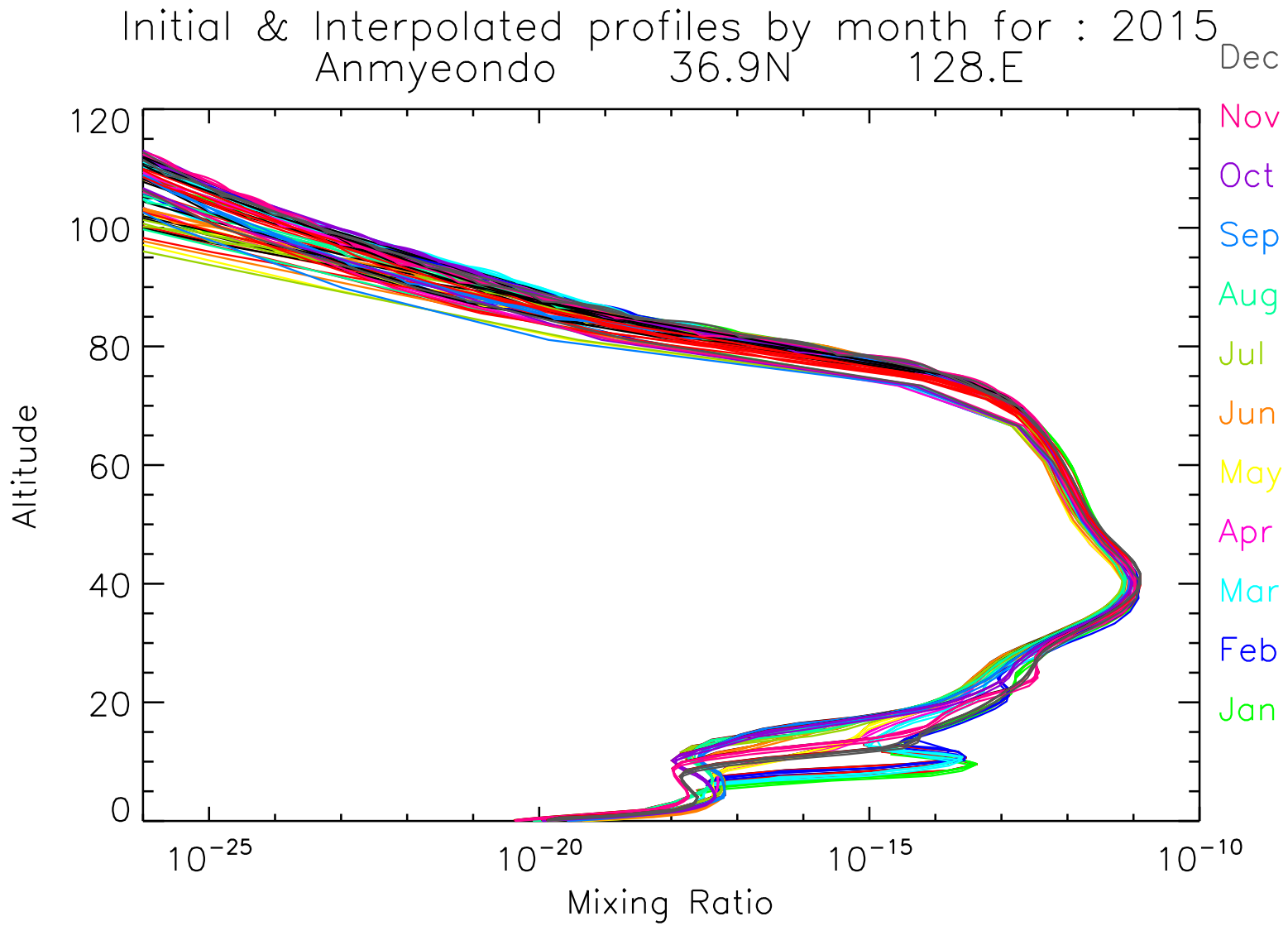
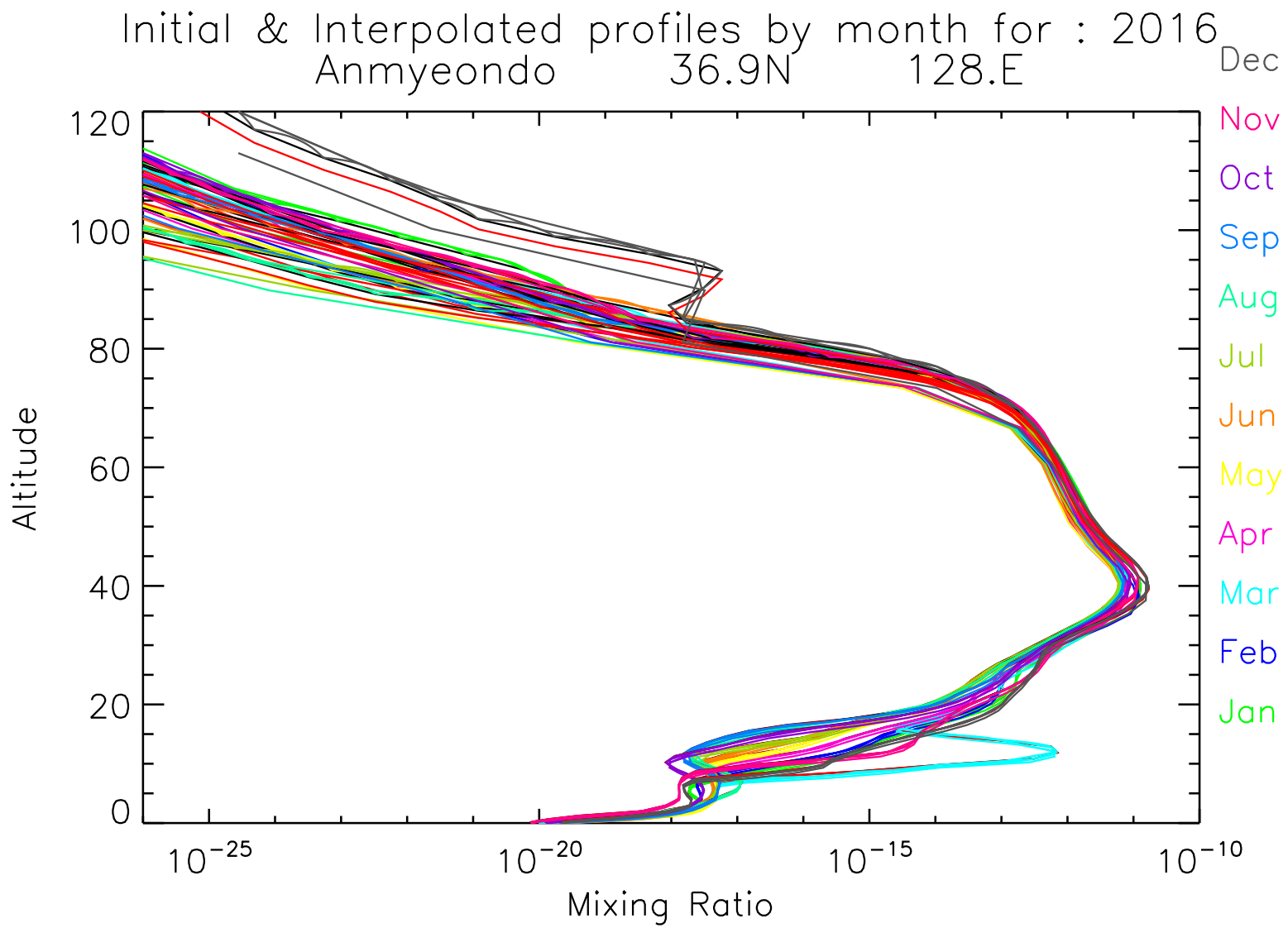
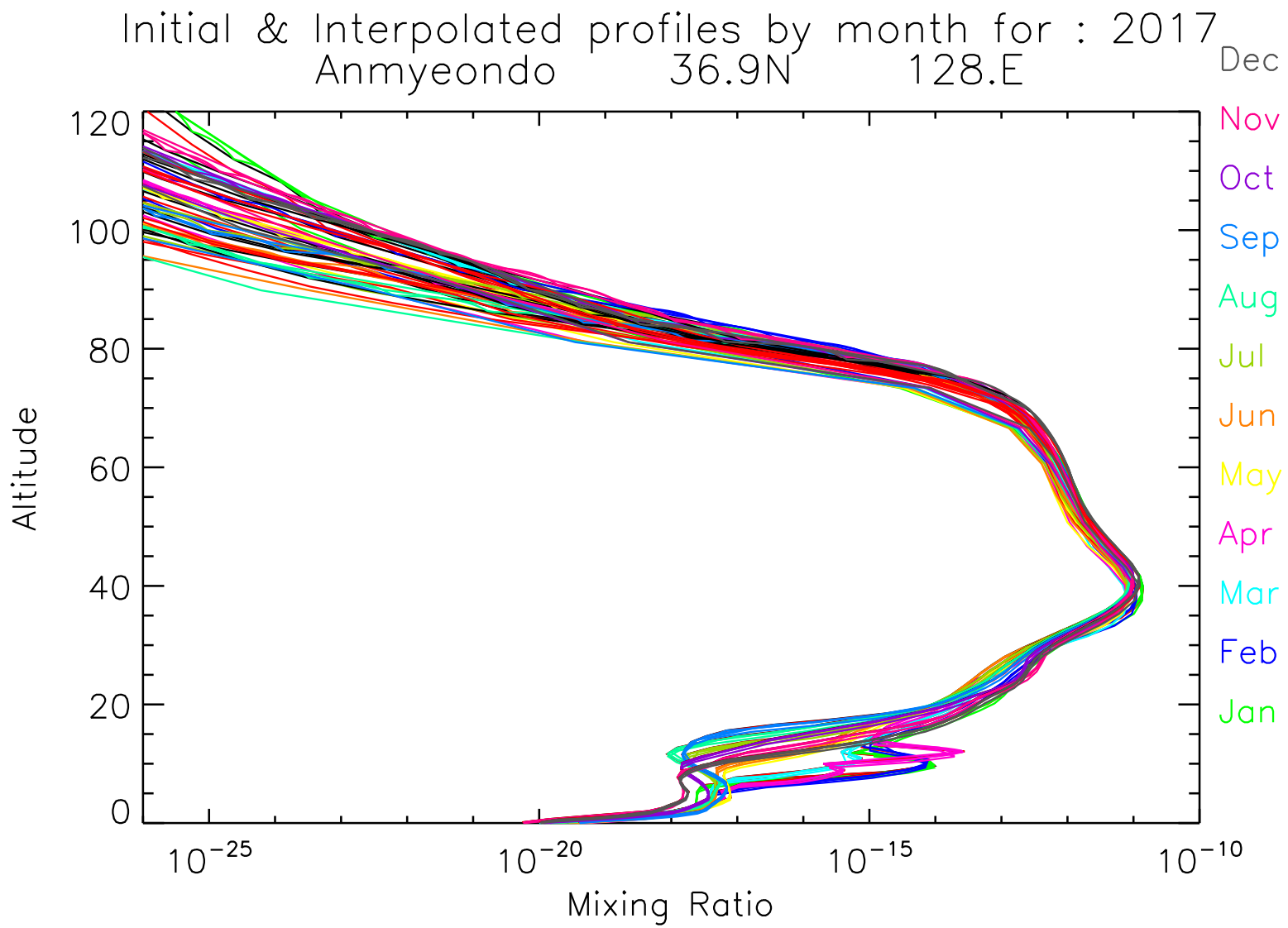
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

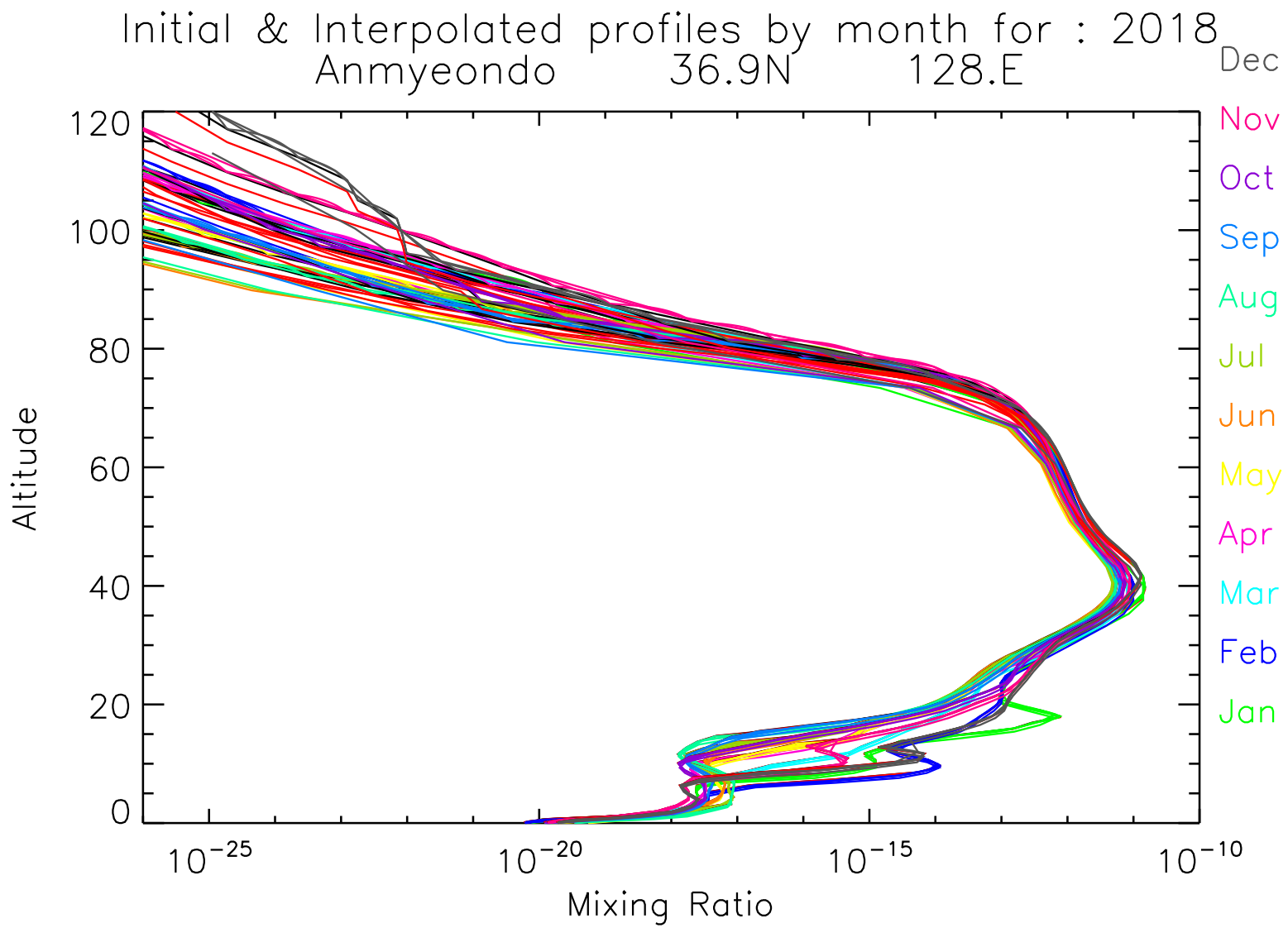

Initial & Interpolated profiles by month for : 2013
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

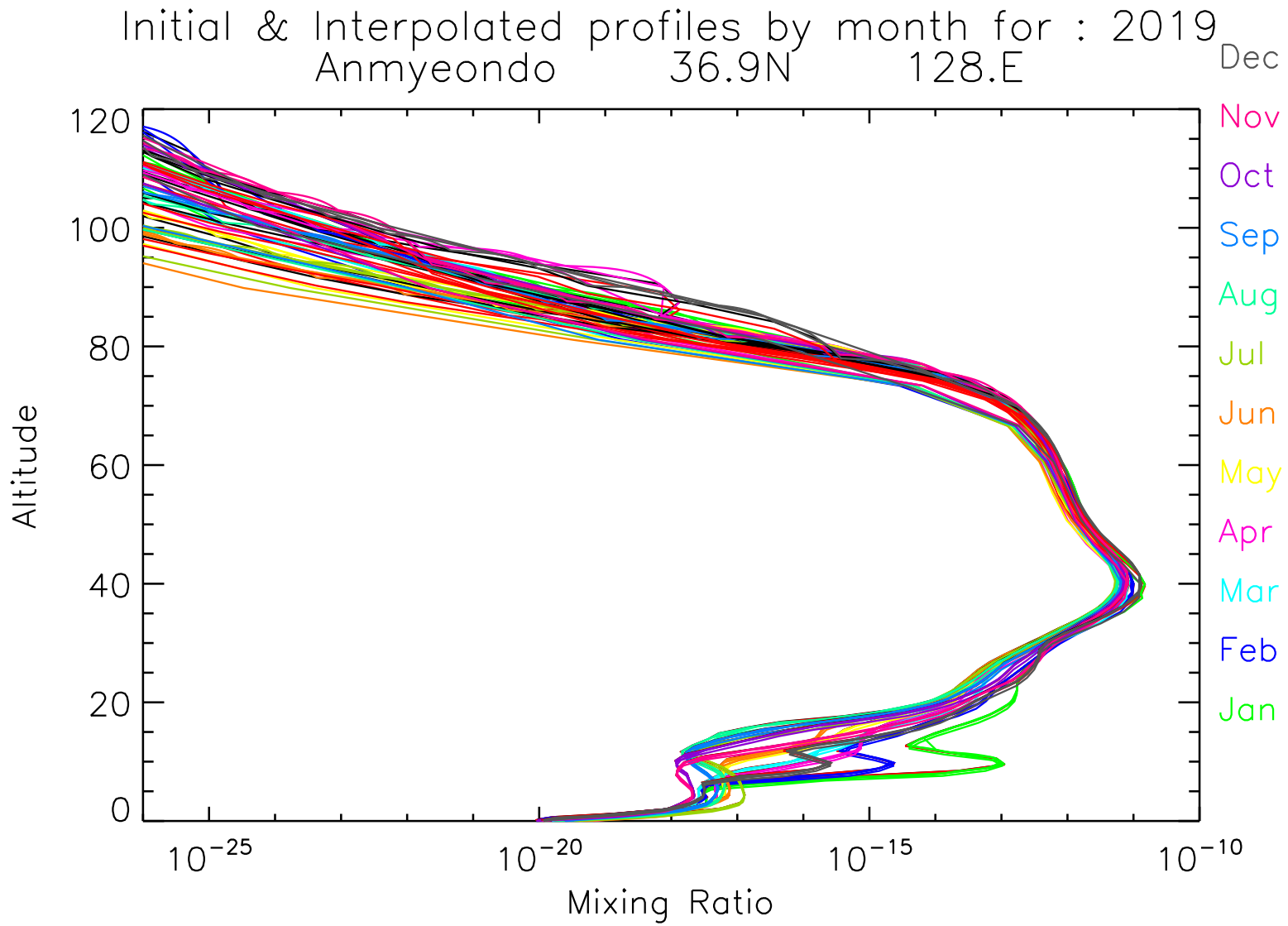

Initial & Interpolated profiles by month for : 2014
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

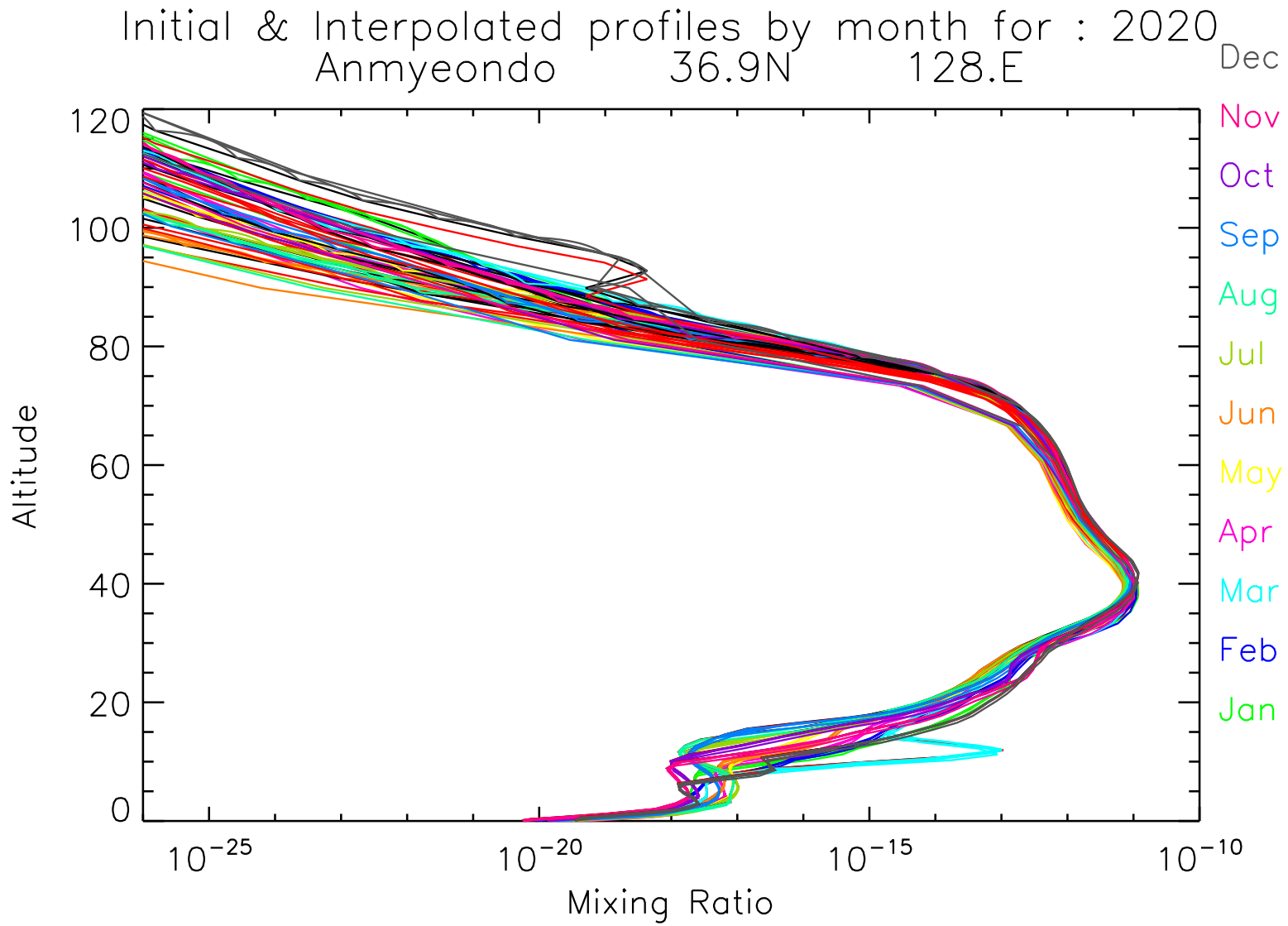

Initial & Interpolated profiles by month for : 2015
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

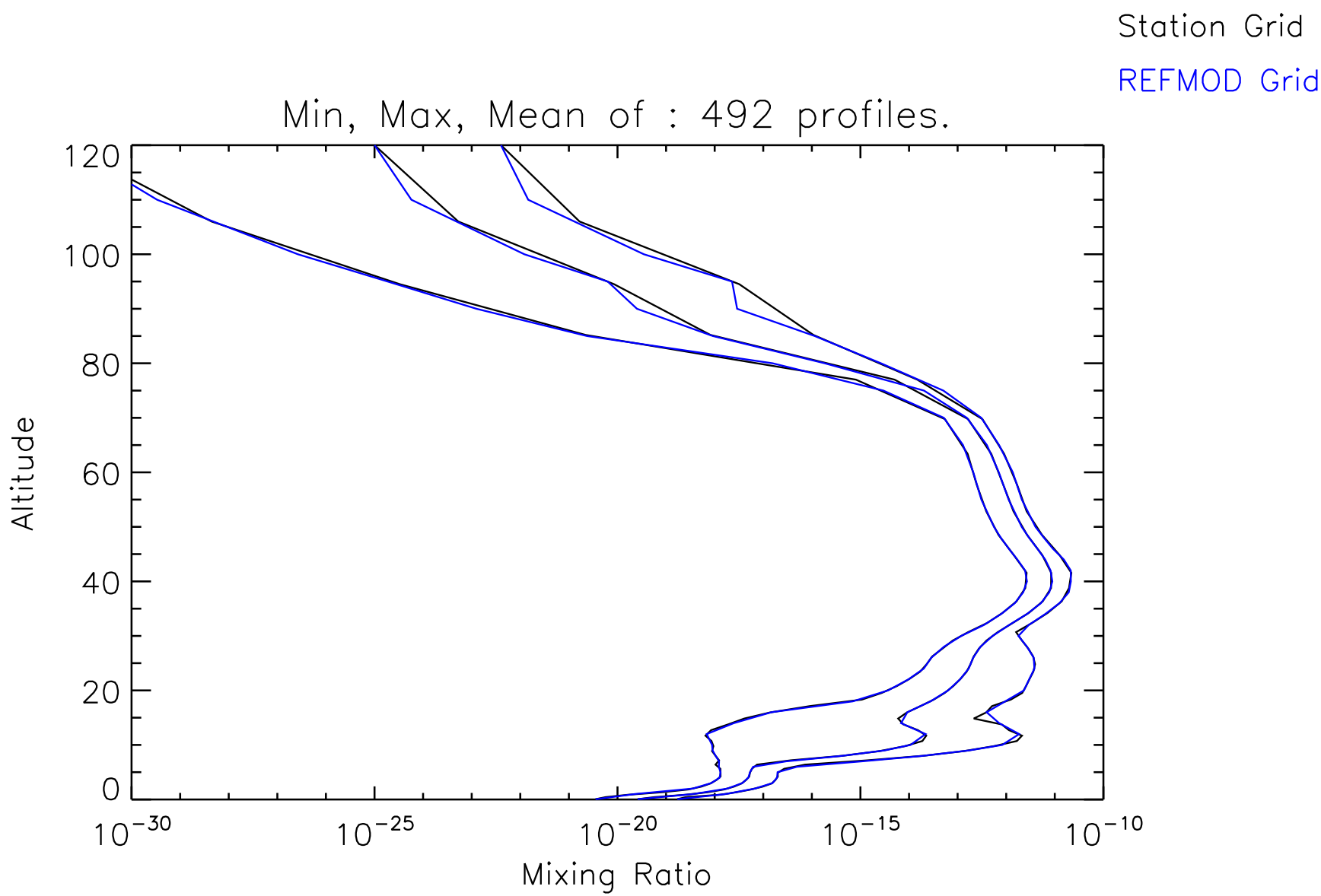

Initial & Interpolated profiles by month for : 2016
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

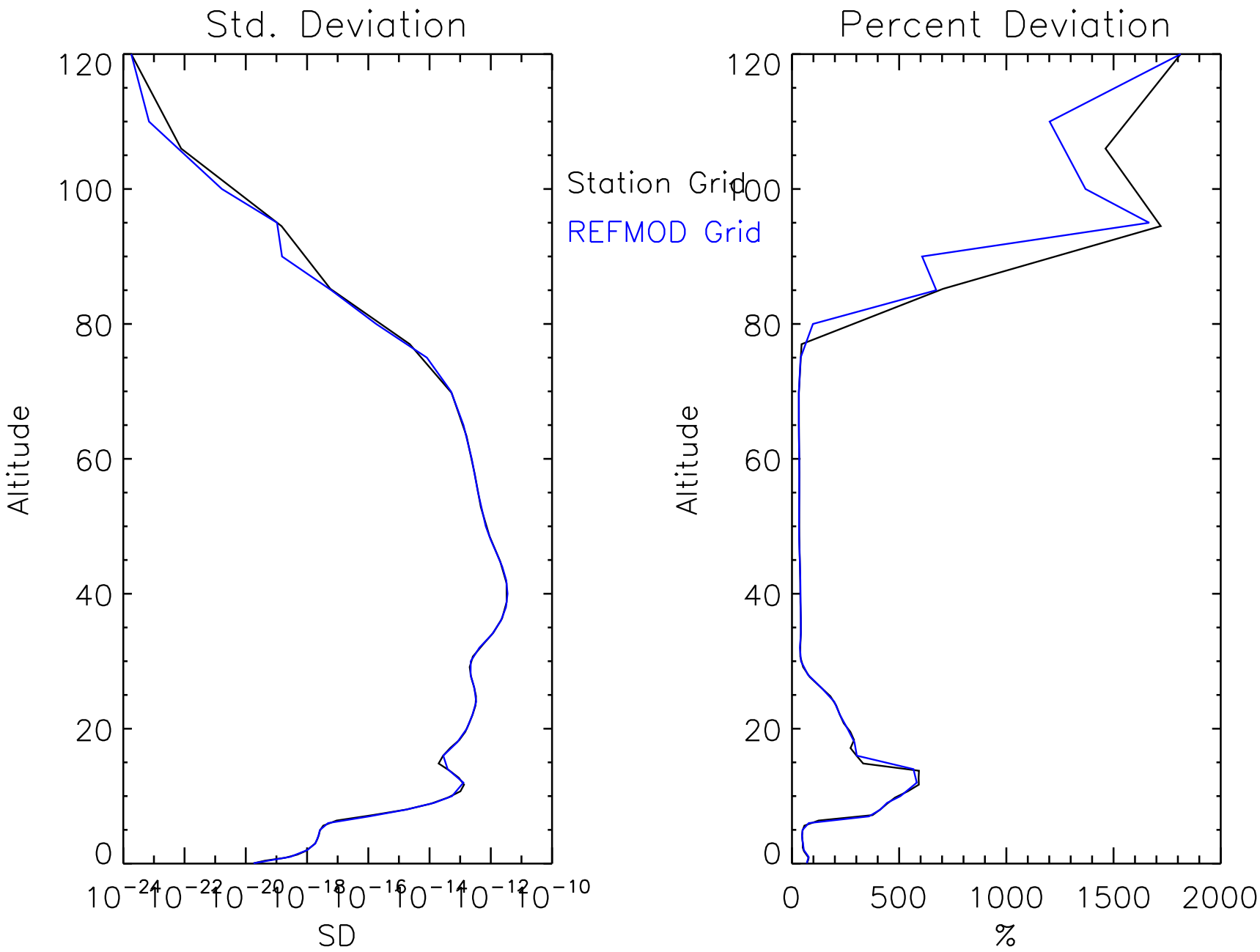

Initial & Interpolated profiles by month for : 2017
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

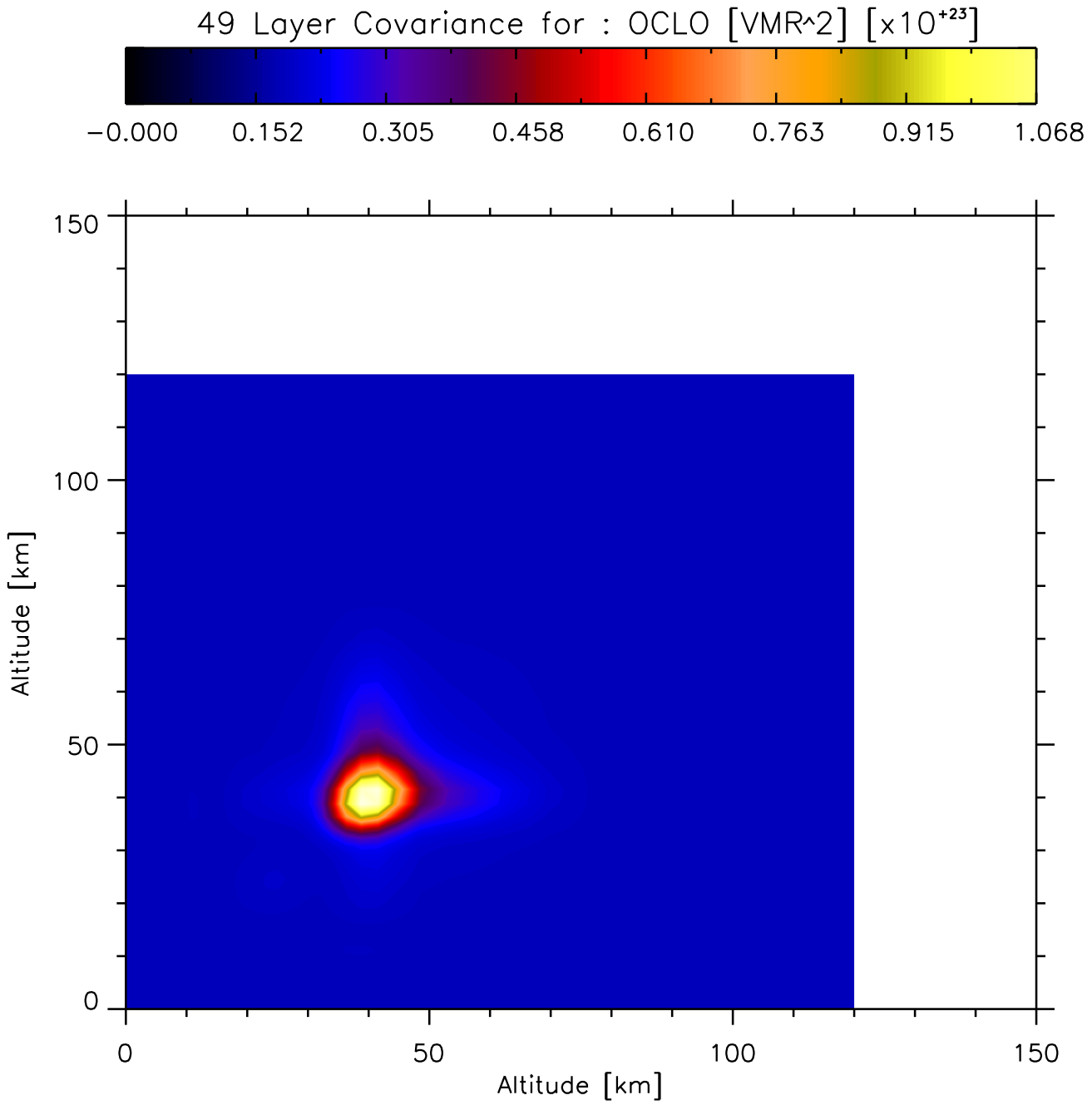

Initial & Interpolated profiles by month for : 2018
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2019
Anmyeondo 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^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

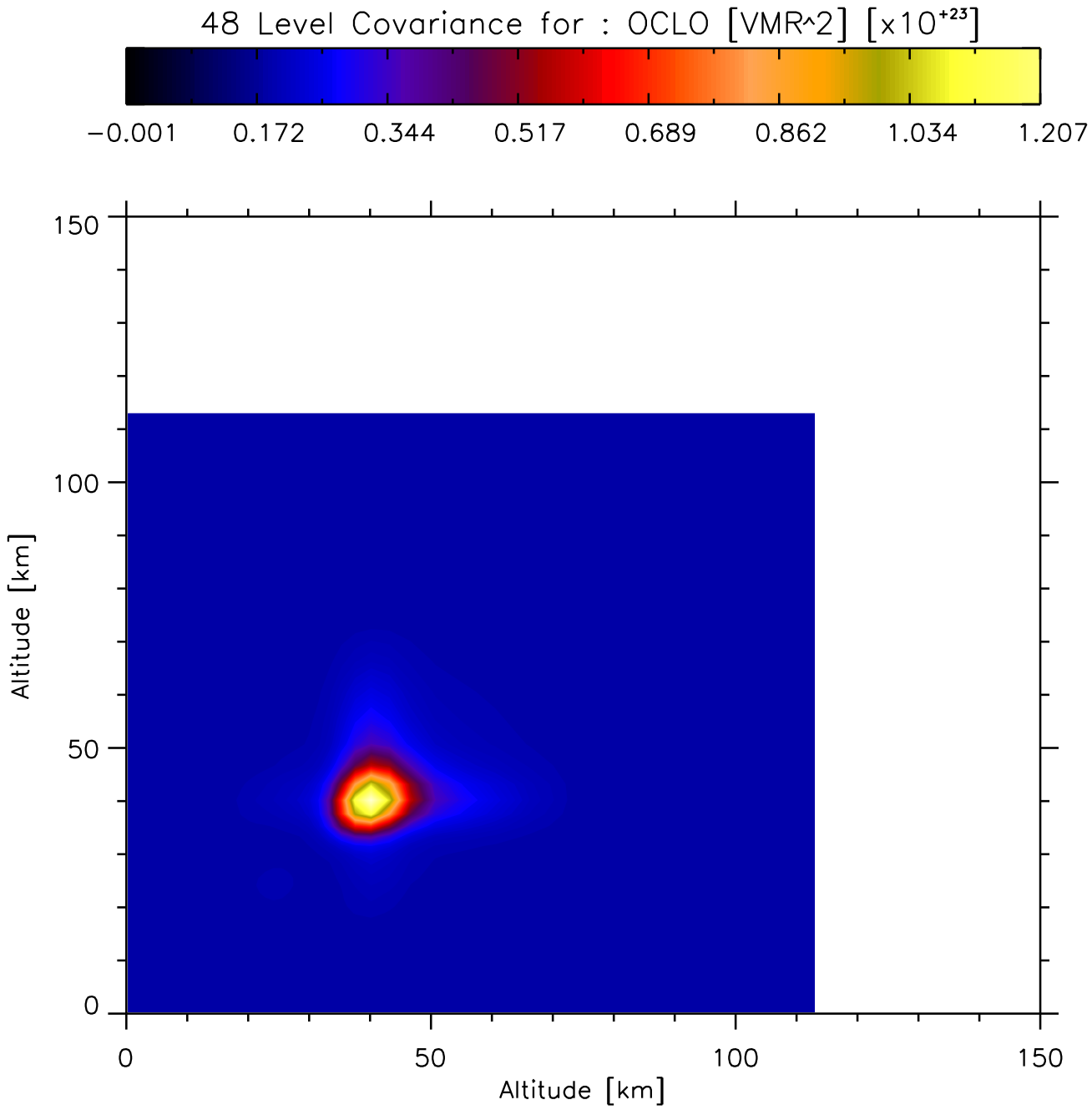

Initial & Interpolated profiles by month for : 2020
Anmyeondo 36.9N 128.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-24} 10^{-22} 10^{-20} 10^{-18} 10^{-16} 10^{-14} 10^{-12} 10^{-10}
SD
0
500
1000
1500
2000
%


49 Layer Covariance for : OCLO [VMR^2] [x10^+23]
−0.000
0.152
0.305
0.458
0.610
0.763
0.915
1.068
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : OCLO [VMR^2] [x10^23]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
30
60
90
120
150
X Altitude
0
50
100
150


48 Level Covariance for : OCLO [VMR^2] [x10^+23]
−0.001
0.172
0.344
0.517
0.689
0.862
1.034
1.207
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : OCLO [VMR^2] [x10^-23]
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
50
100
150
X Altitude
0
50
100
150