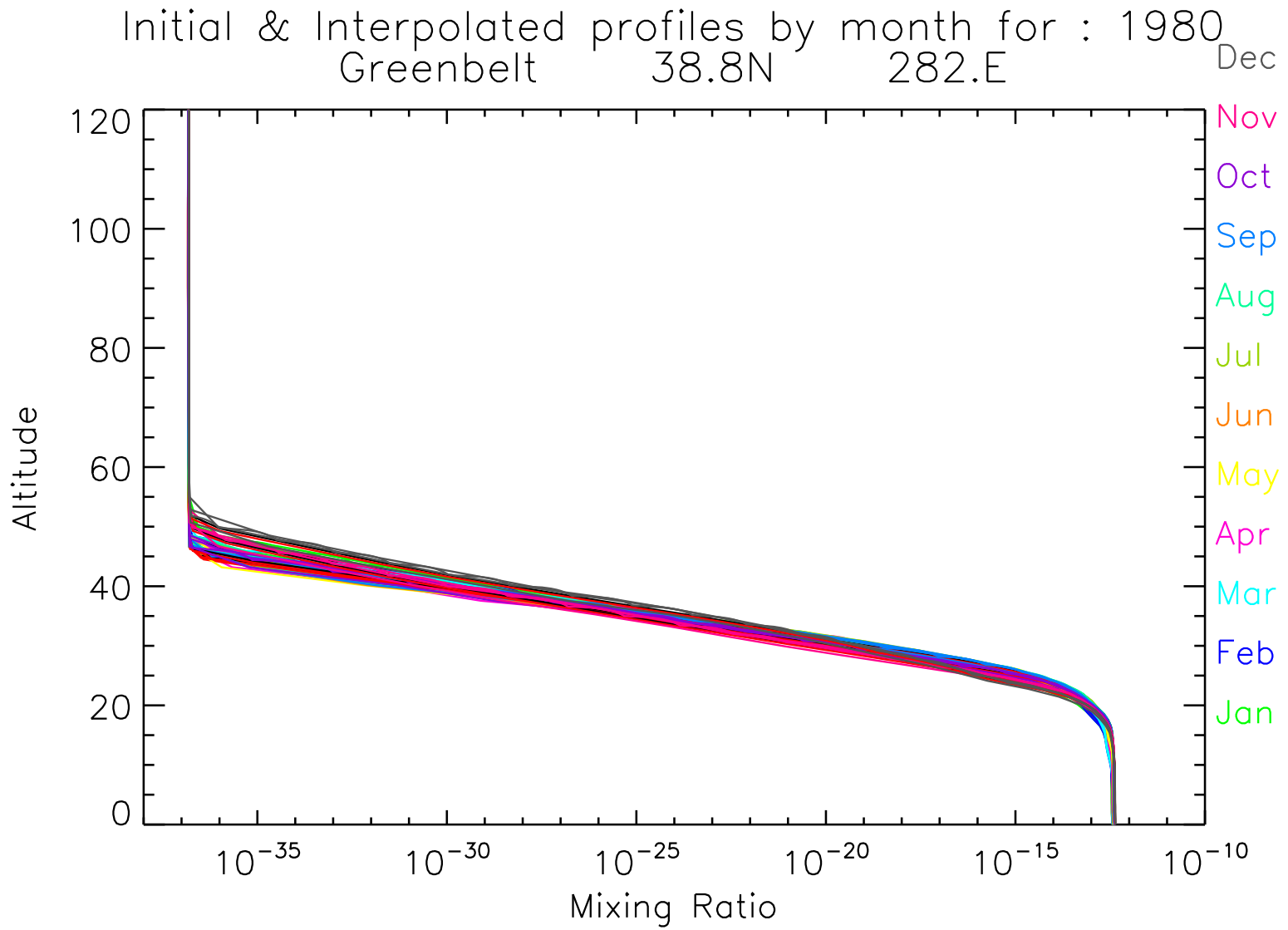
Initial & Interpolated profiles by month for : 1980
Greenbelt 38.8N 282.E
Dec
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Altitude
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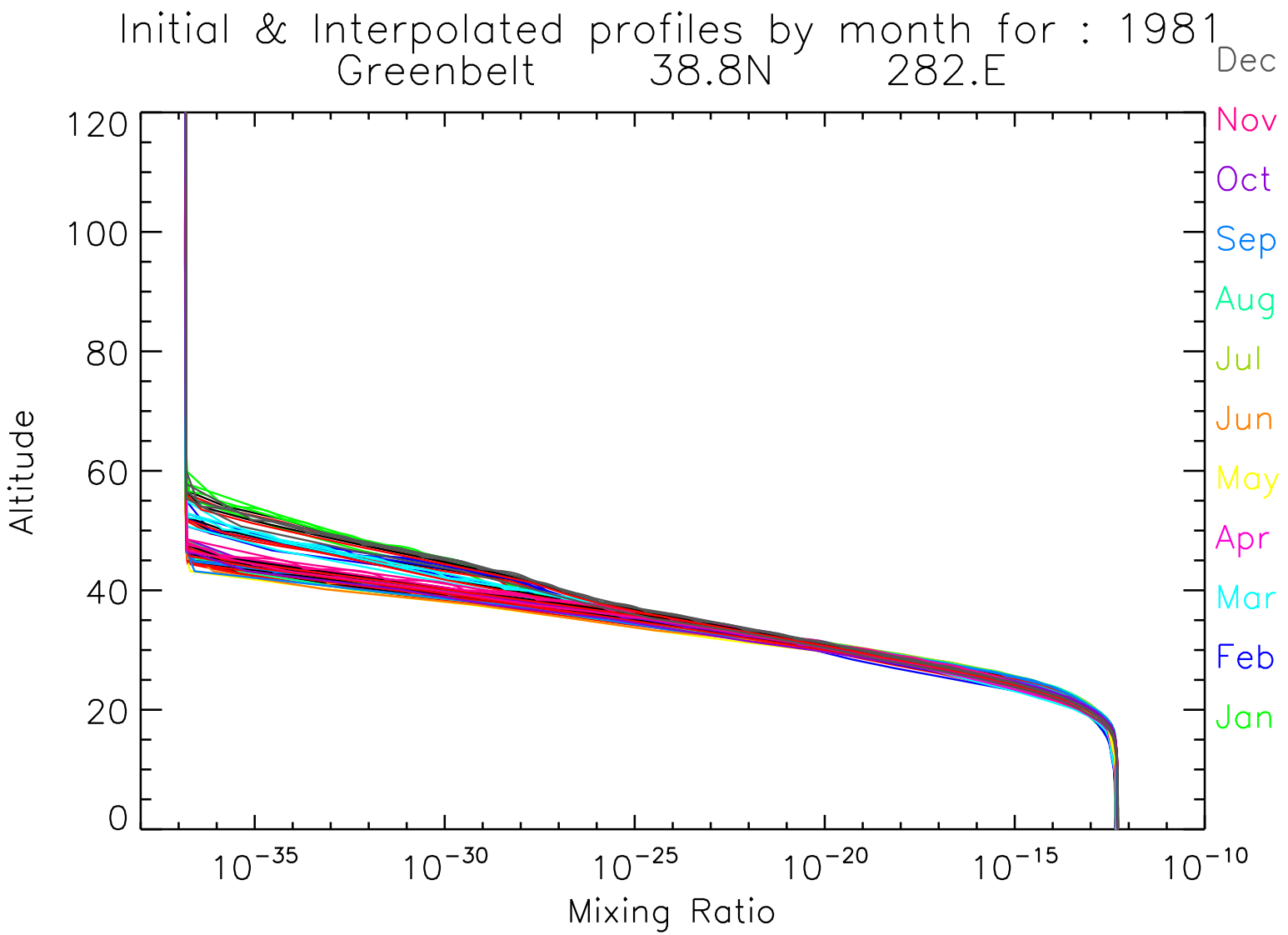
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Greenbelt 38.8N 282.E
Dec
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Altitude
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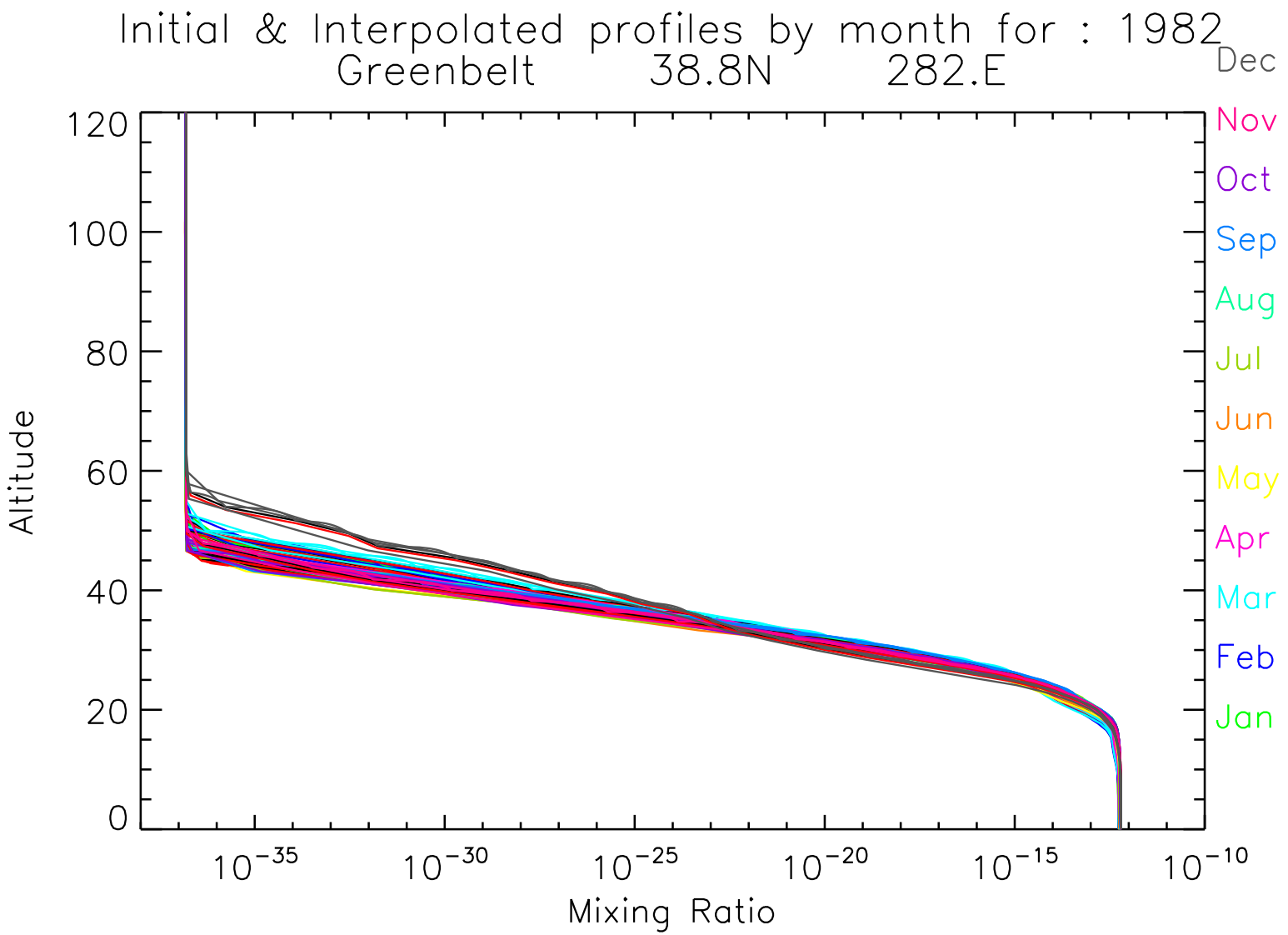
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Greenbelt 38.8N 282.E
Dec
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Altitude
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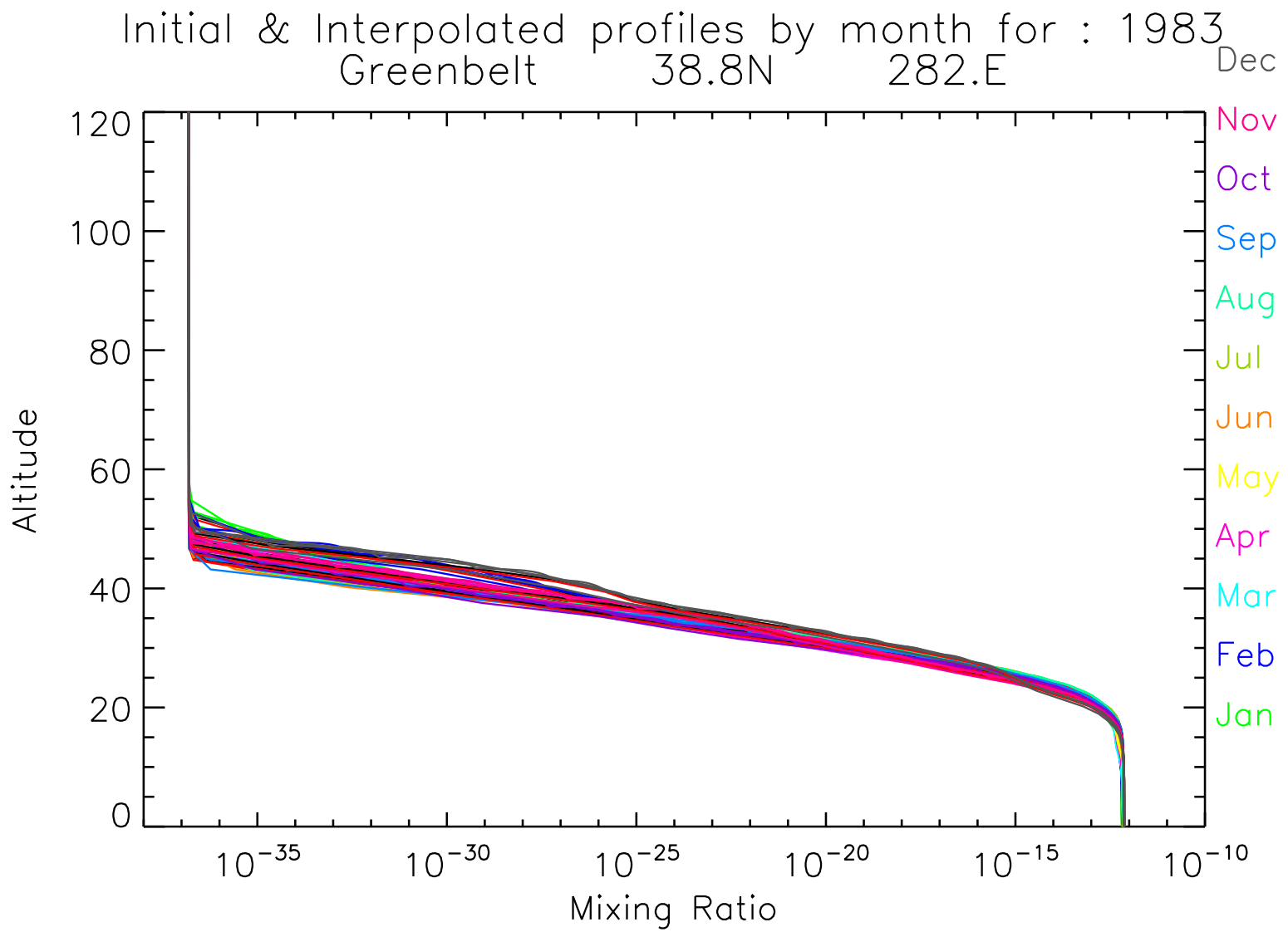
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Greenbelt 38.8N 282.E
Dec
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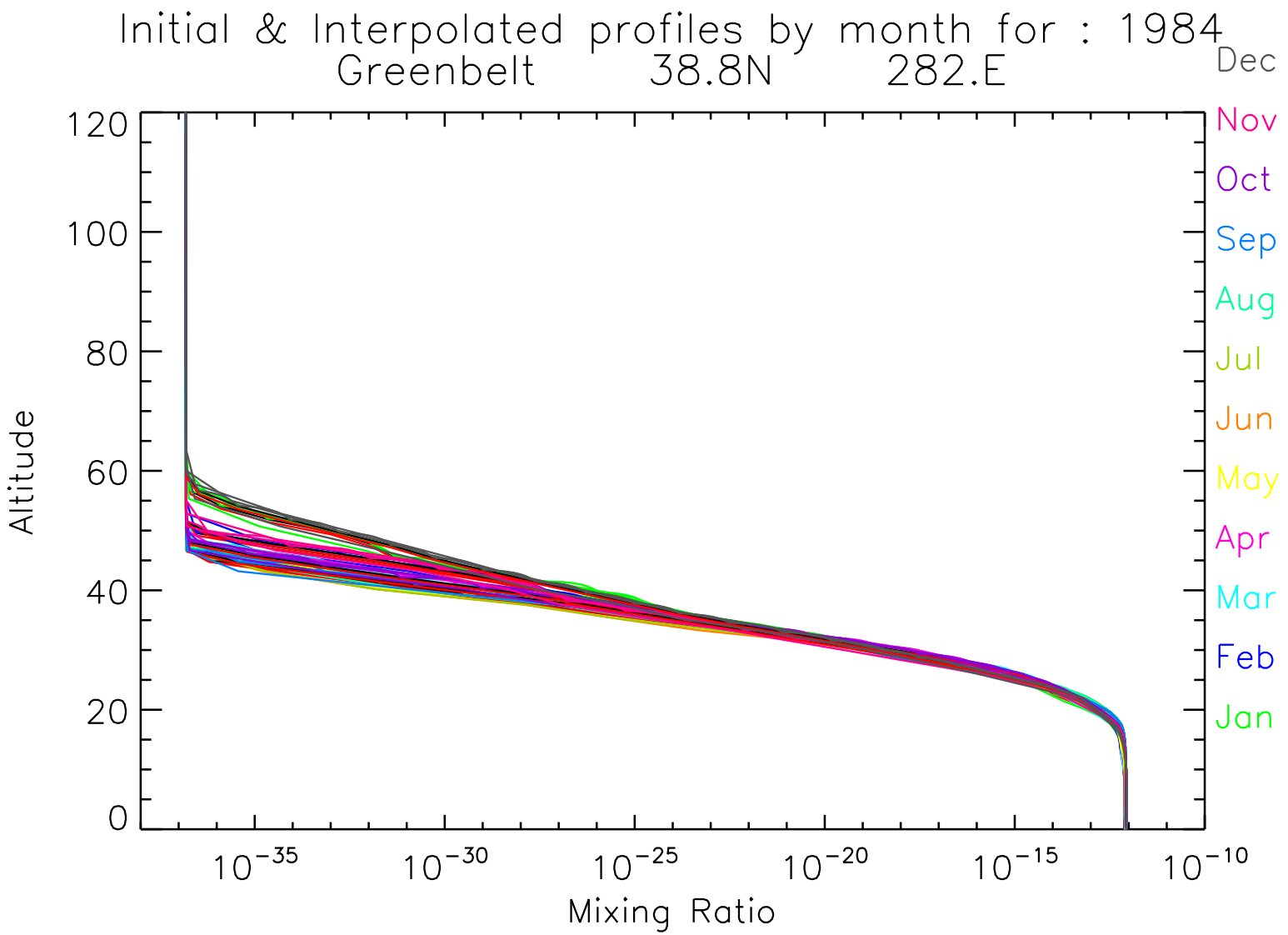
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Greenbelt 38.8N 282.E
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Altitude
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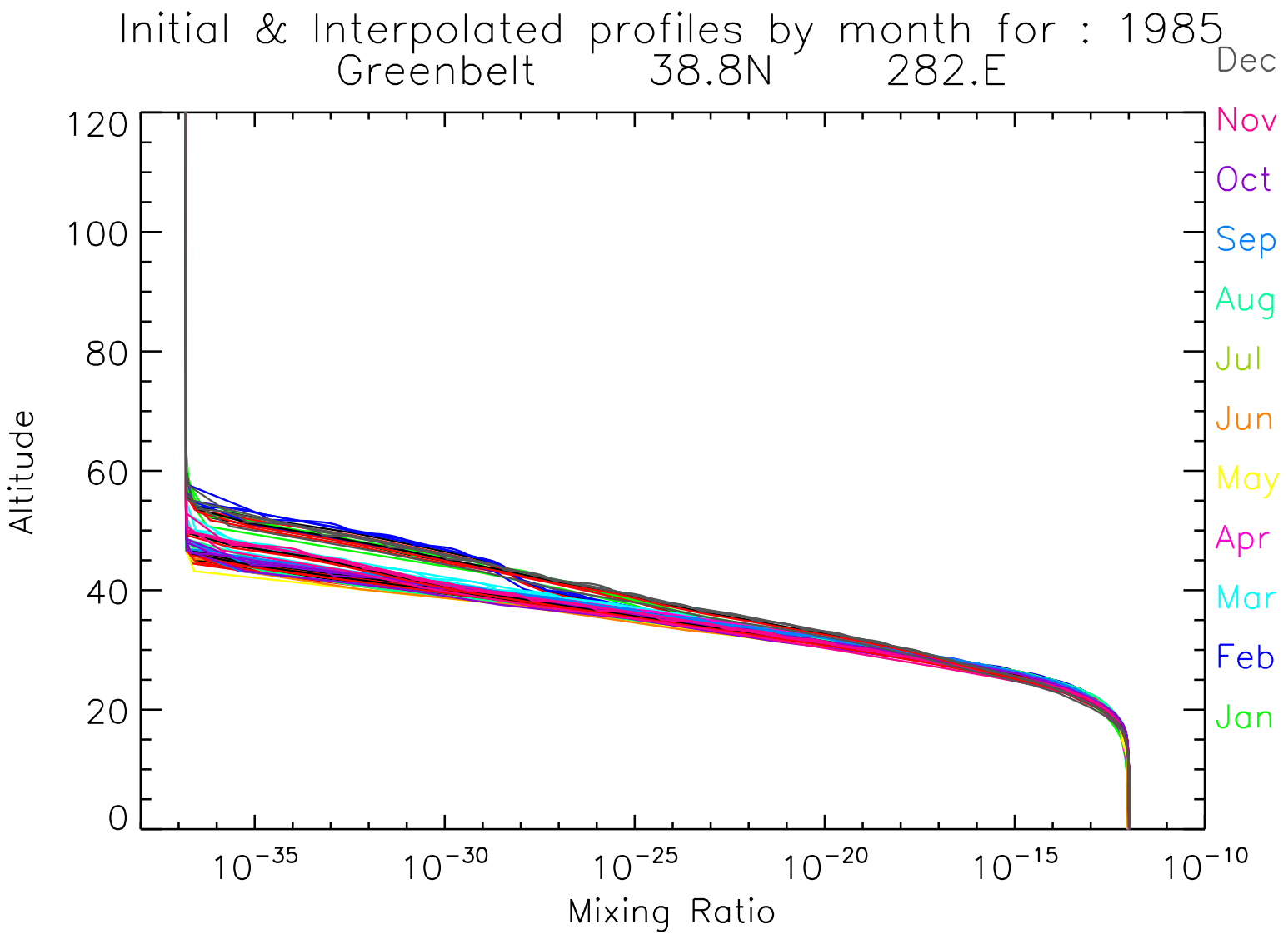
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Greenbelt 38.8N 282.E
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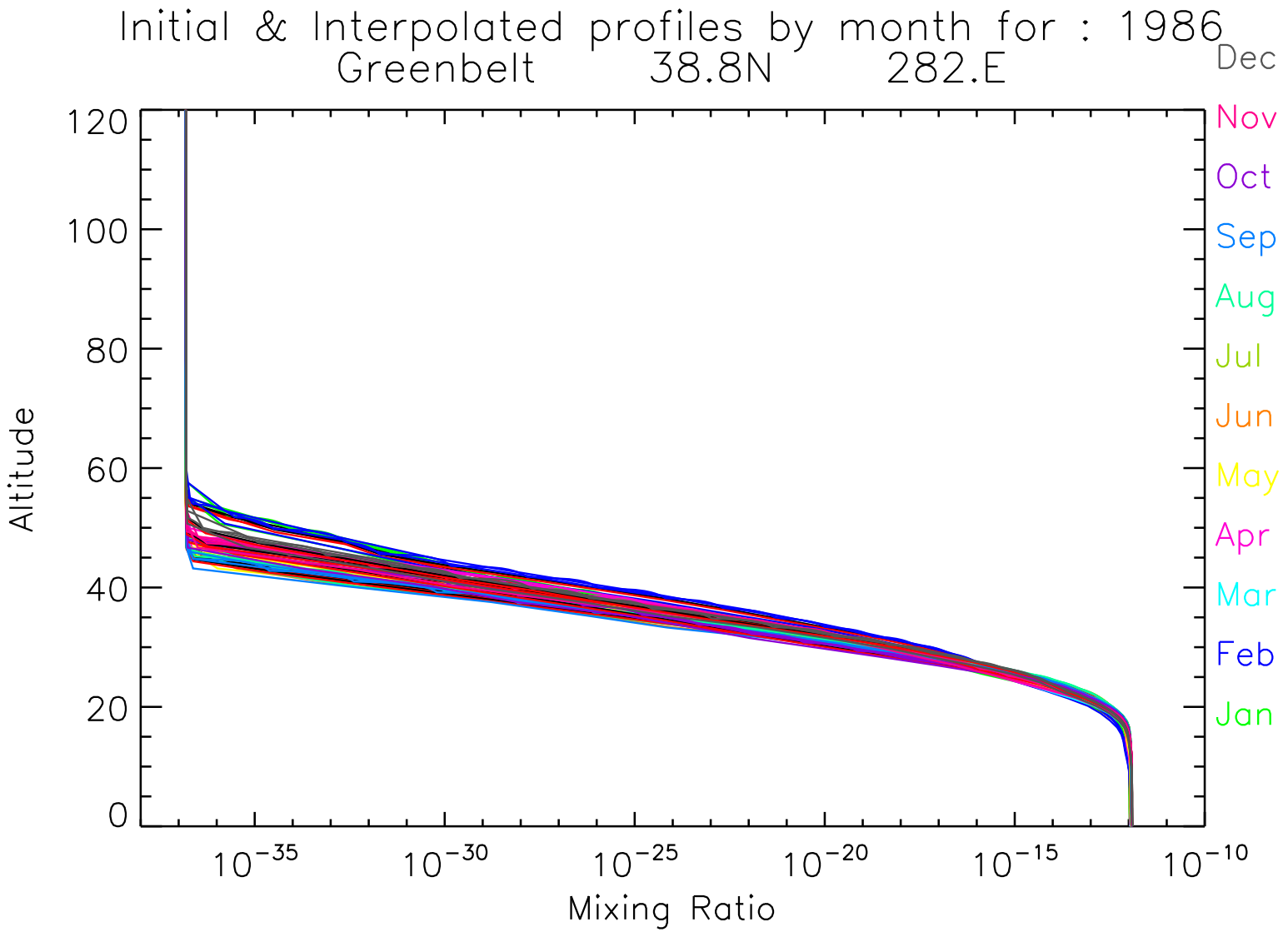
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Greenbelt 38.8N 282.E
Dec
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Altitude
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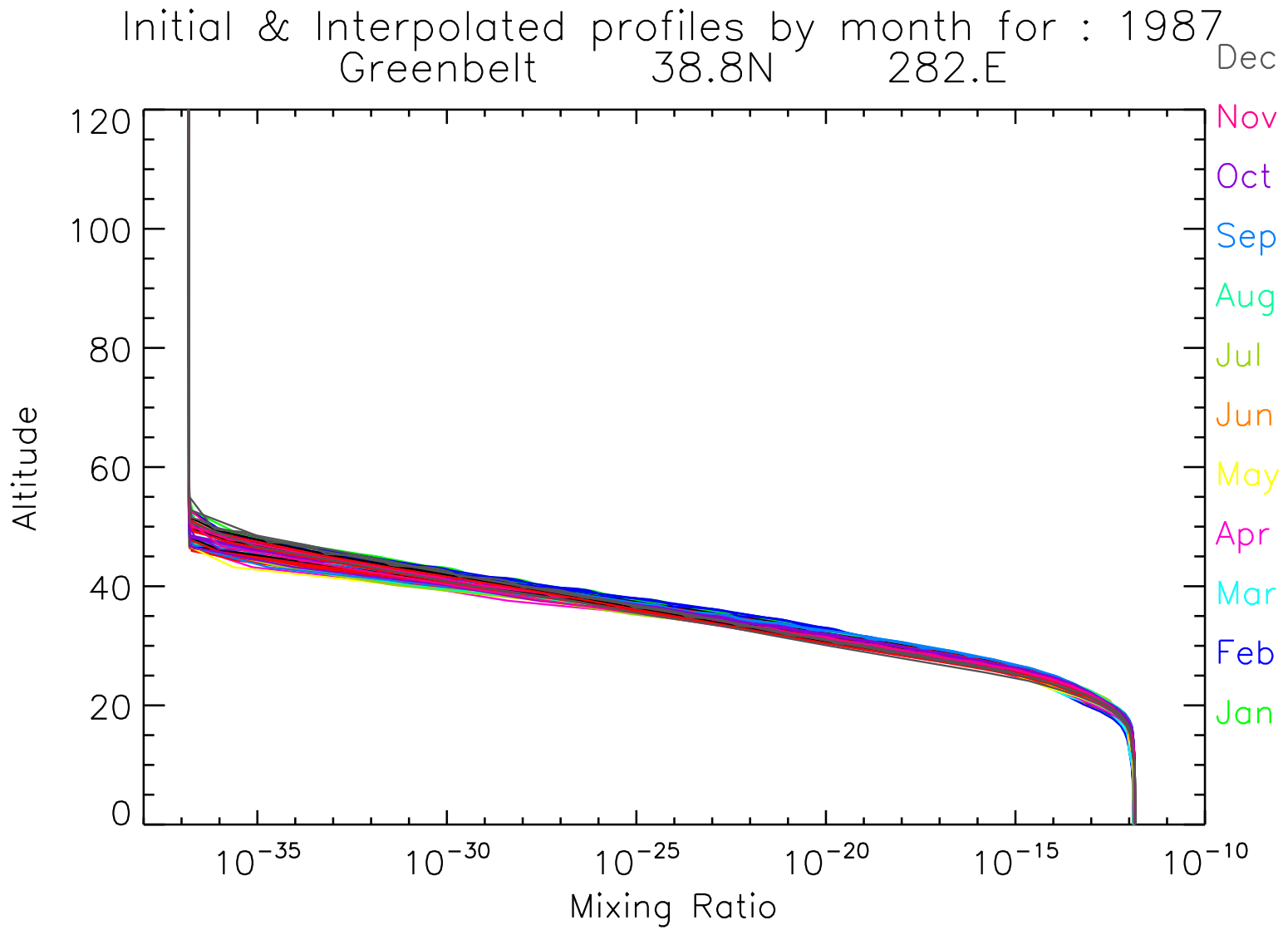
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Greenbelt 38.8N 282.E
Dec
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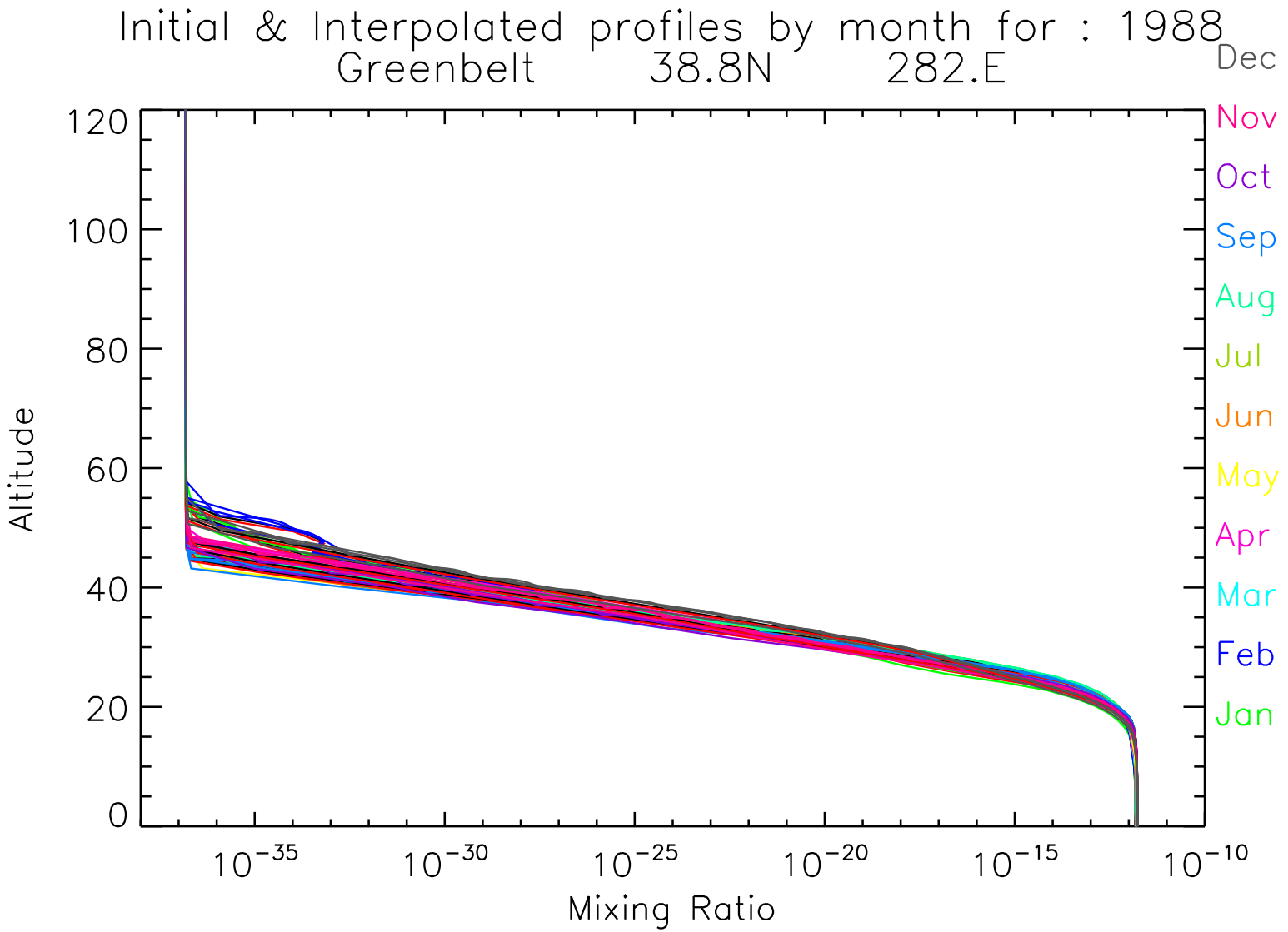
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Greenbelt 38.8N 282.E
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Altitude
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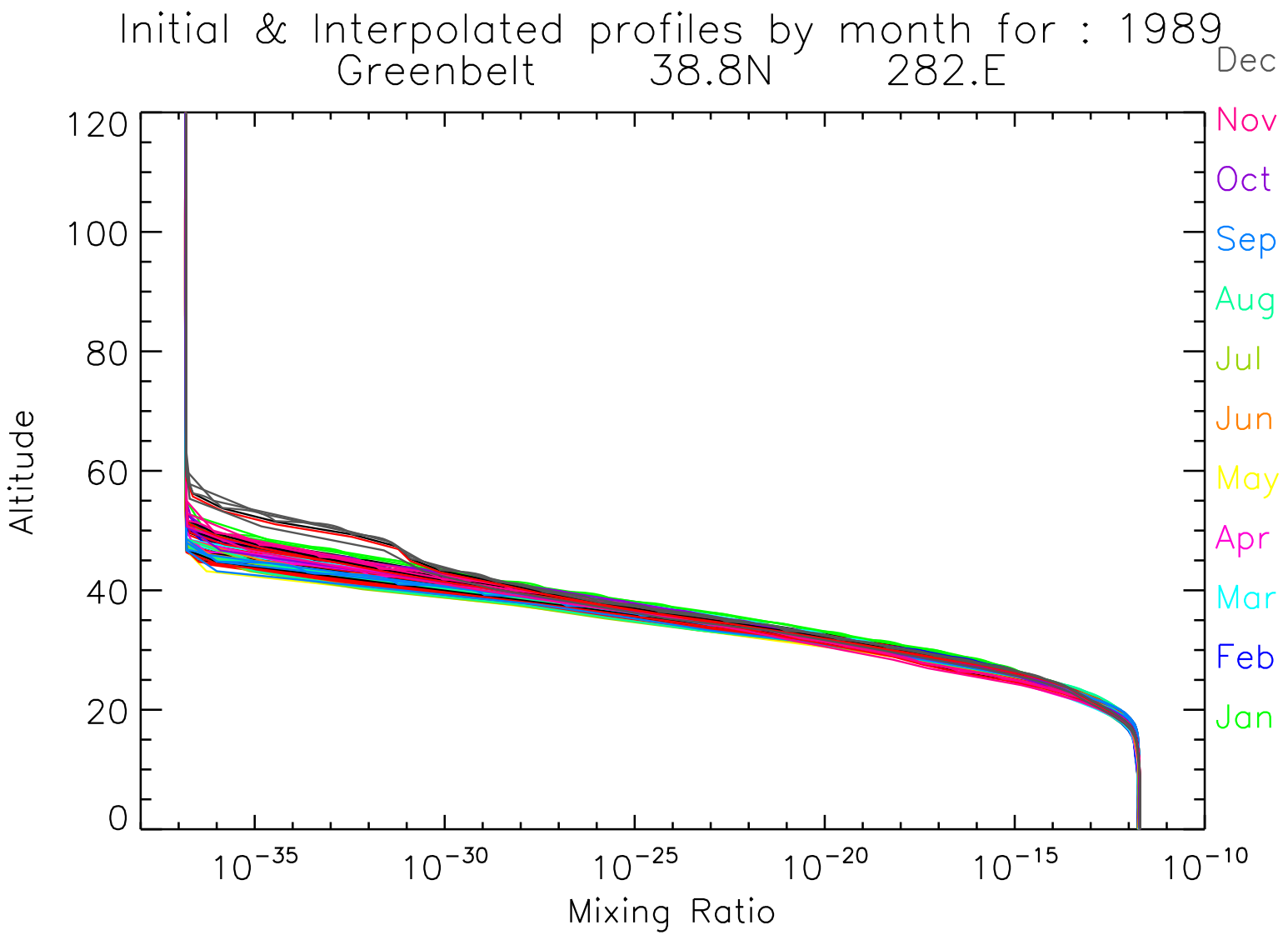
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Greenbelt 38.8N 282.E
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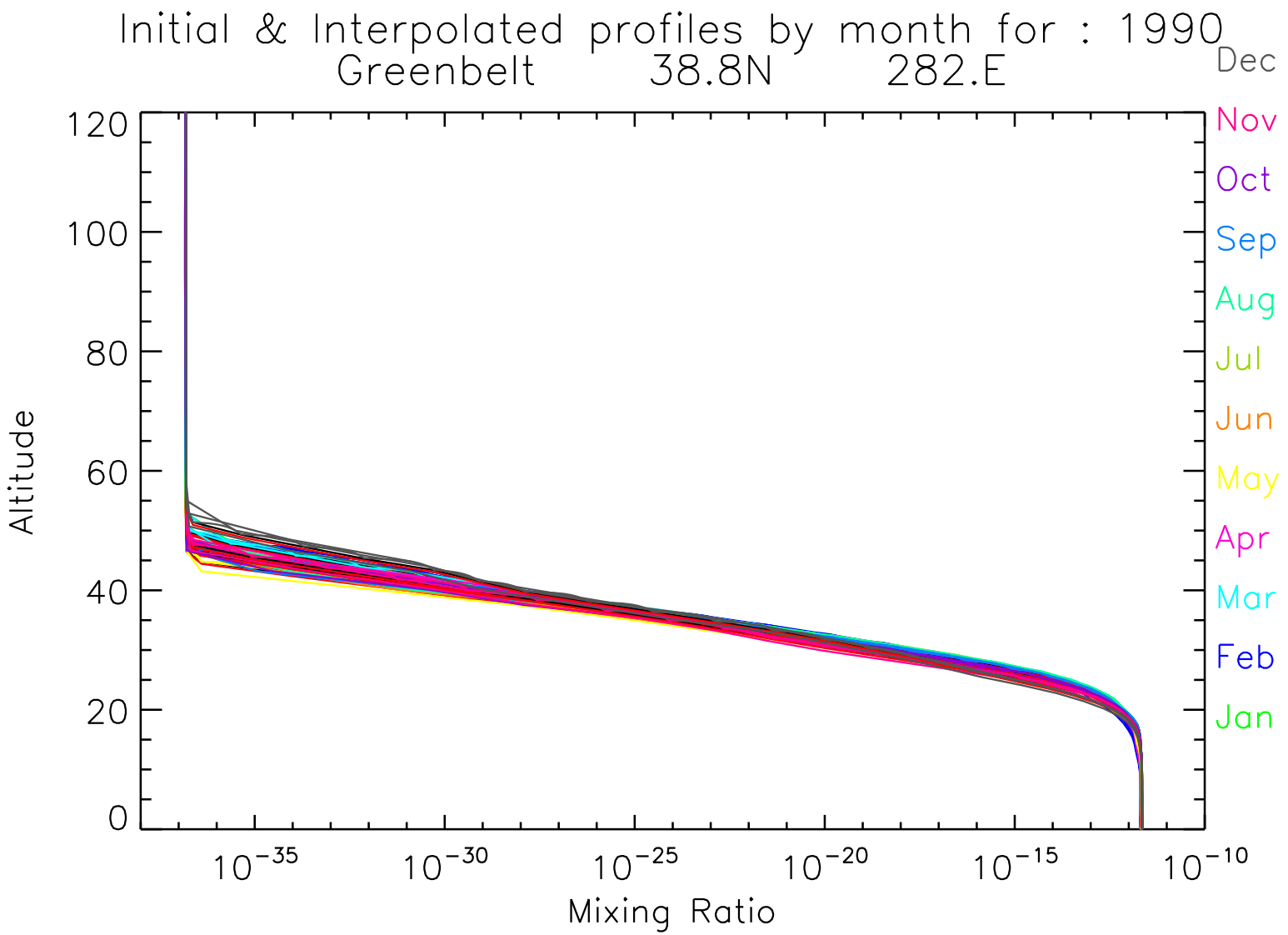
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Greenbelt 38.8N 282.E
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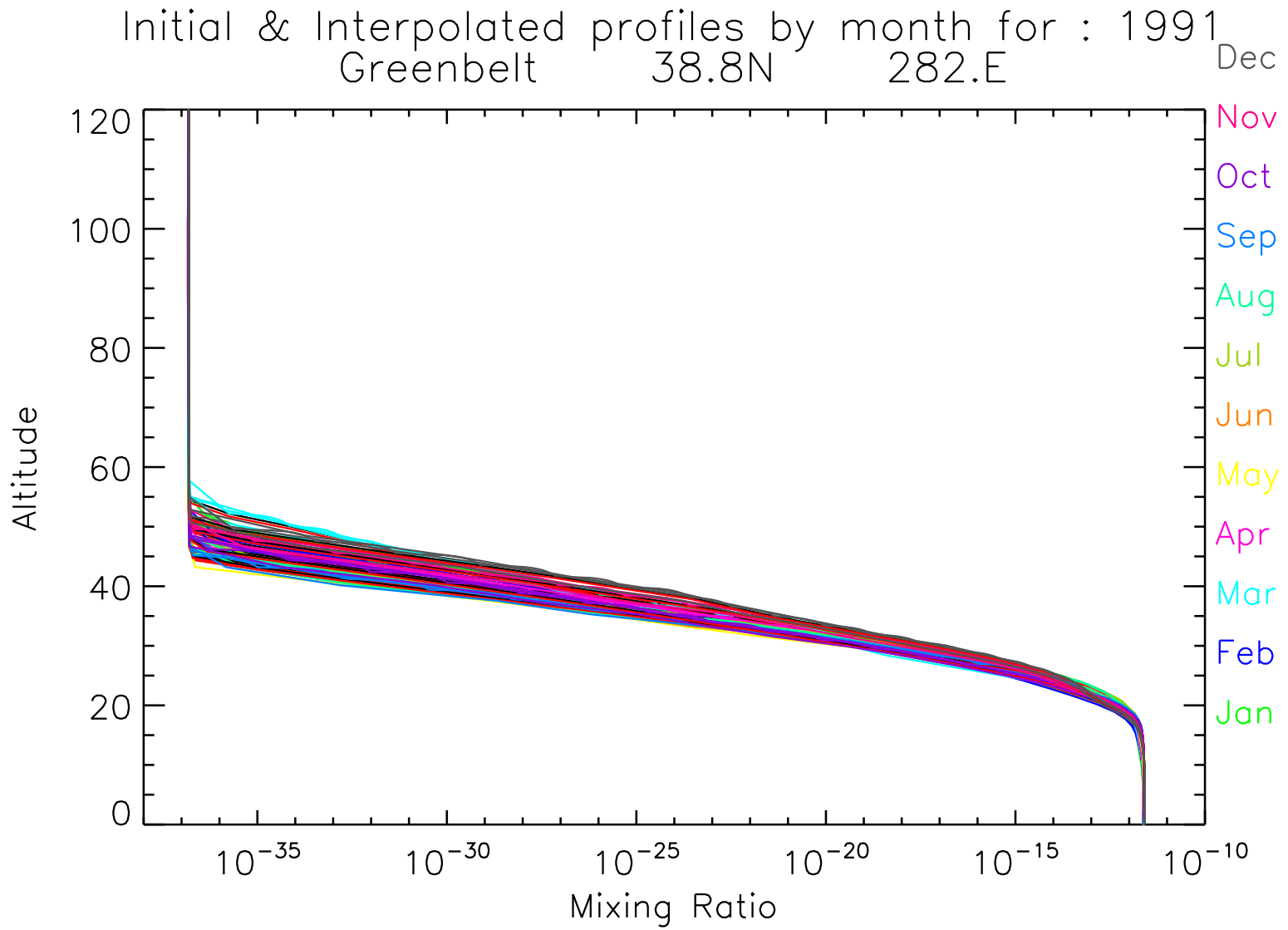
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Greenbelt 38.8N 282.E
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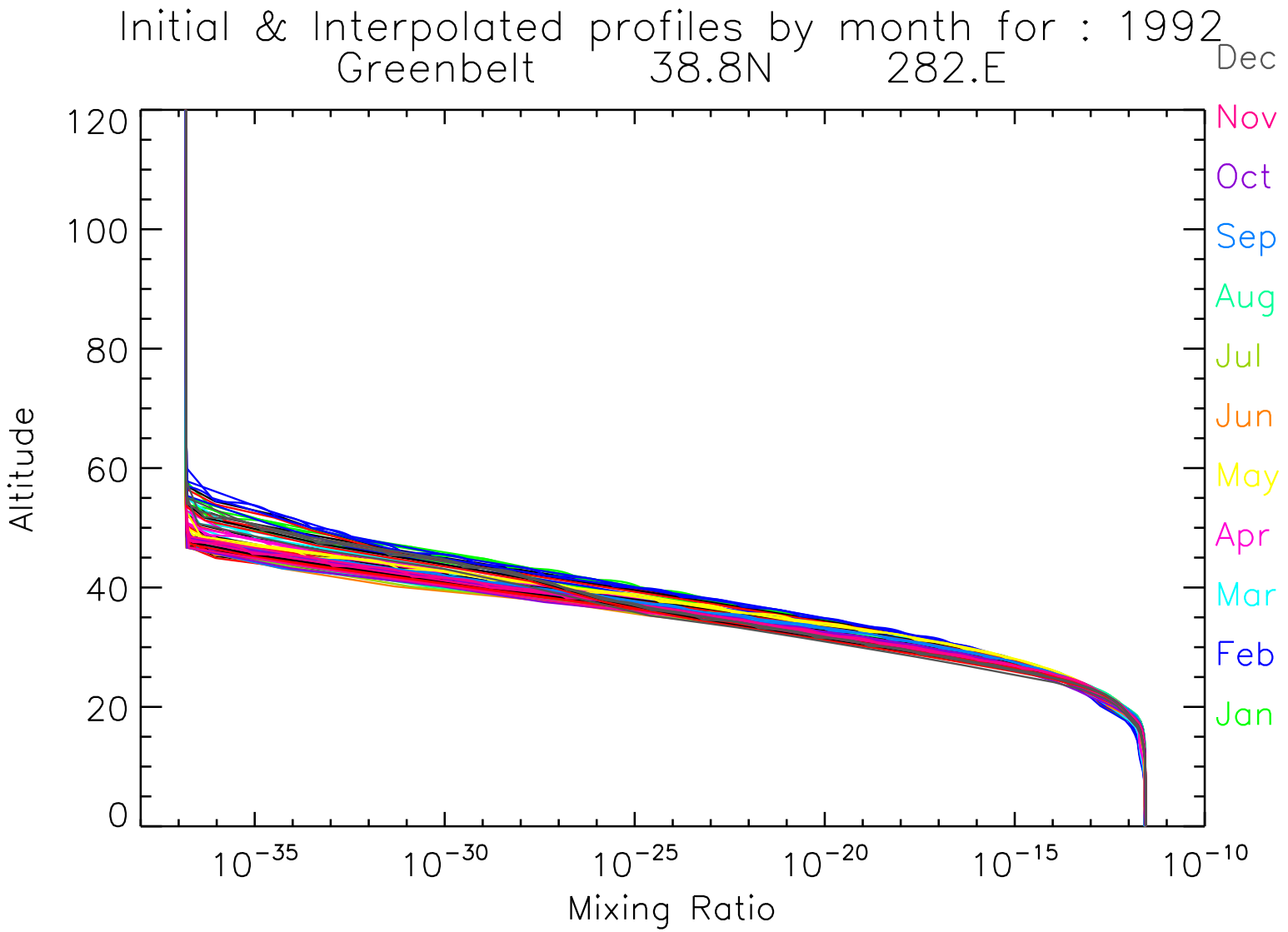
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Greenbelt 38.8N 282.E
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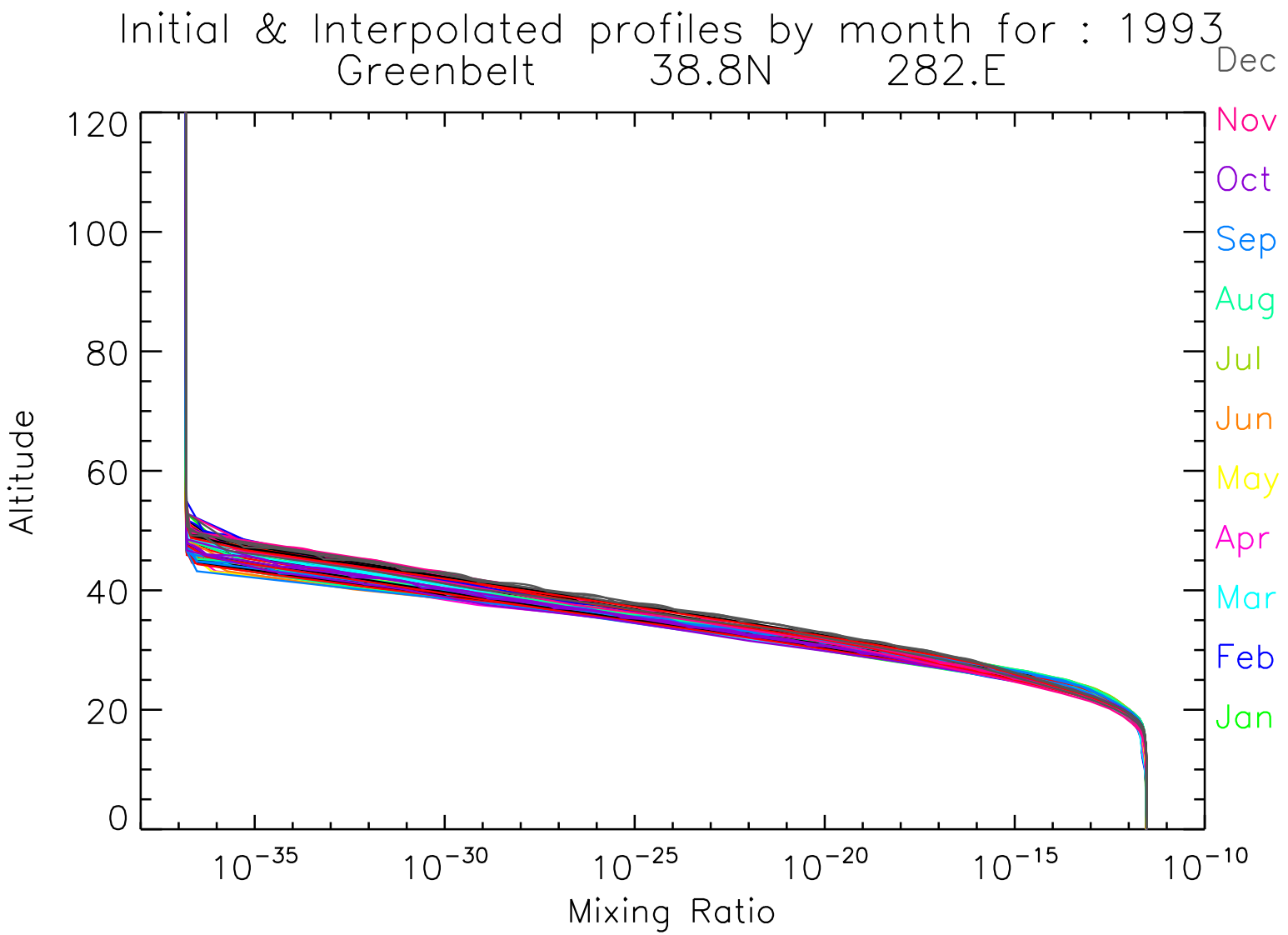
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Greenbelt 38.8N 282.E
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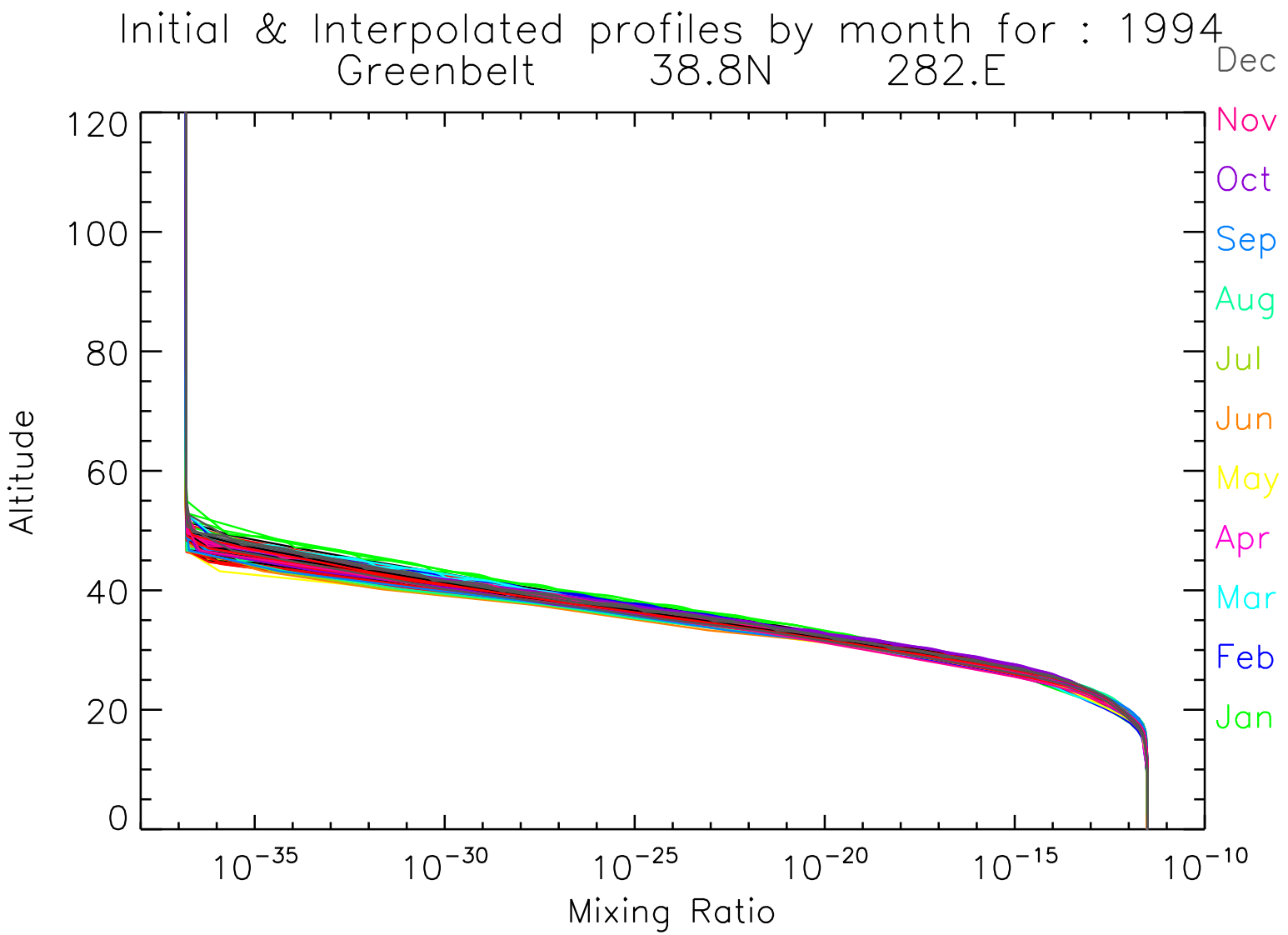
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Greenbelt 38.8N 282.E
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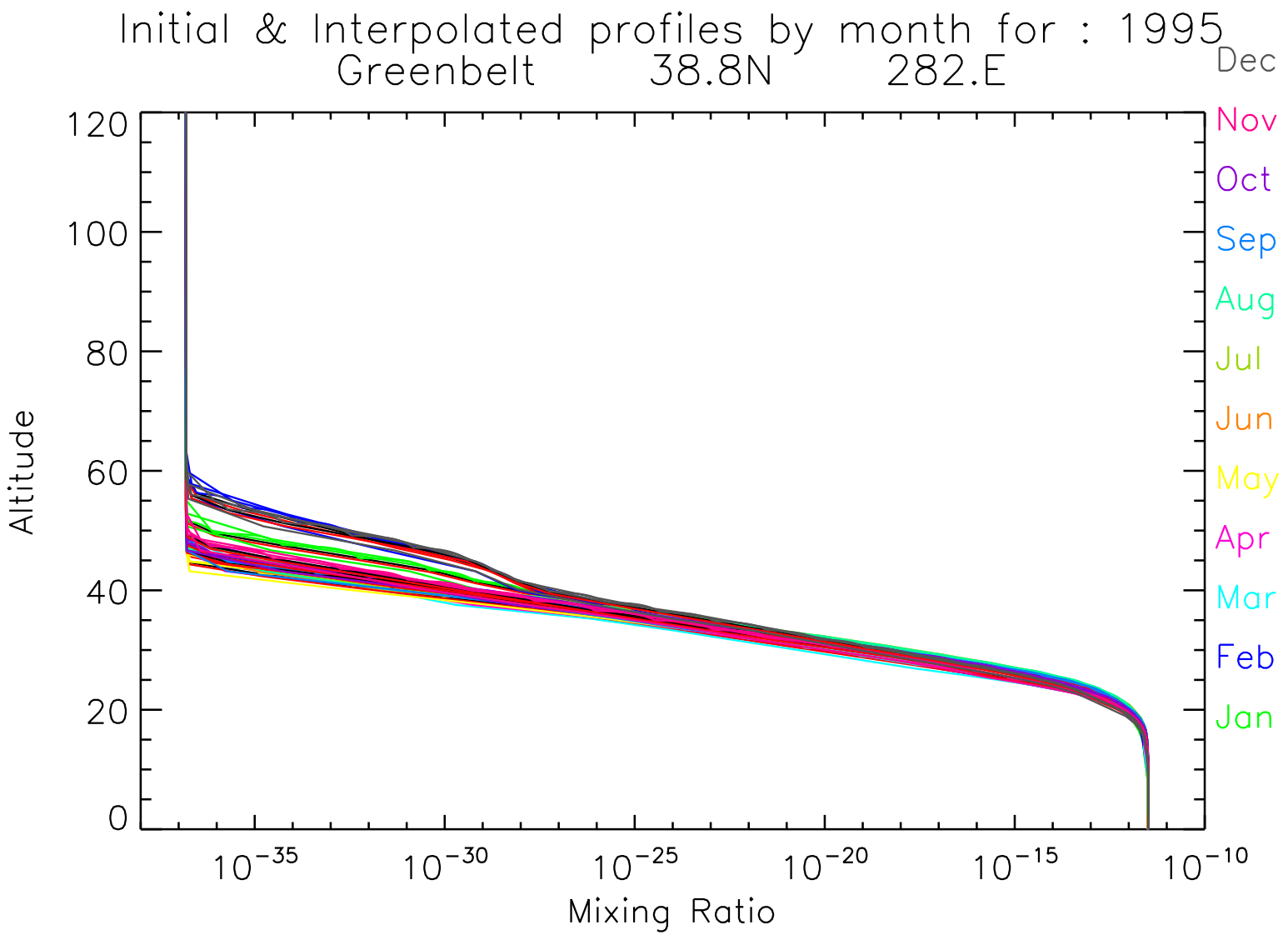
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Greenbelt 38.8N 282.E
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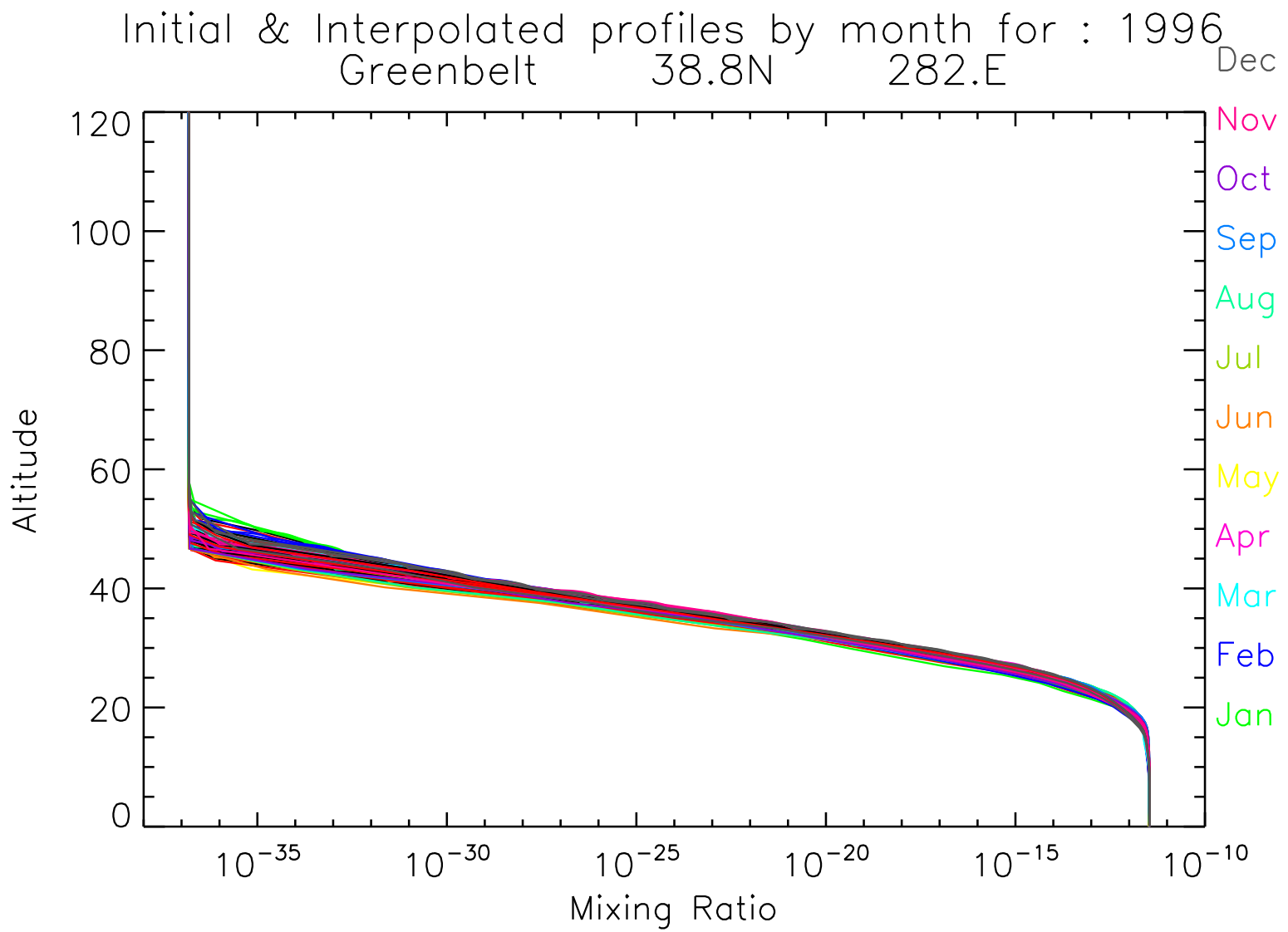
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Greenbelt 38.8N 282.E
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Altitude
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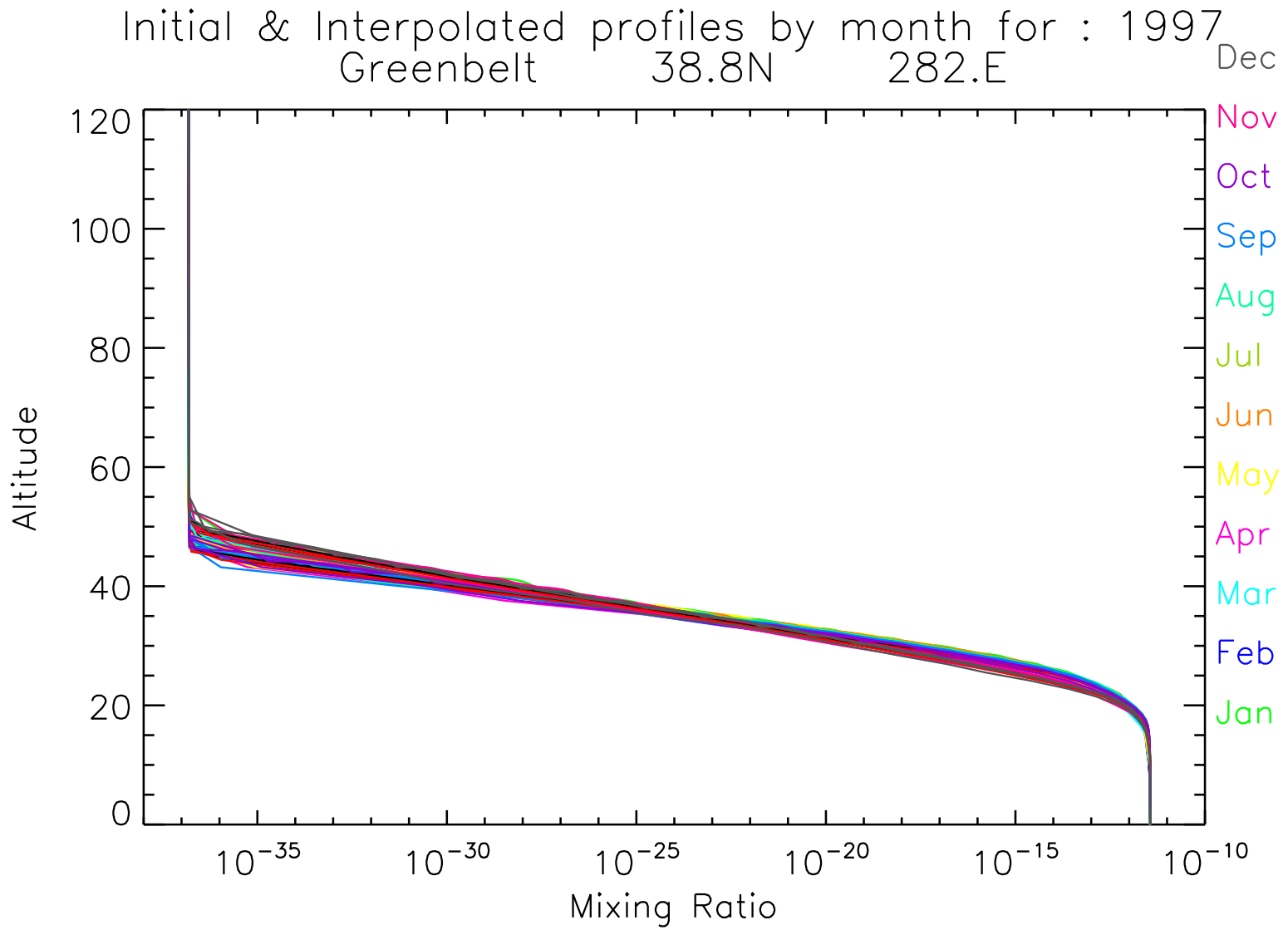
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Greenbelt 38.8N 282.E
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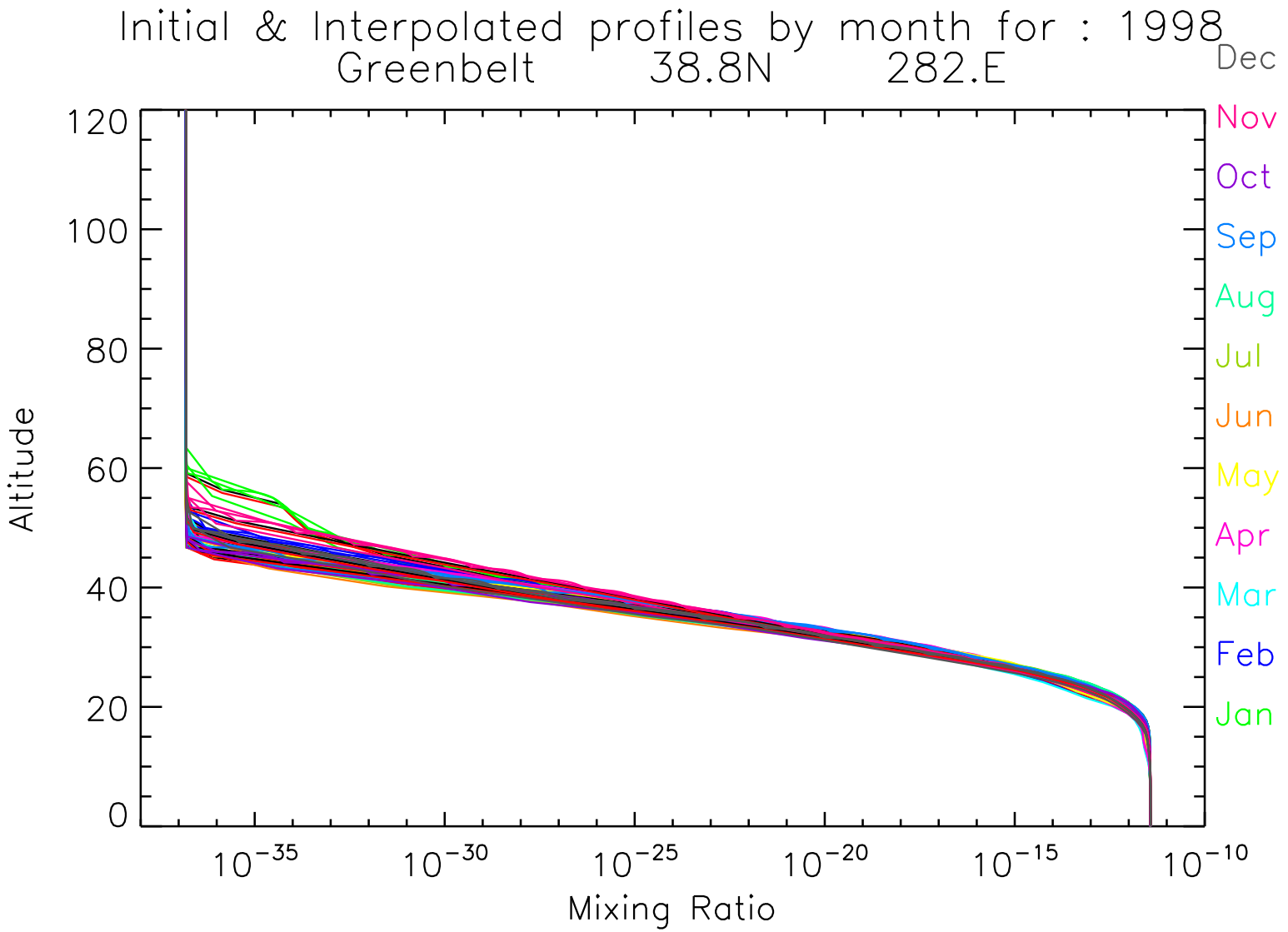
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Greenbelt 38.8N 282.E
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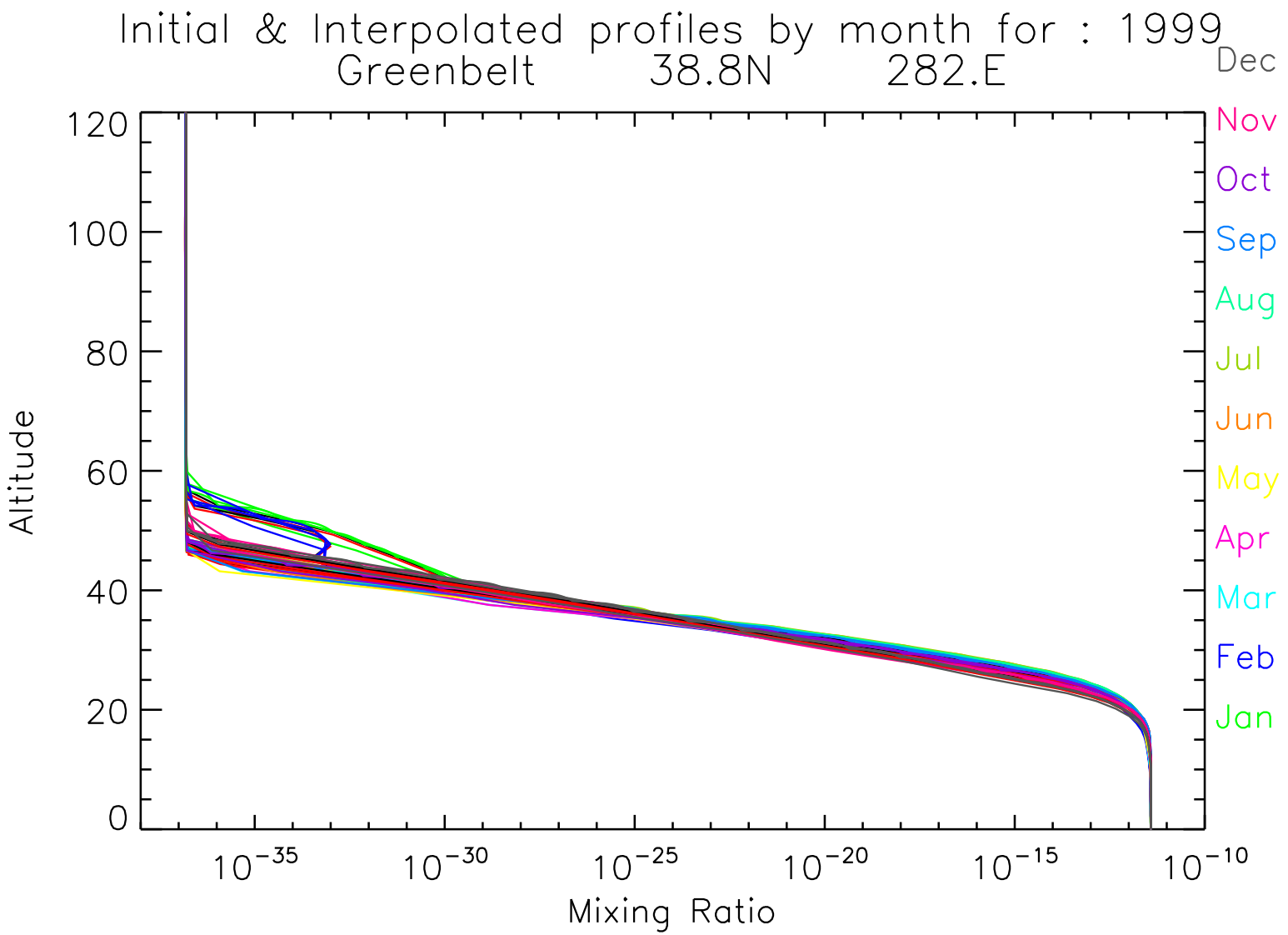
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Greenbelt 38.8N 282.E
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Altitude
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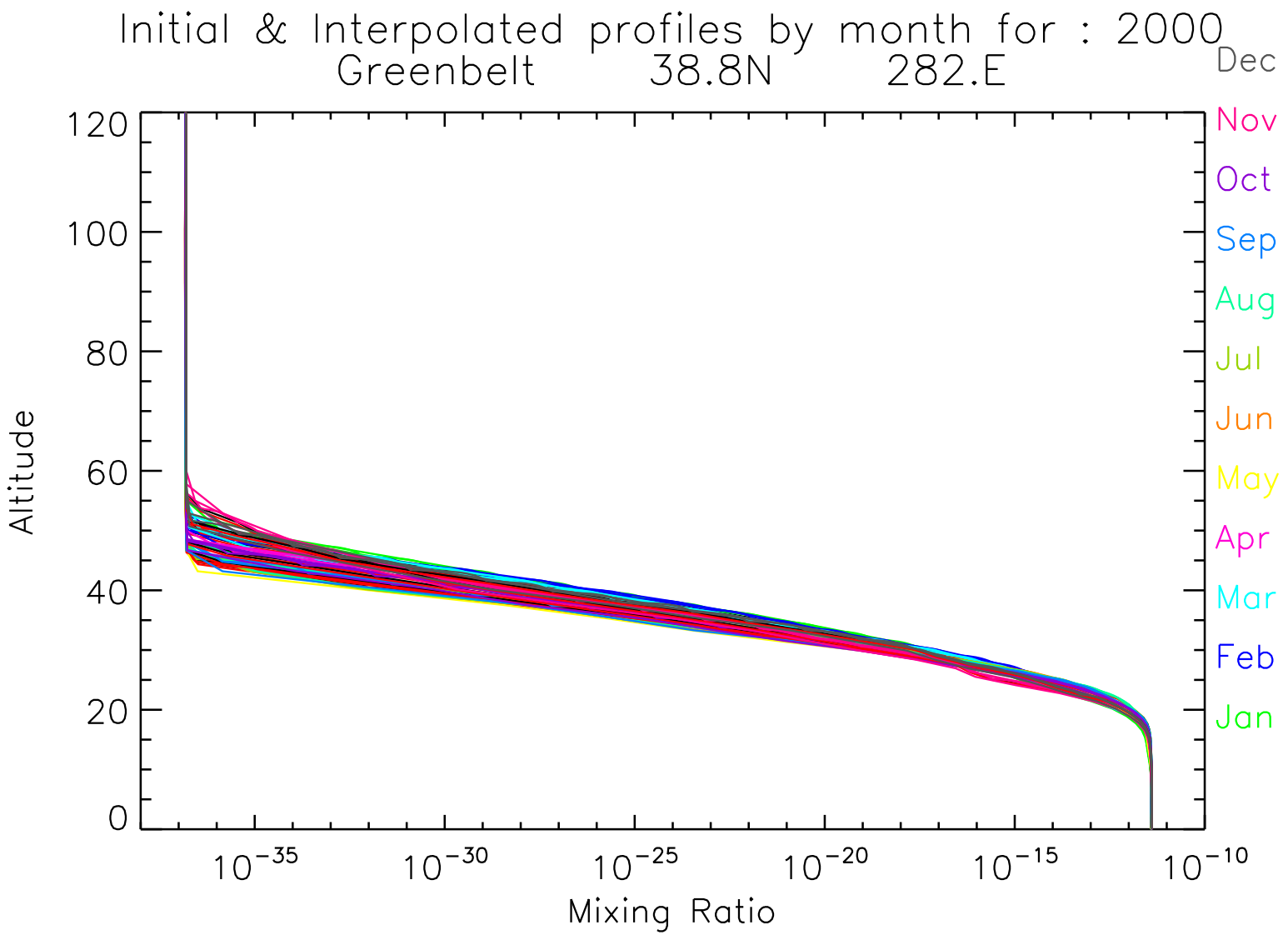
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Greenbelt 38.8N 282.E
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Altitude
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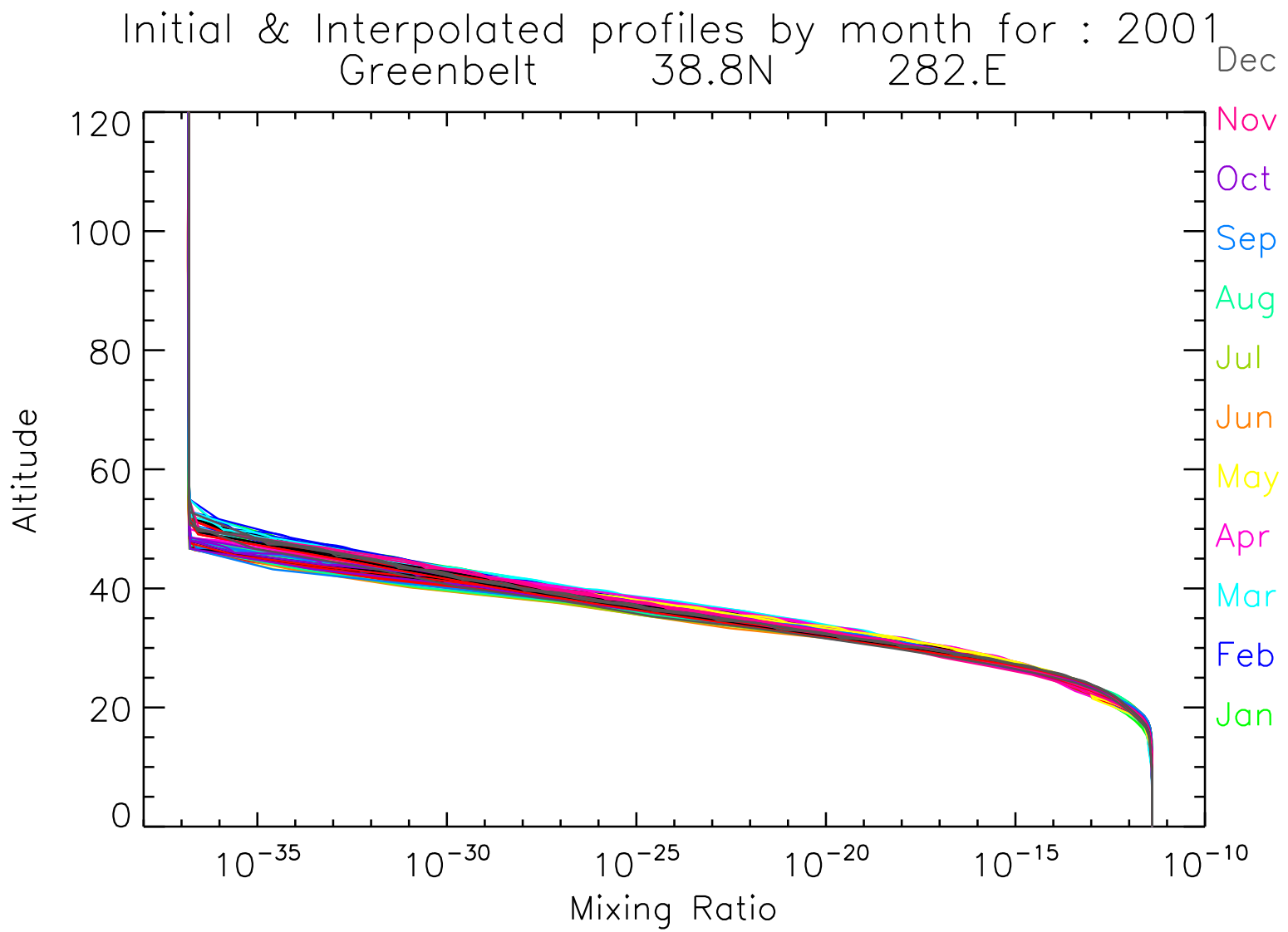
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Greenbelt 38.8N 282.E
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Altitude
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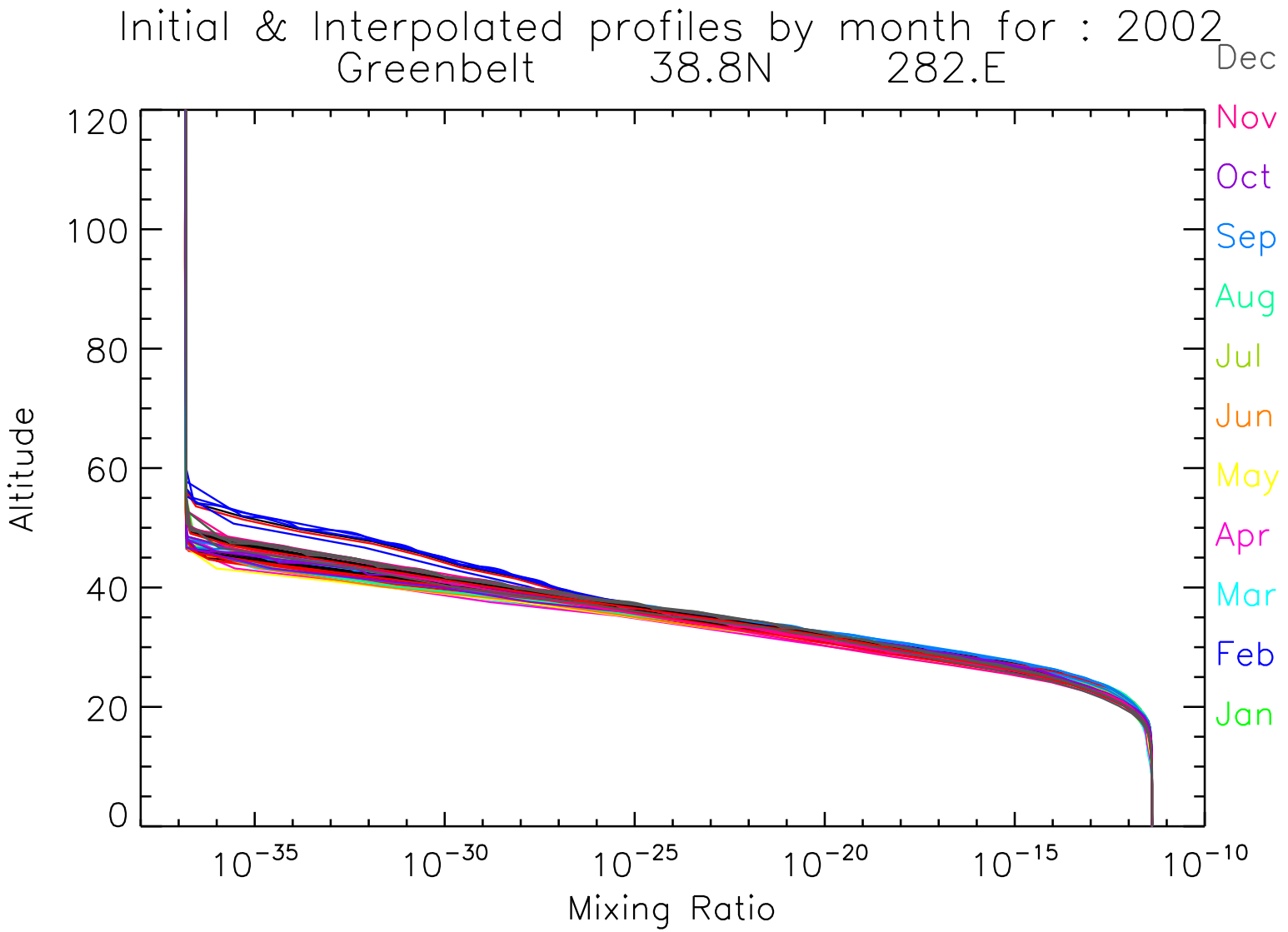
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Greenbelt 38.8N 282.E
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Altitude
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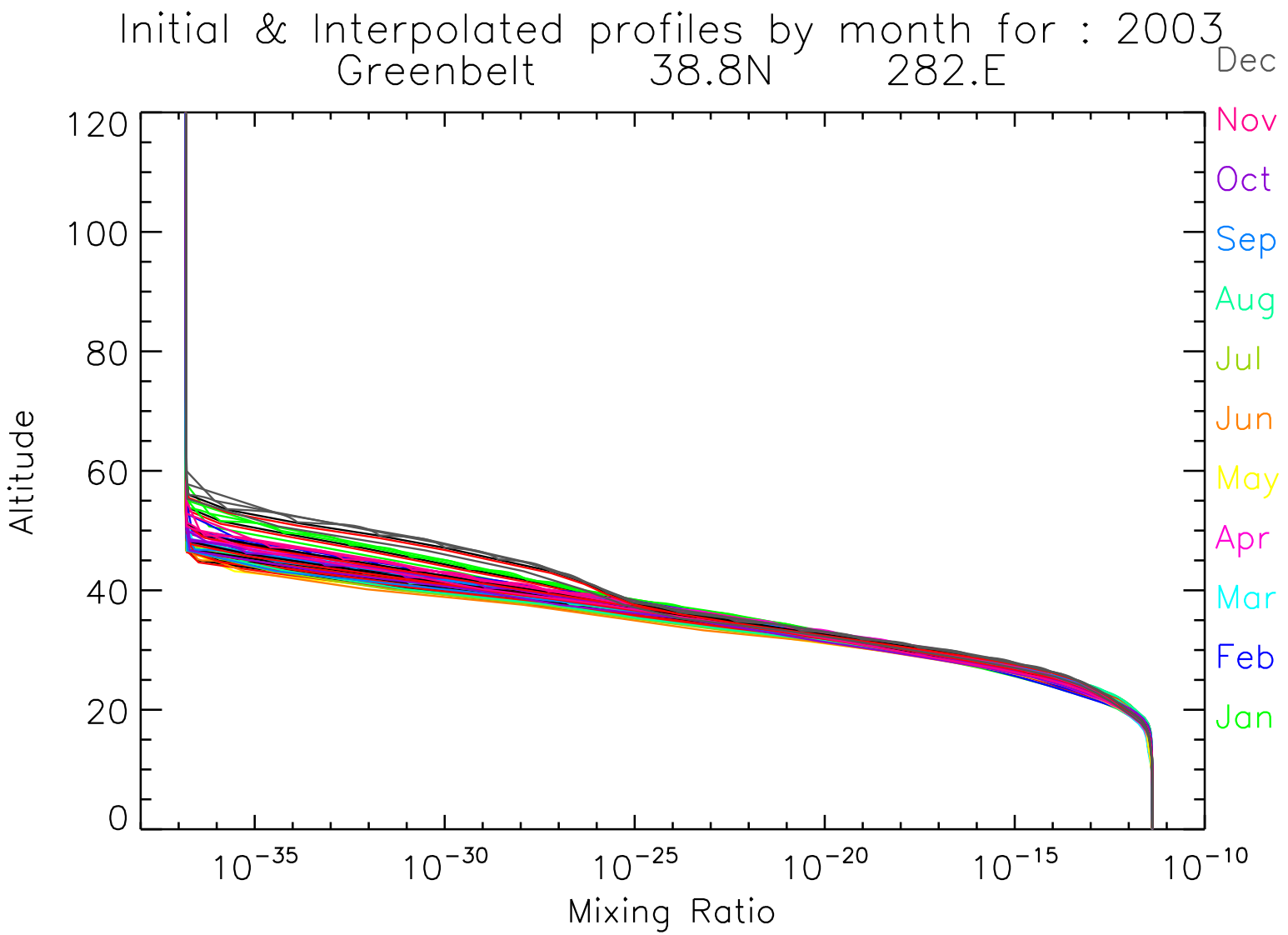
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Greenbelt 38.8N 282.E
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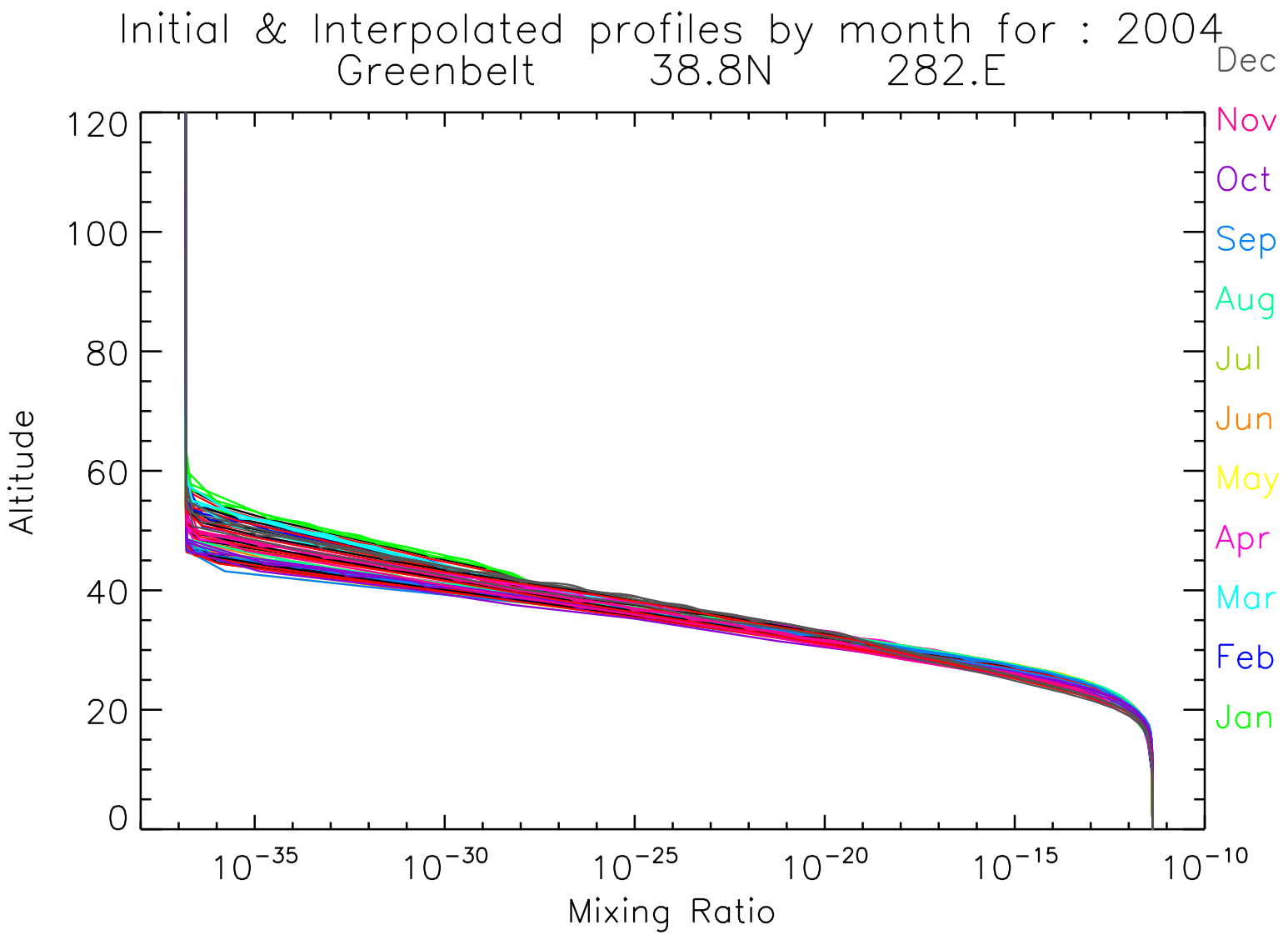
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Greenbelt 38.8N 282.E
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Altitude
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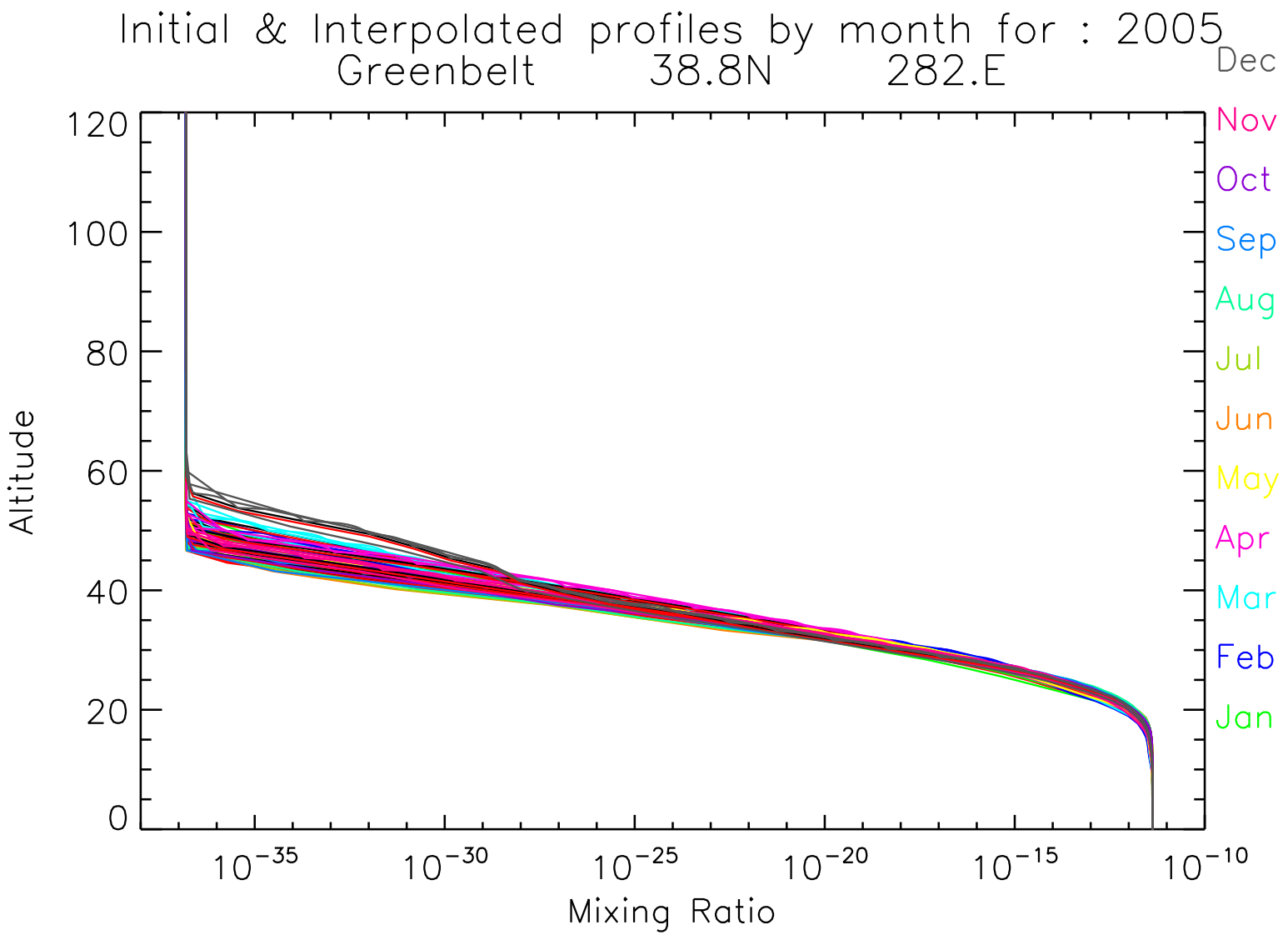
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Greenbelt 38.8N 282.E
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Altitude
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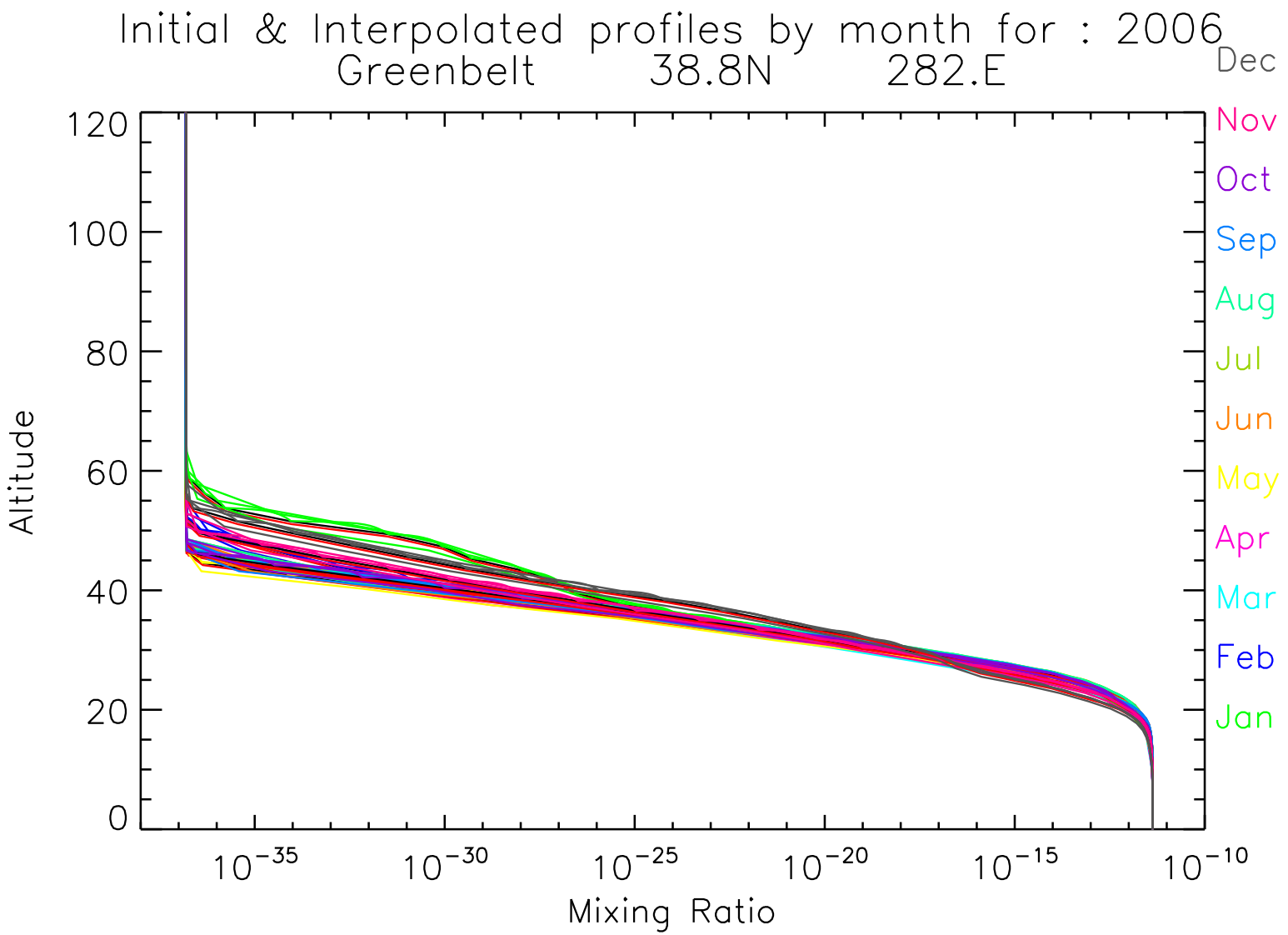
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Greenbelt 38.8N 282.E
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Altitude
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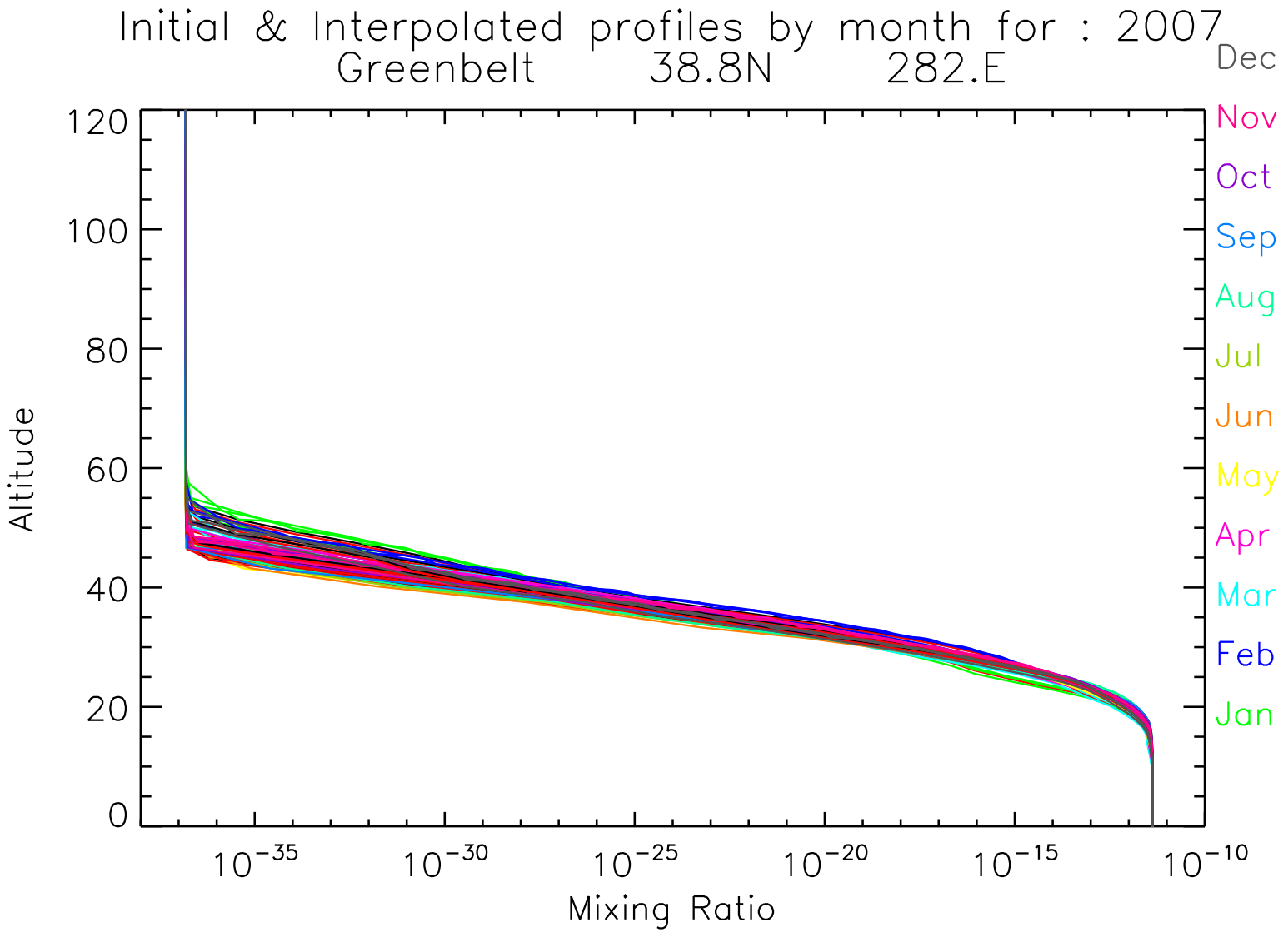
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Greenbelt 38.8N 282.E
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Altitude
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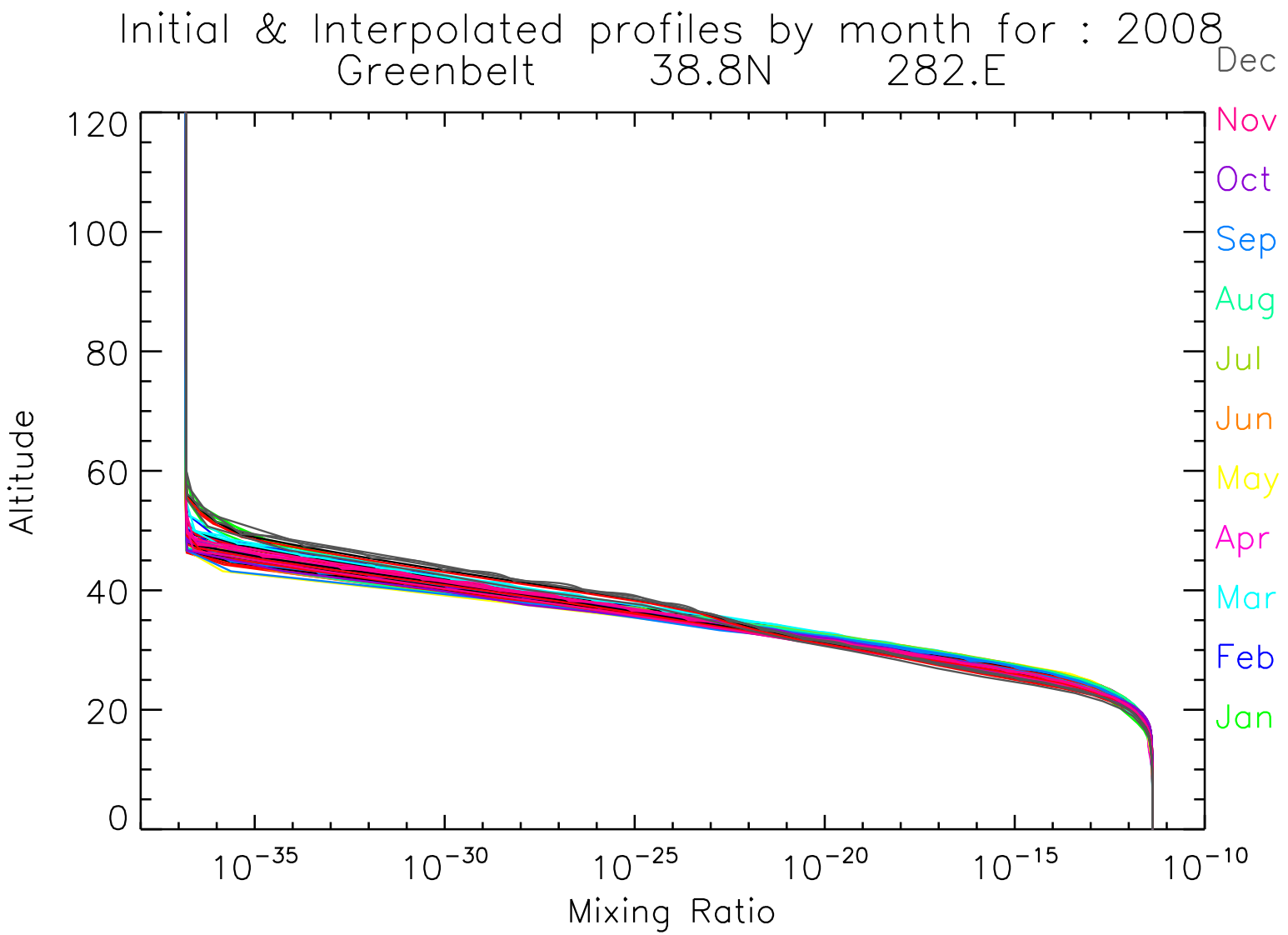
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Greenbelt 38.8N 282.E
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Altitude
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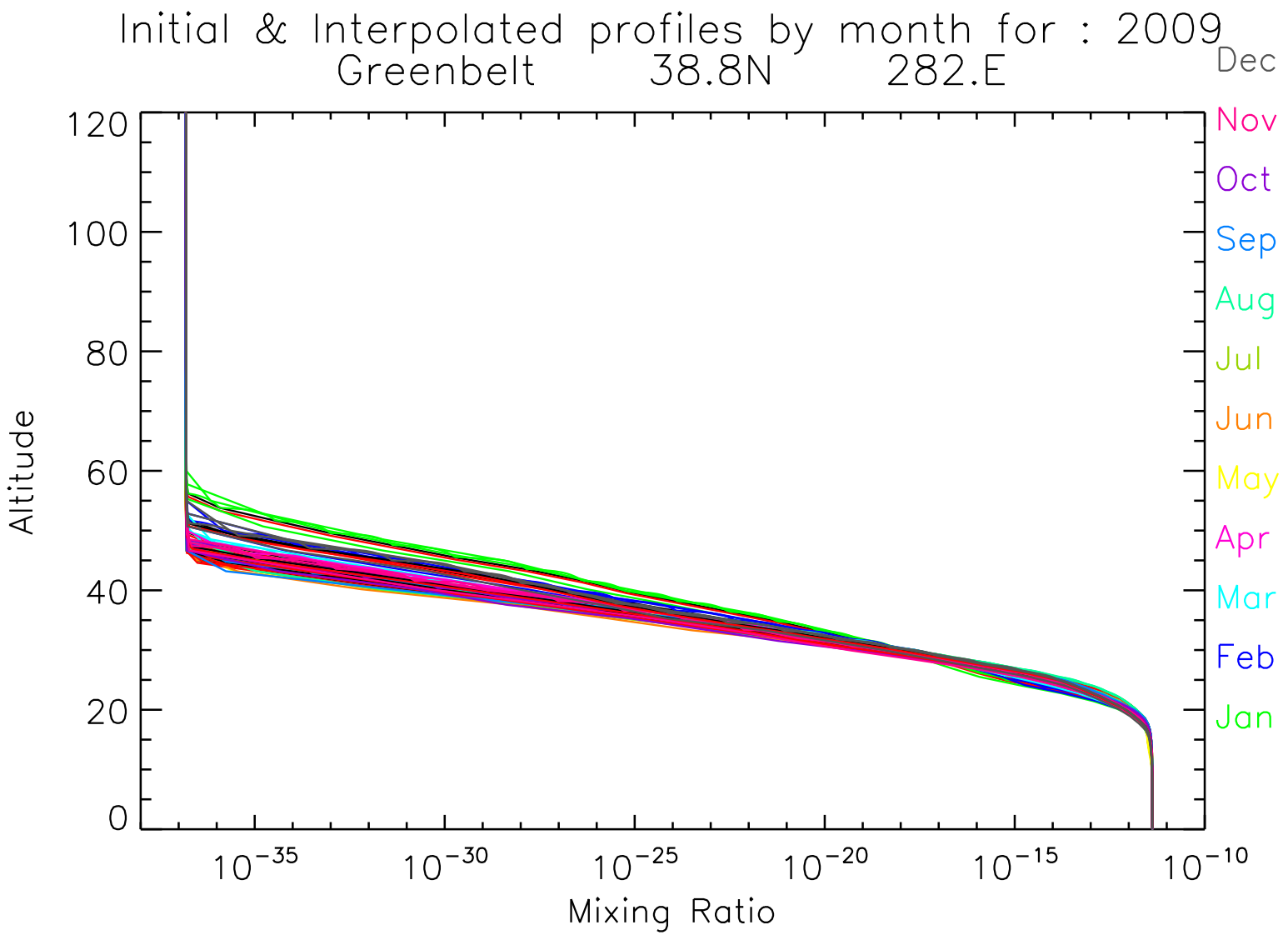
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Greenbelt 38.8N 282.E
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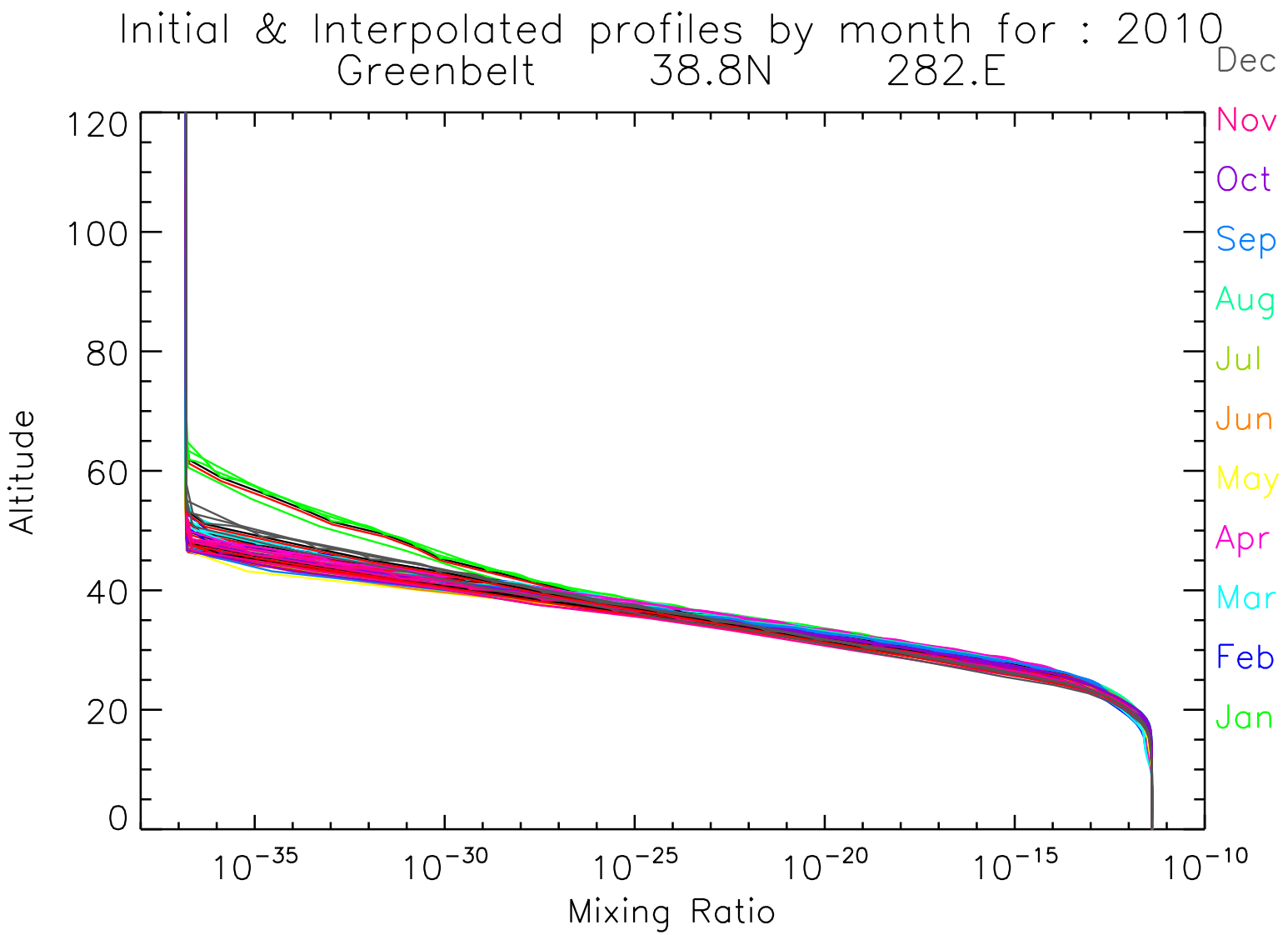
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Greenbelt 38.8N 282.E
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Altitude
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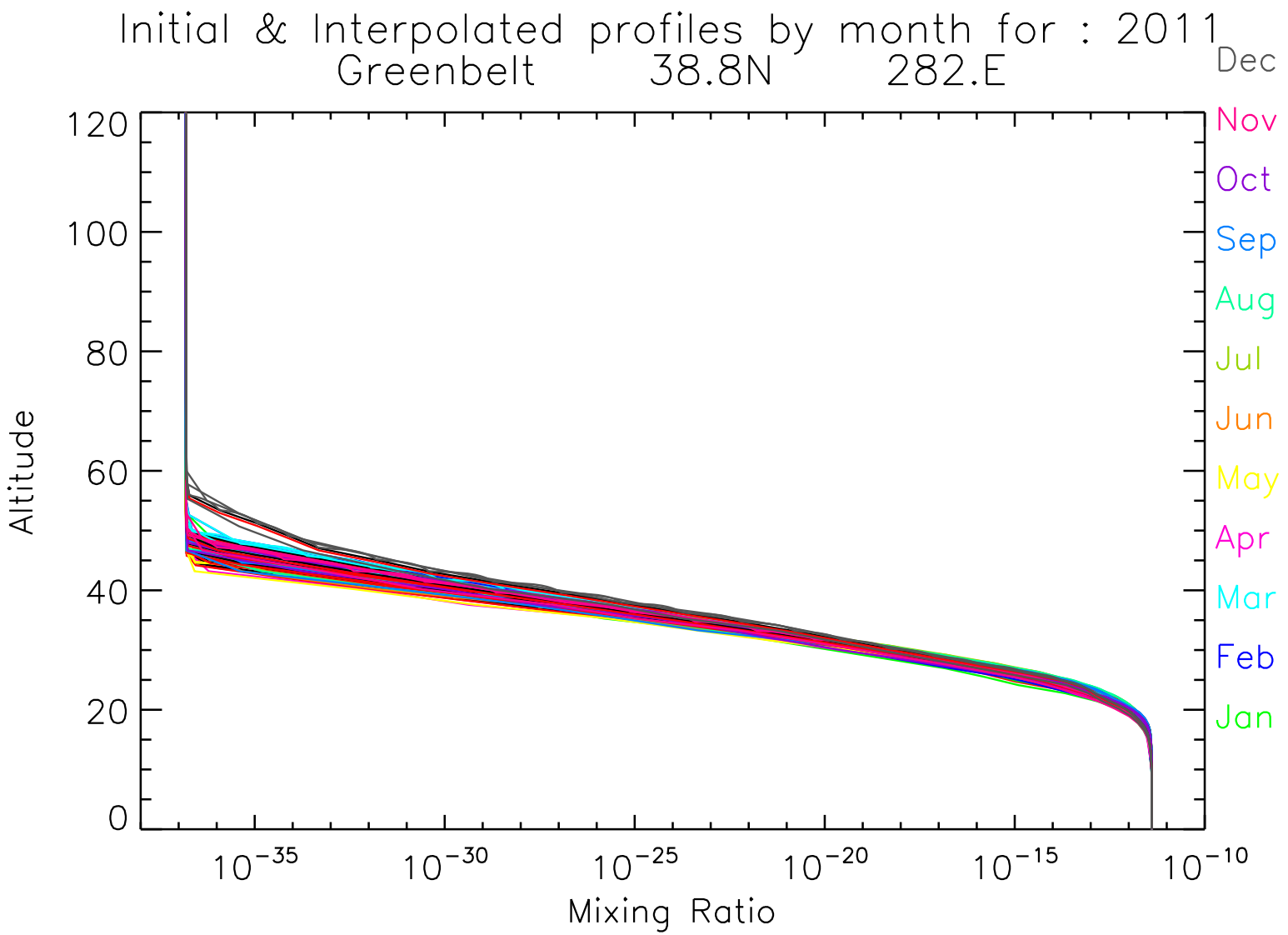
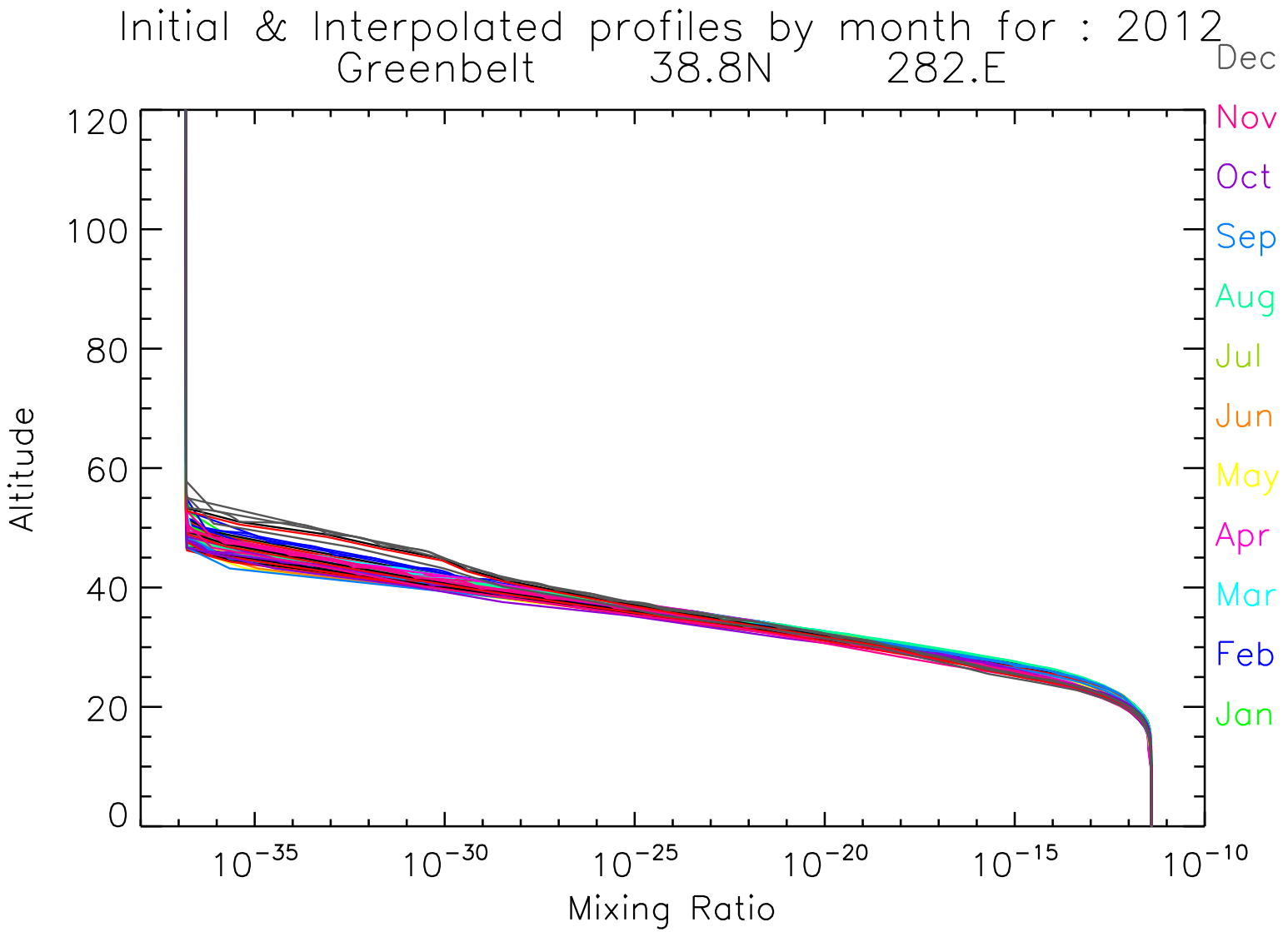
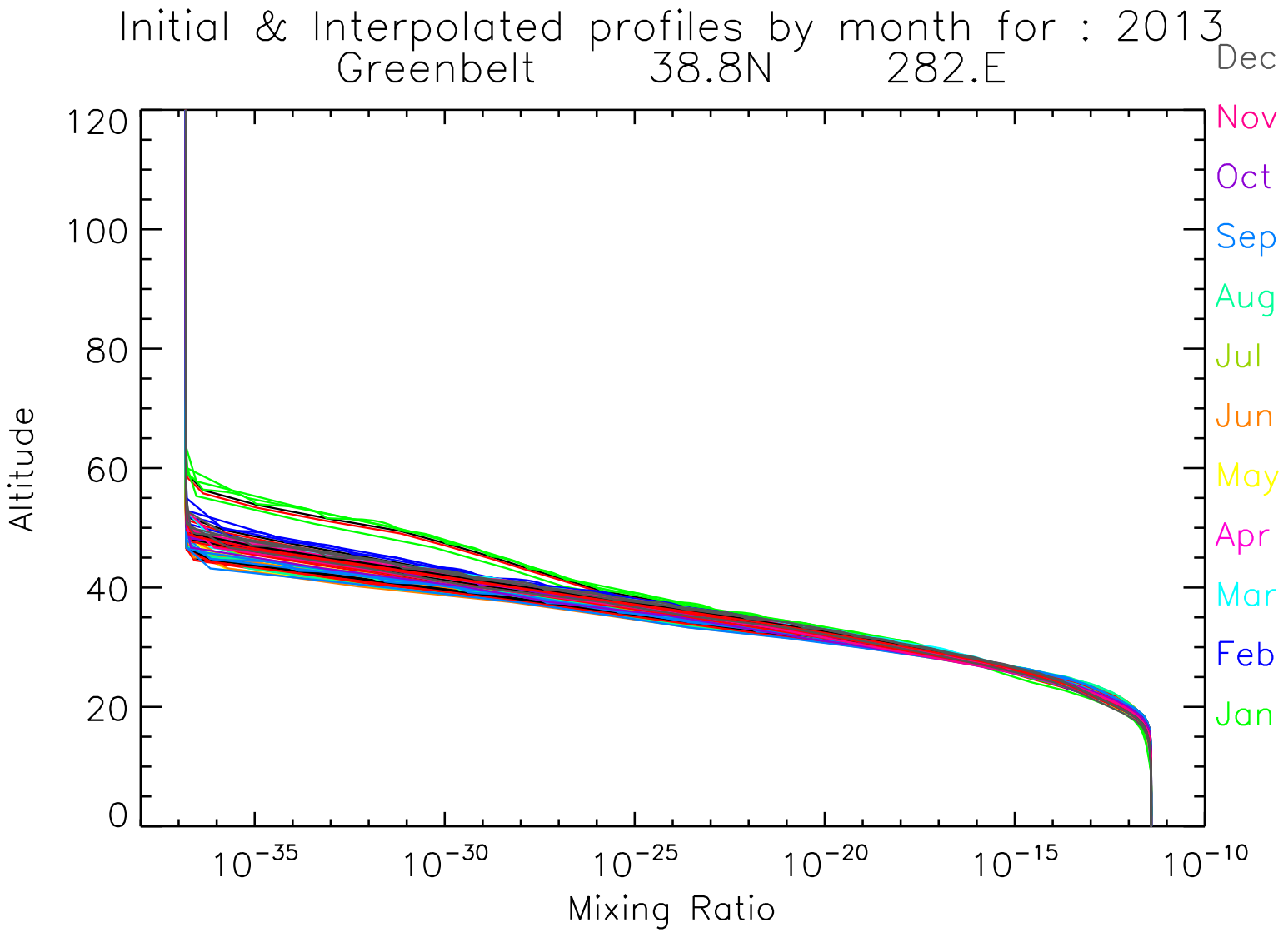
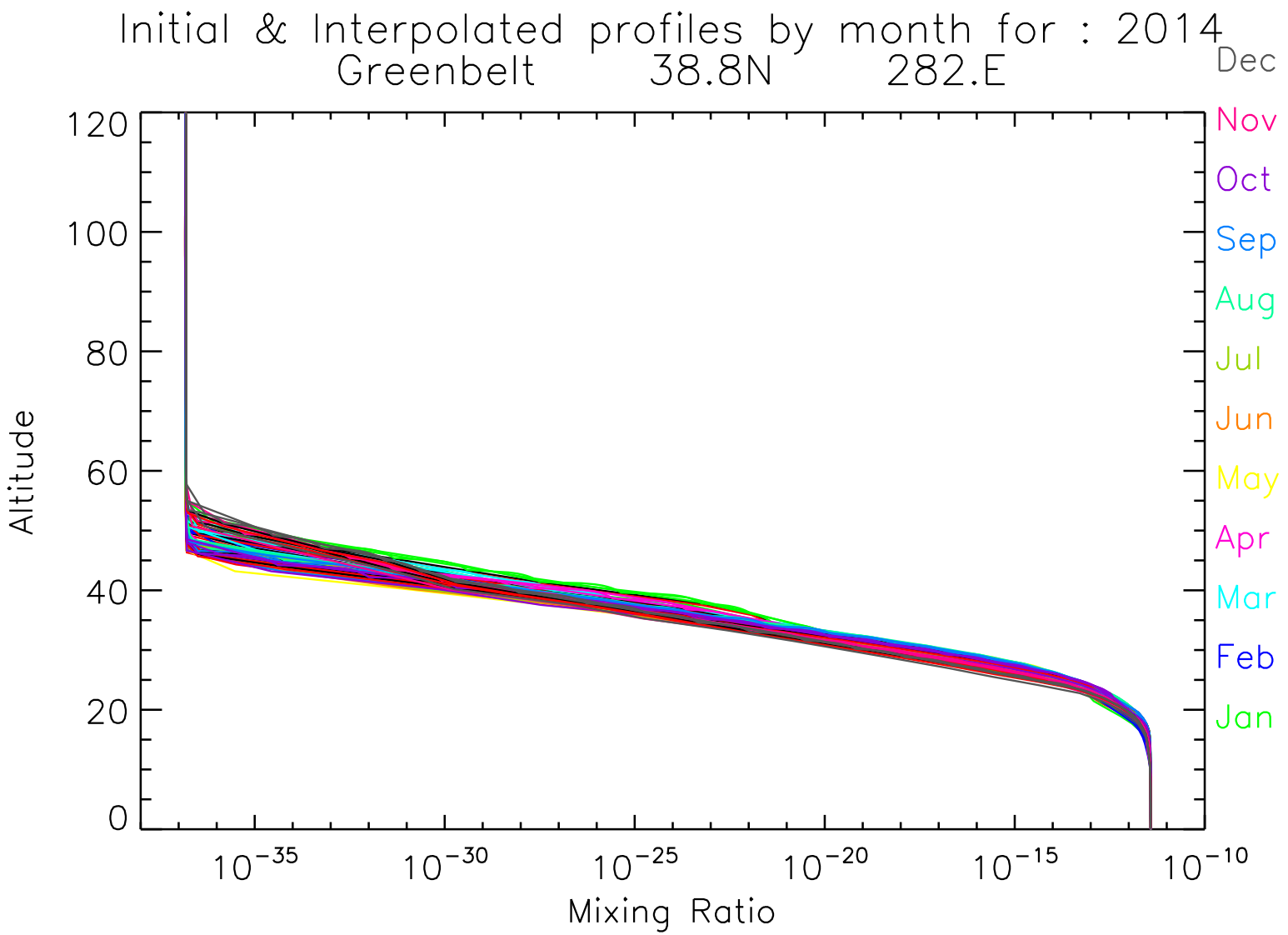
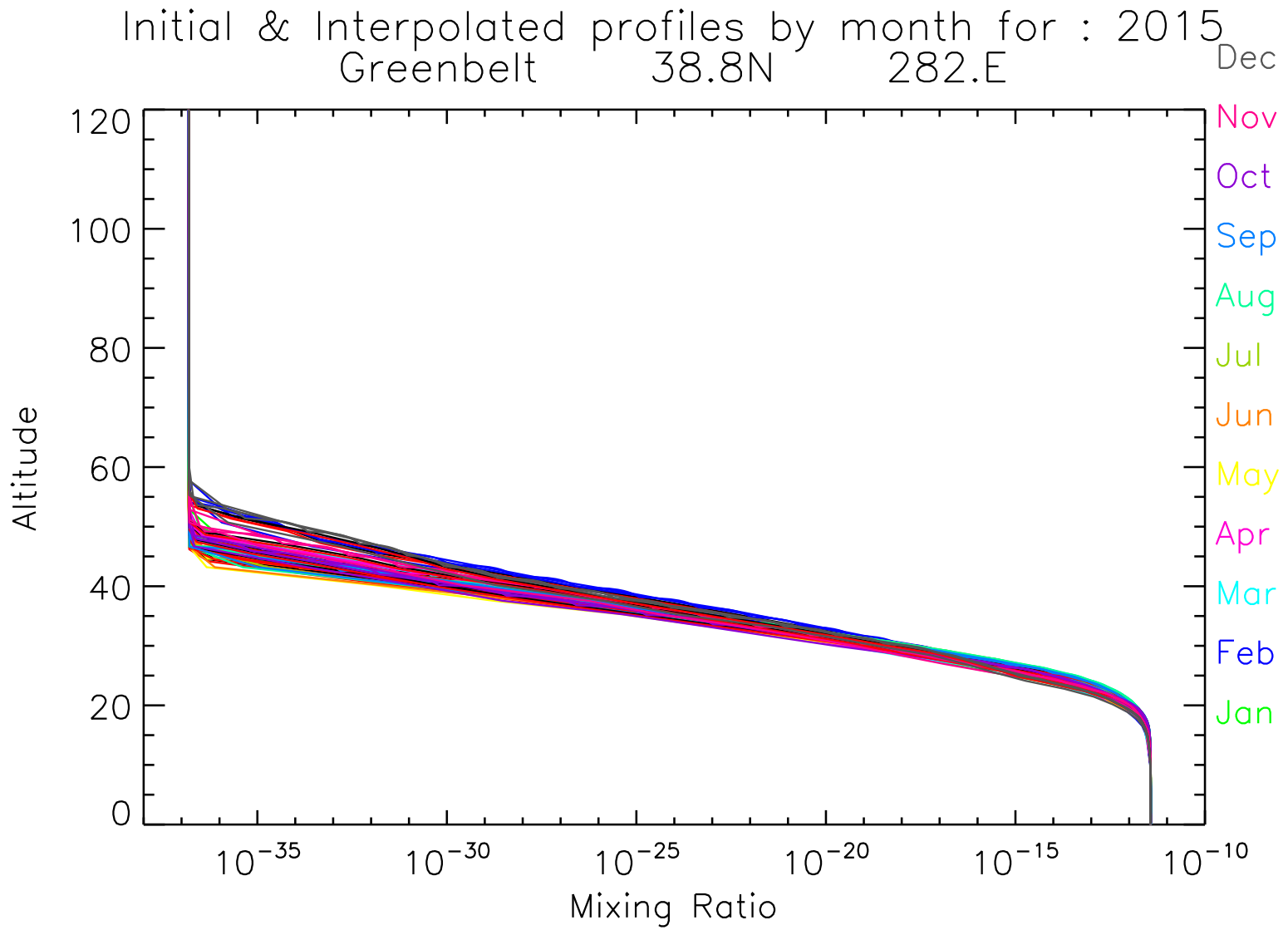
Mixing Ratio

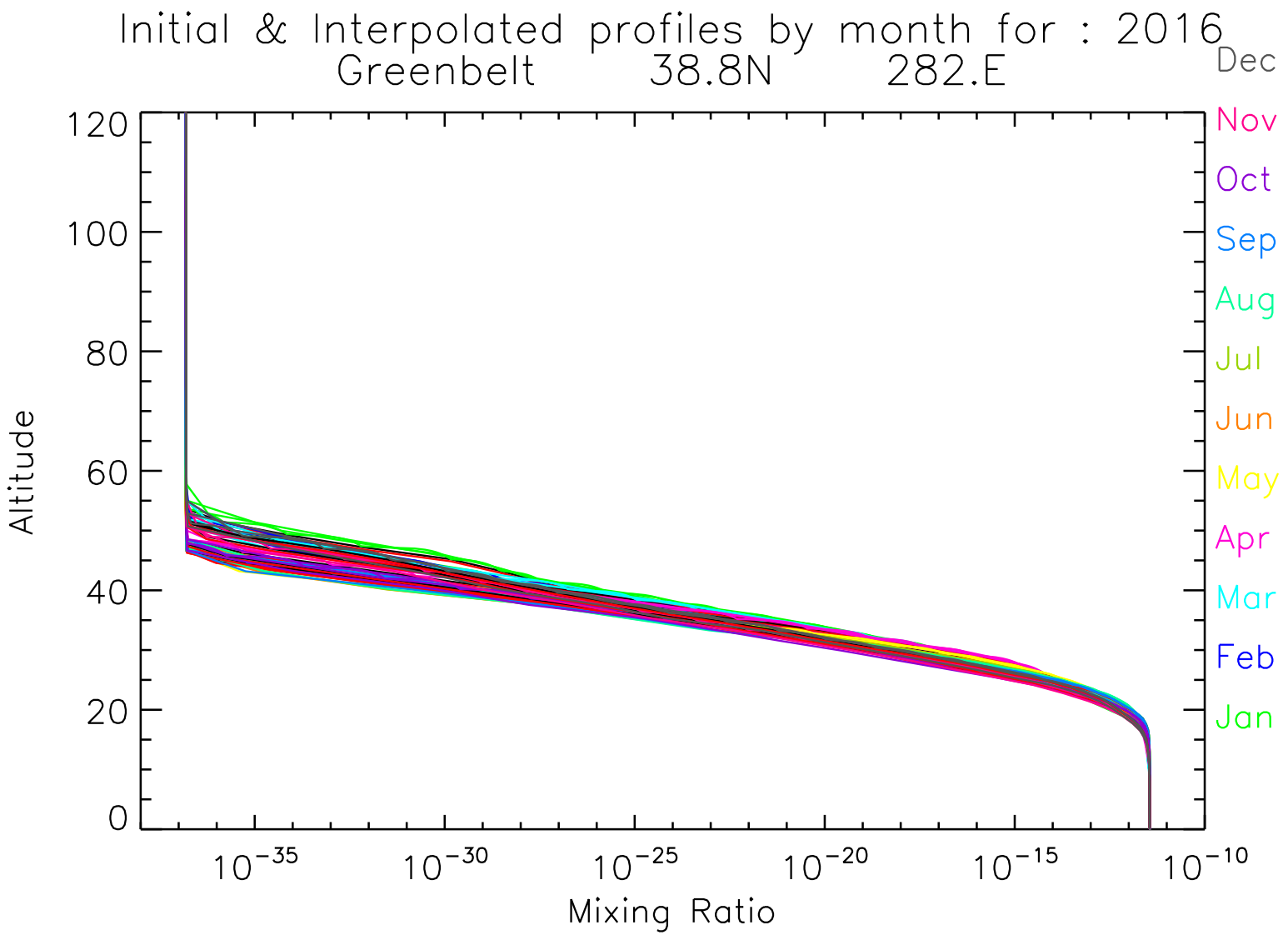

Initial & Interpolated profiles by month for : 2011
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

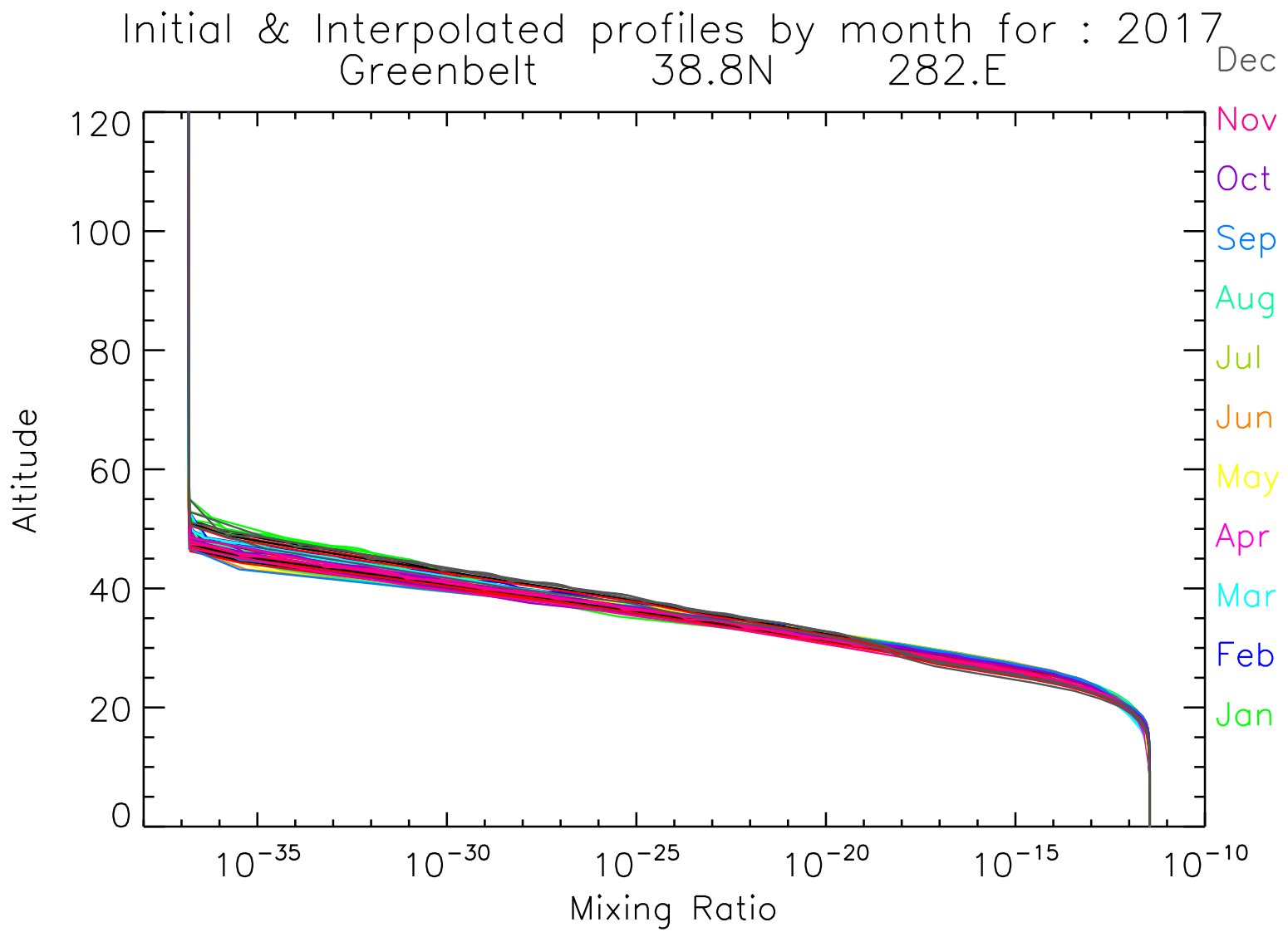

Initial & Interpolated profiles by month for : 2012
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

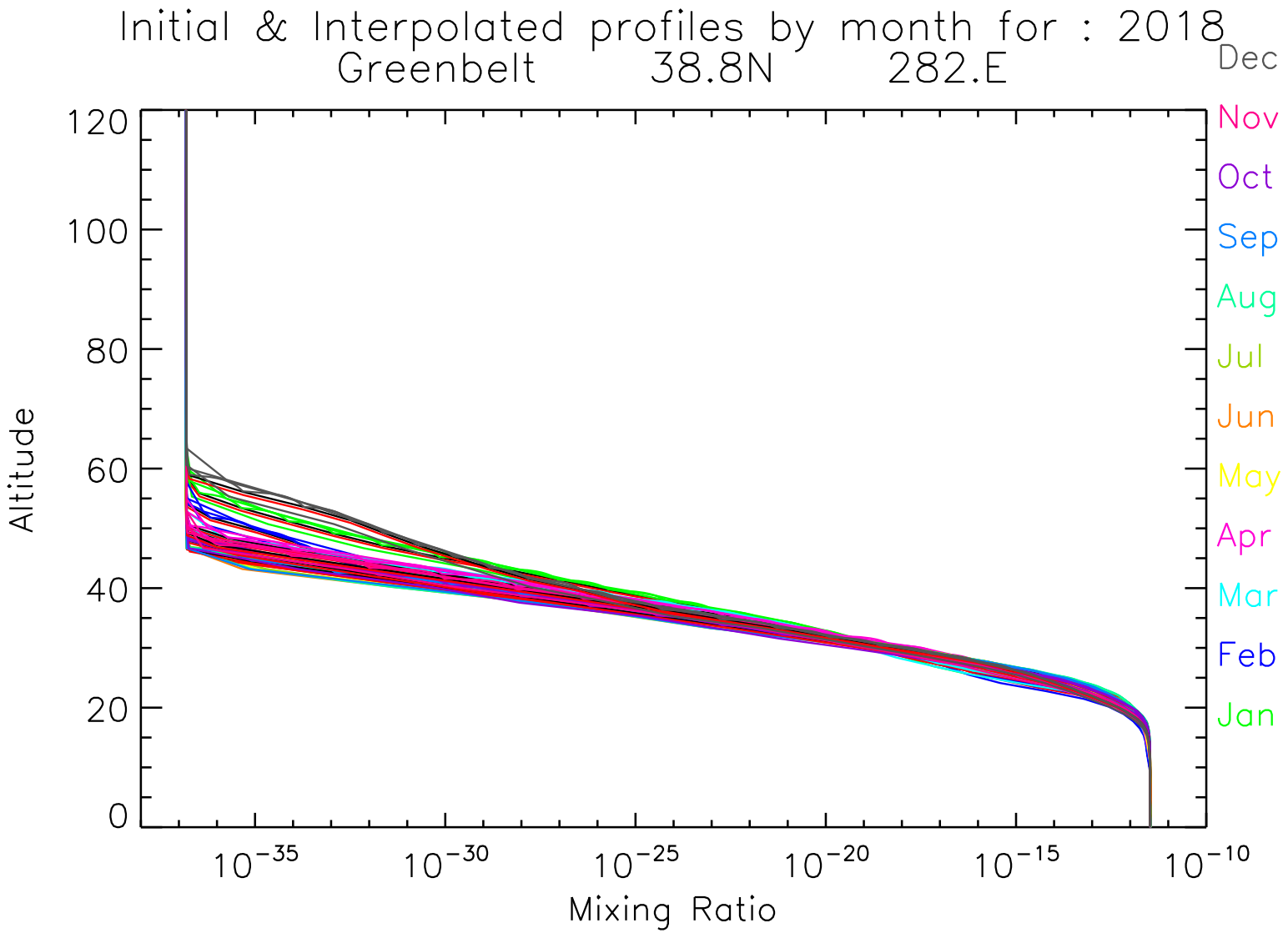

Initial & Interpolated profiles by month for : 2013
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

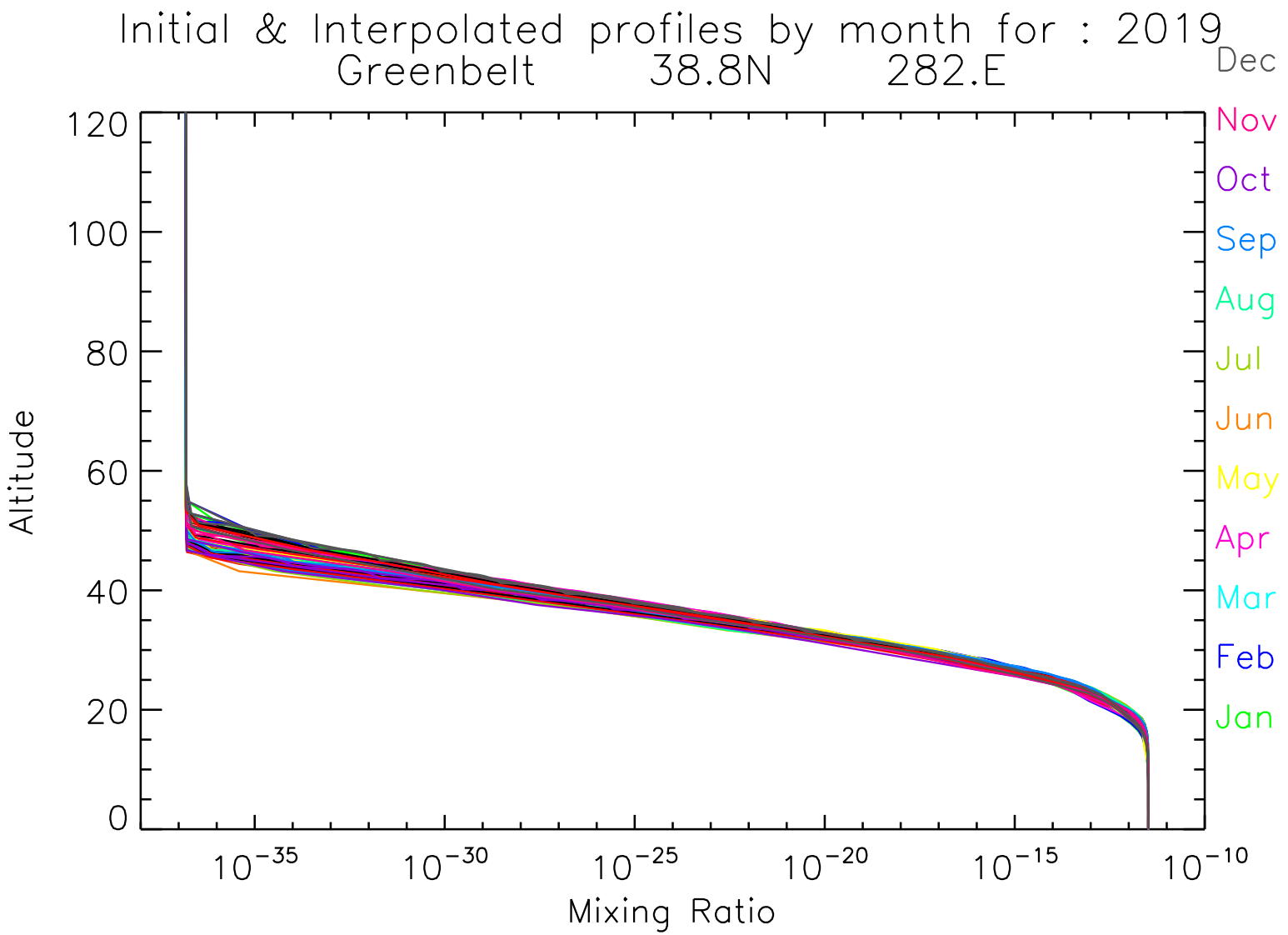

Initial & Interpolated profiles by month for : 2014
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

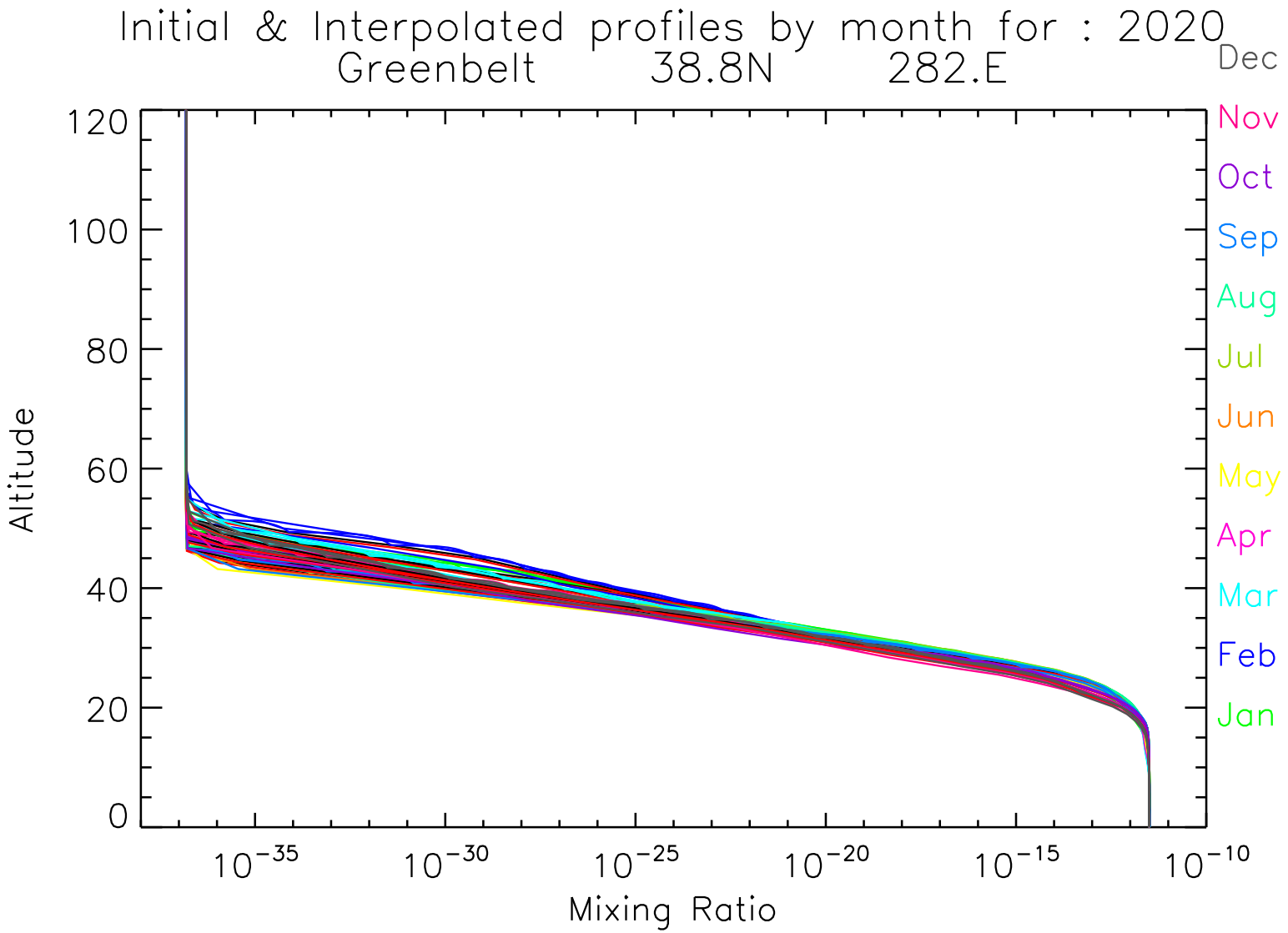

Initial & Interpolated profiles by month for : 2015
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

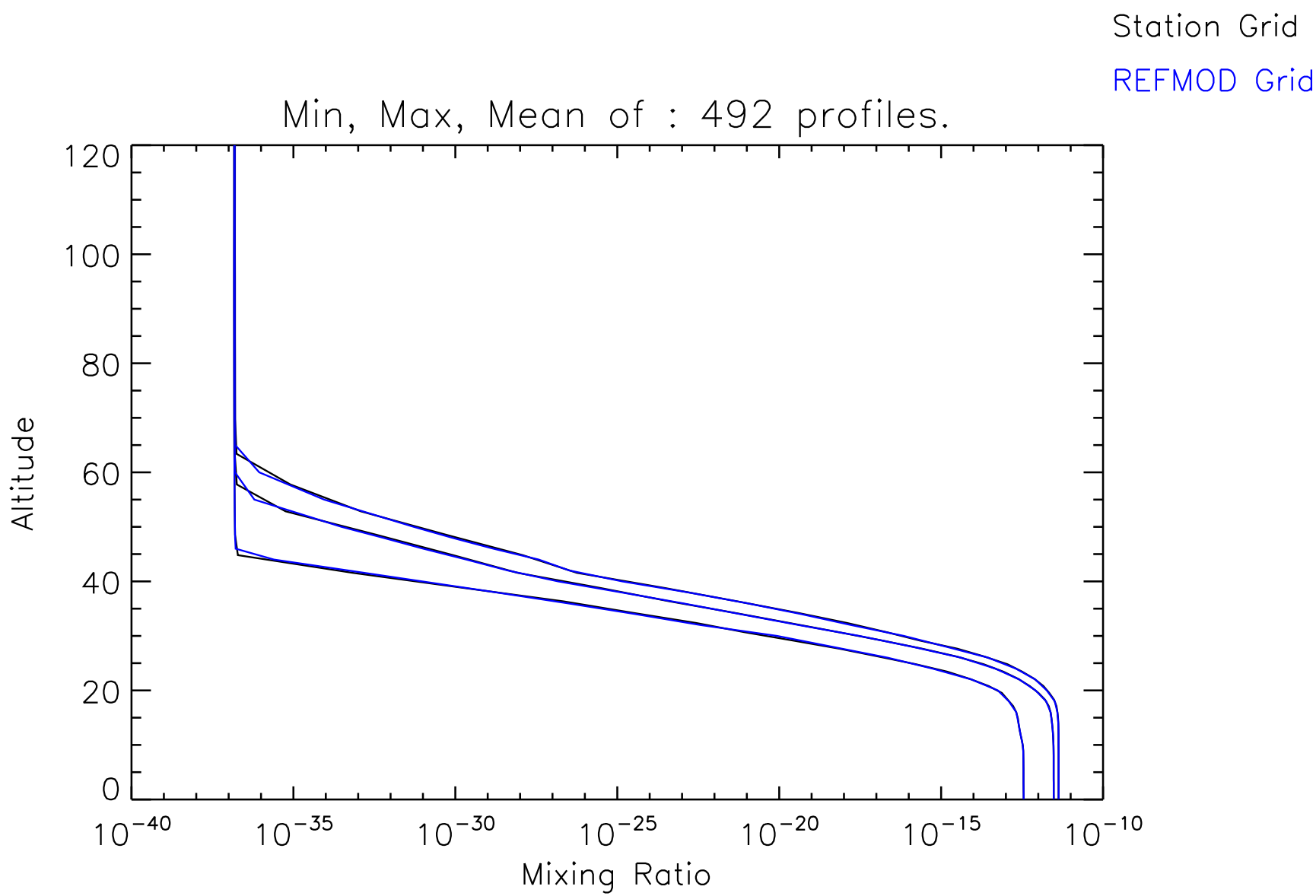

Initial & Interpolated profiles by month for : 2016
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

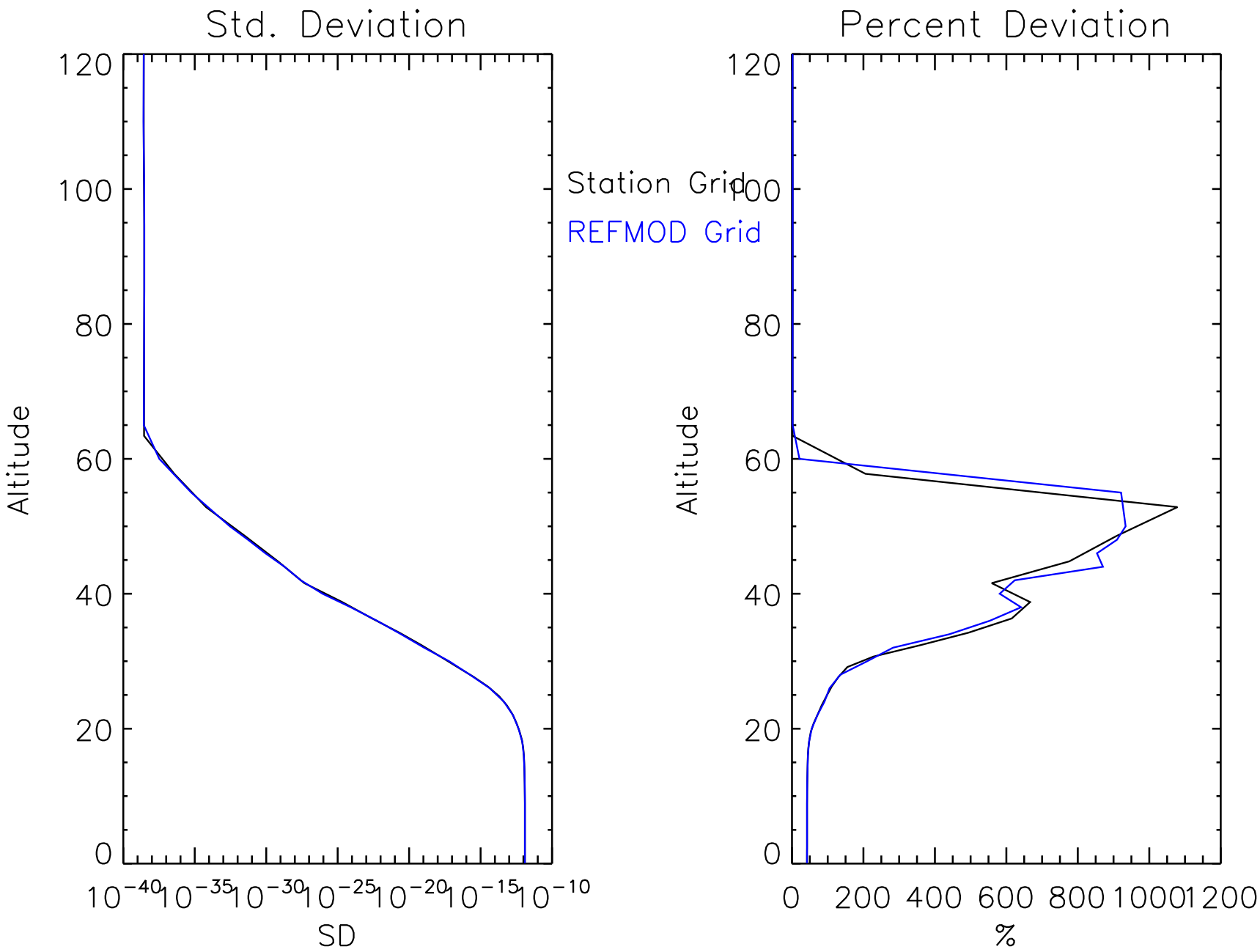

Initial & Interpolated profiles by month for : 2017
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

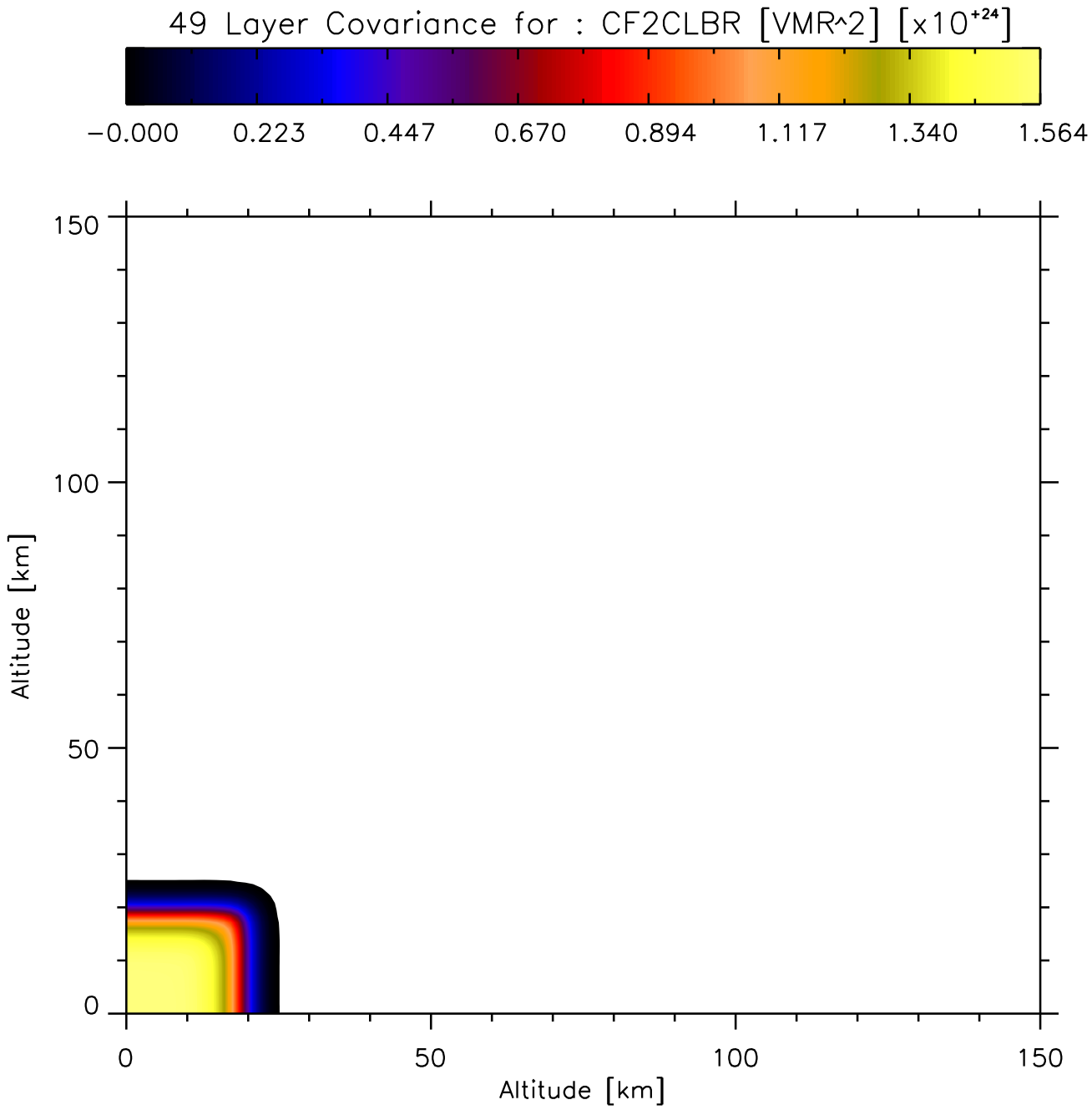

Initial & Interpolated profiles by month for : 2018
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

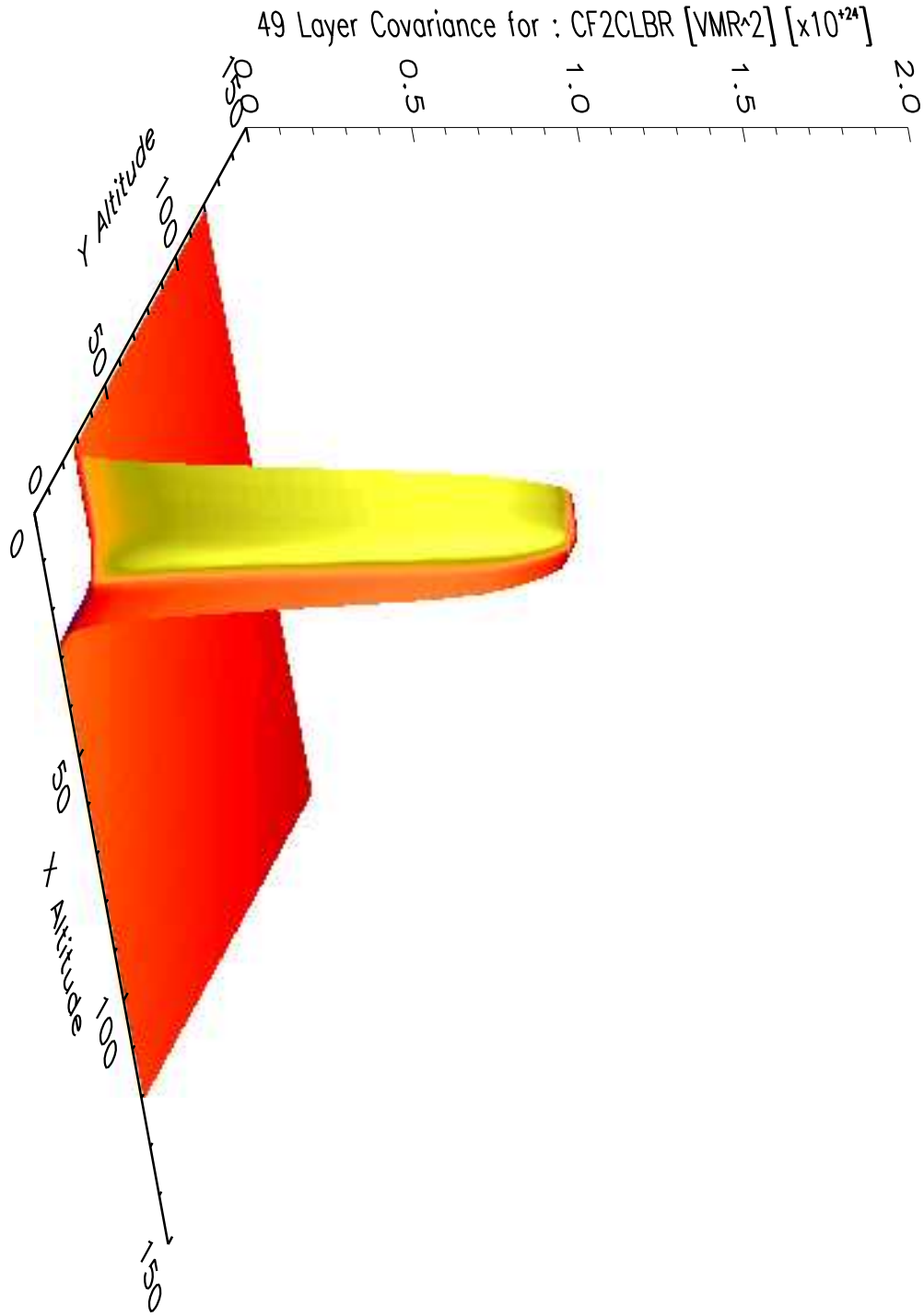

Initial & Interpolated profiles by month for : 2019
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

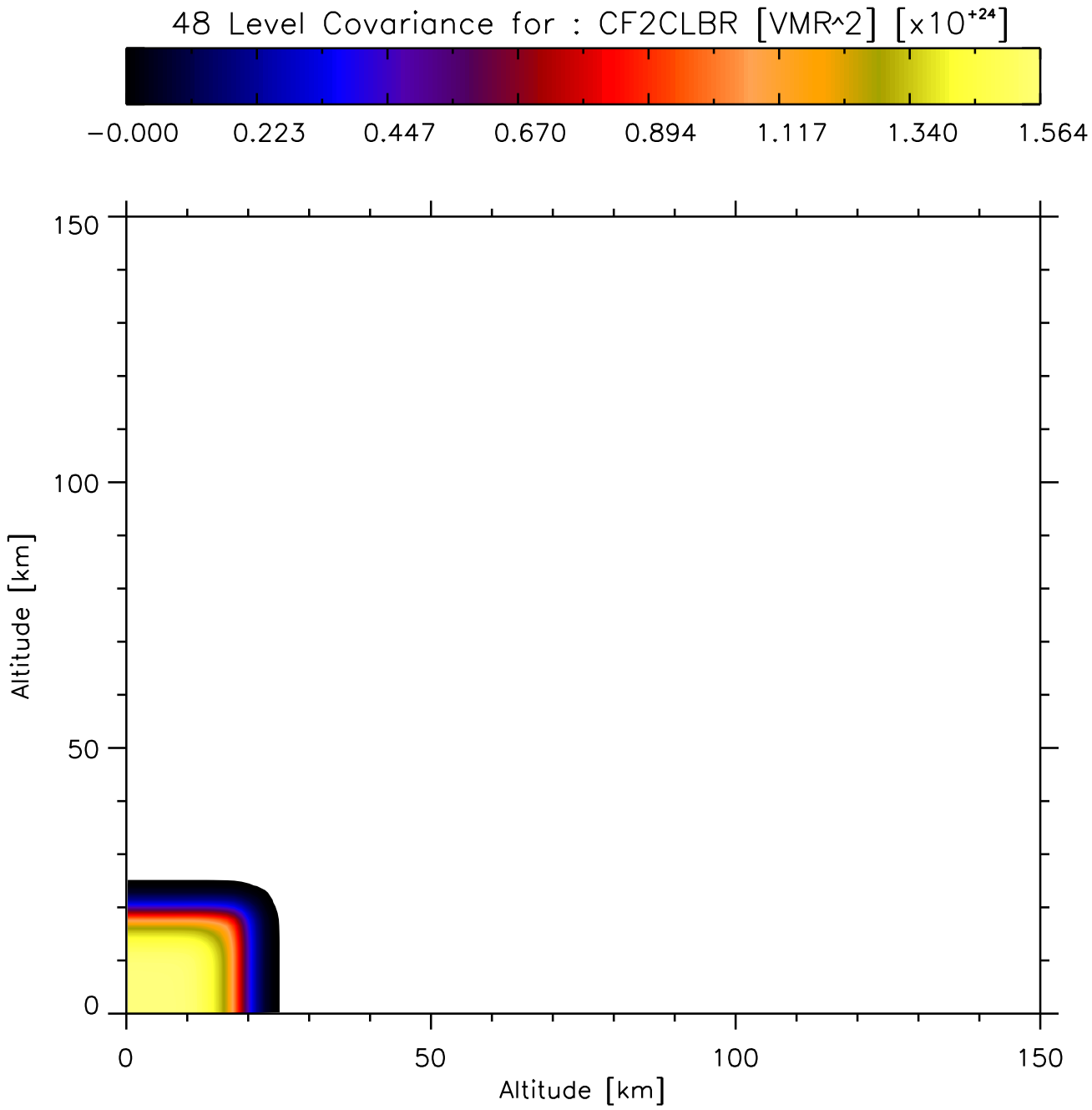

Initial & Interpolated profiles by month for : 2020
Greenbelt 38.8N 282.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-40}
10^{-35}
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^{-40} 10^{-35} 10^{-30} 10^{-25} 10^{-20} 10^{-15} 10^{-10}
SD
0 200 400 600 800 1000 1200
%


49 Layer Covariance for : CF2CLBR [VMR^2] [x10^+24]
−0.000
0.223
0.447
0.670
0.894
1.117
1.340
1.564
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


49 Layer Covariance for : CF2CLBR [VMR^2] [x10^+24]
0.0
0.5
1.0
1.5
2.0
Y Altitude
150
100
50
0
X Altitude
0
50
100
150


48 Level Covariance for : CF2CLBR [VMR^2] [x10+24]
−0.000
0.223
0.447
0.670
0.894
1.117
1.340
1.564
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : CF2CLBR [VMR^2] [x10^24]
X Altitude
Y Altitude
0
50
100
150
0
30
60
90
0.0
0.5
1.0
1.5
2.0