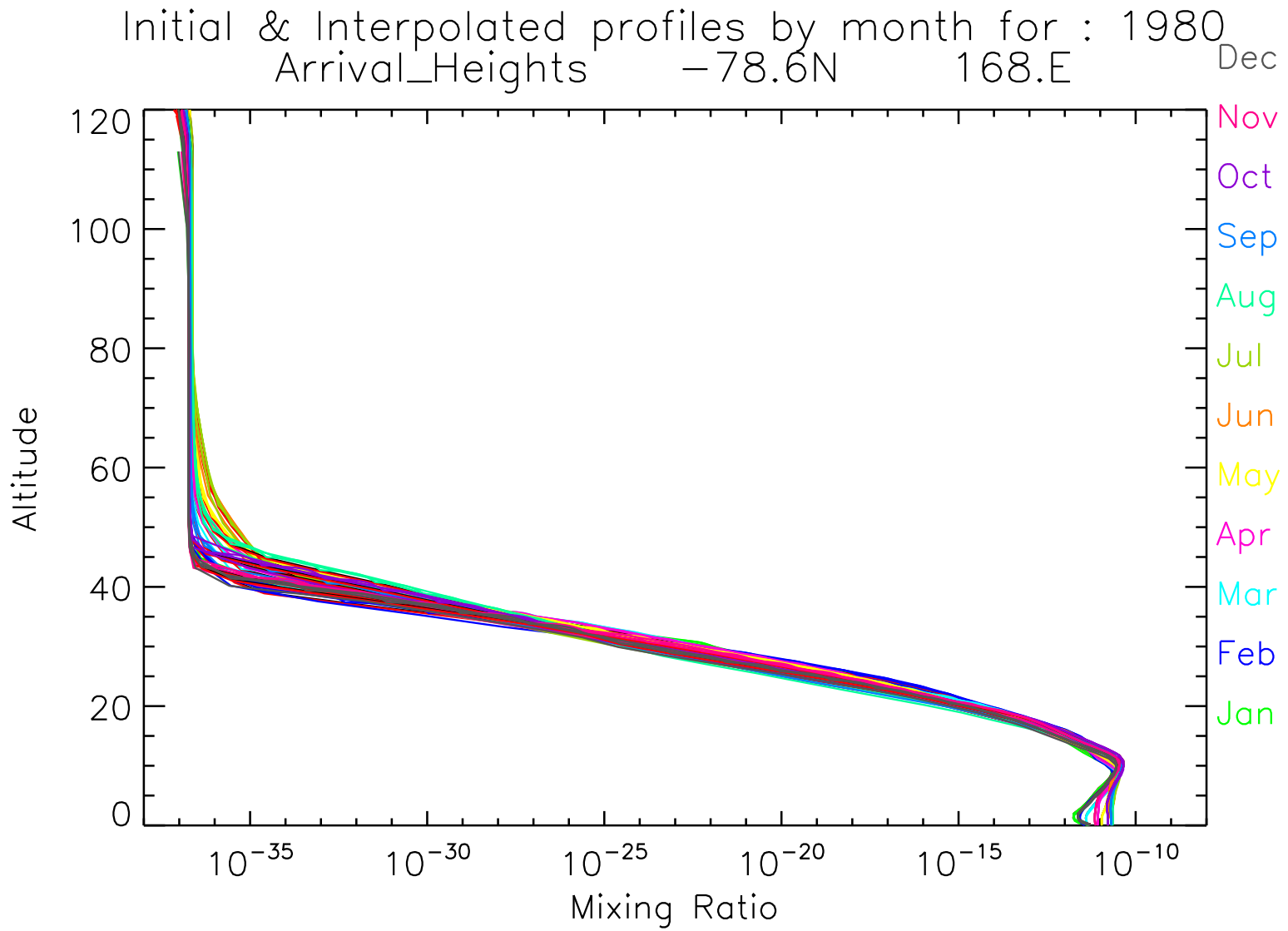
Initial & Interpolated profiles by month for : 1980
Arrival_Heights −78.6N 168.E
Dec
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Altitude
120
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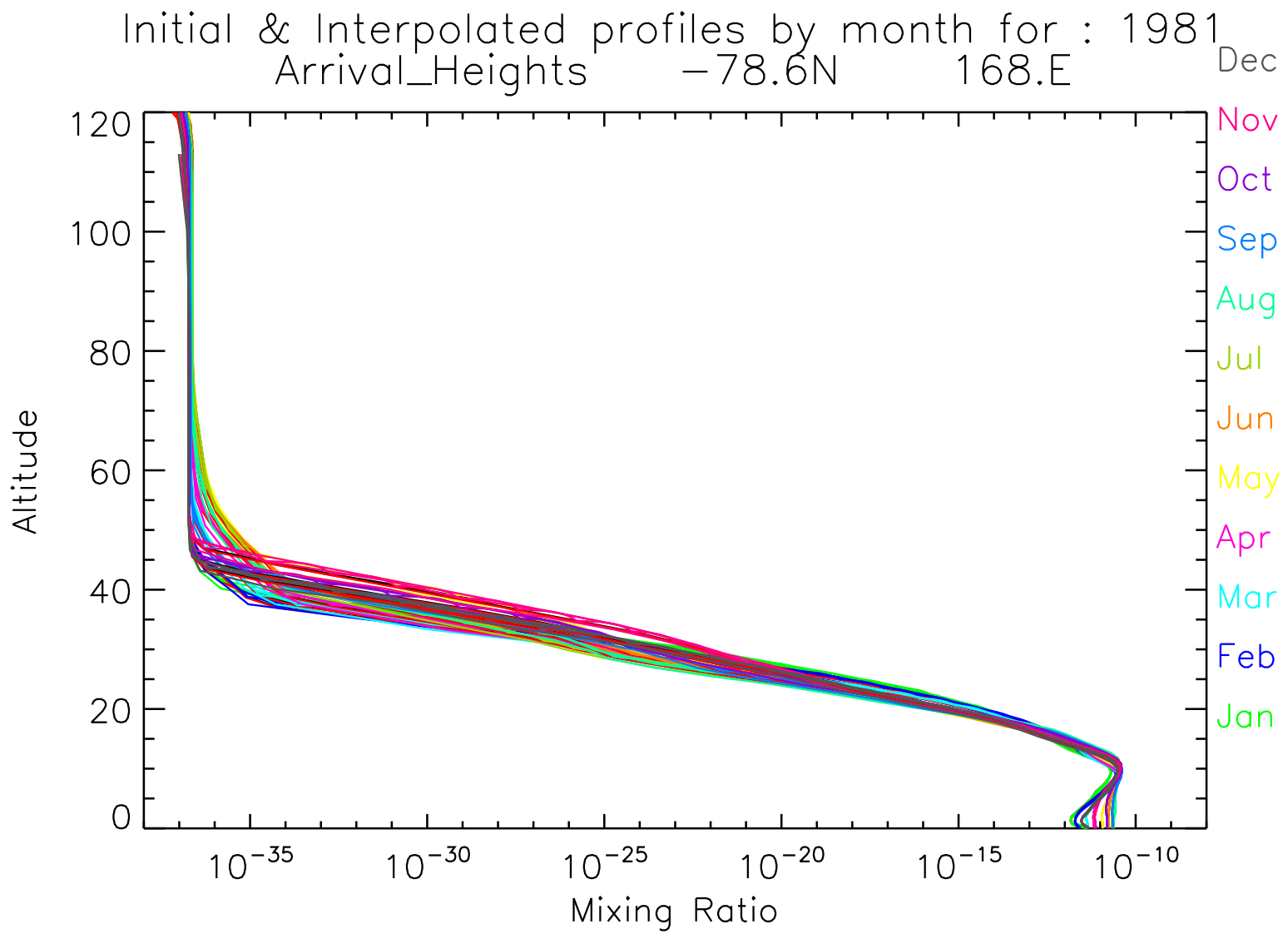
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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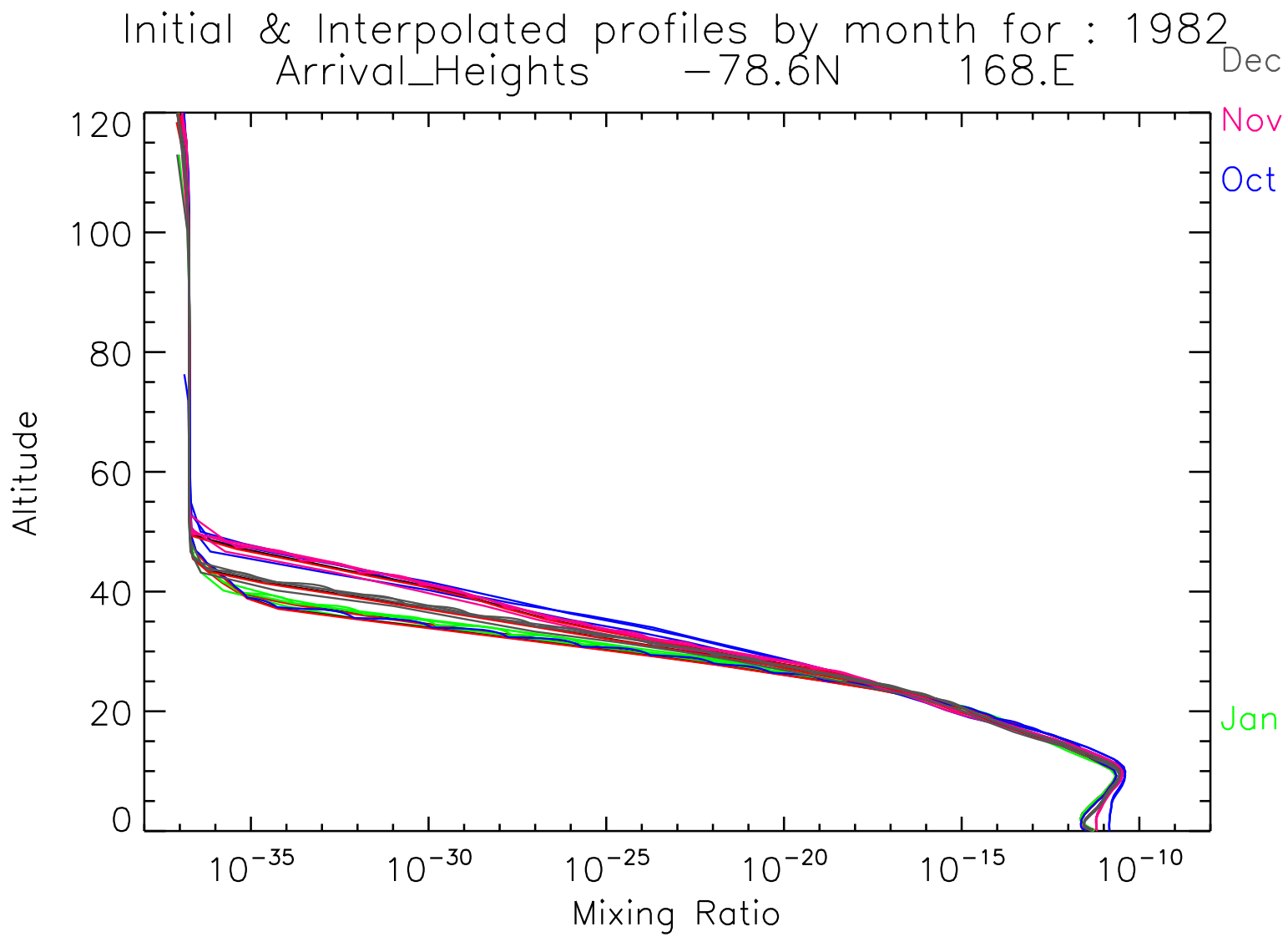
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
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120
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Altitude
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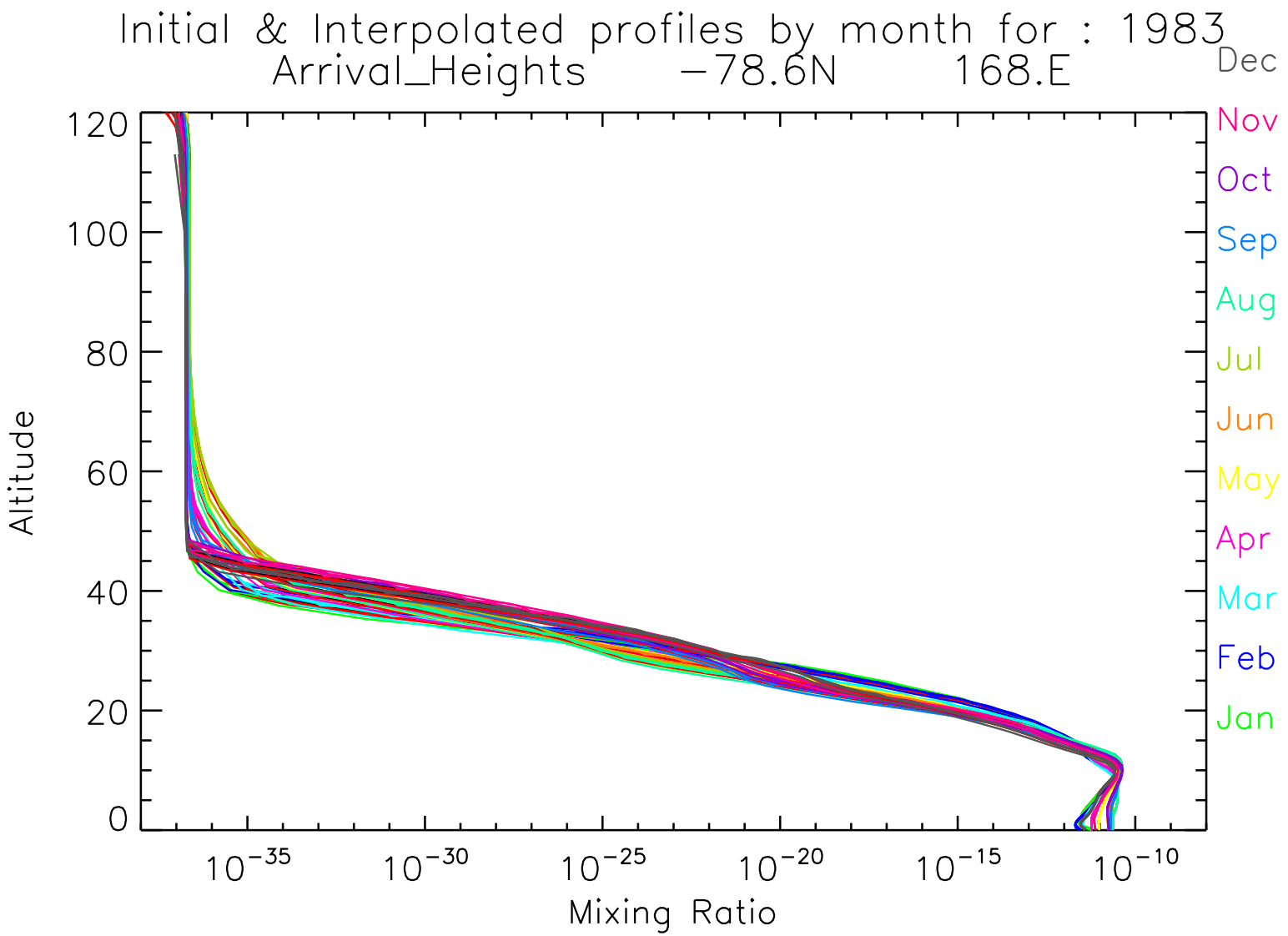
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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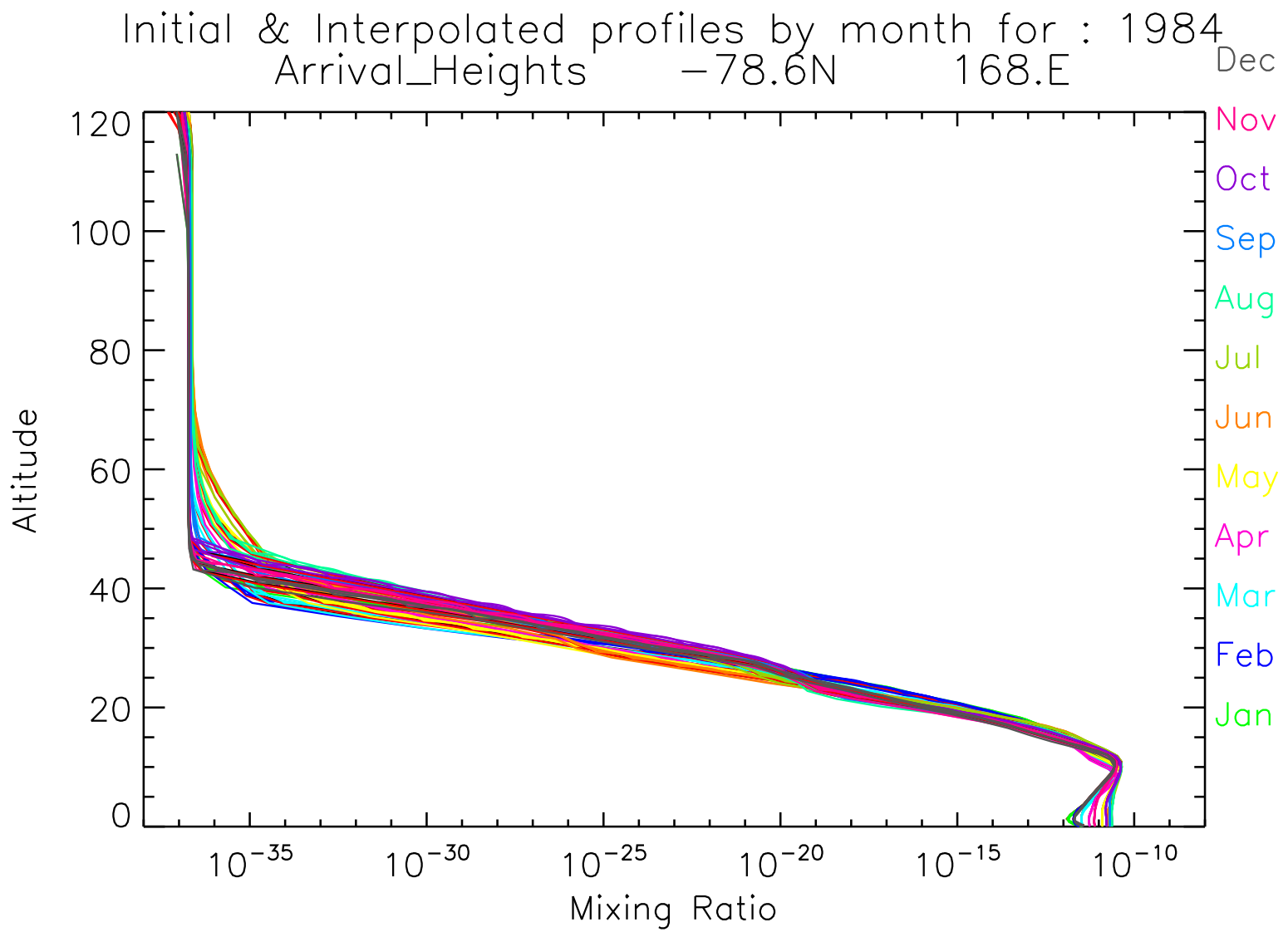
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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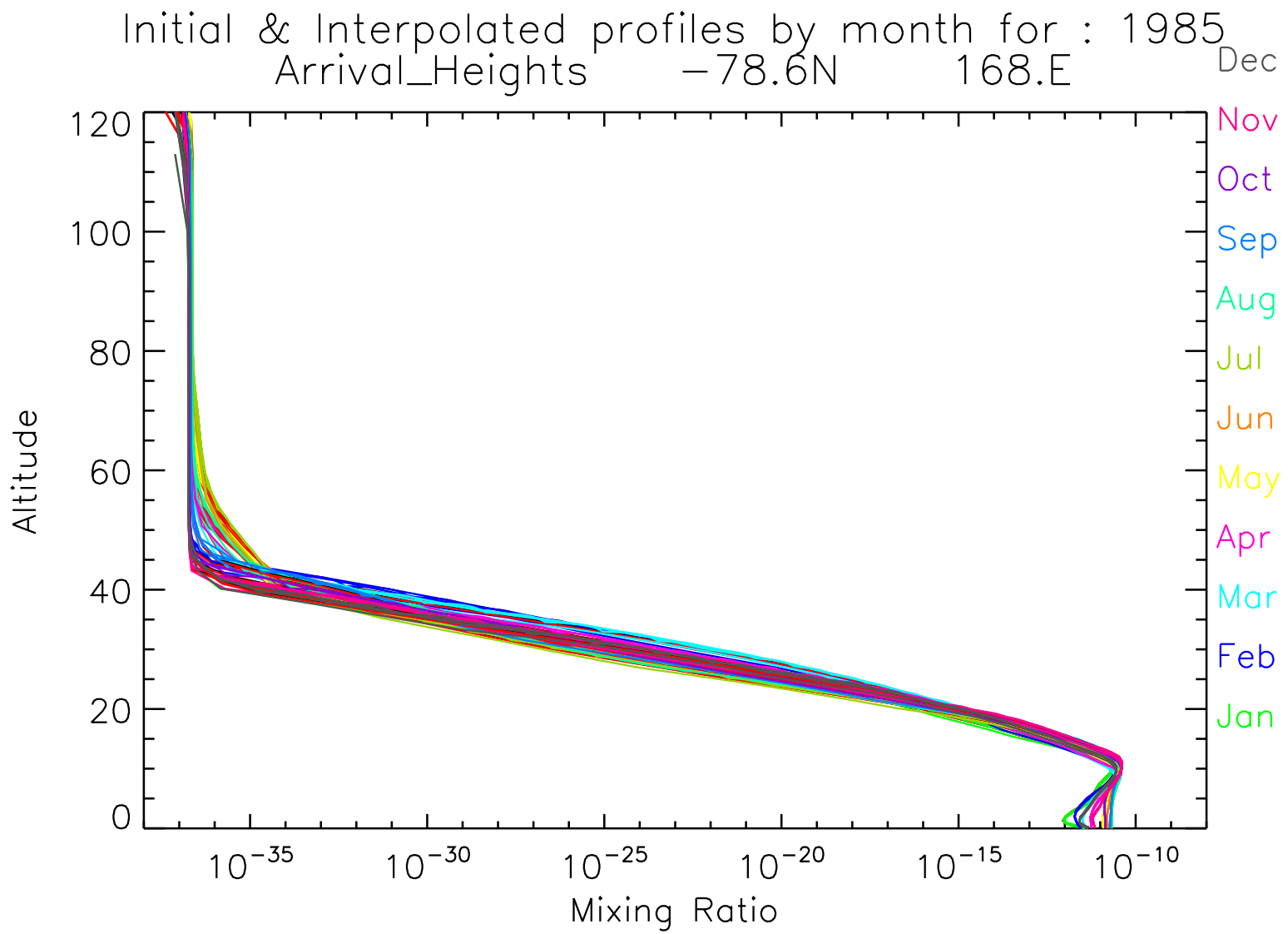
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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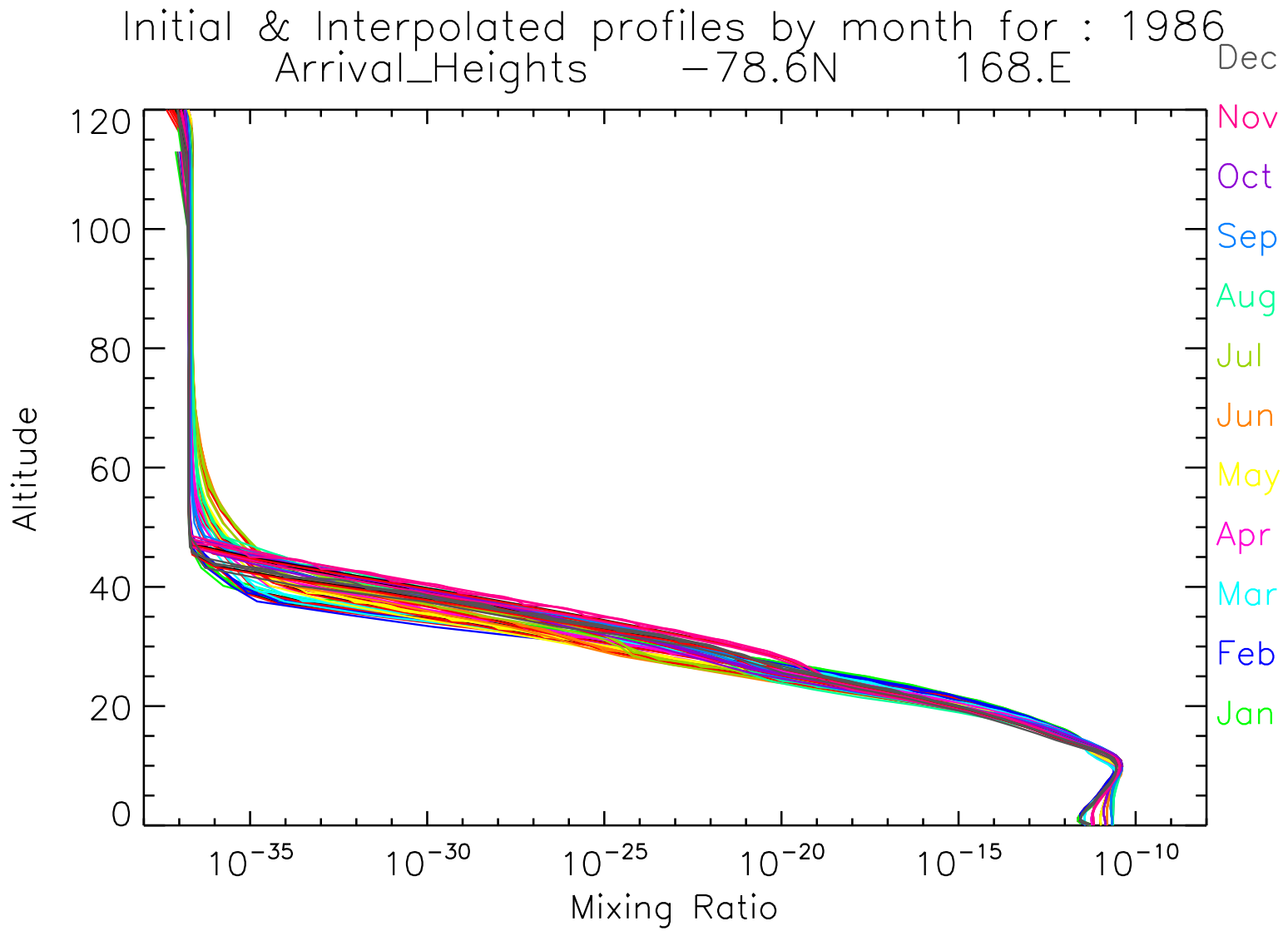
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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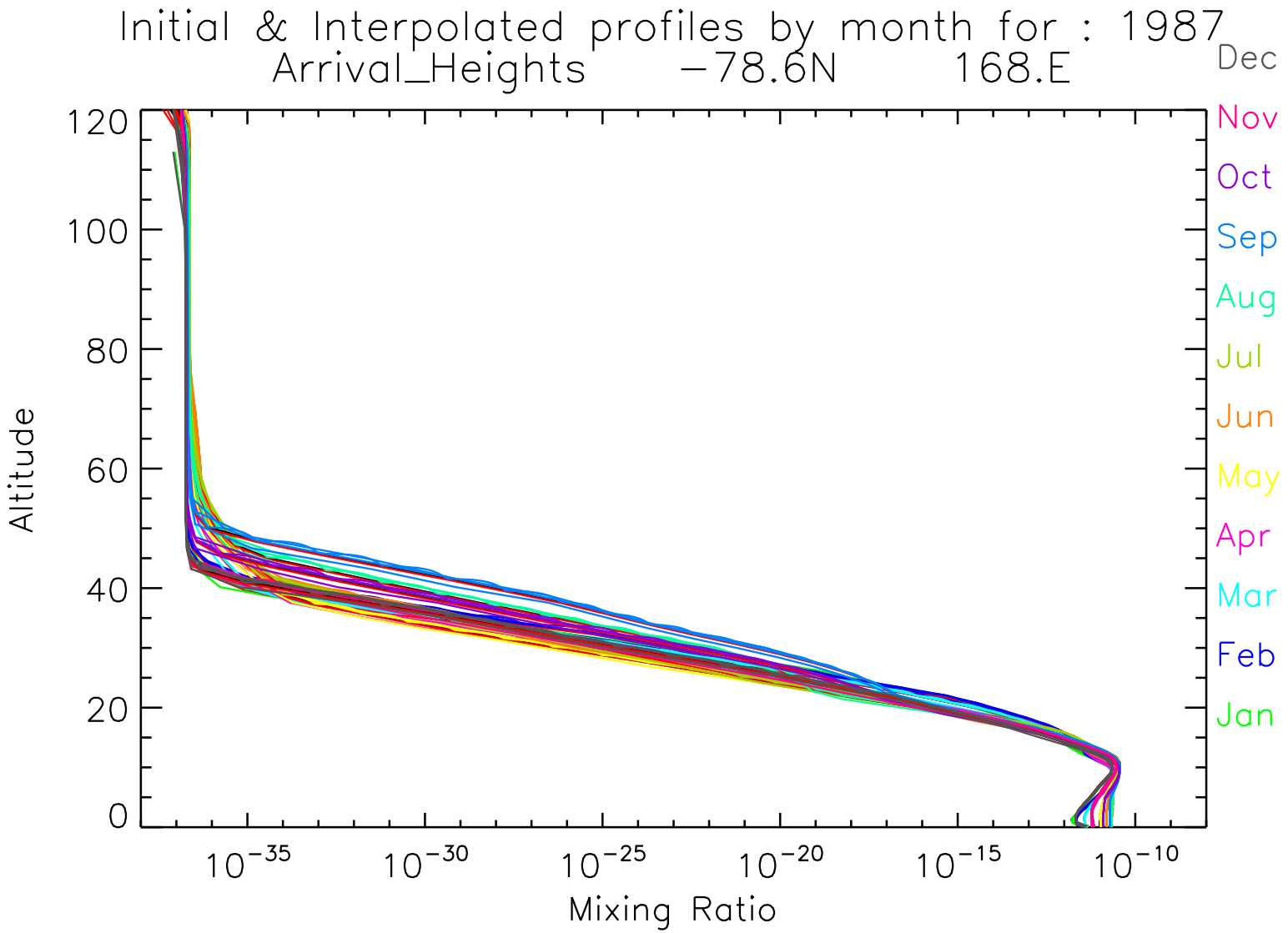
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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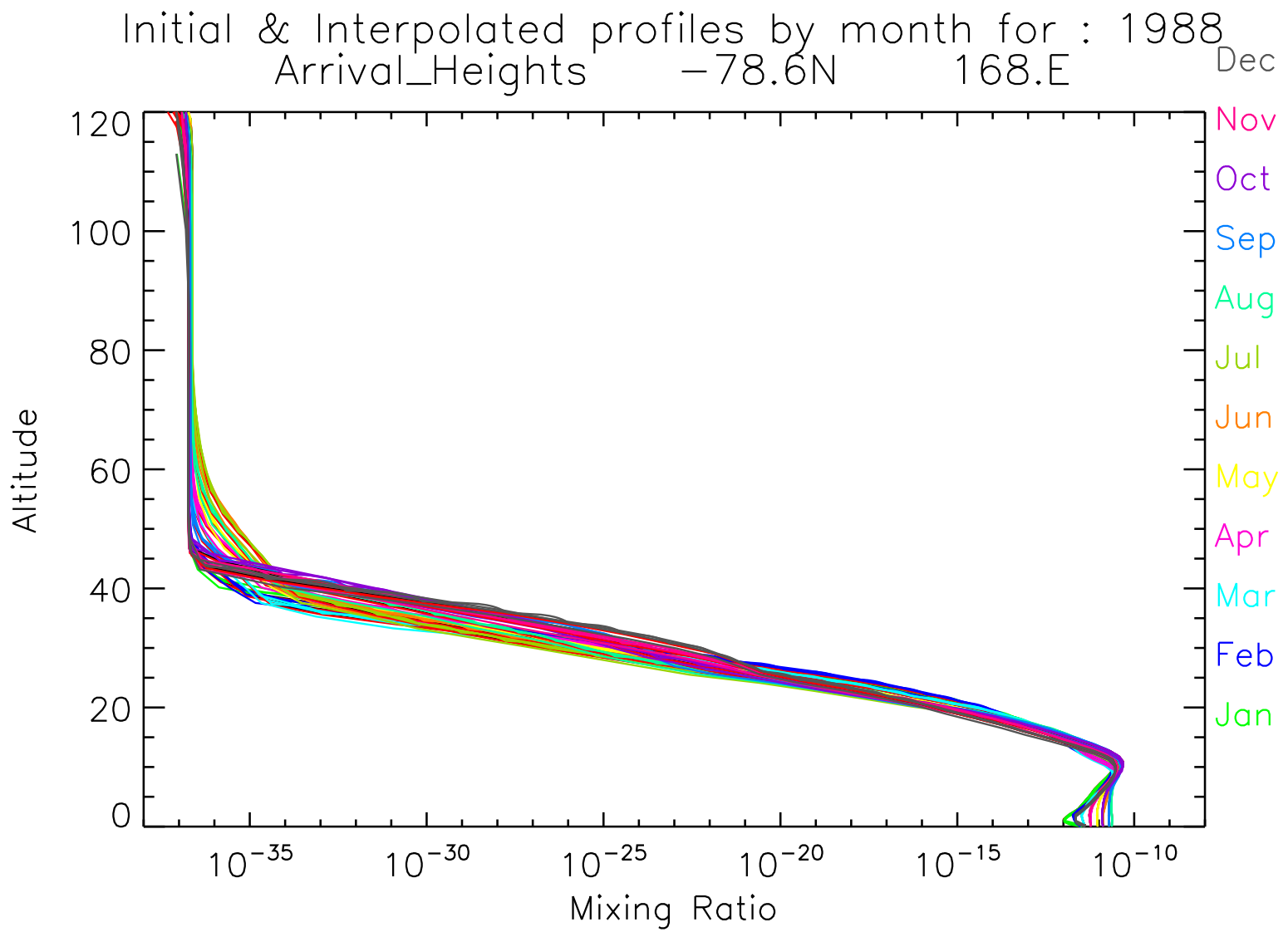
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Arrival_Heights −78.6N 168.E
Dec
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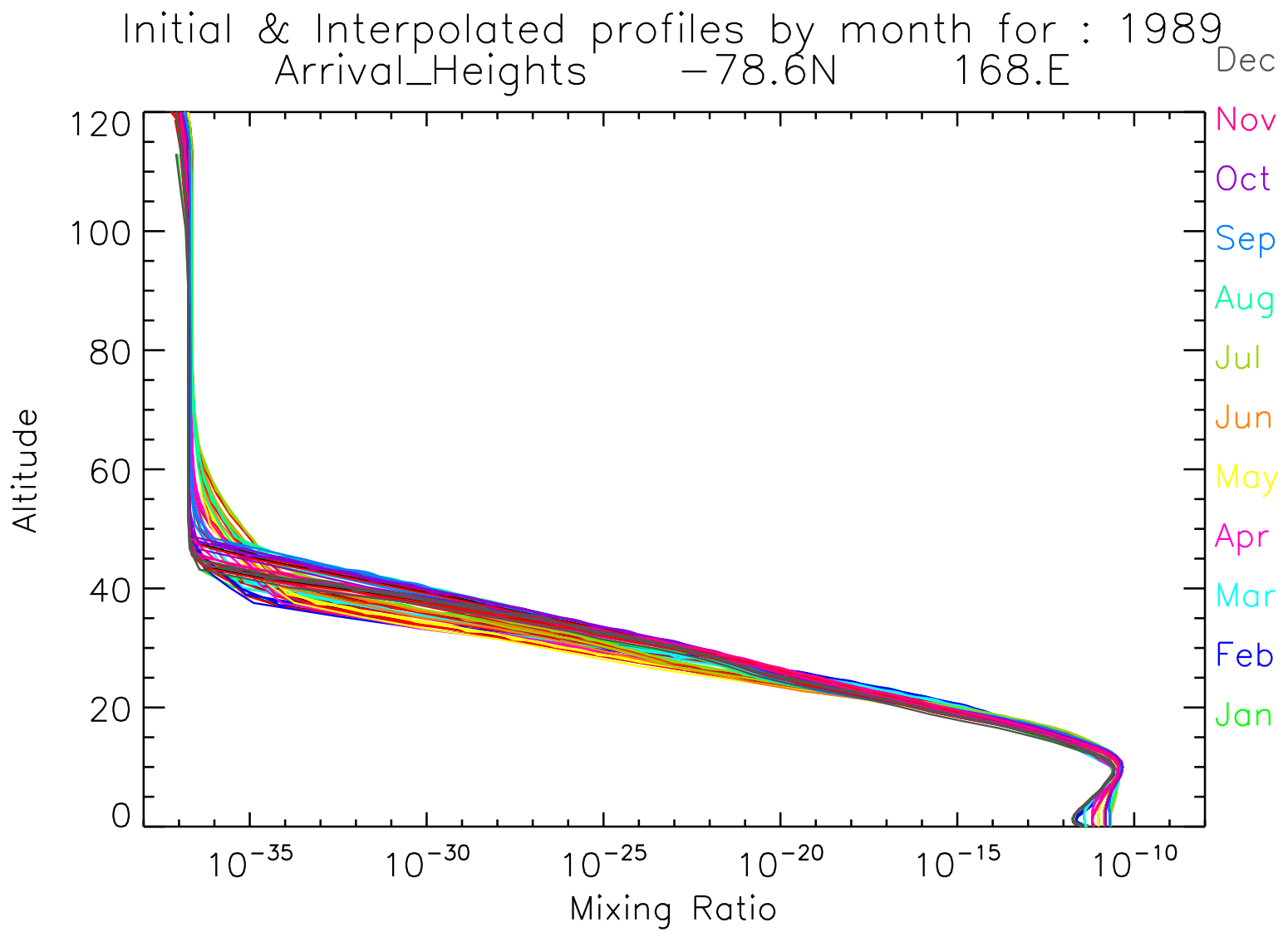
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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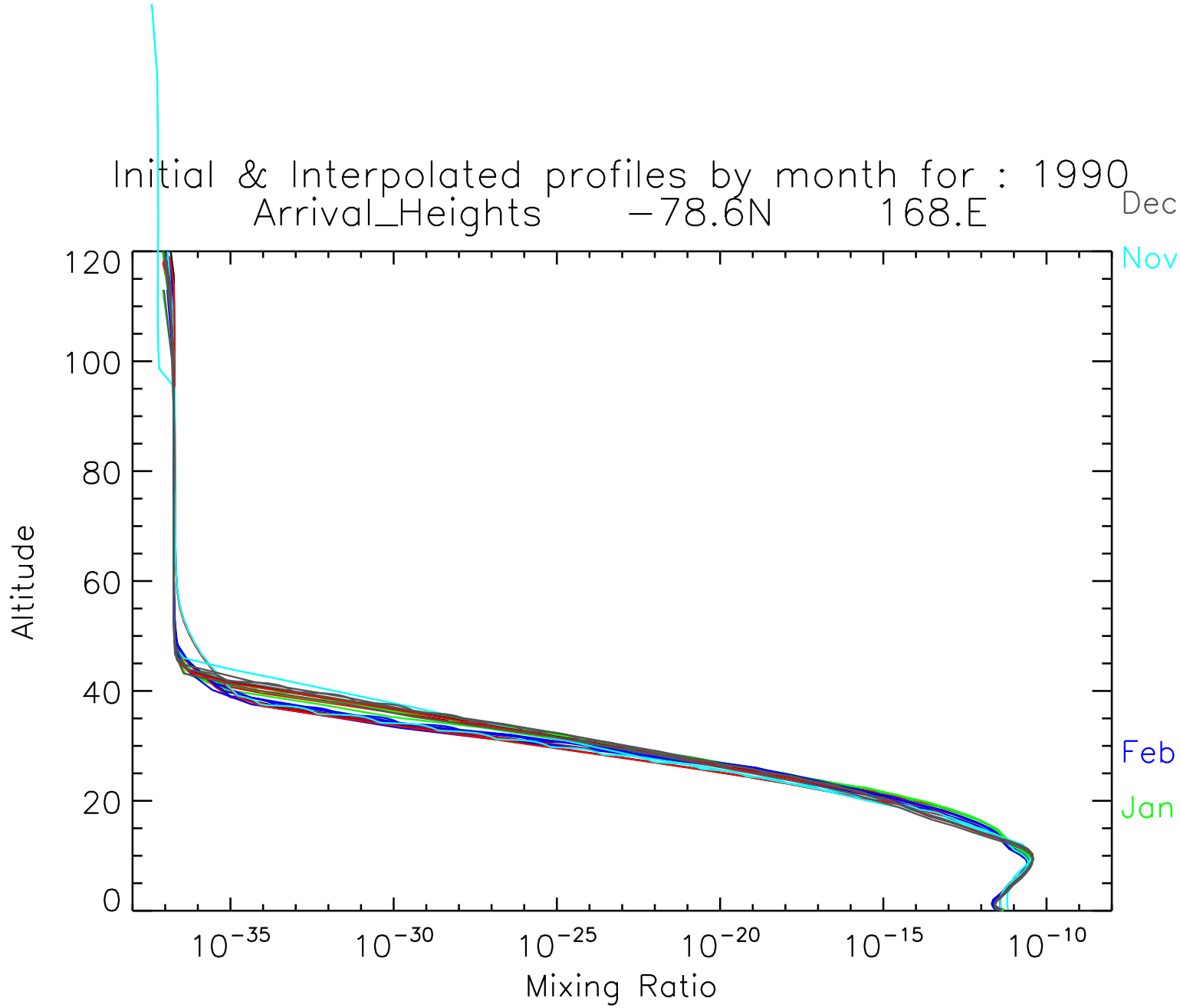
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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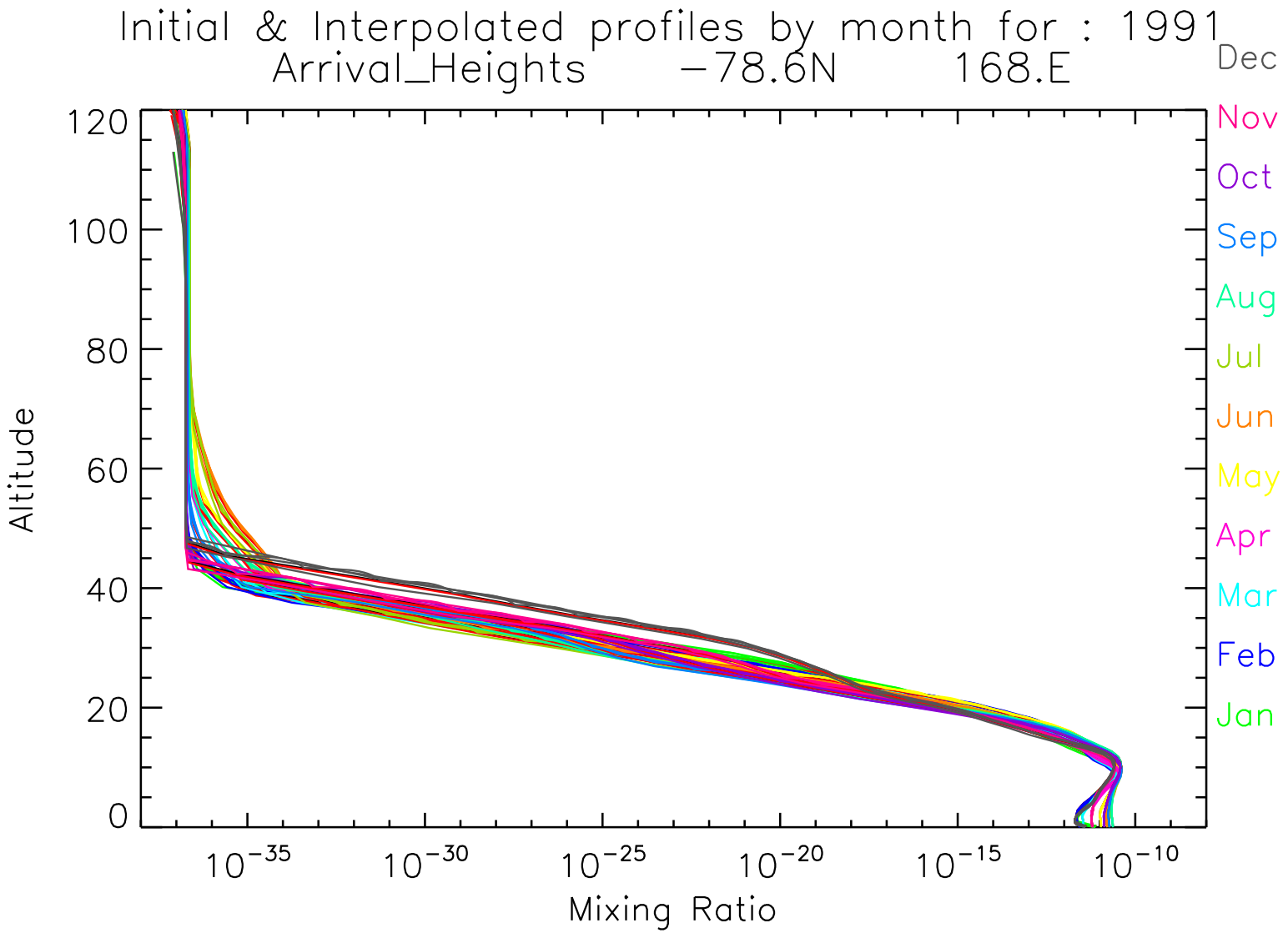
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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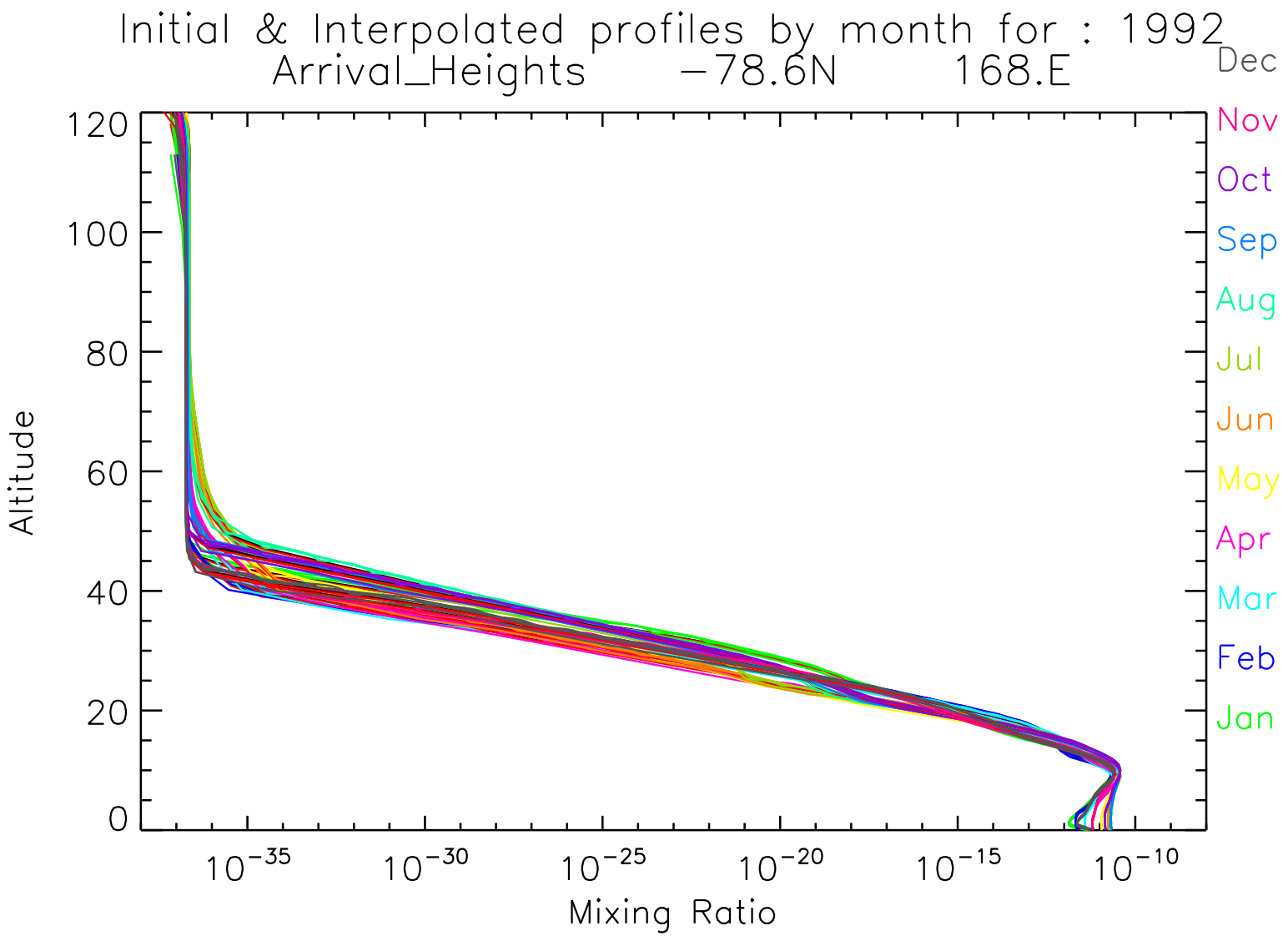
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Arrival_Heights −78.6N 168.E
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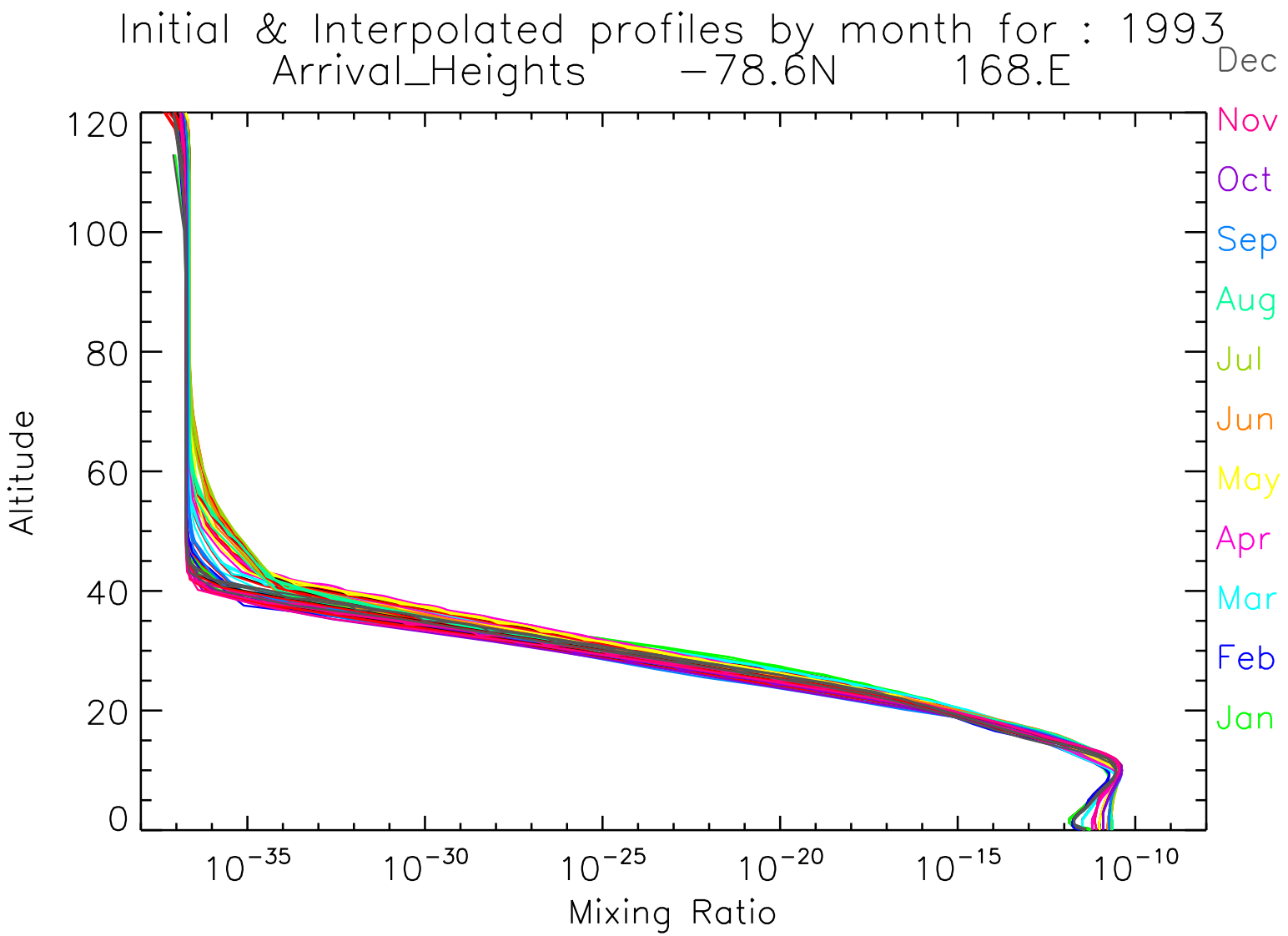
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Arrival_Heights −78.6N 168.E
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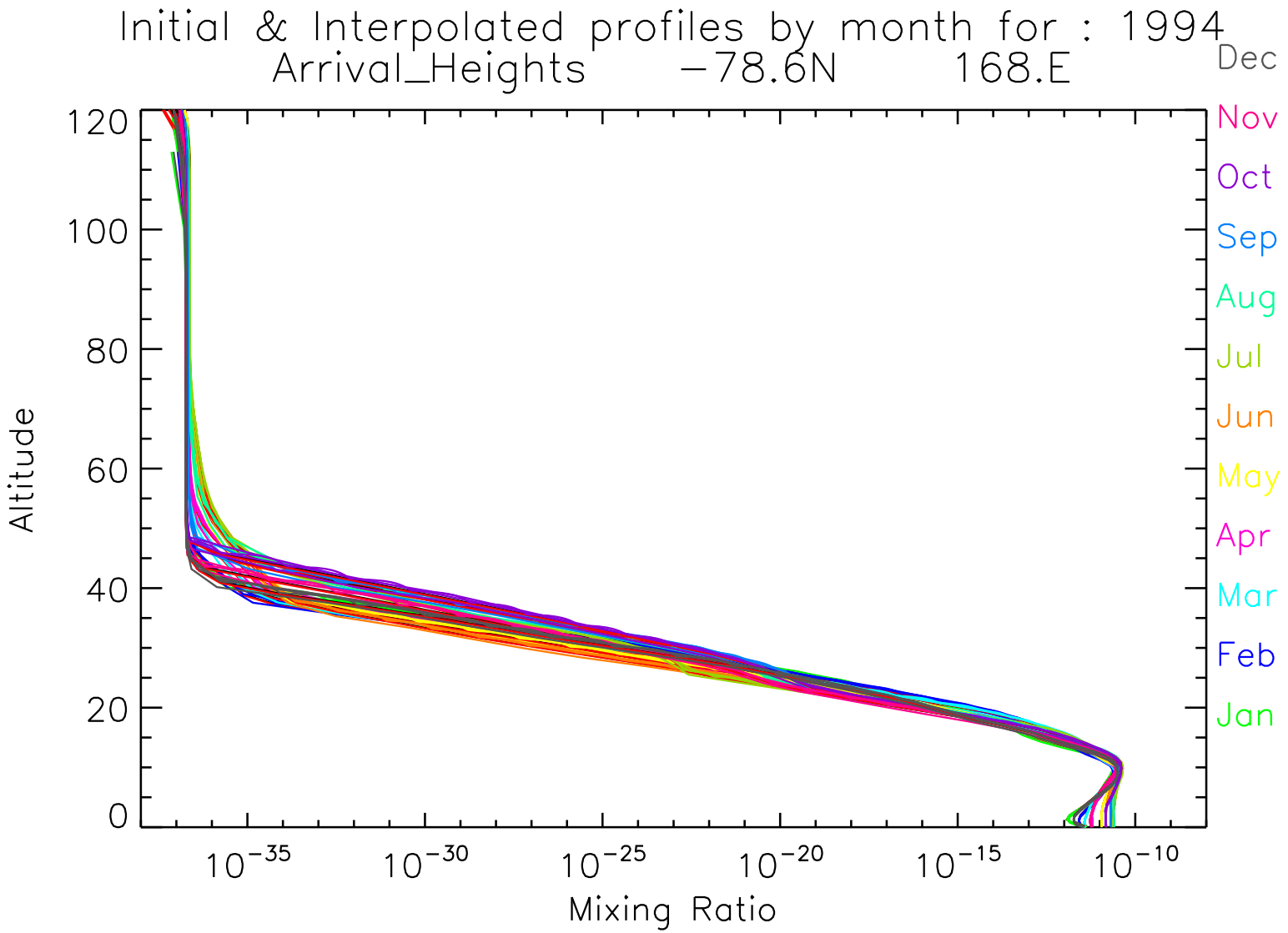
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Arrival_Heights −78.6N 168.E
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Altitude
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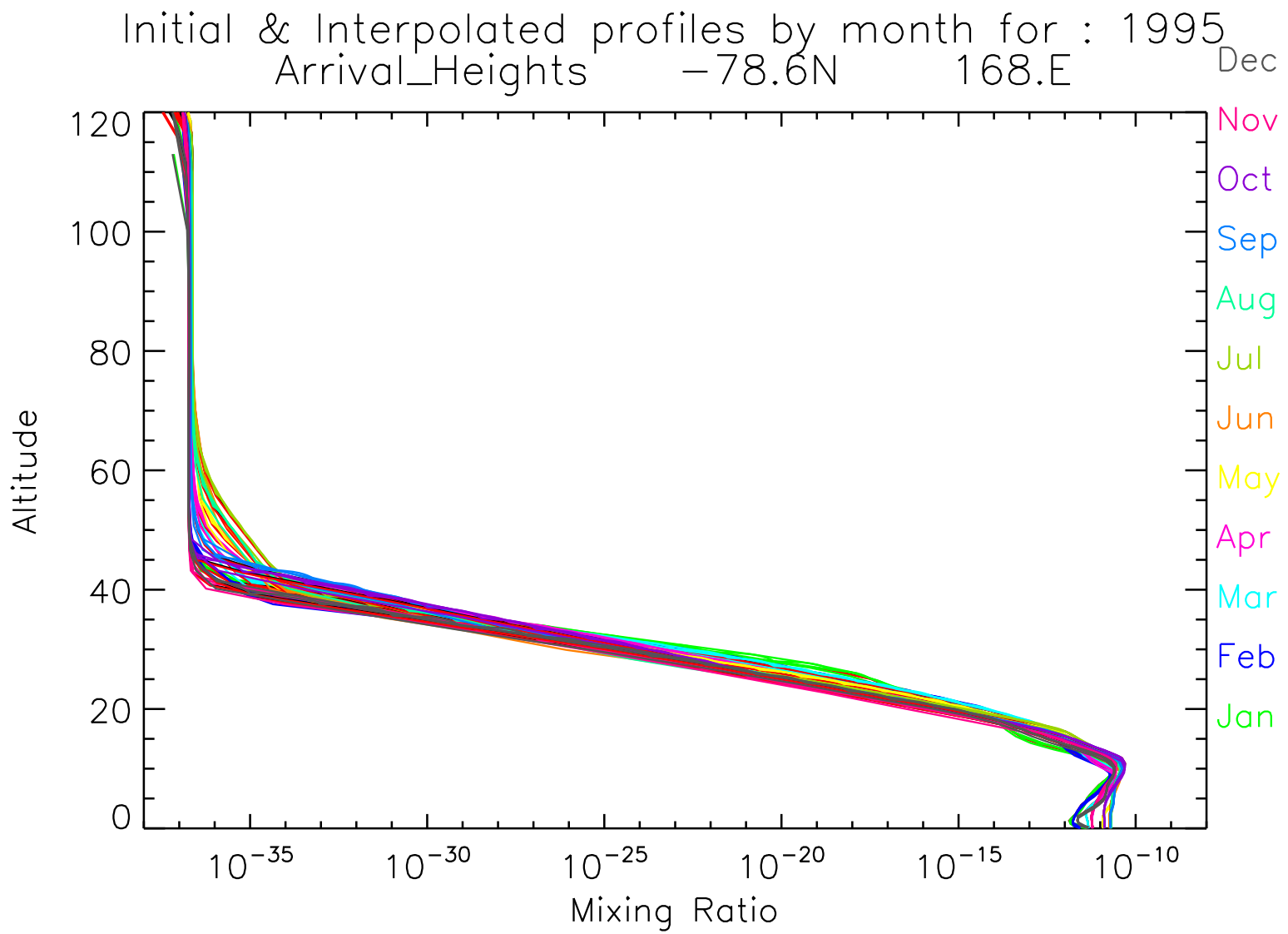
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Arrival_Heights −78.6N 168.E
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Altitude
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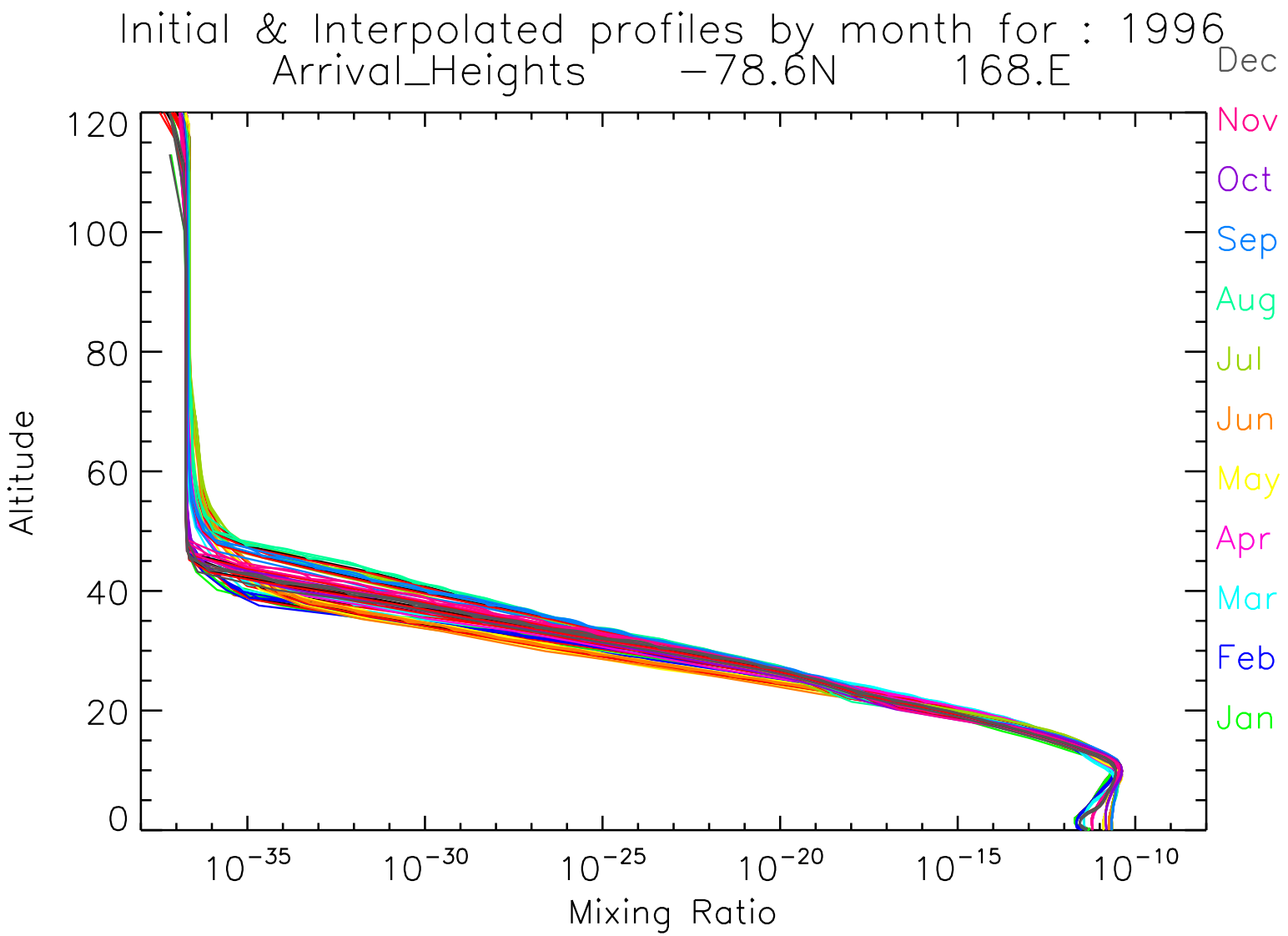
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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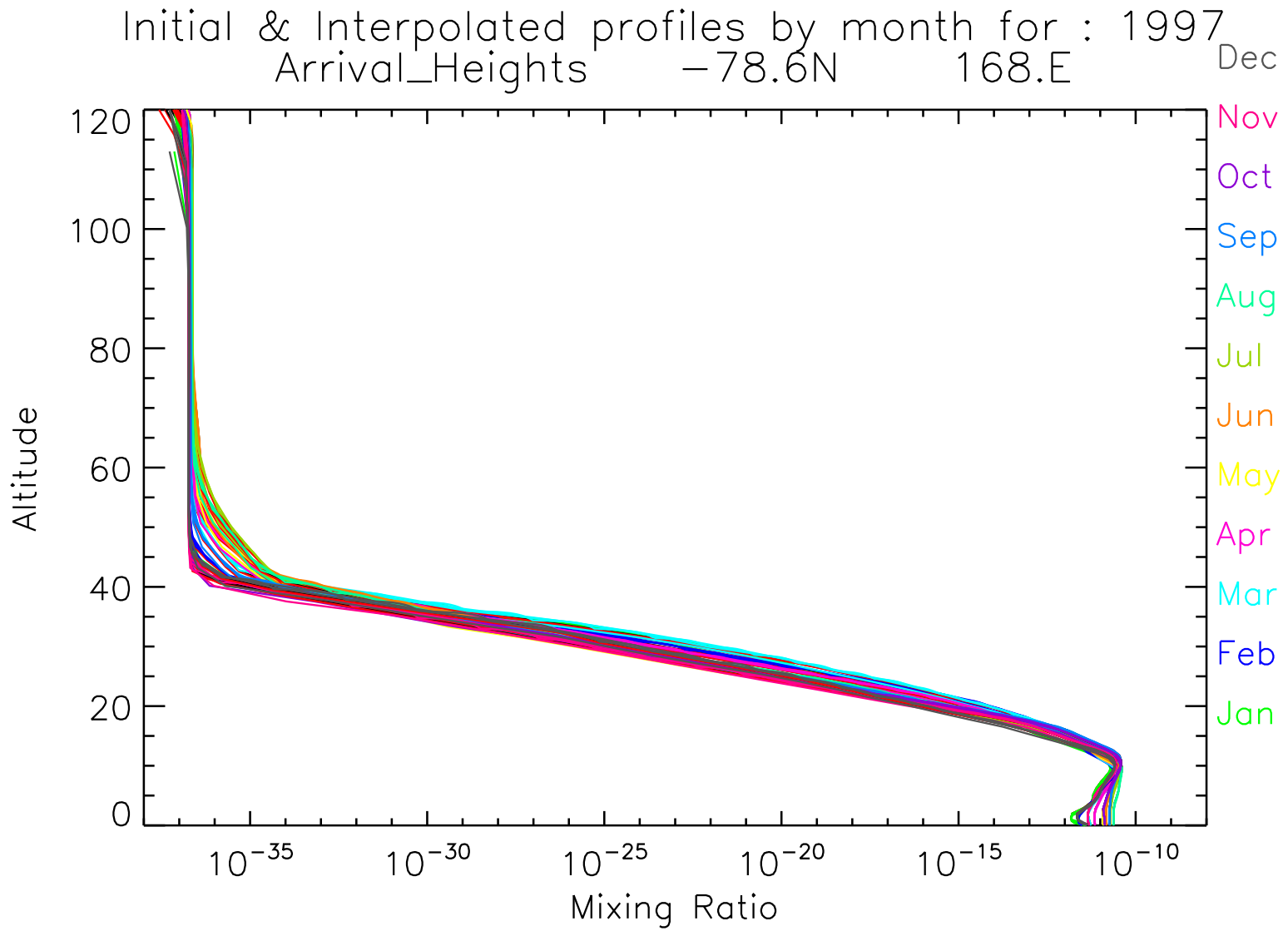
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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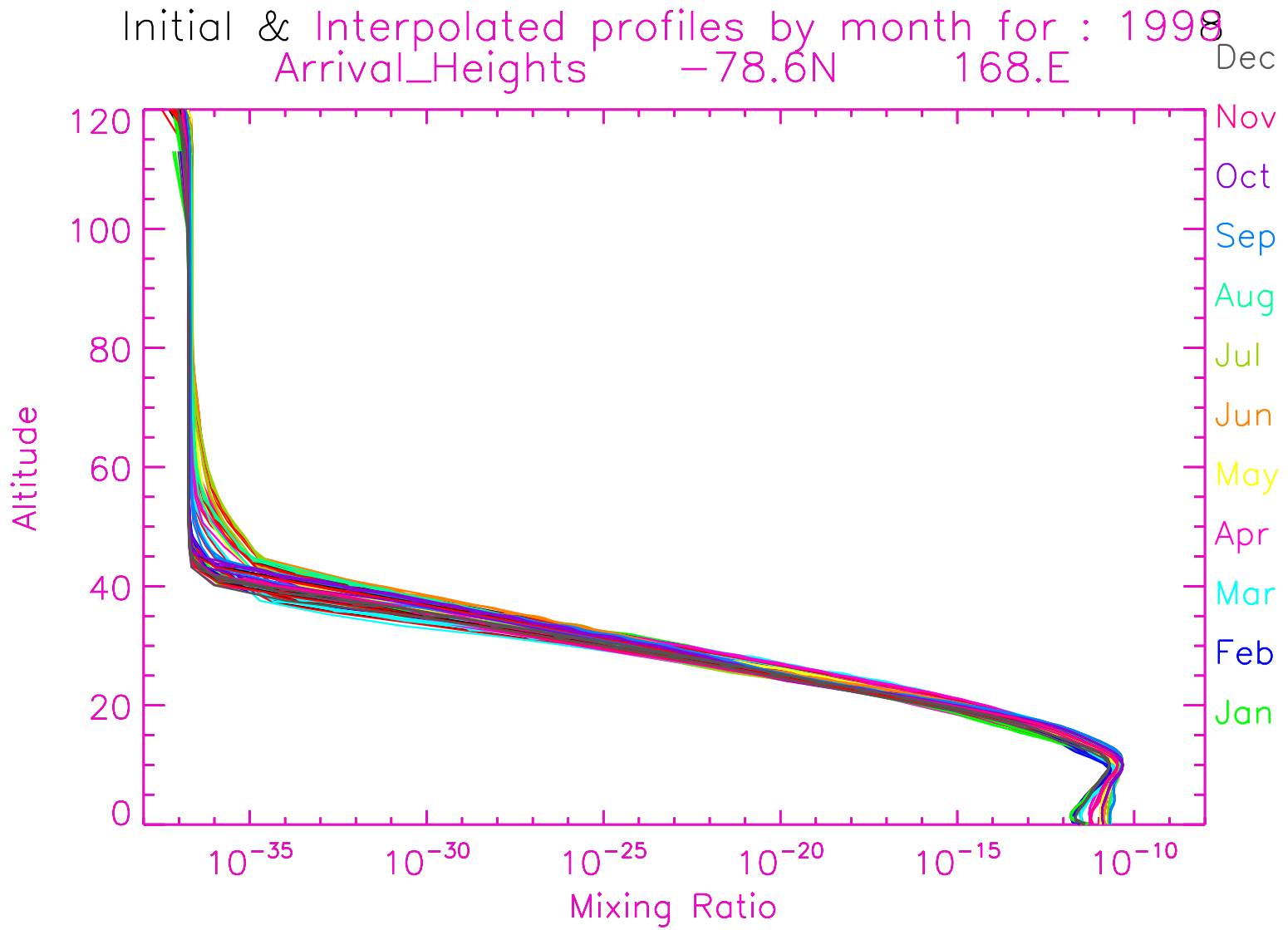
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Arrival_Heights −78.6N 168.E
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Altitude
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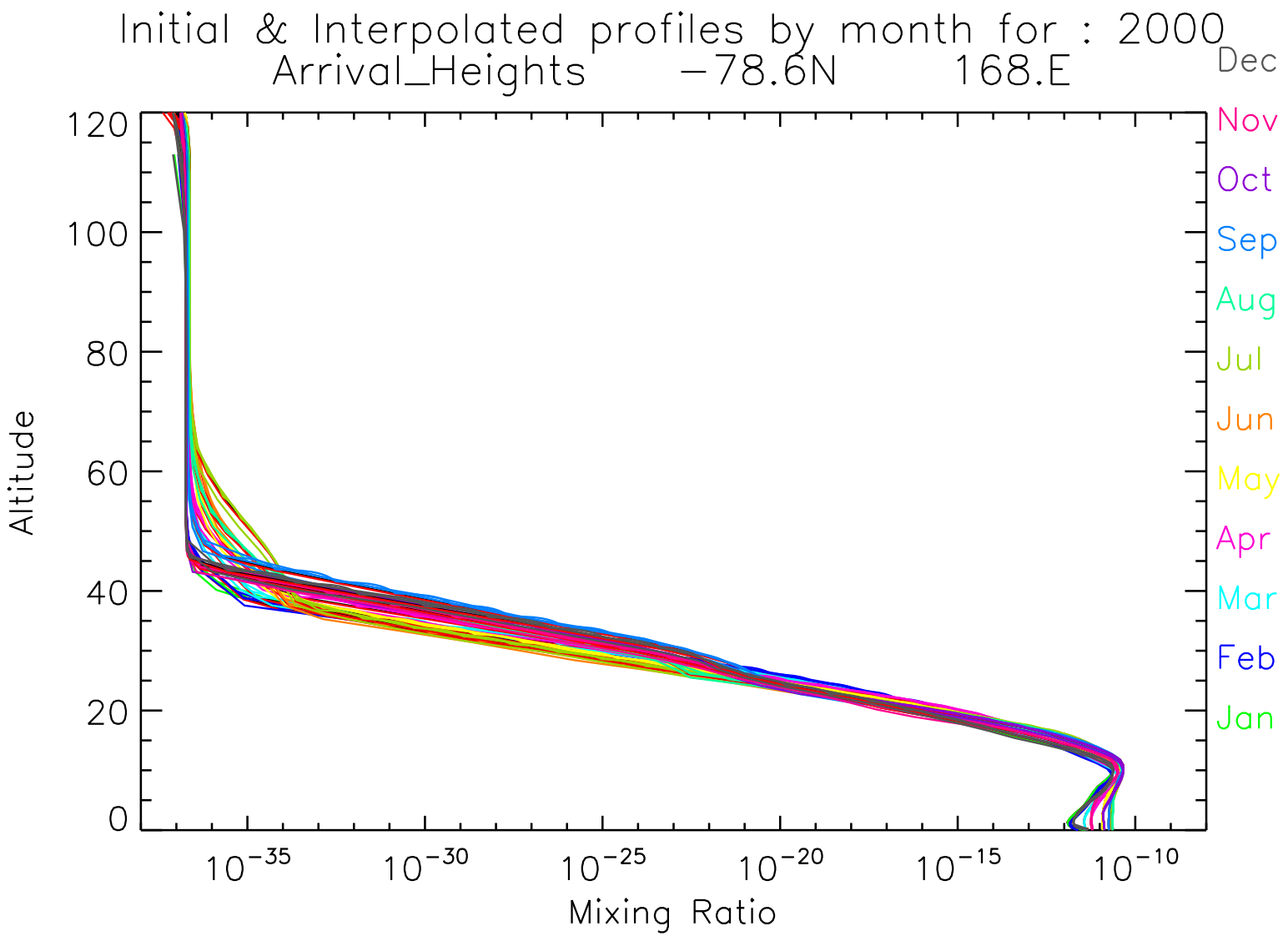
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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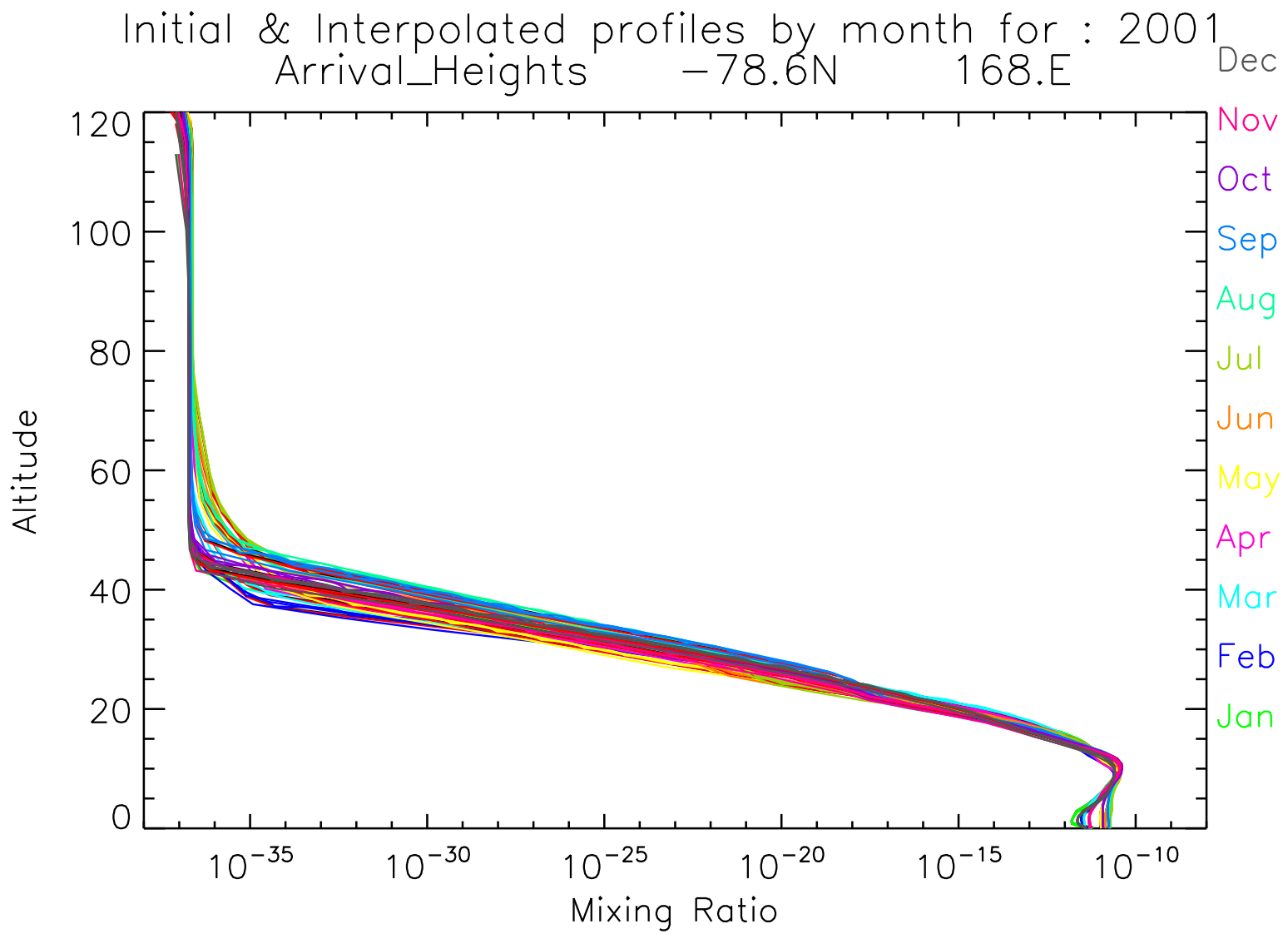
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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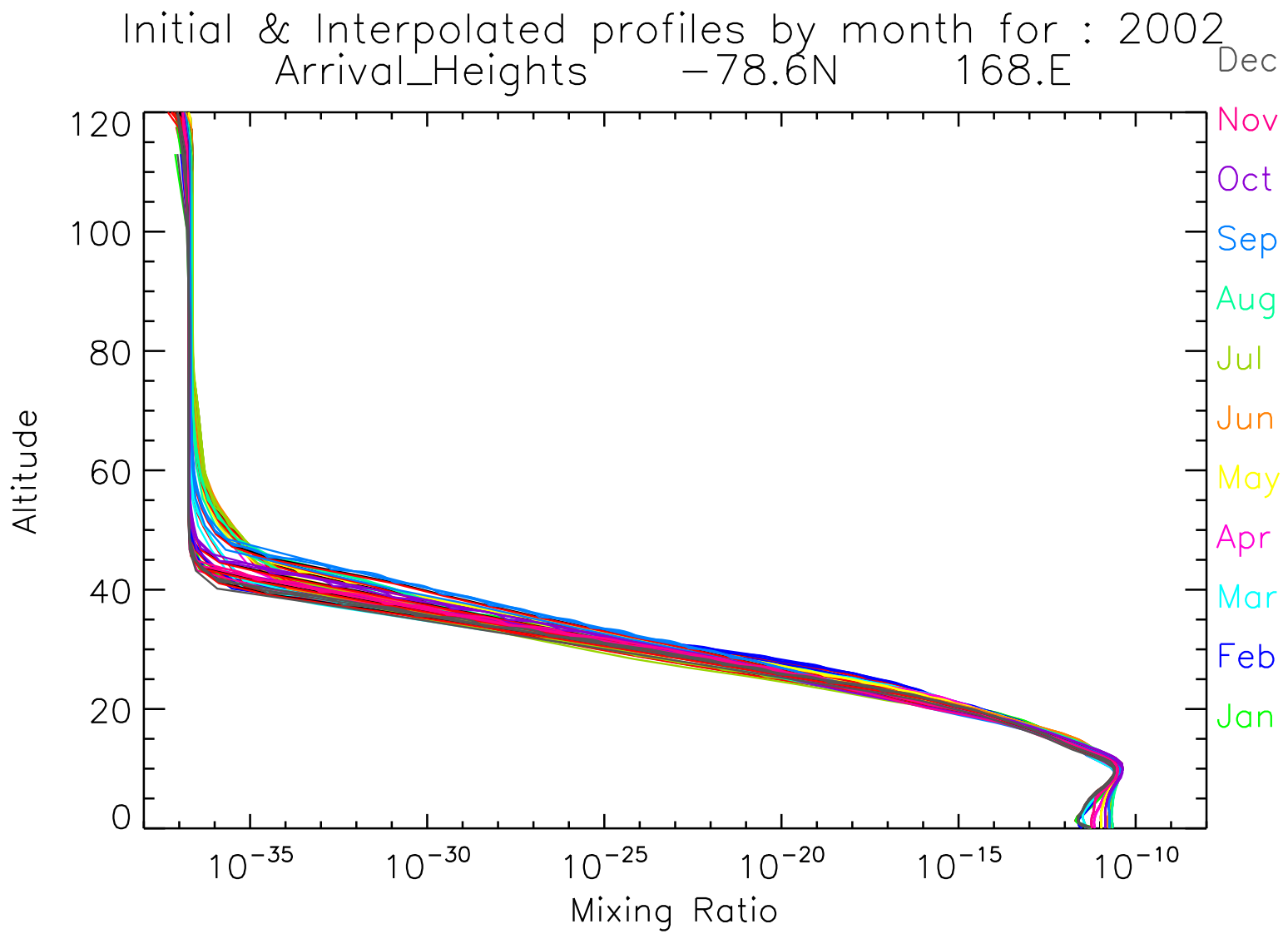
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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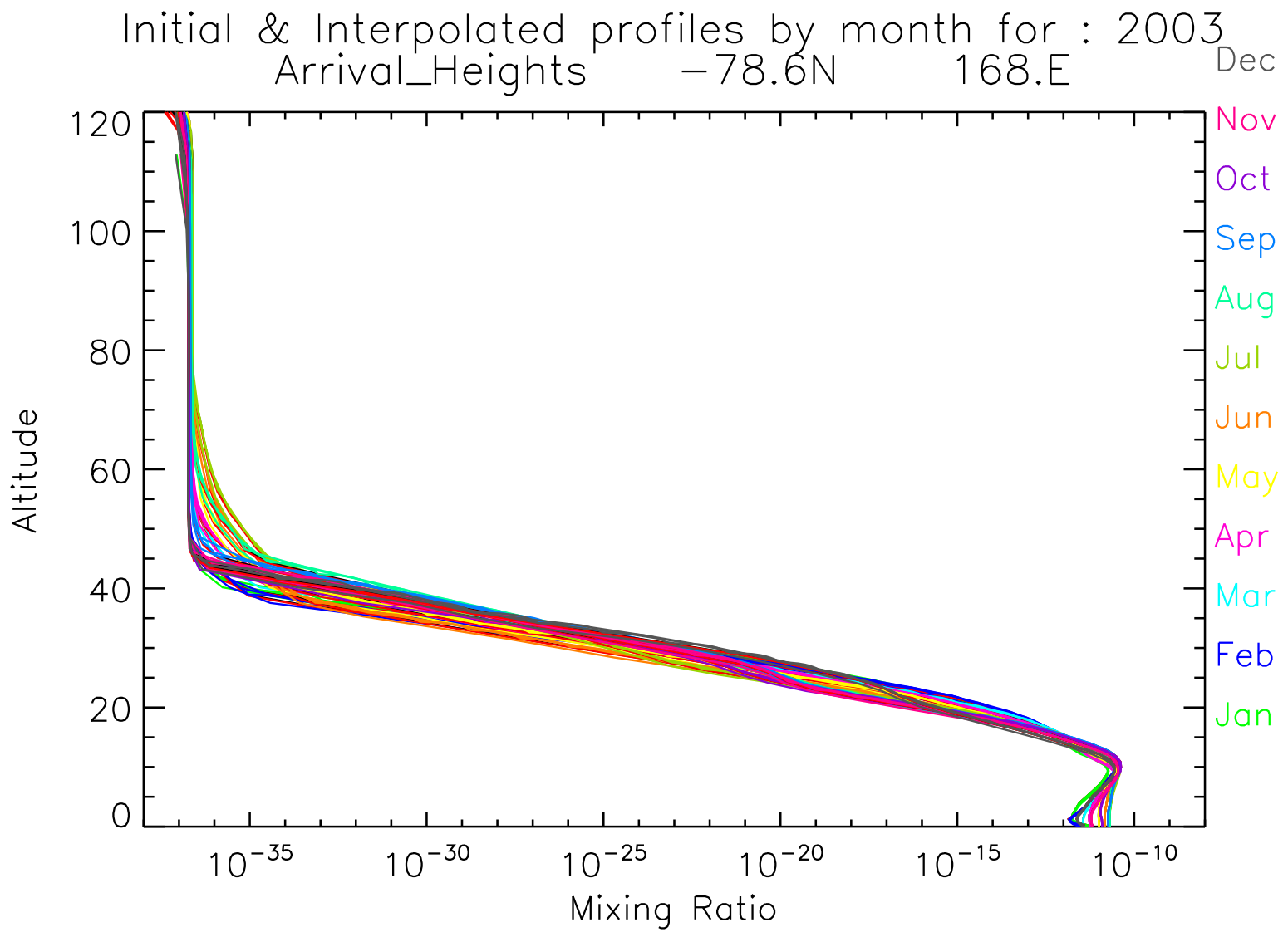
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Arrival_Heights −78.6N 168.E
Dec
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120
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Altitude
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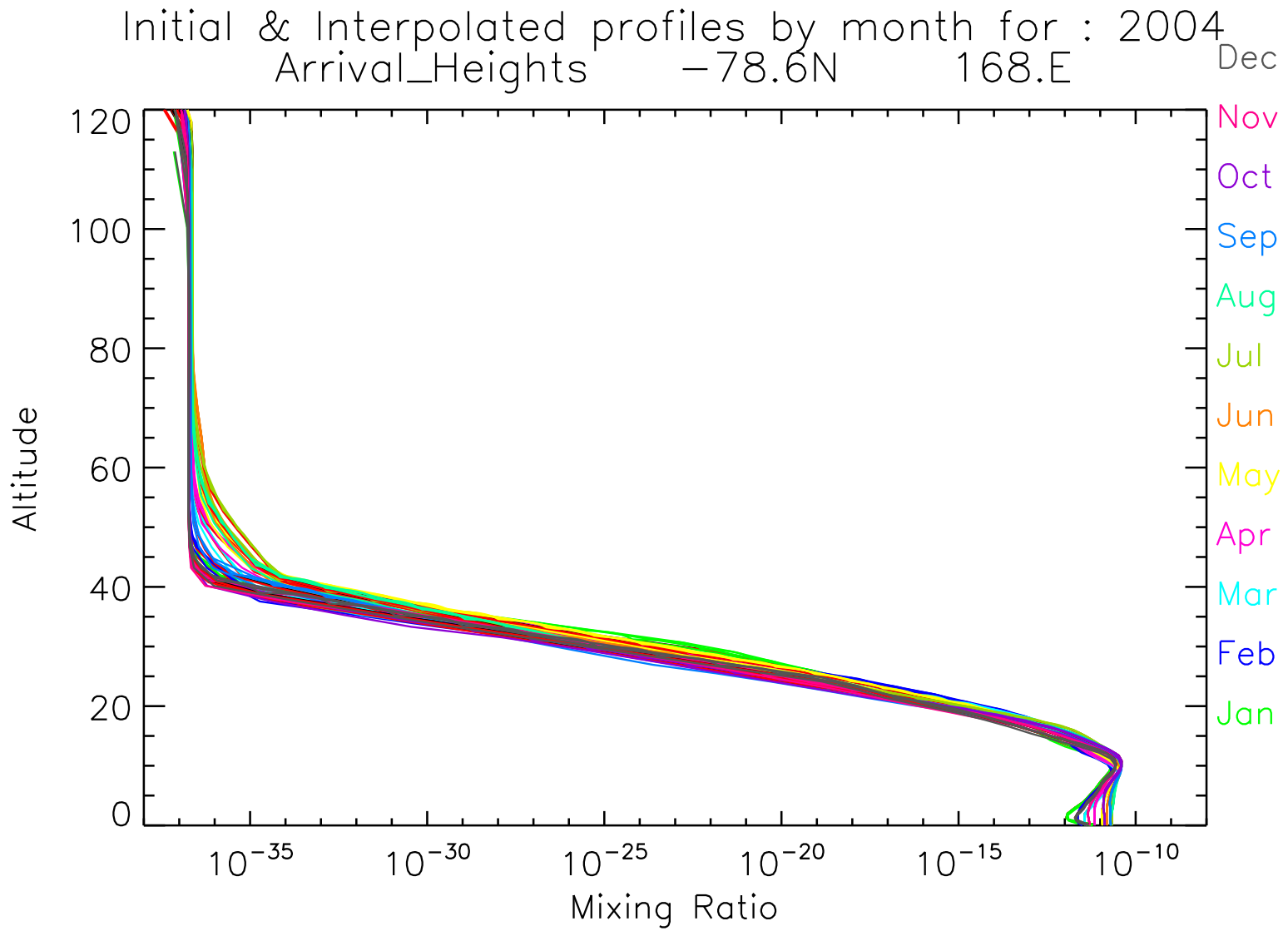
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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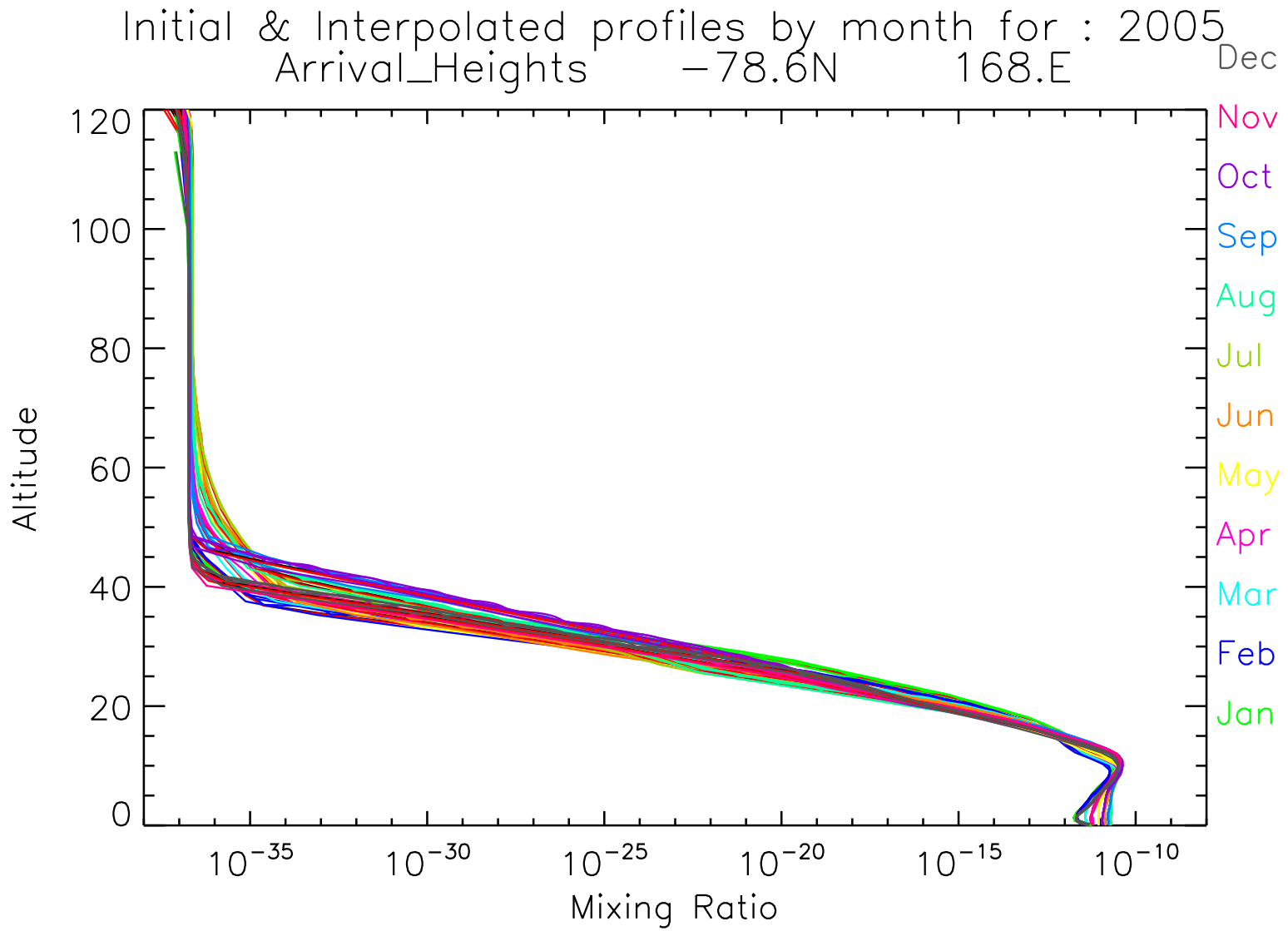
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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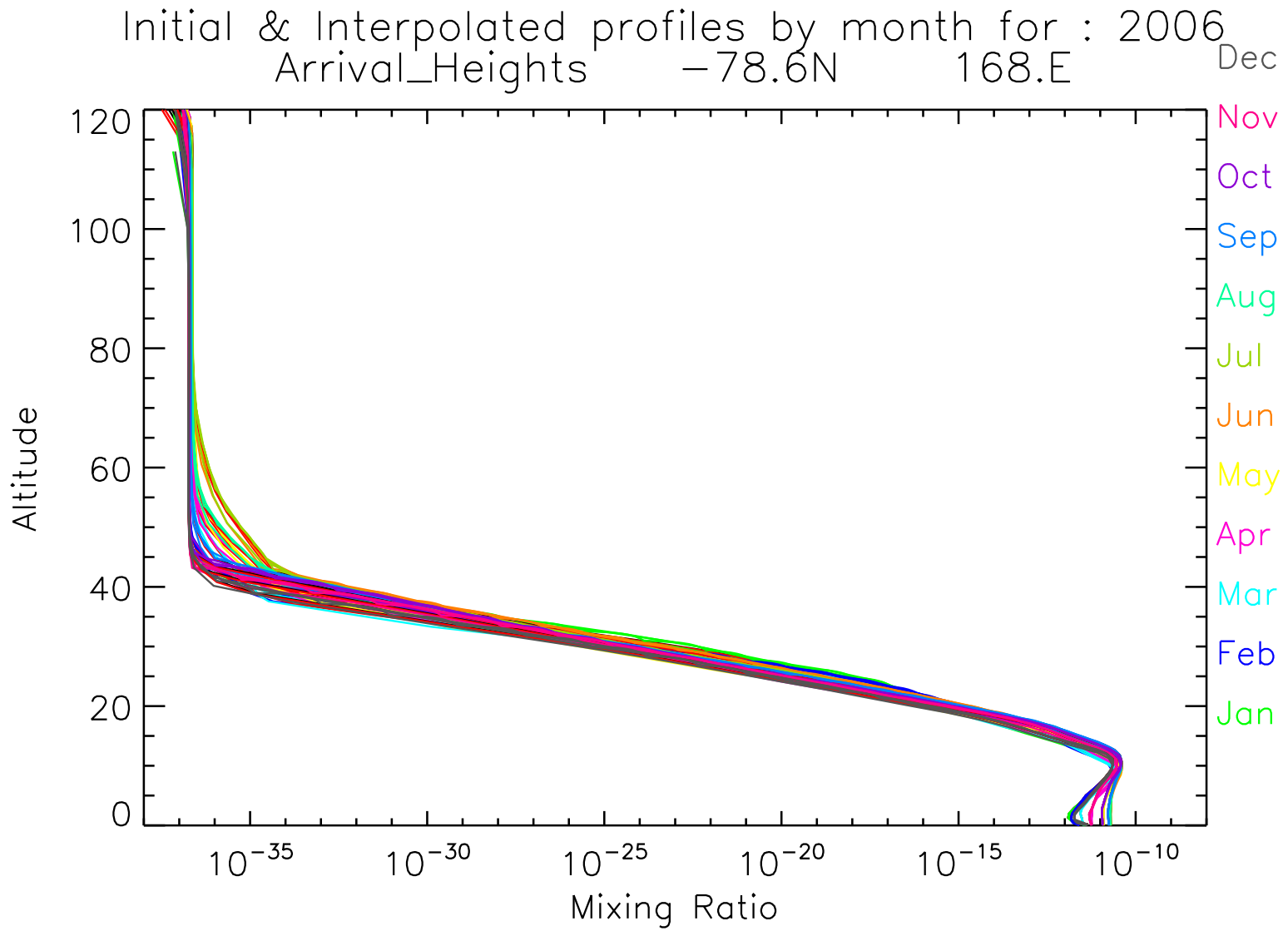
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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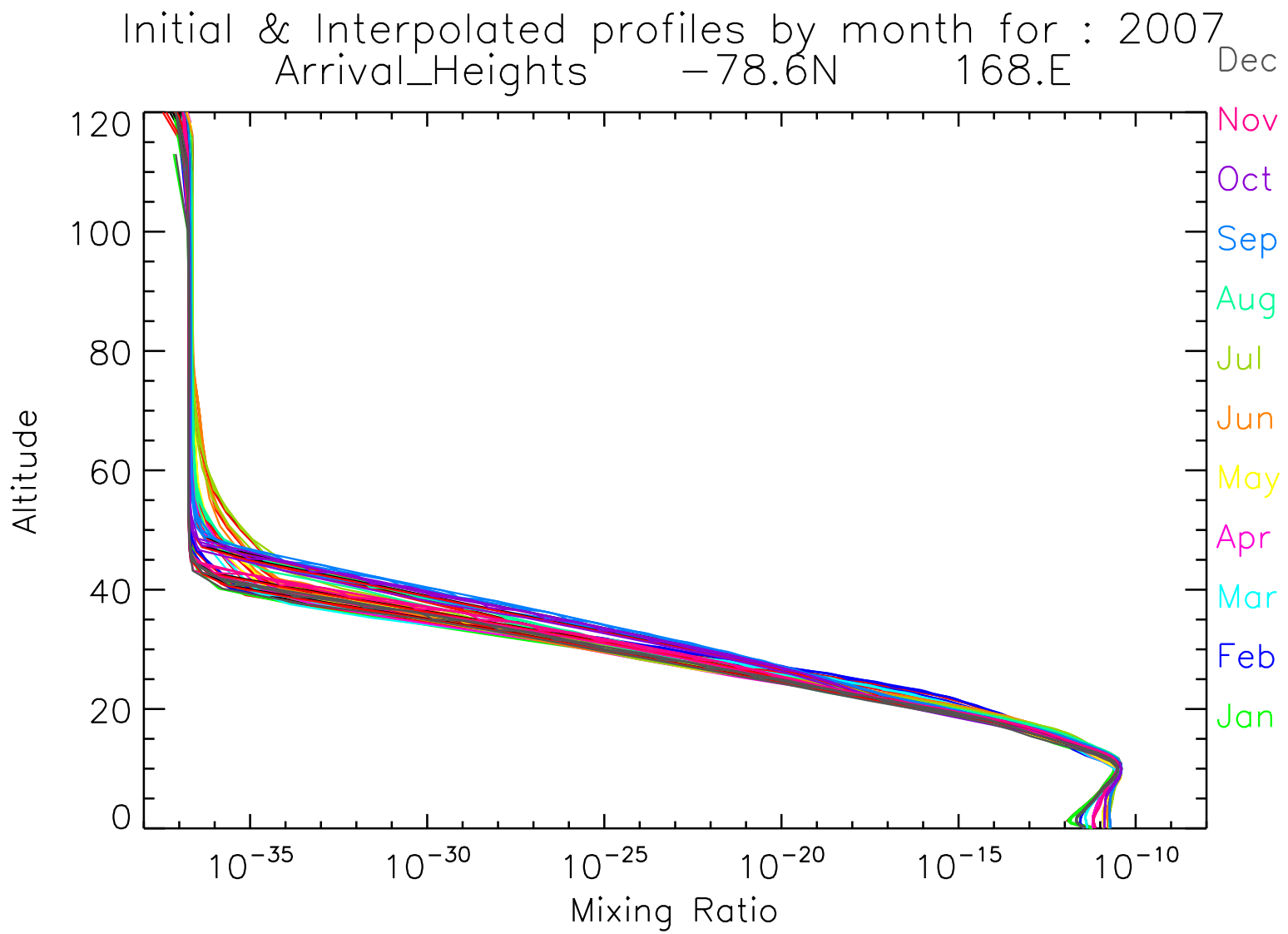
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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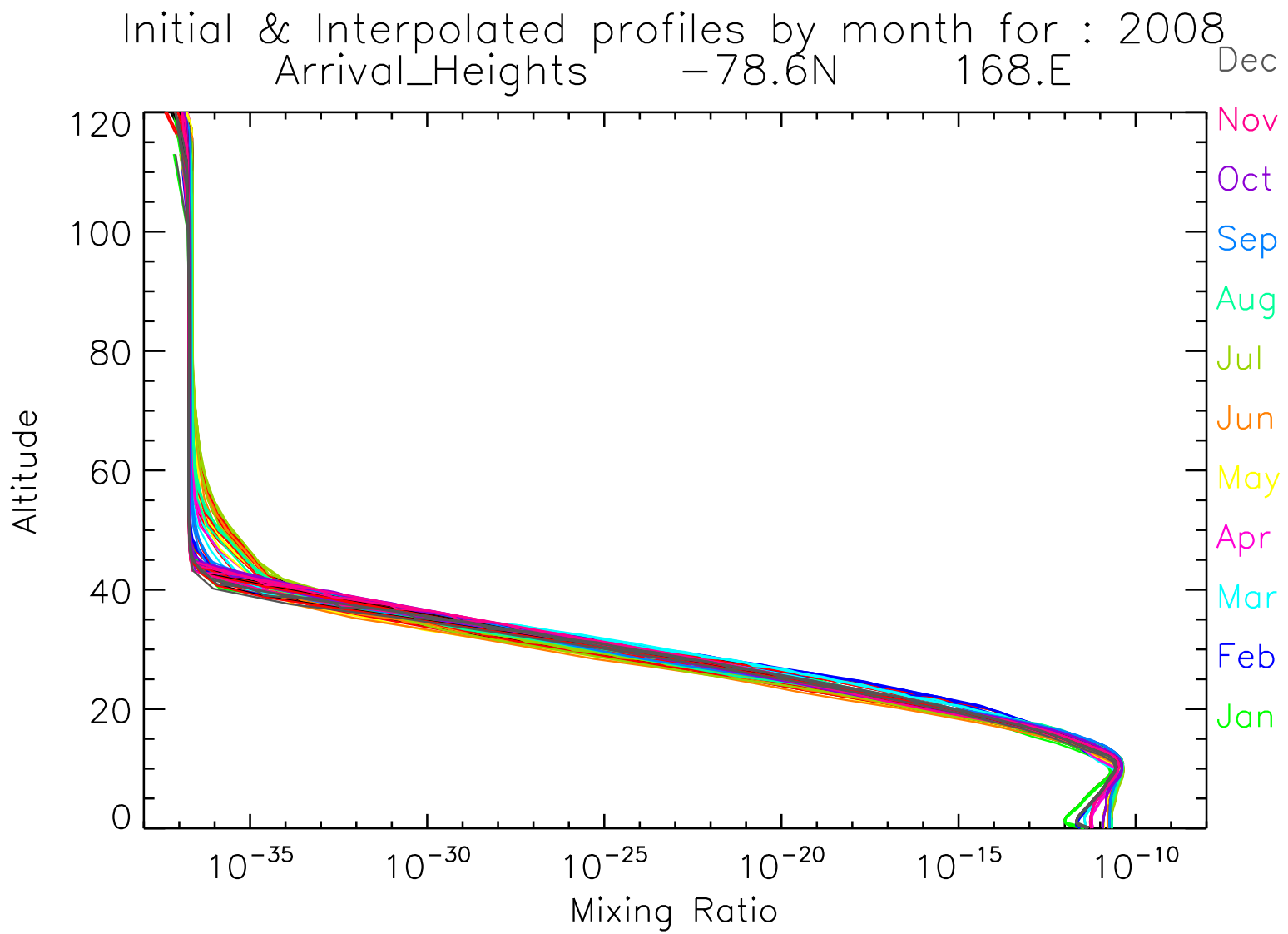
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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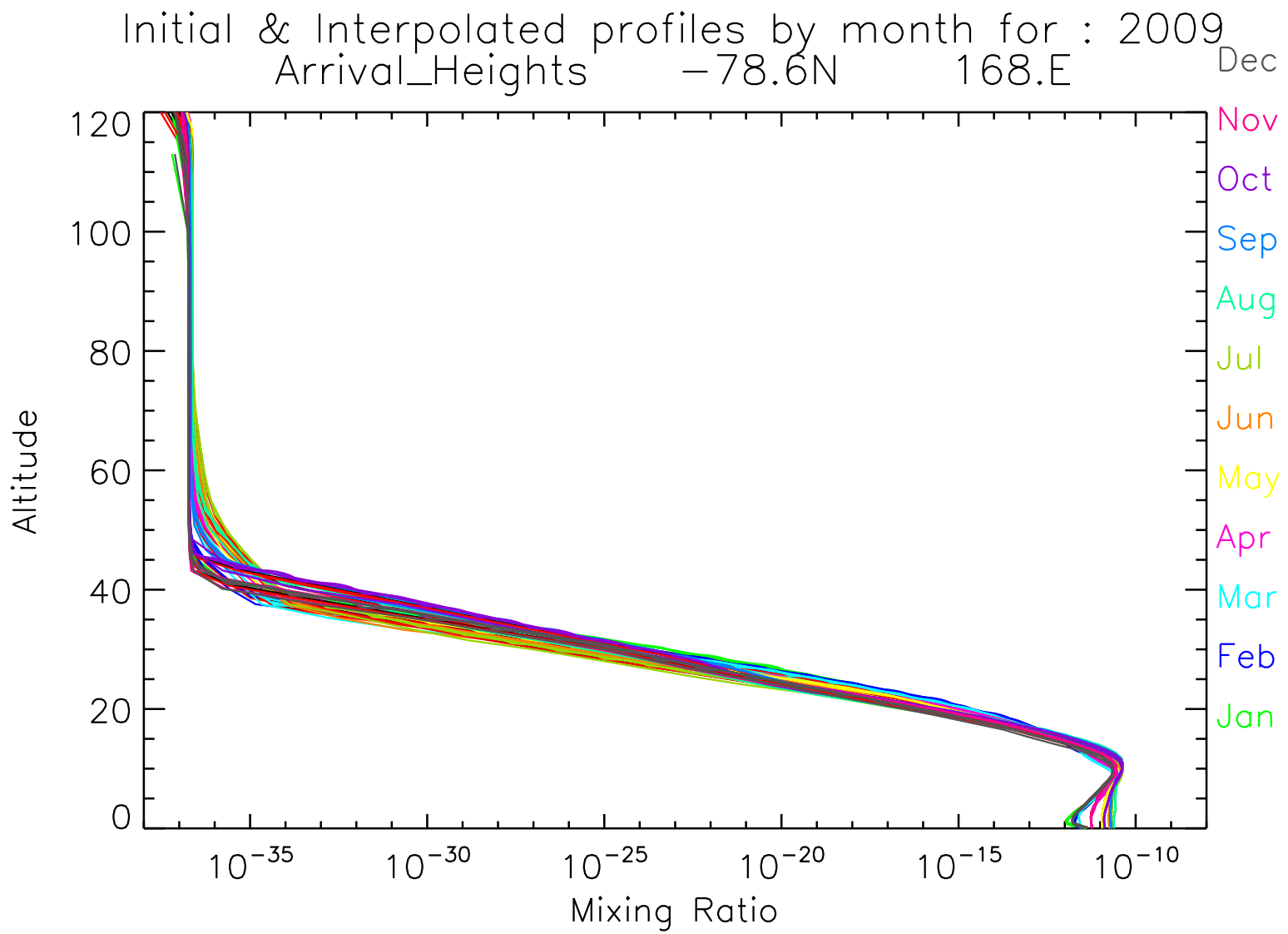
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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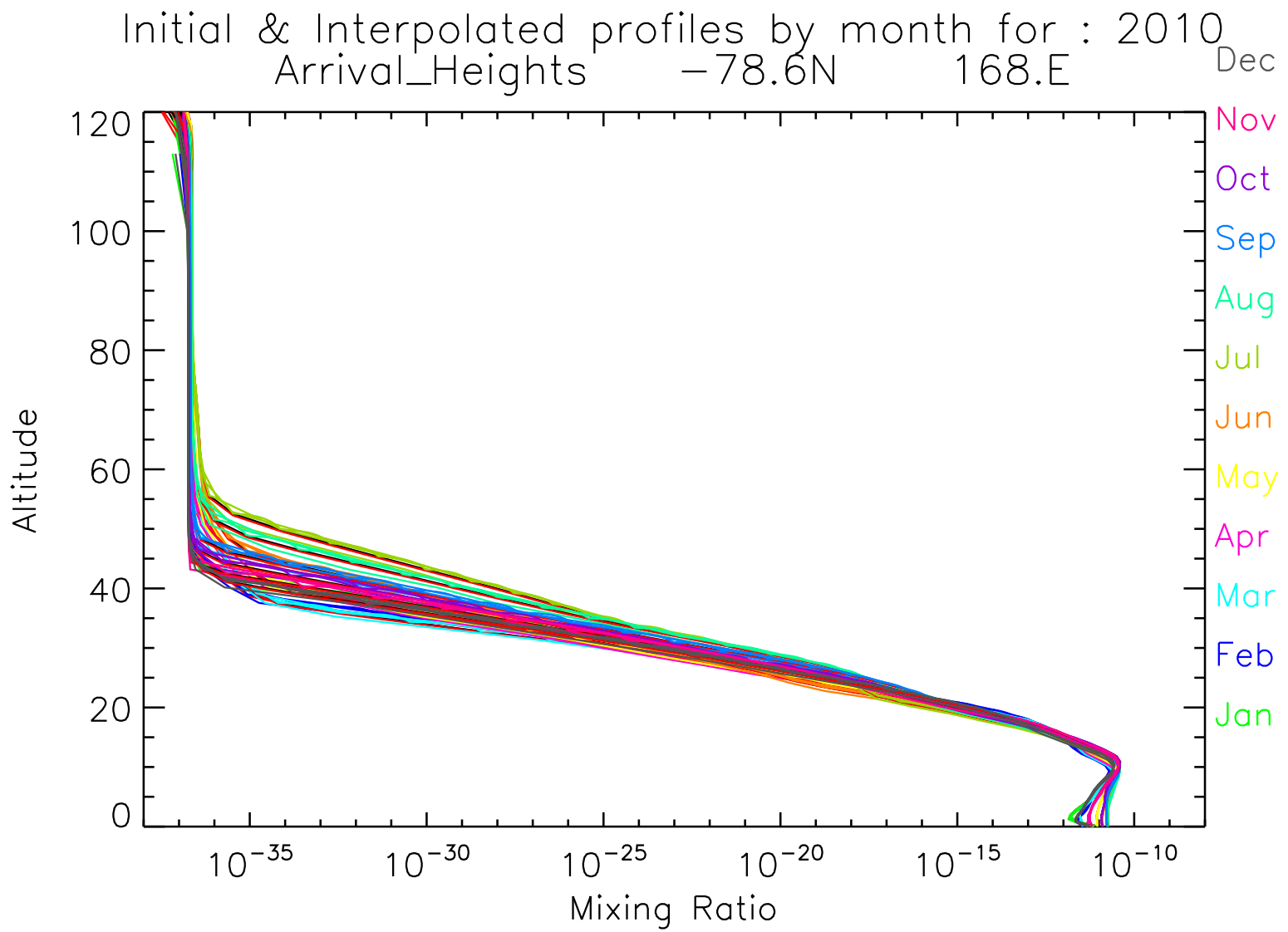
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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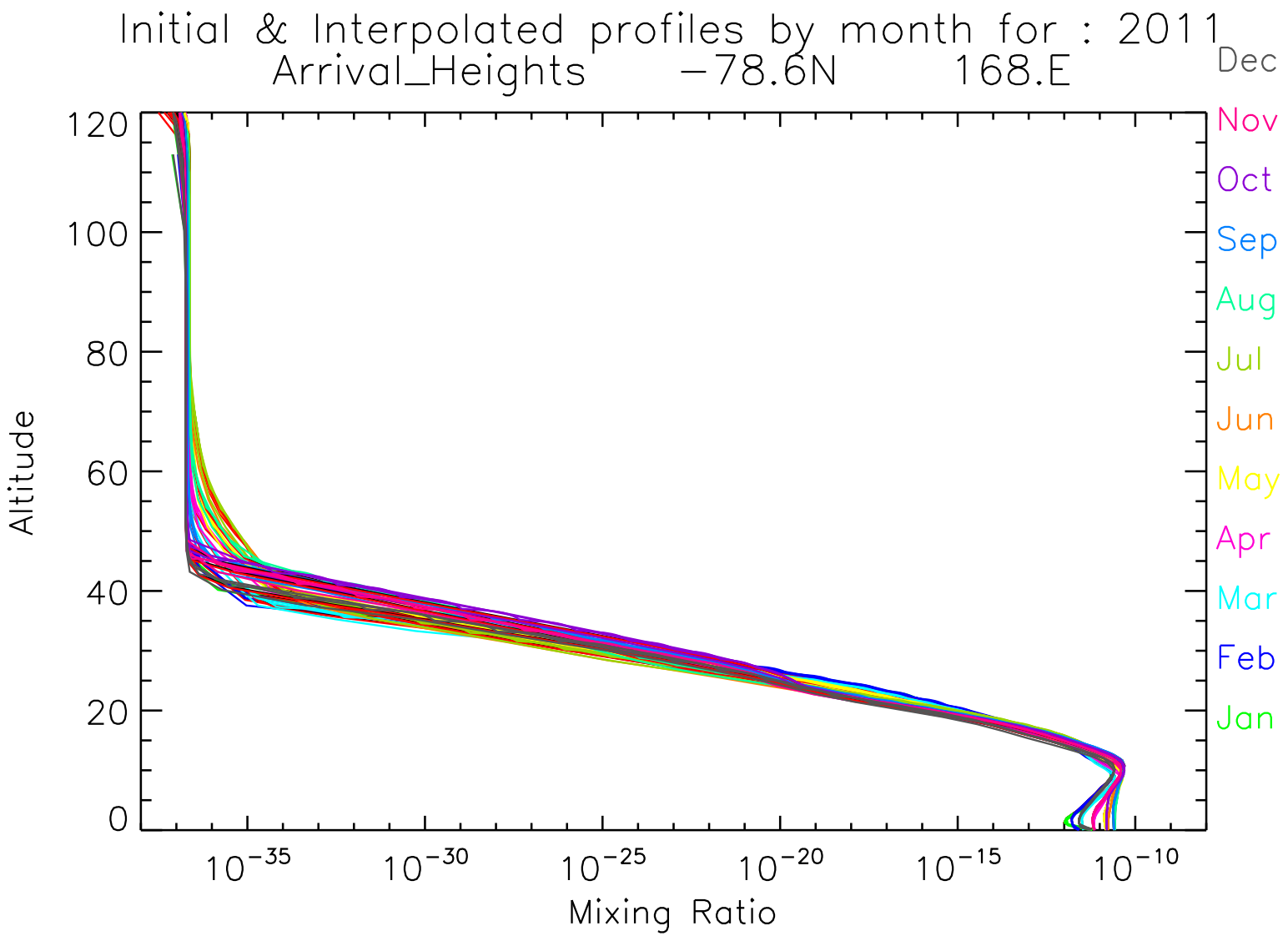
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Arrival_Heights −78.6N 168.E
Dec
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Altitude
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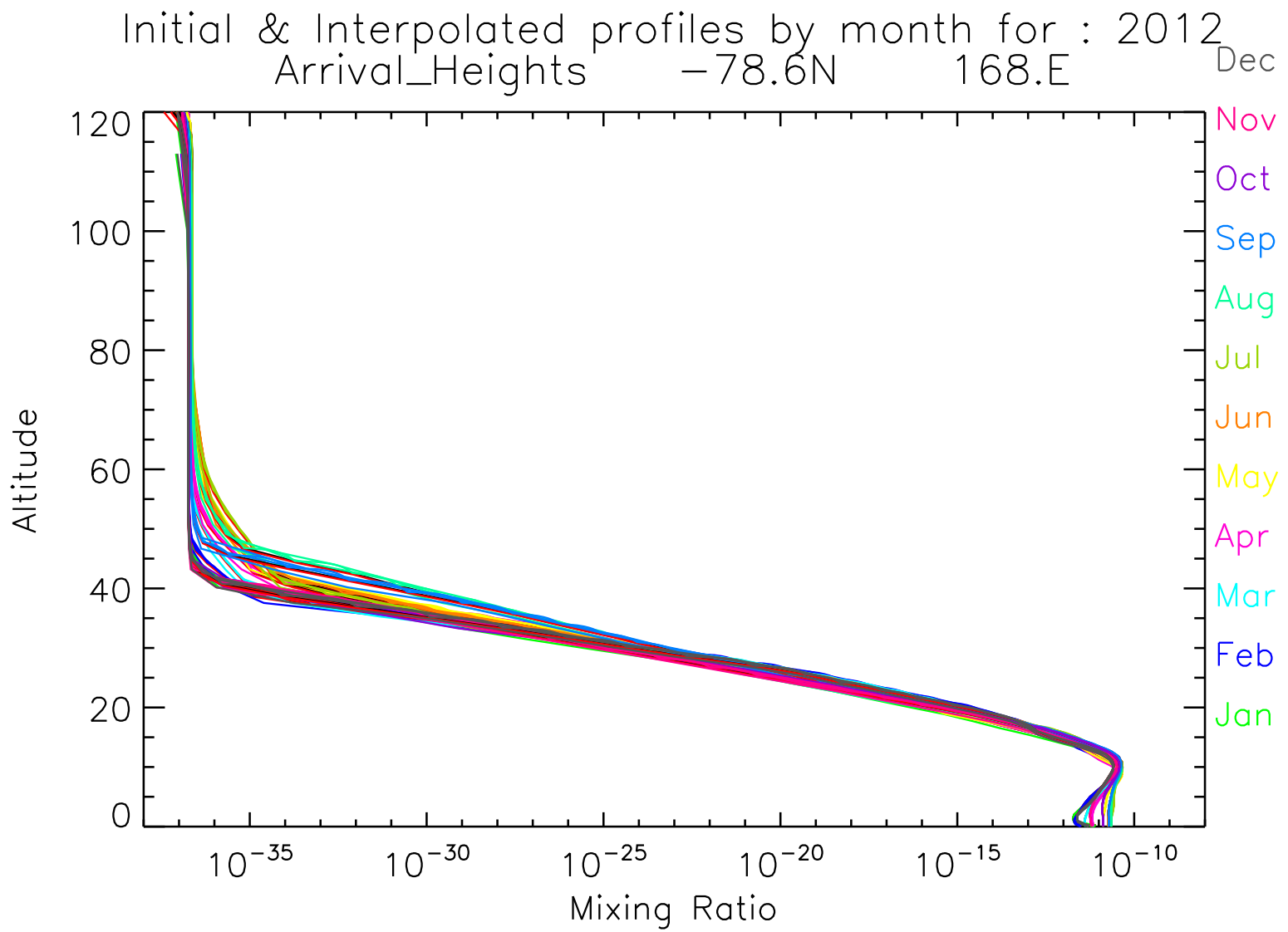
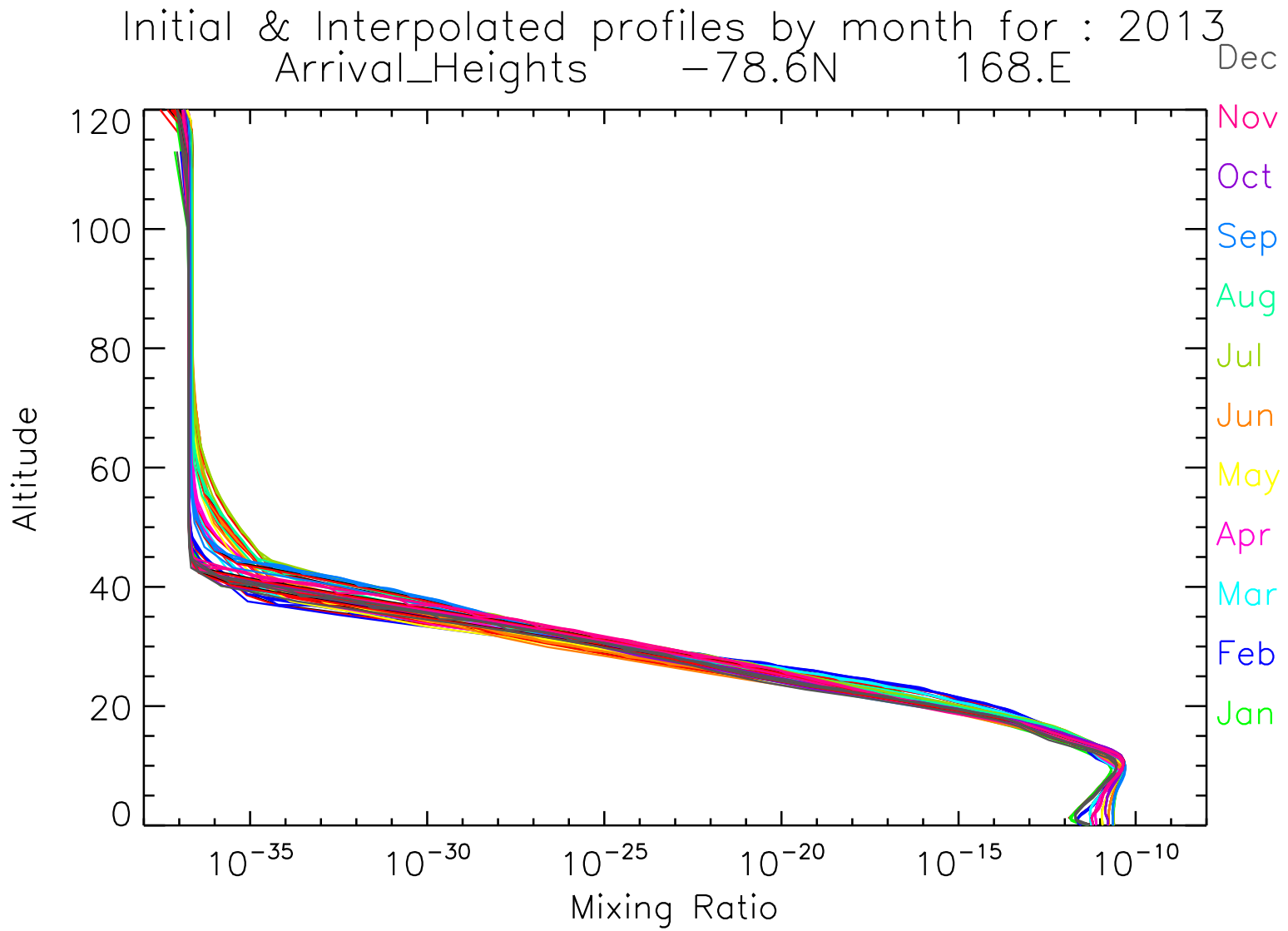
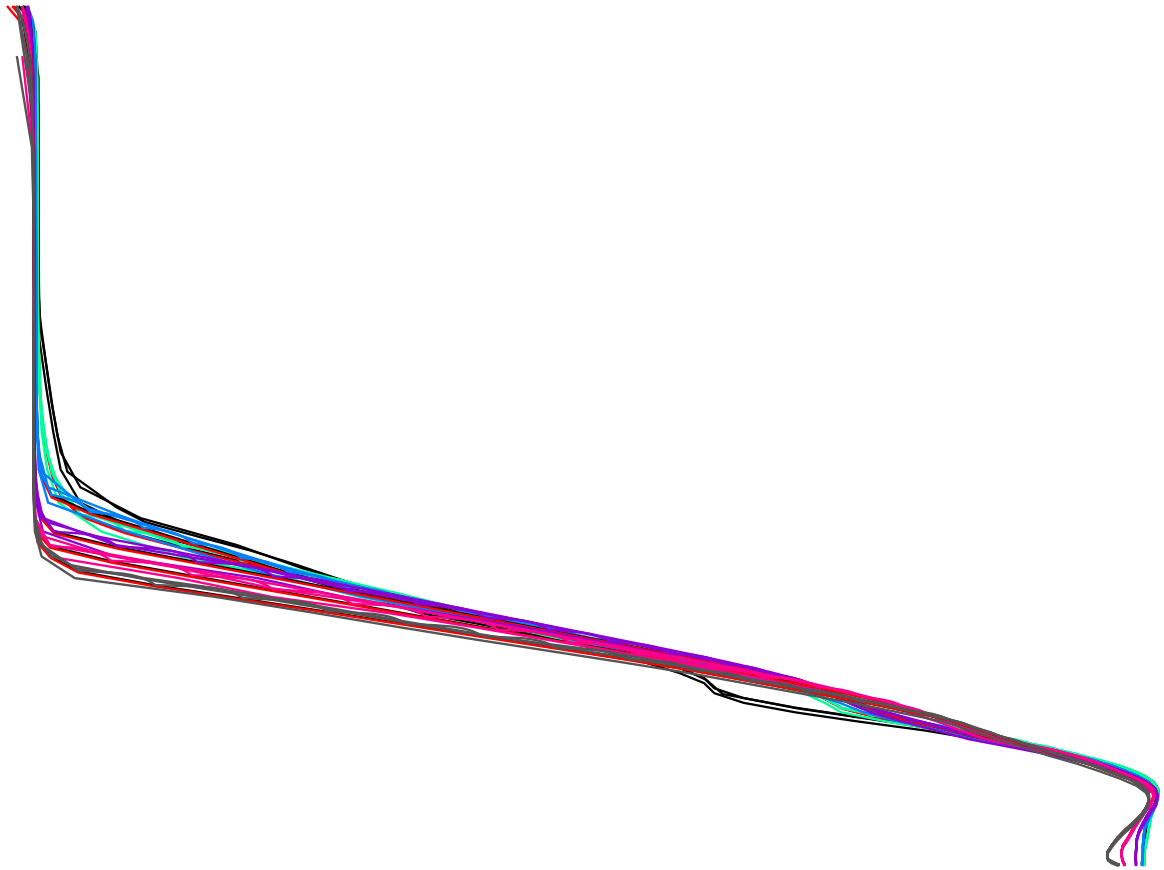
10^{-15}
10^{-10}
Mixing Ratio

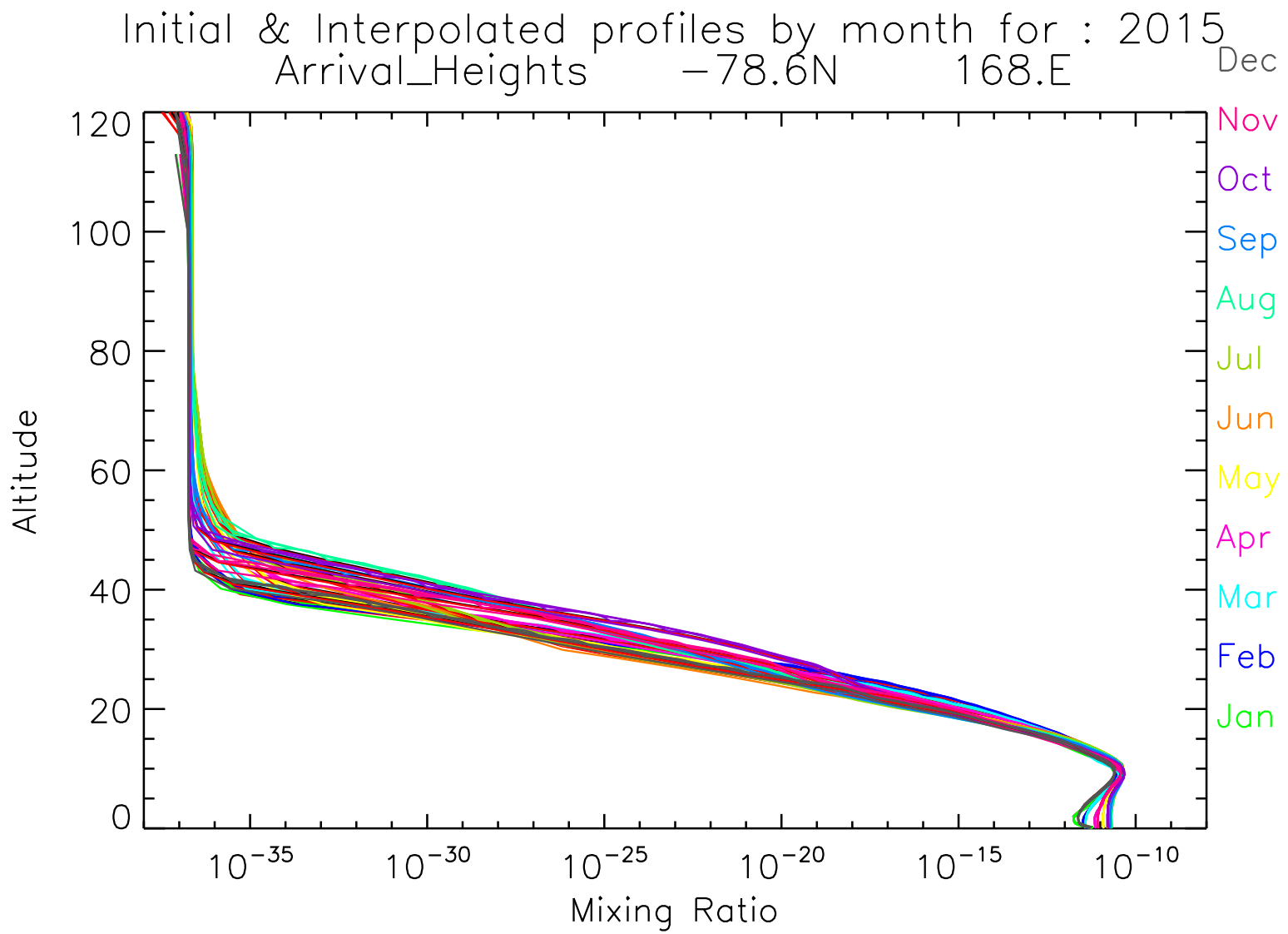

Initial & Interpolated profiles by month for : 2012
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

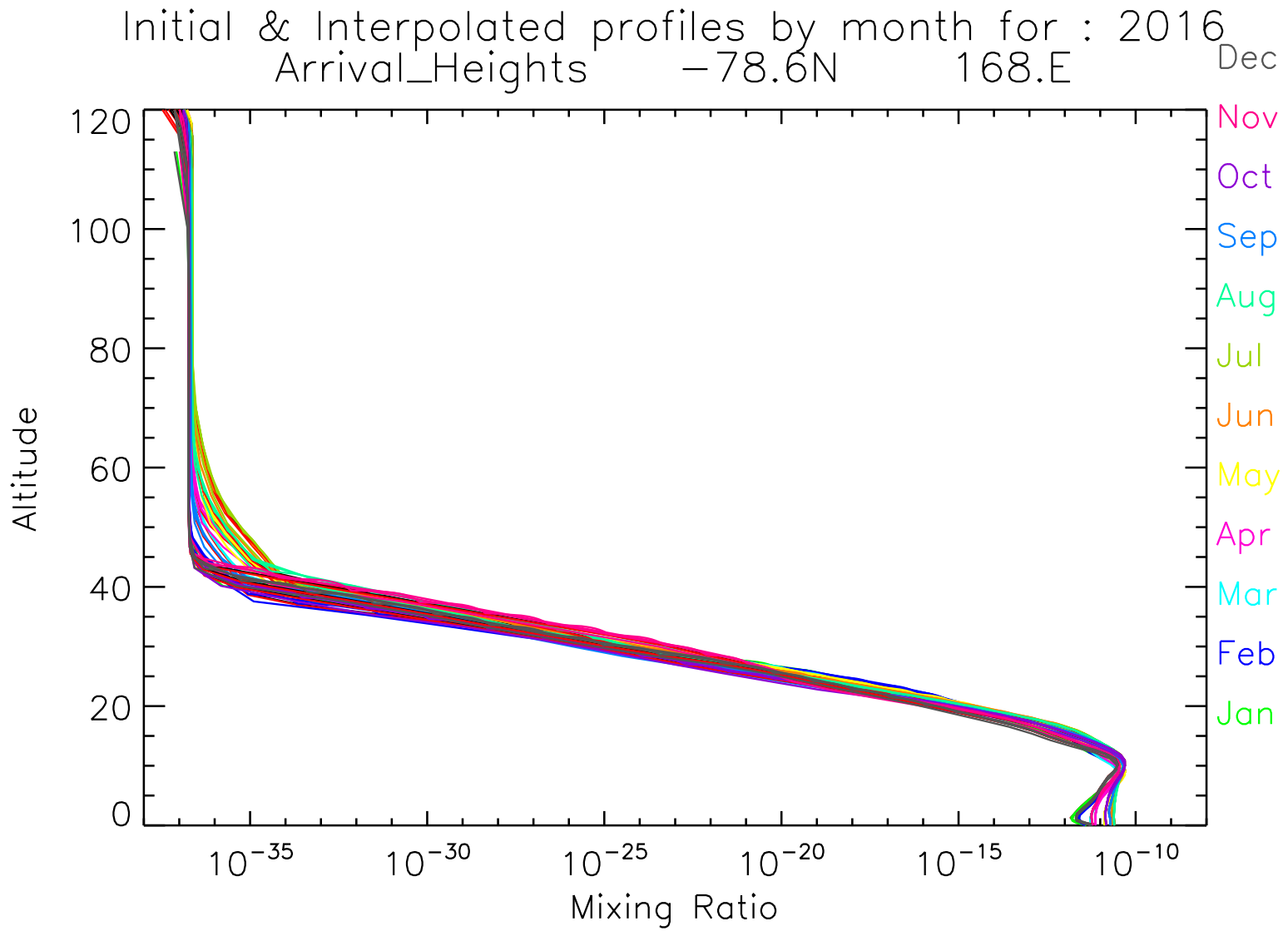

Initial & Interpolated profiles by month for : 2013
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

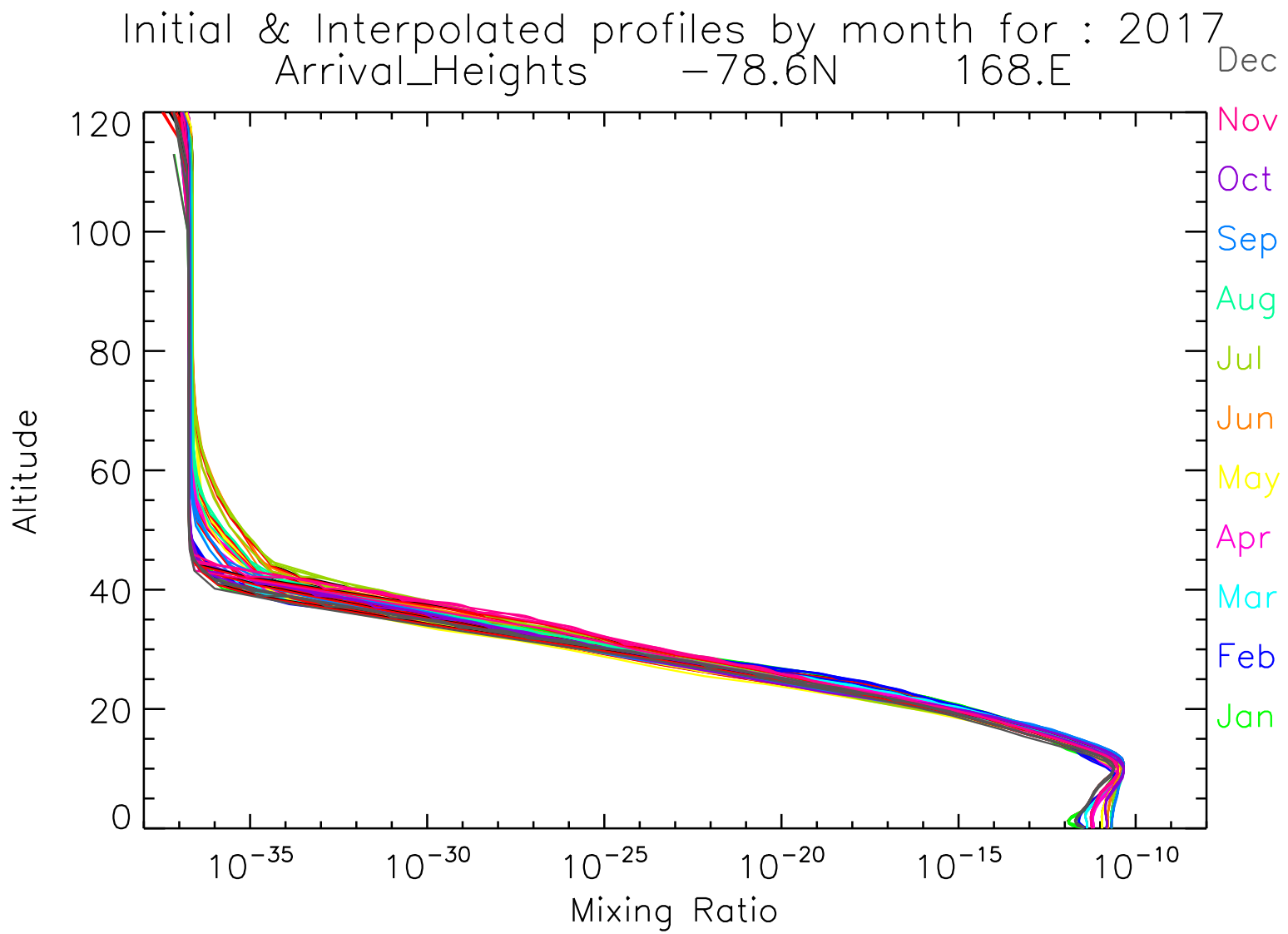
Initial & Interpolated profiles by month f

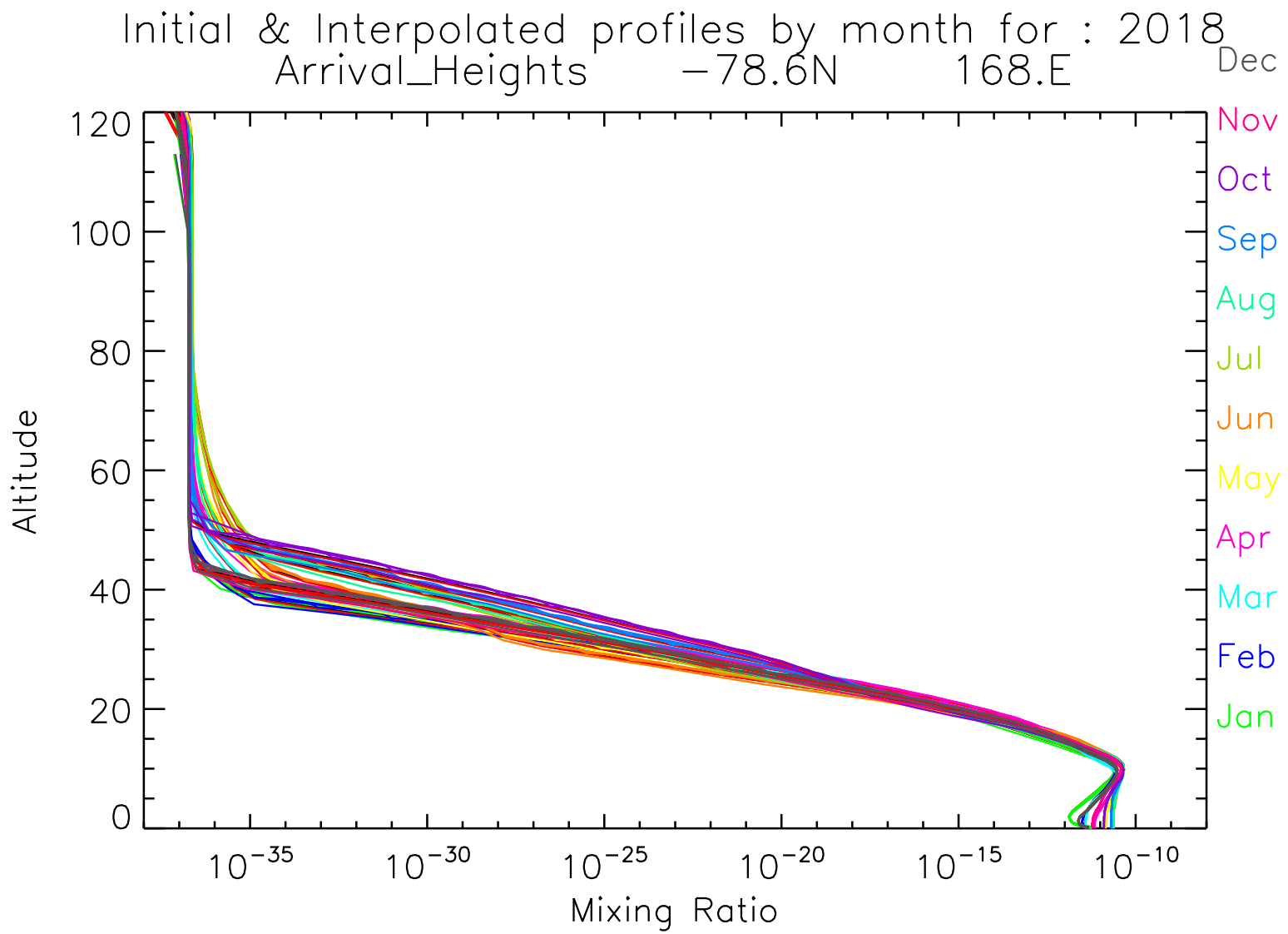


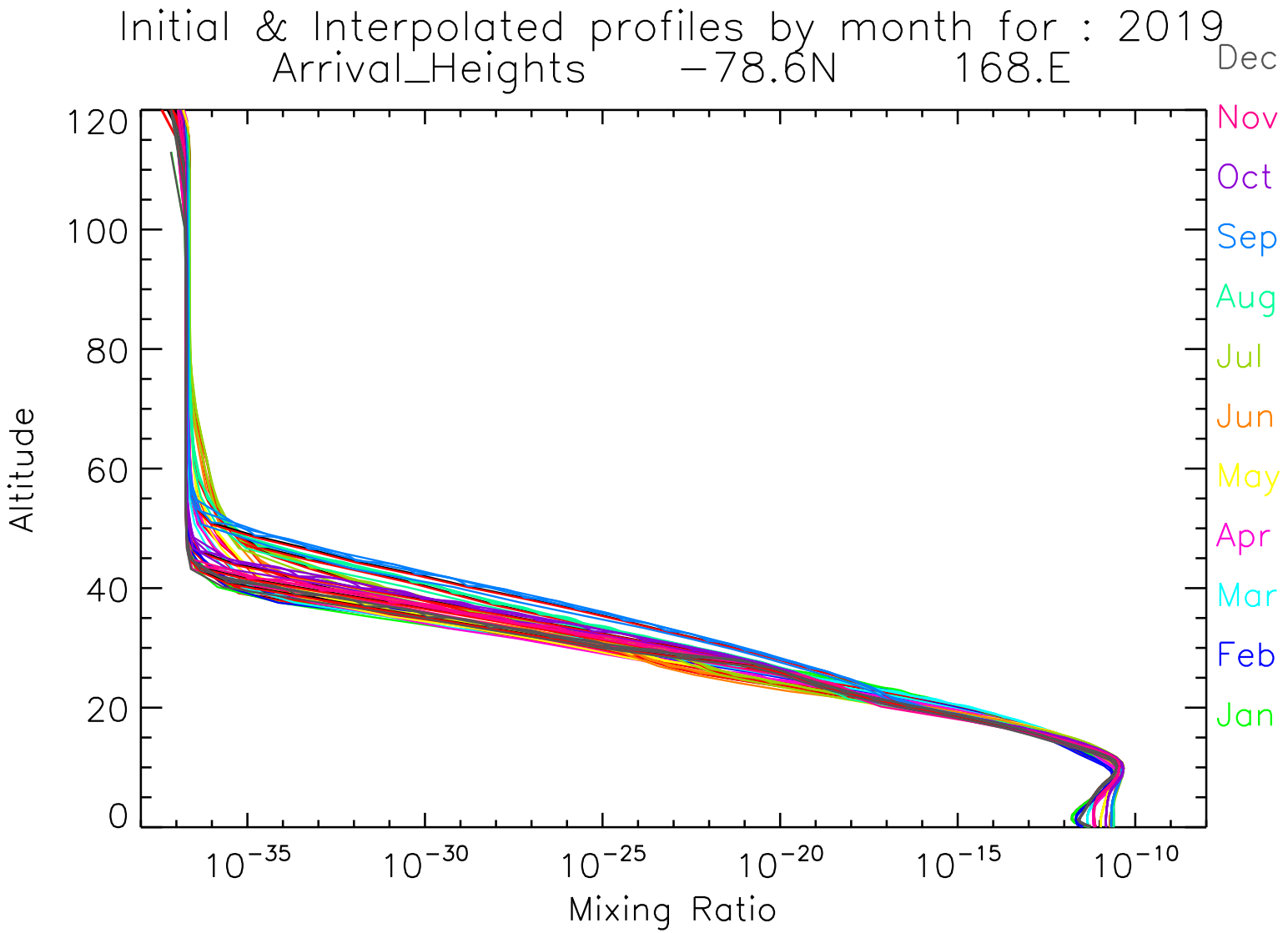
Dec
Nov
Oct
Sep
Aug
Jul

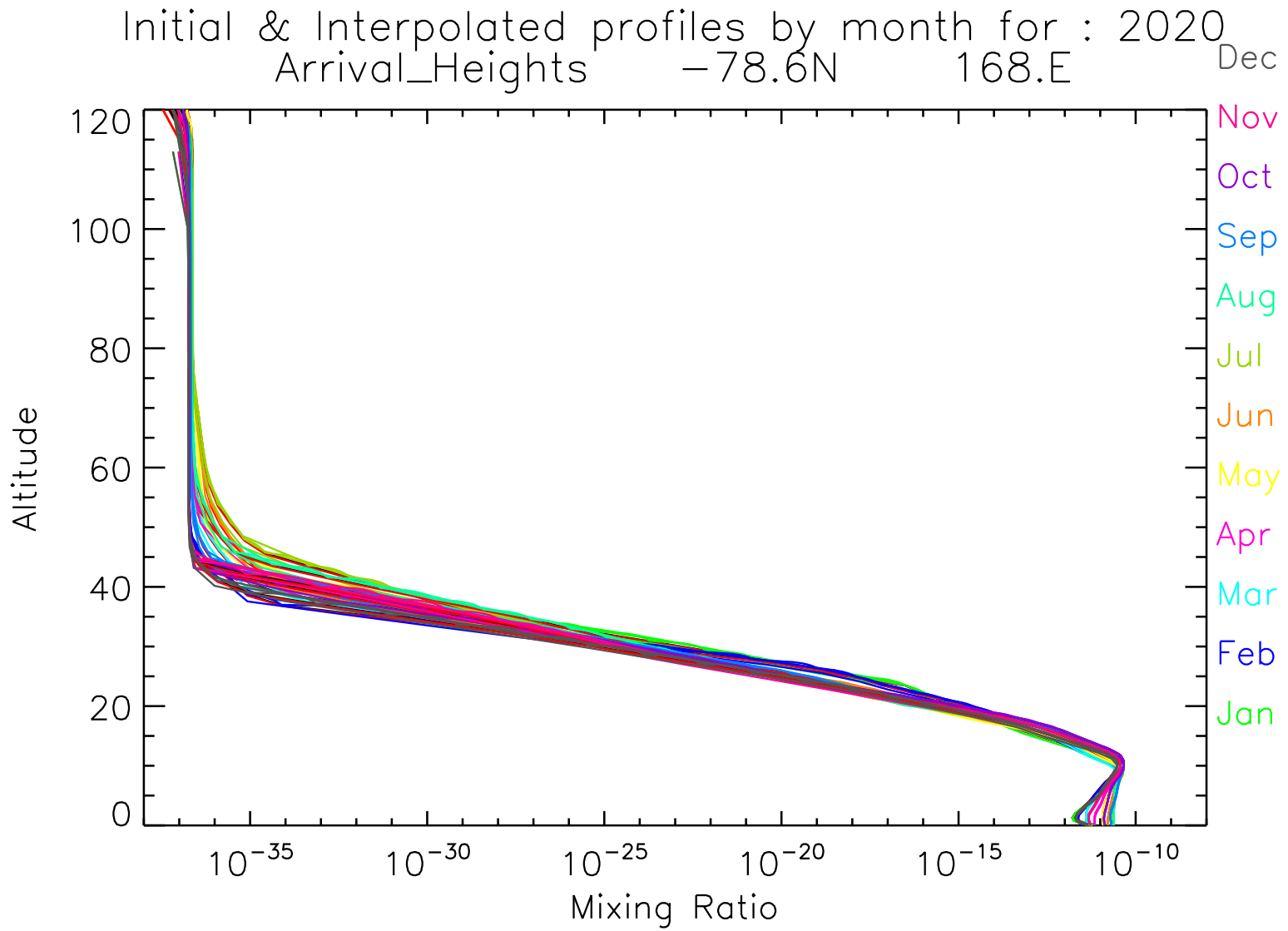

Initial & Interpolated profiles by month for : 2015
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

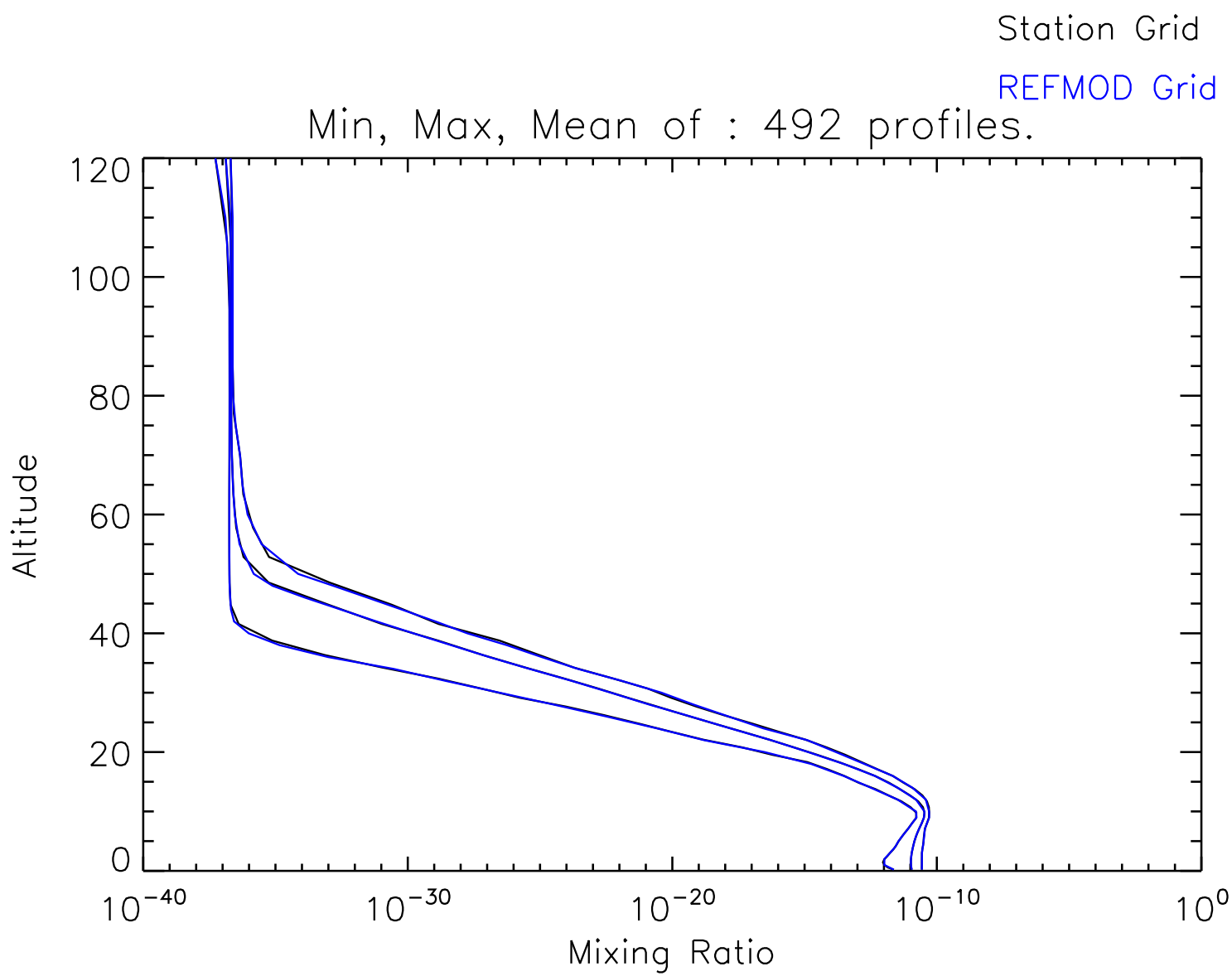

Initial & Interpolated profiles by month for : 2016
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

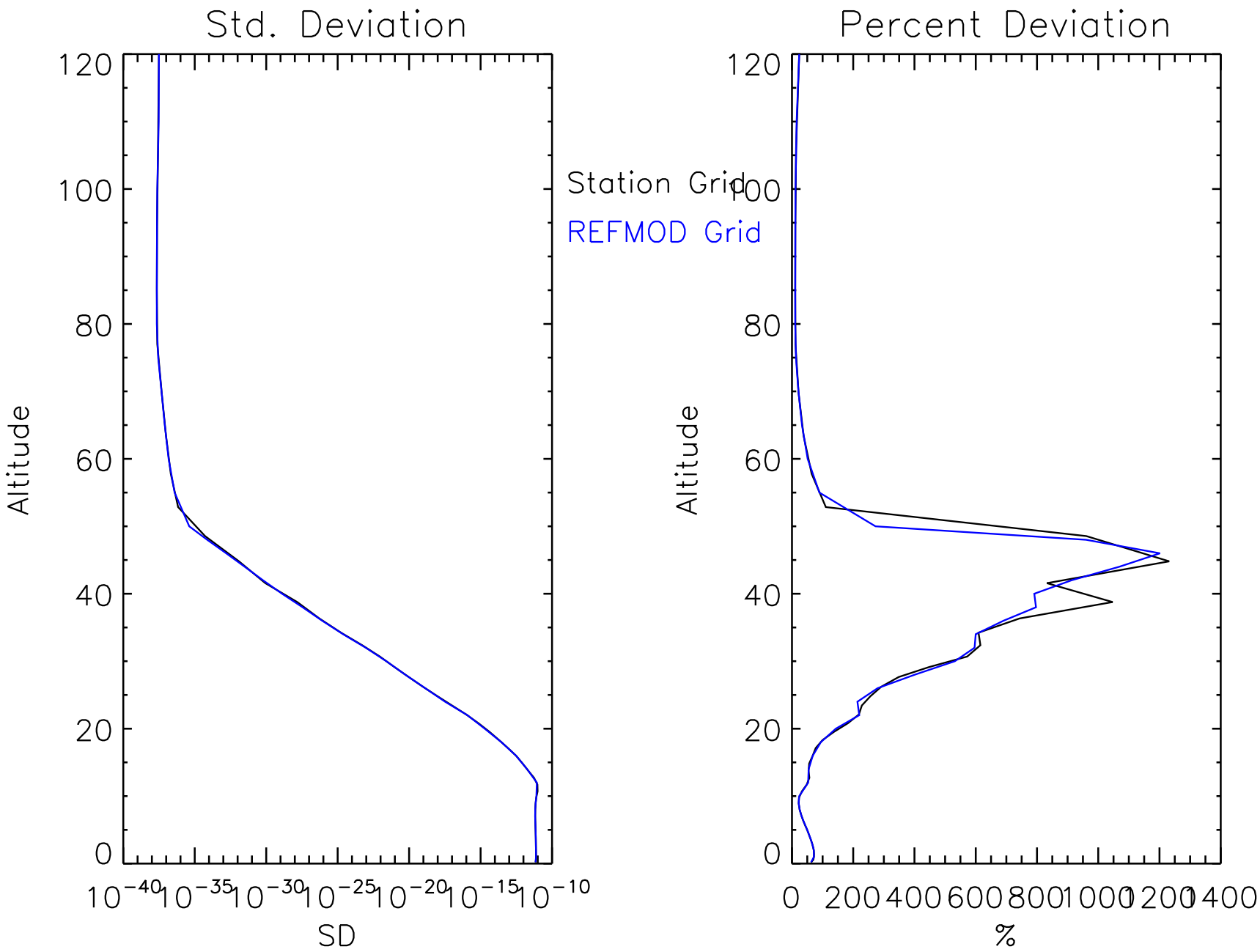

Initial & Interpolated profiles by month for : 2017
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

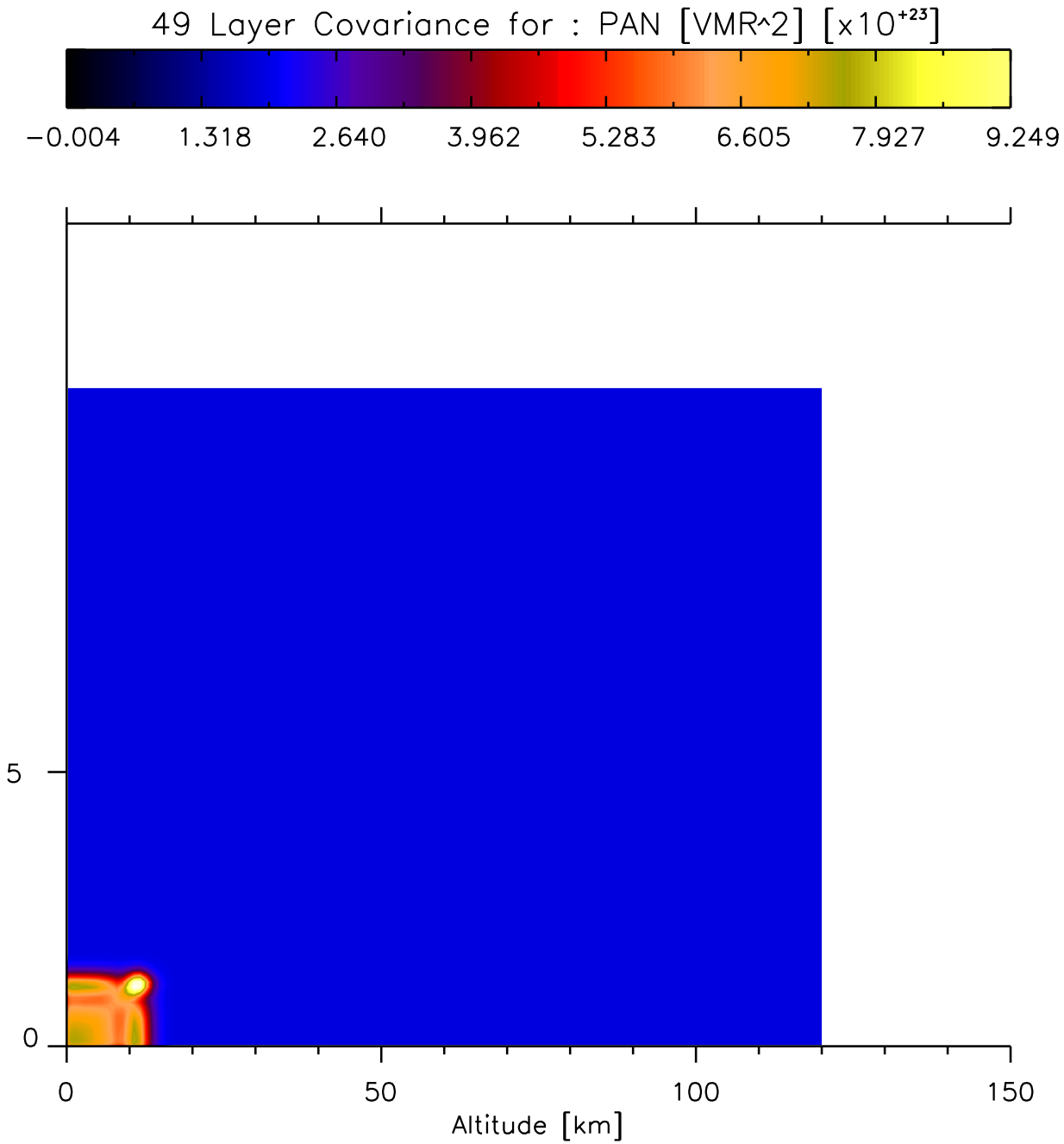

Initial & Interpolated profiles by month for : 2018
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

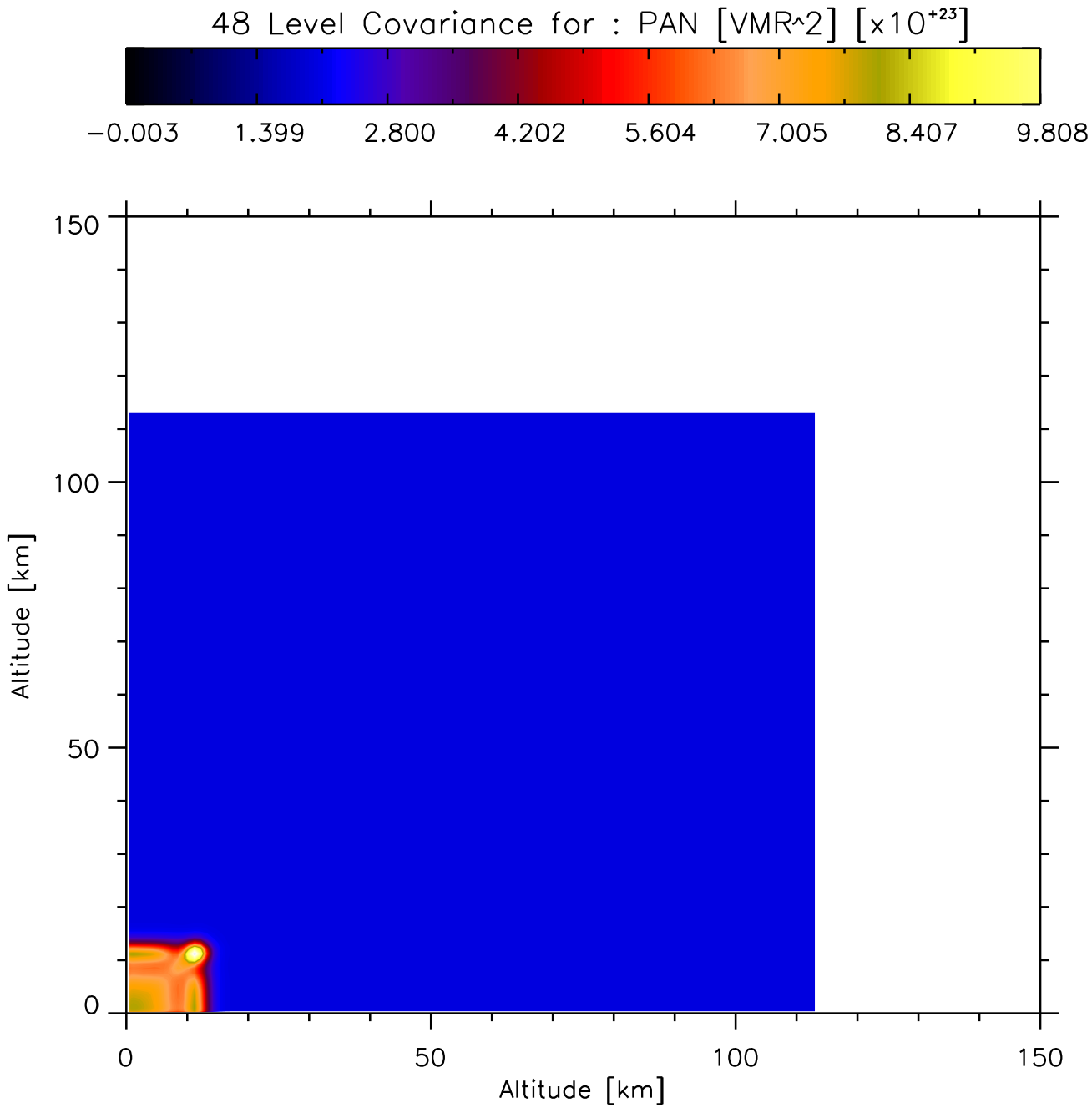

Initial & Interpolated profiles by month for : 2019
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

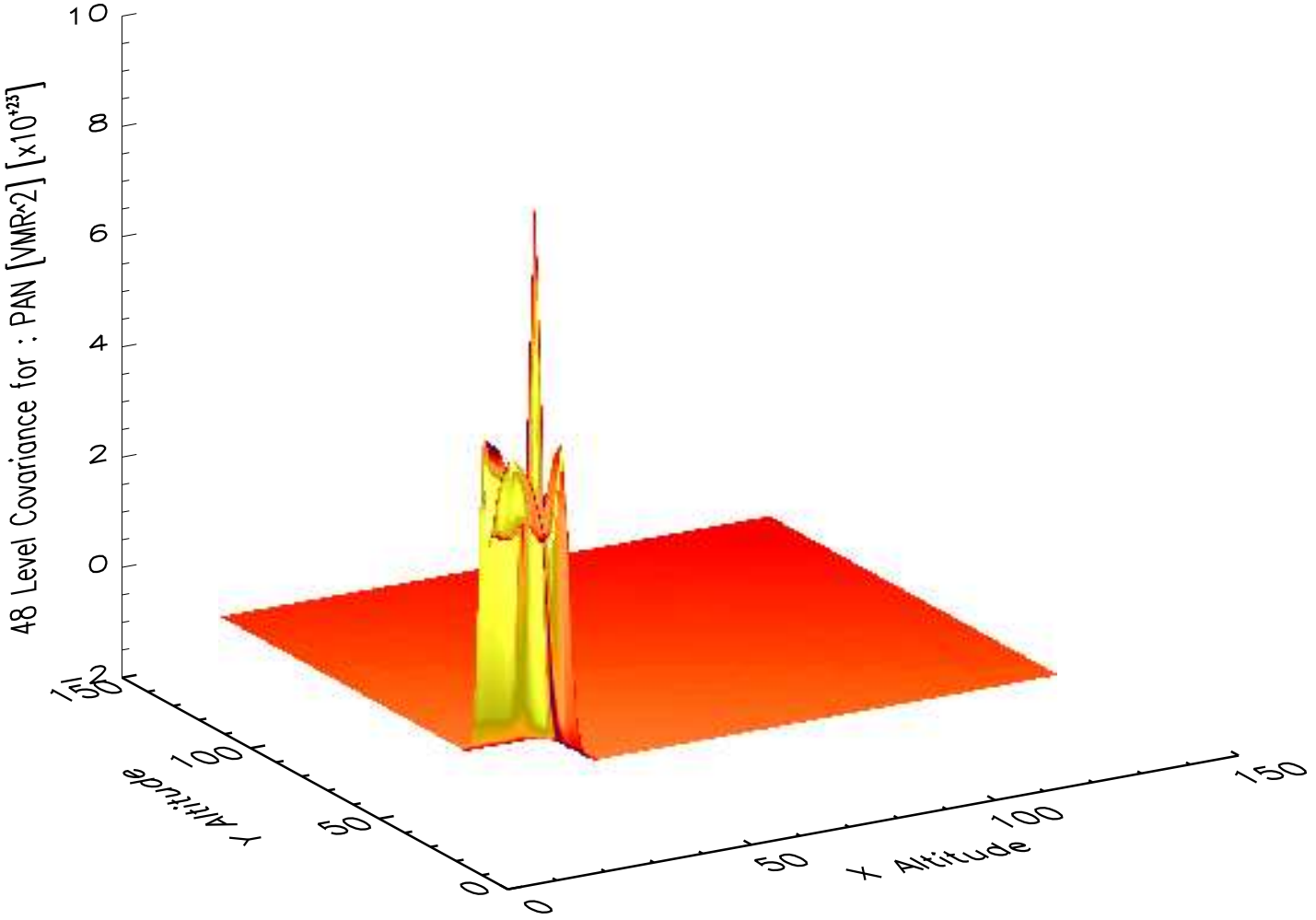

Initial & Interpolated profiles by month for : 2020
Arrival_Heights −78.6N 168.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


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


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-40} 10^{-35} 10^{-30} 10^{-25} 10^{-20} 10^{-15} 10^{-10}
SD
0 200 400 600 800 1000 1200 1400
%


49 Layer Covariance for : PAN [VMR^2] [x10^+23]
−0.004
1.318
2.640
3.962
5.283
6.605
7.927
9.249
5
0
0
50
100
150
Altitude [km]


48 Level Covariance for : PAN [VMR^2] [x10^+23]
−0.003
1.399
2.800
4.202
5.604
7.005
8.407
9.808
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Level Covariance for : PAN [VMR^2] [x10^+23]
10
8
6
4
2
0
-2
150
100
50
0
Y Altitude
0
50
100
150
X Altitude