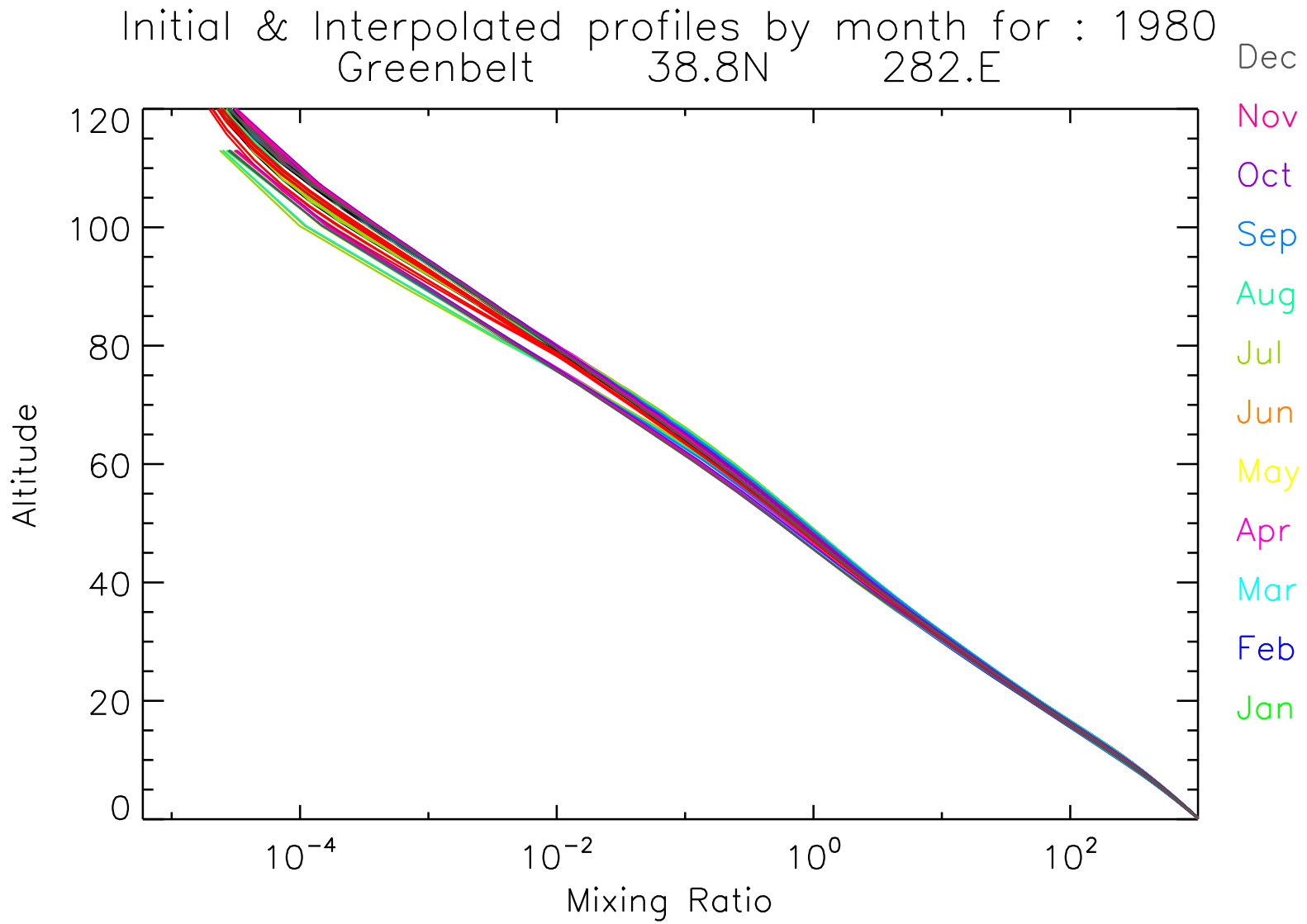
Initial & Interpolated profiles by month for : 1980
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Altitude
120
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Mixing Ratio
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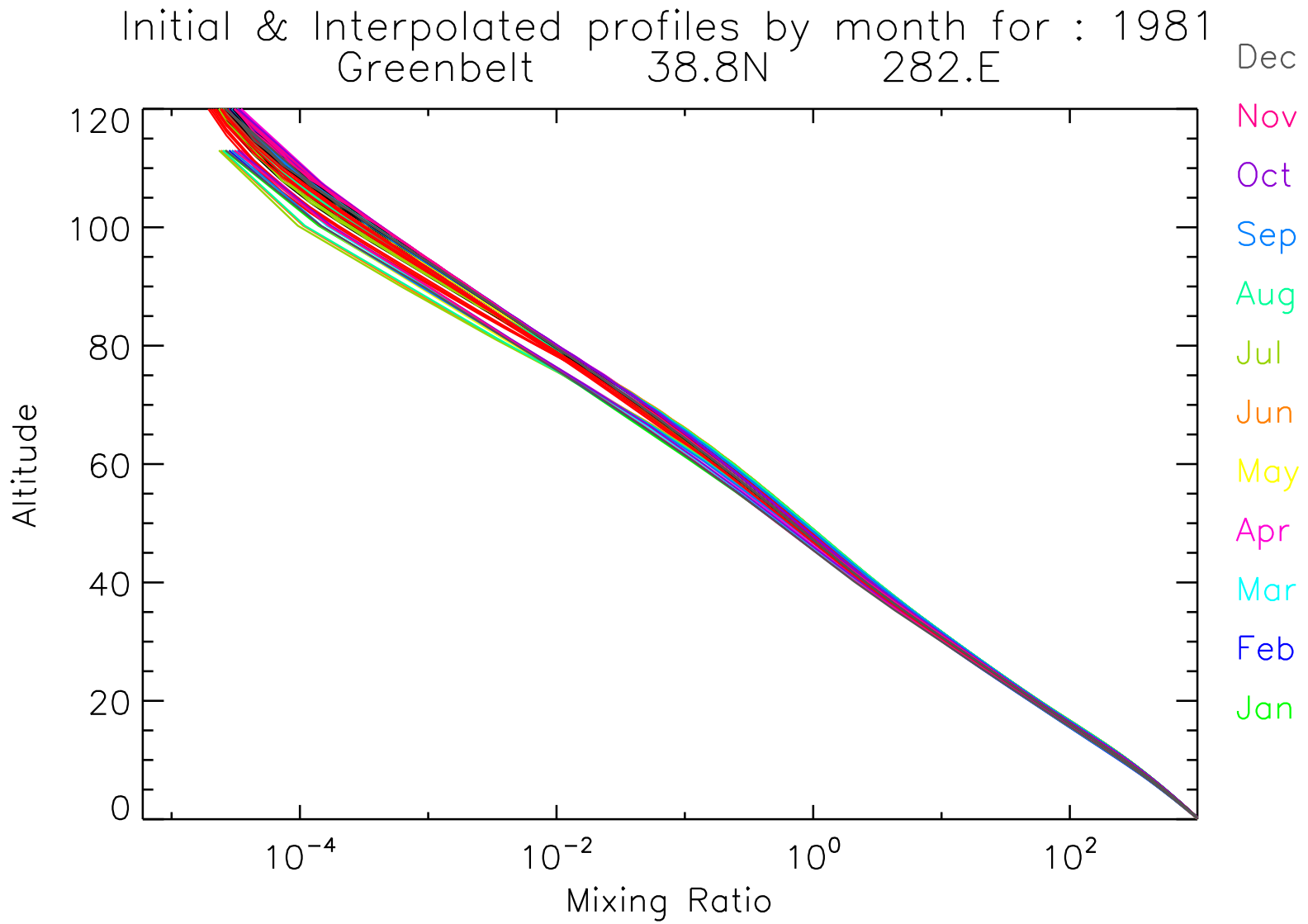
Initial & Interpolated profiles by month for : 1981
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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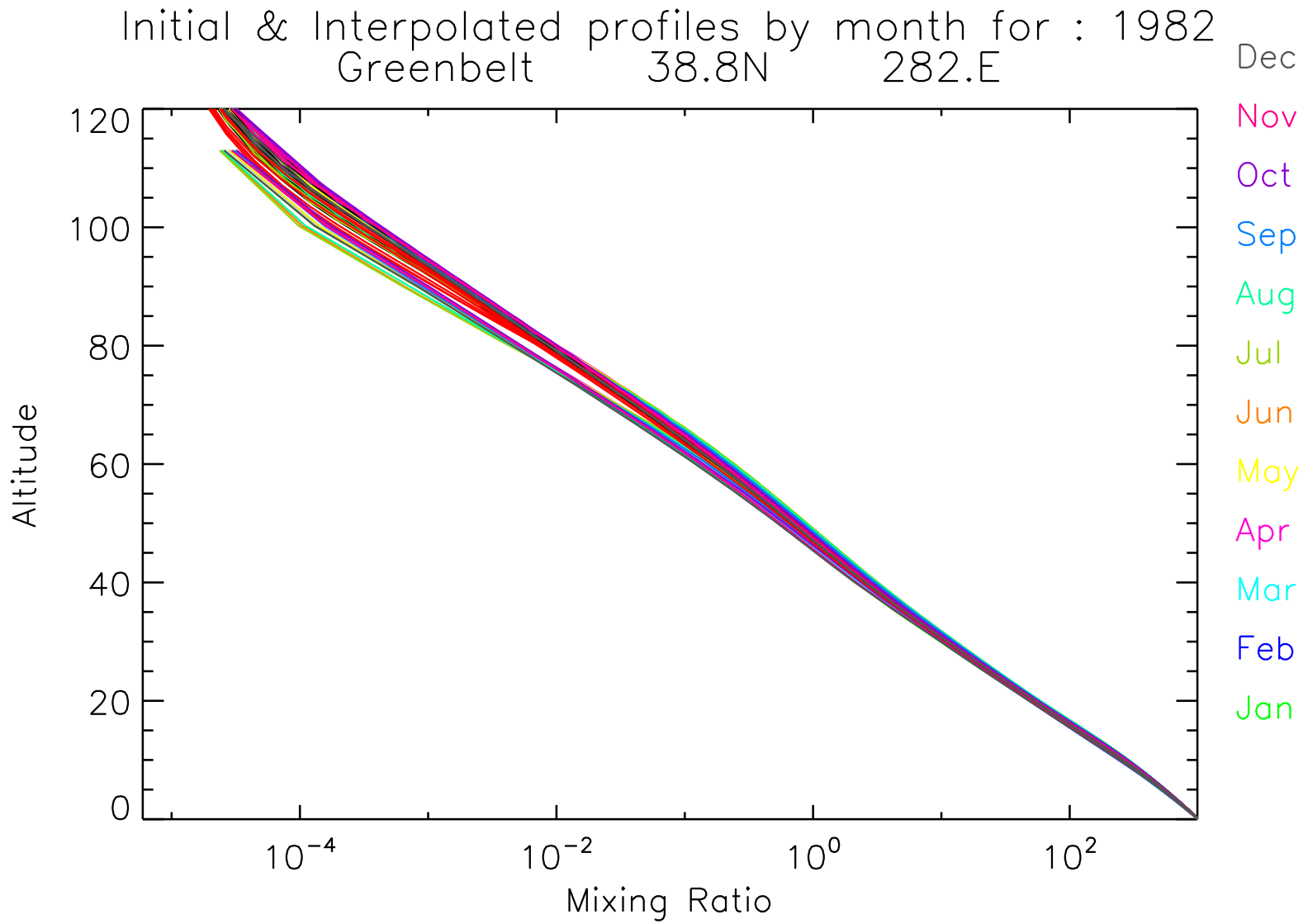
Initial & Interpolated profiles by month for : 1982
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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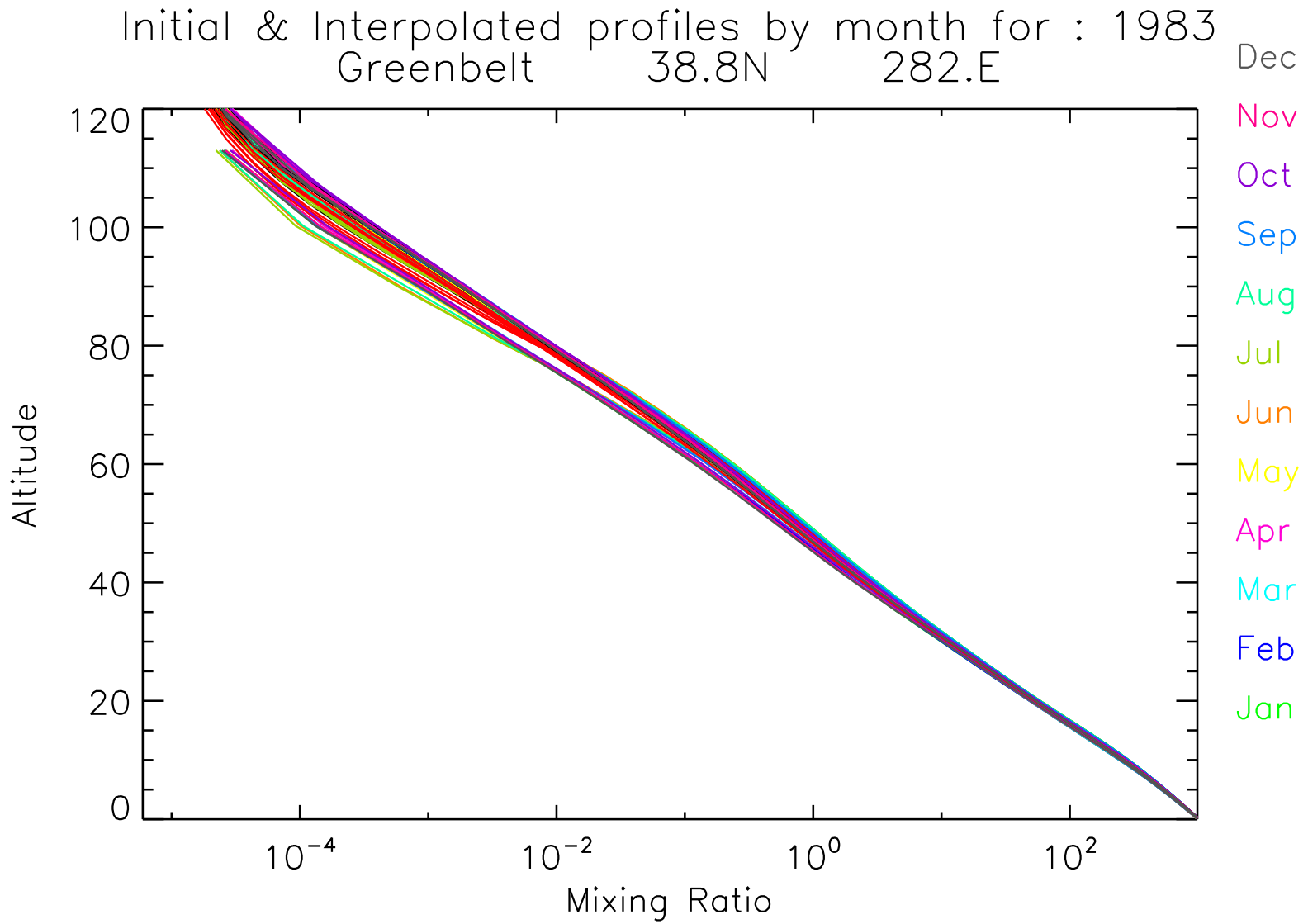
Initial & Interpolated profiles by month for : 1983
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Altitude
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Mixing Ratio
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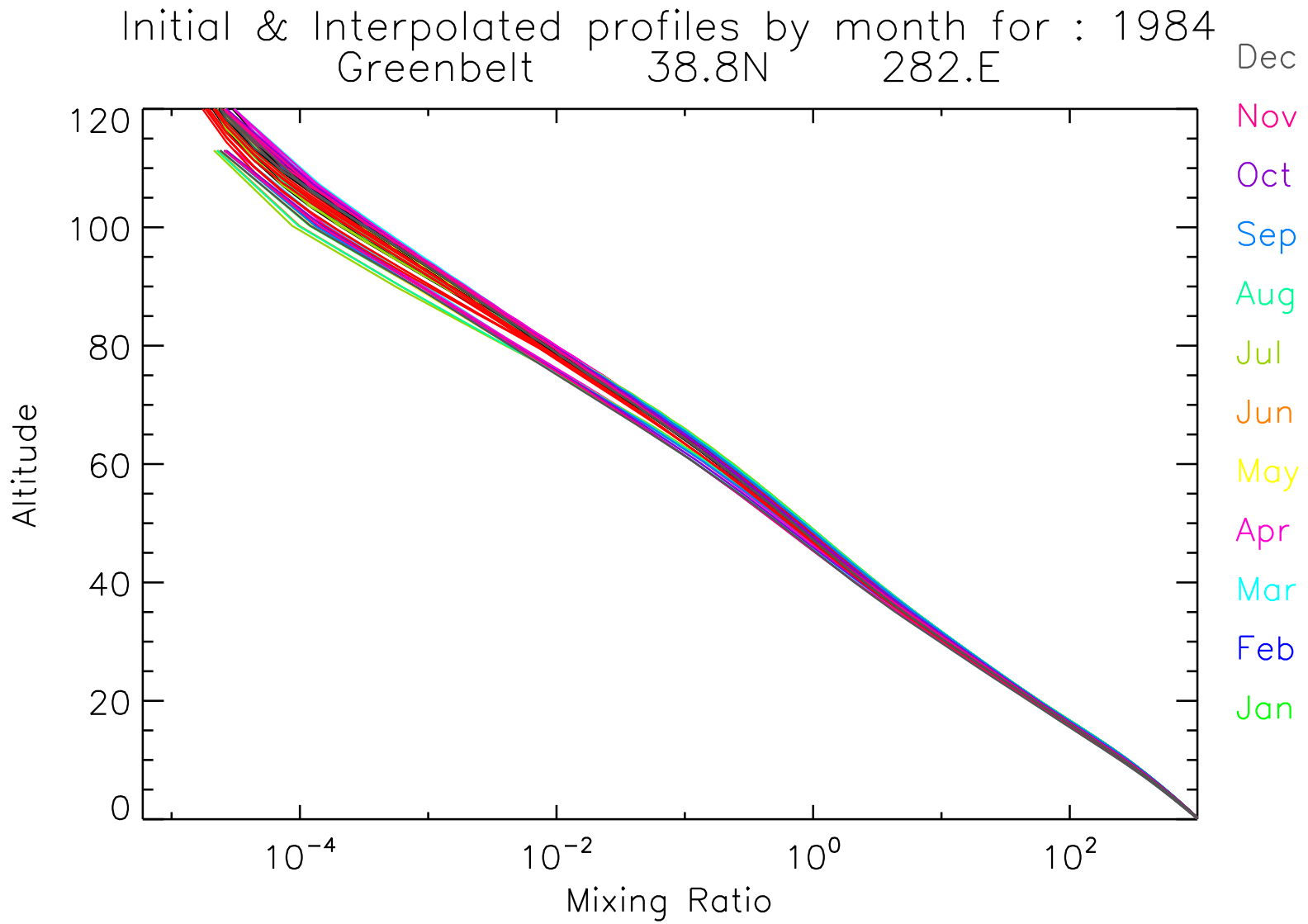
Initial & Interpolated profiles by month for : 1984
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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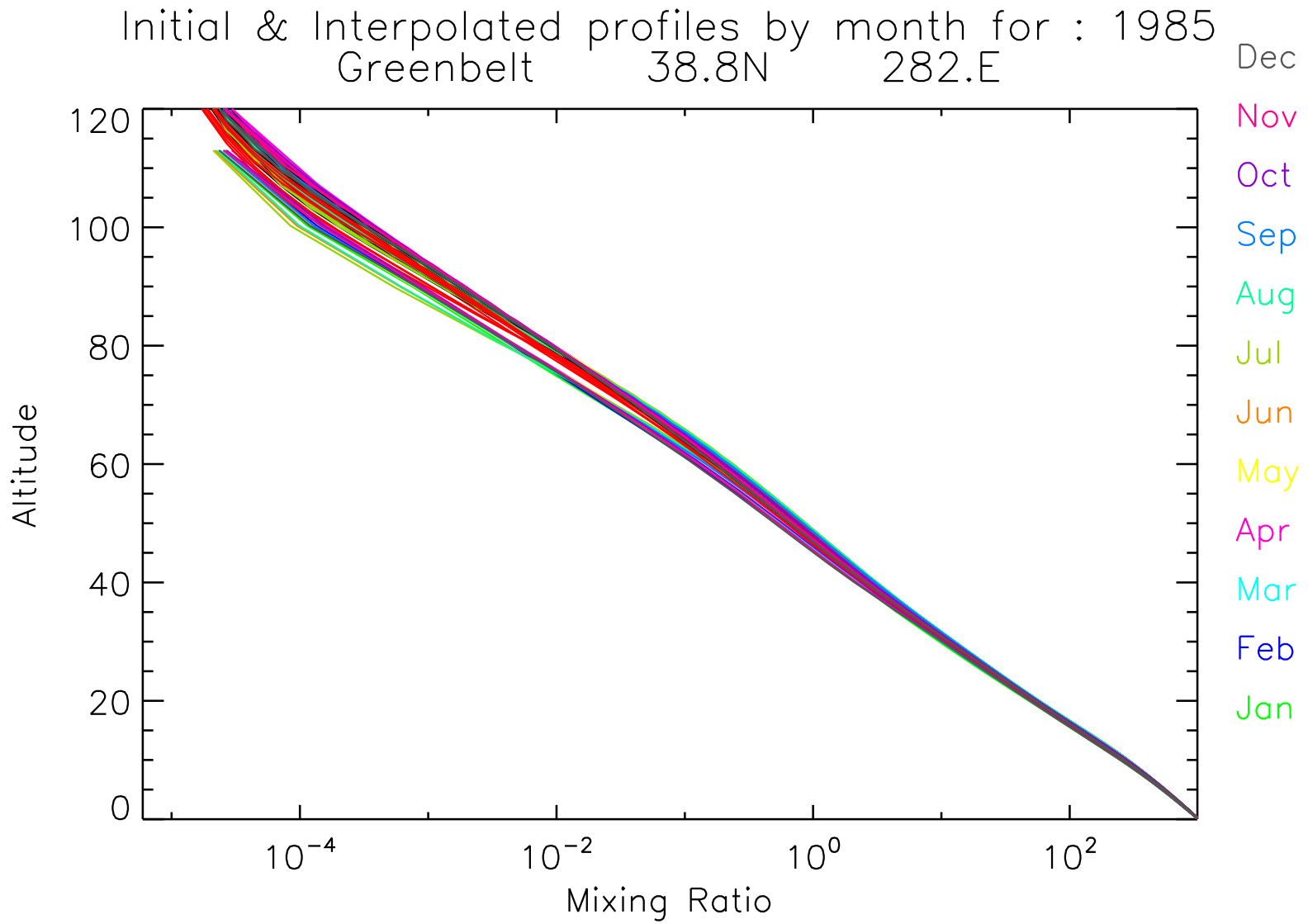
Initial & Interpolated profiles by month for : 1985
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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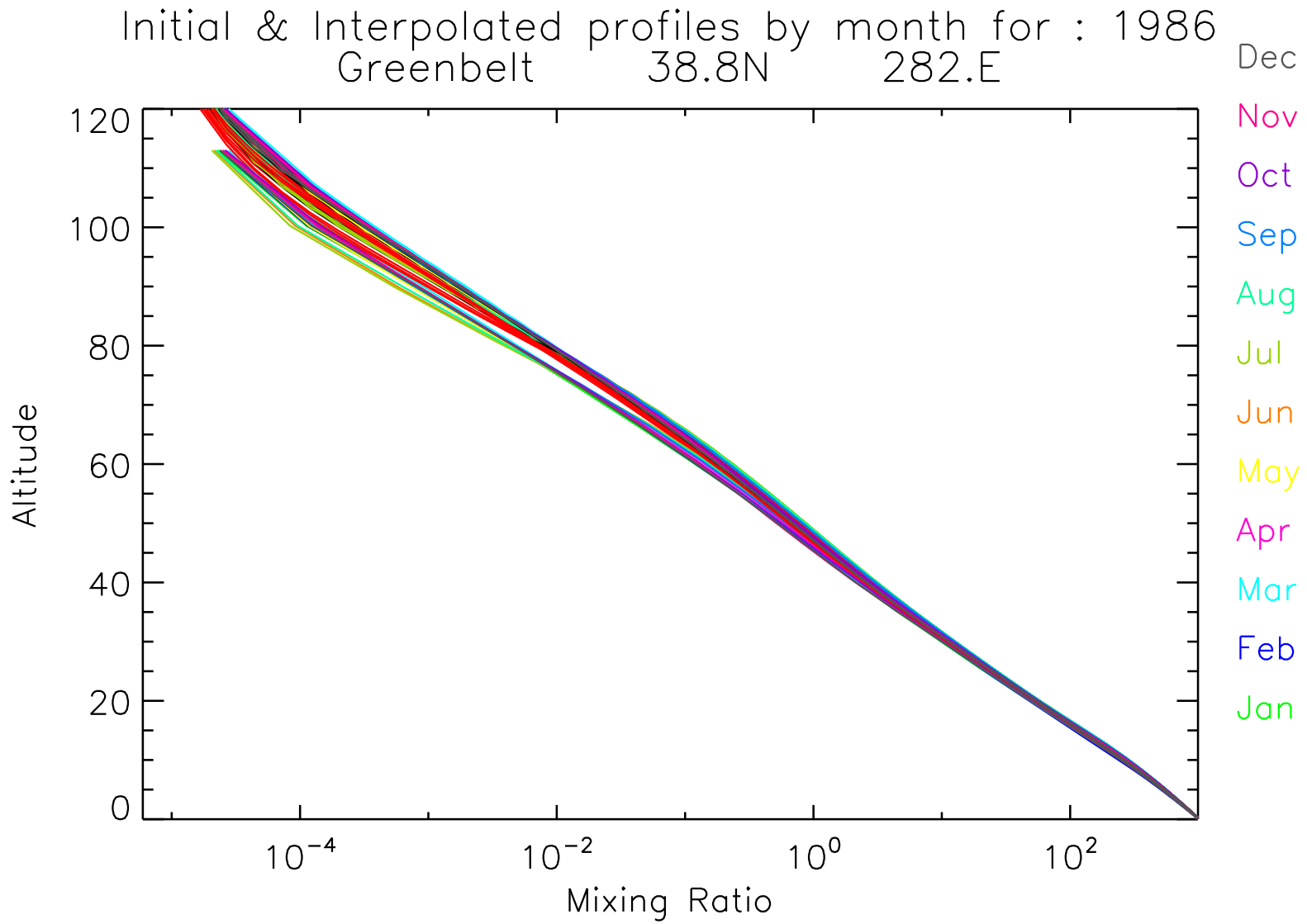
Initial & Interpolated profiles by month for : 1986
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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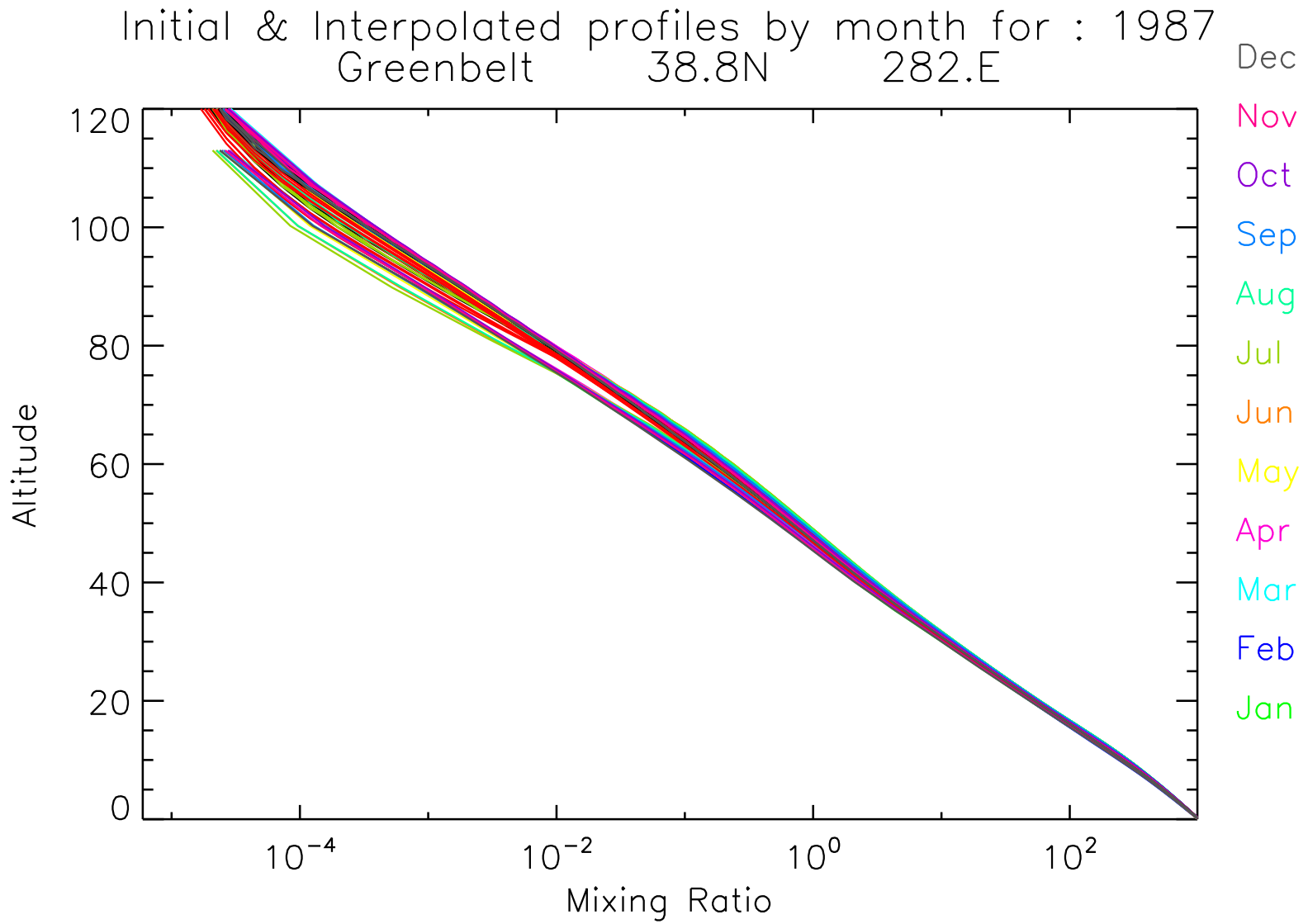
Initial & Interpolated profiles by month for : 1987
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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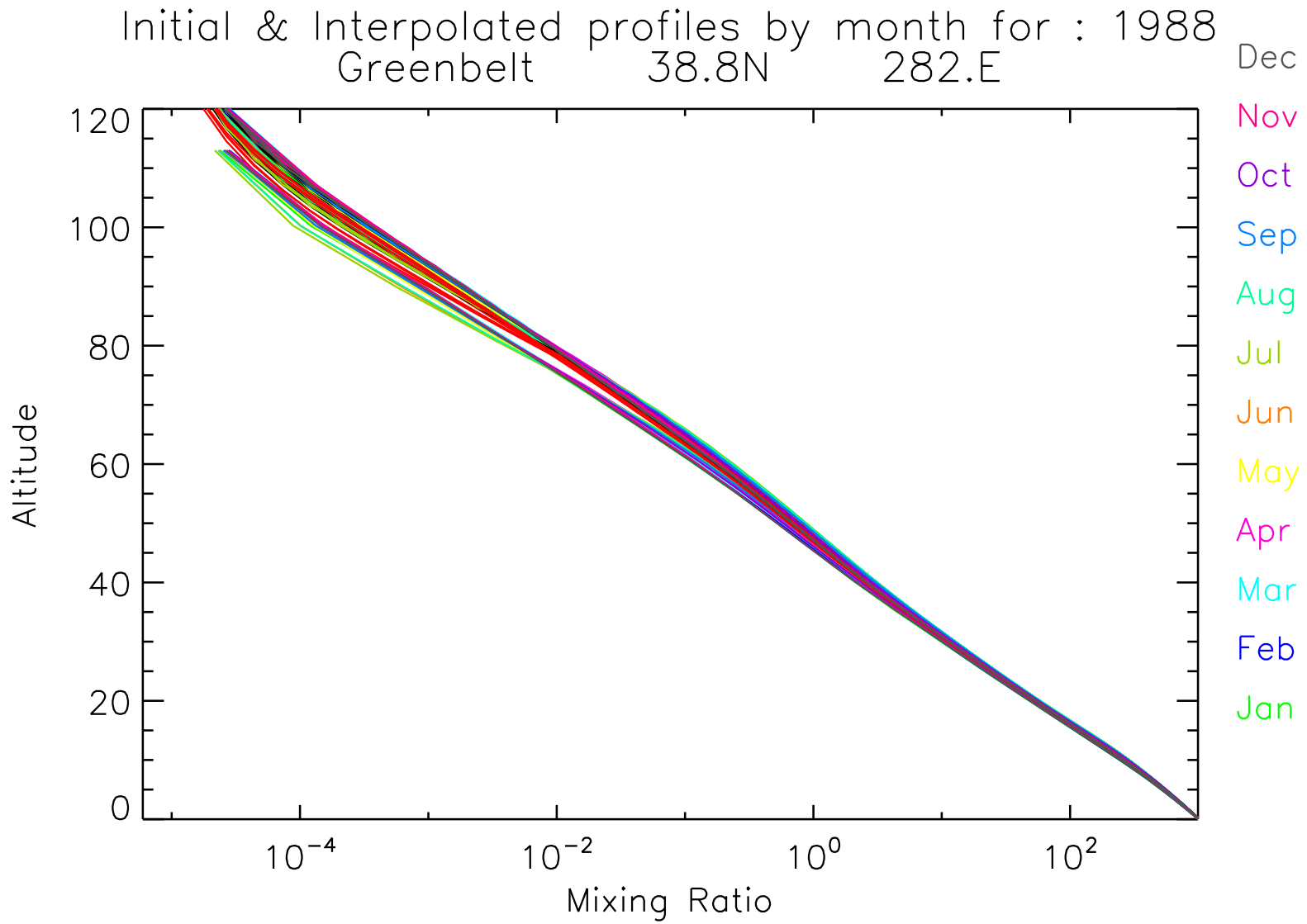
Initial & Interpolated profiles by month for : 1988
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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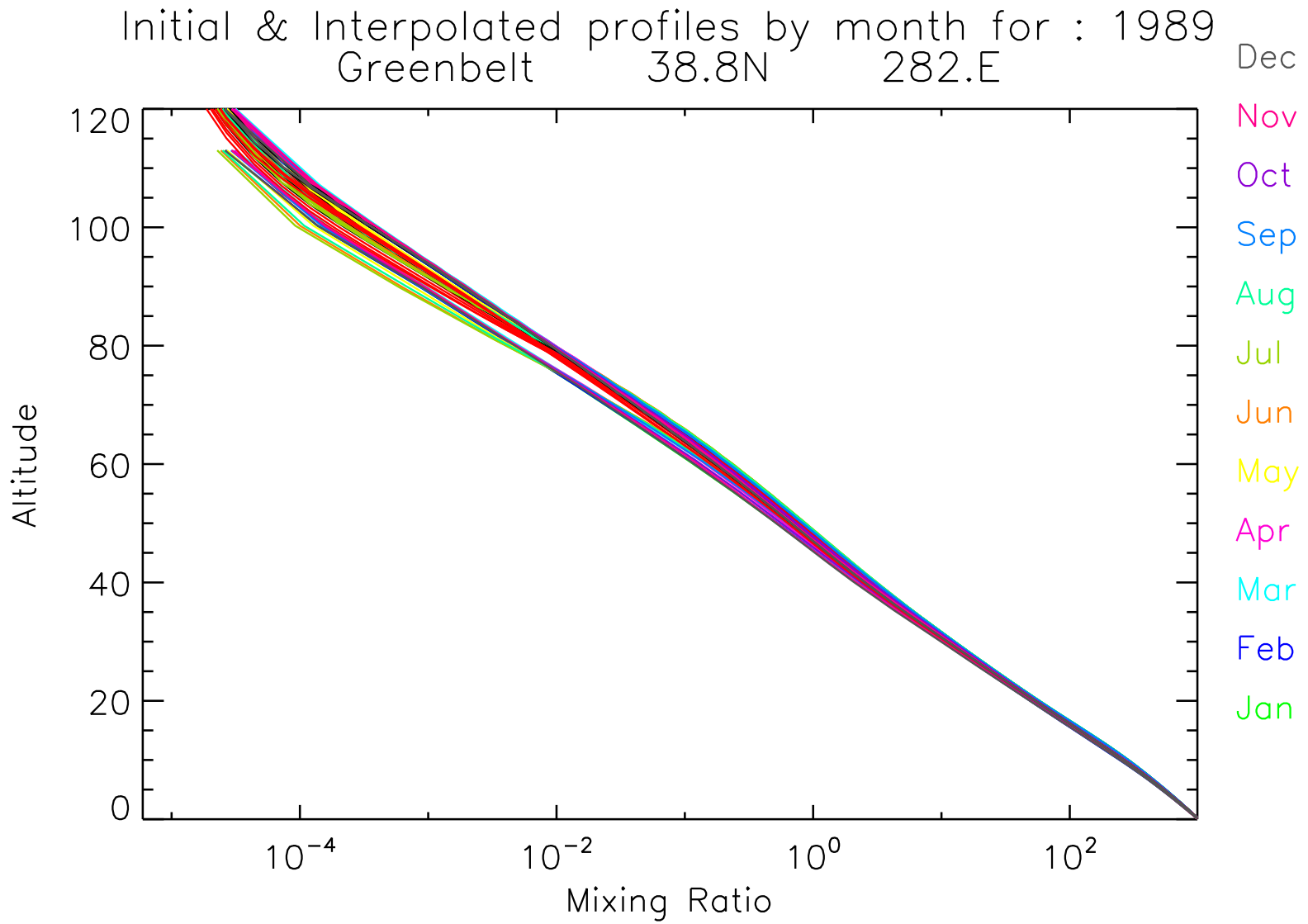
Initial & Interpolated profiles by month for : 1989
Greenbelt 38.8N 282.E
Altitude
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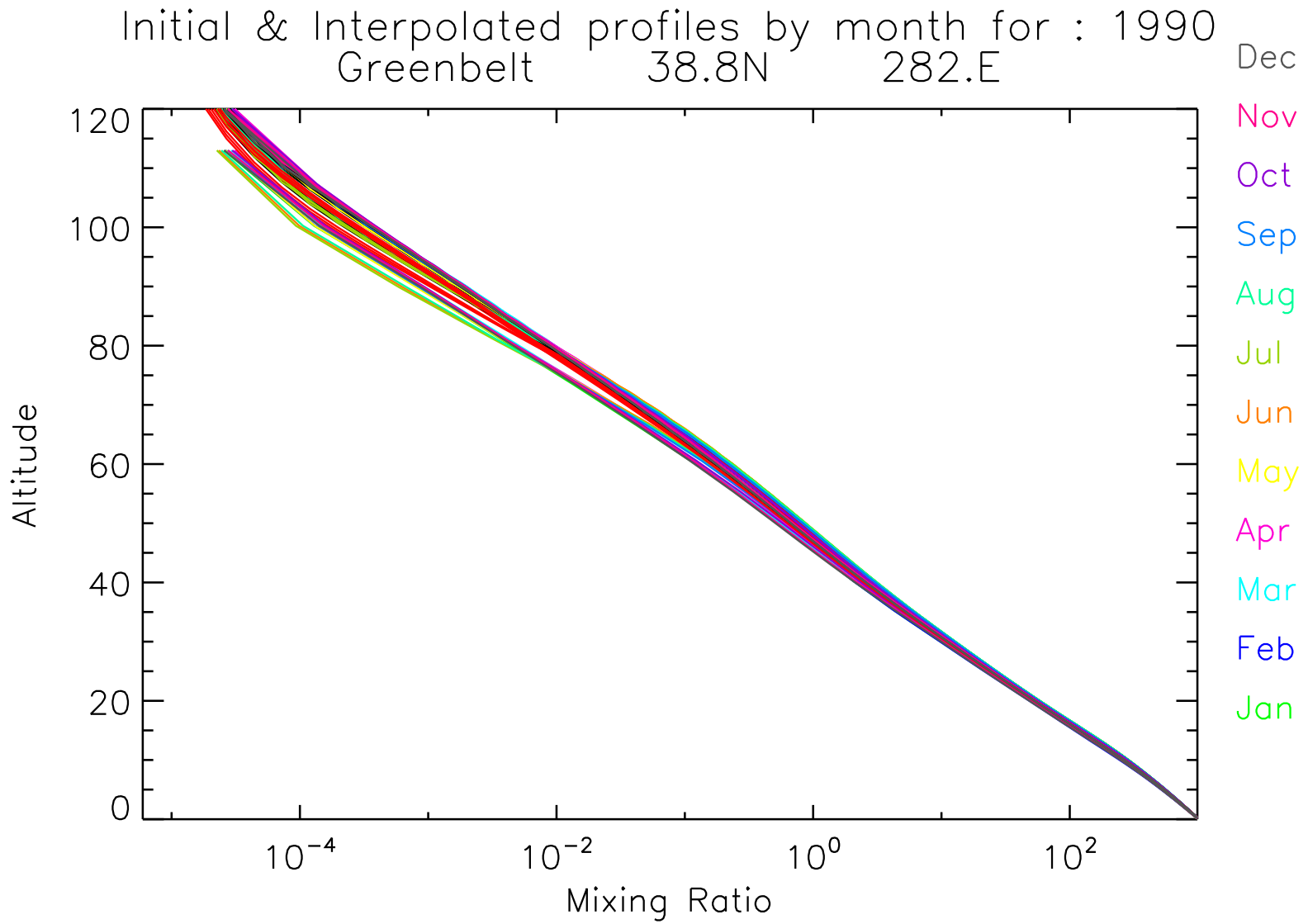
Initial & Interpolated profiles by month for : 1990
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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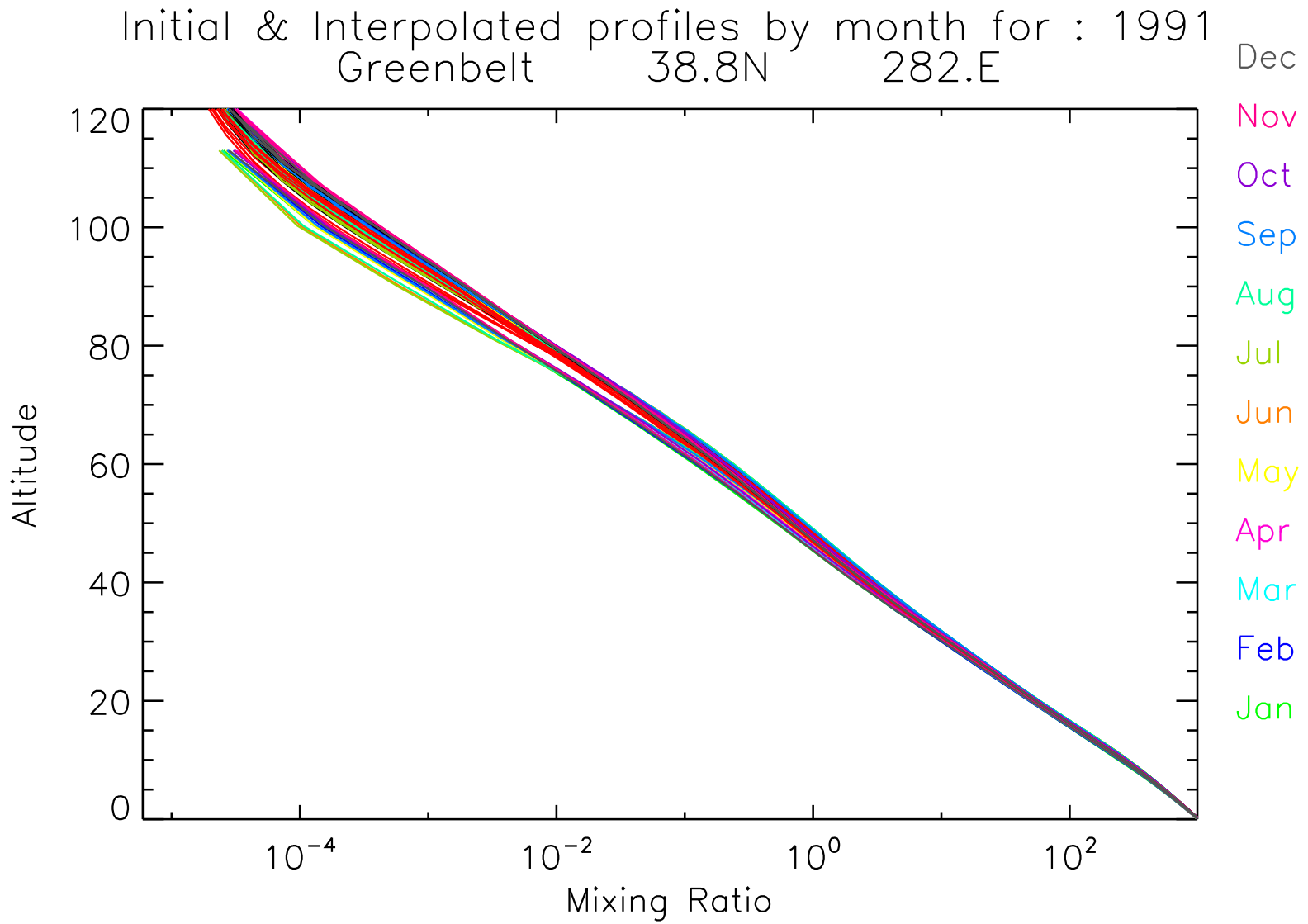
Initial & Interpolated profiles by month for : 1991
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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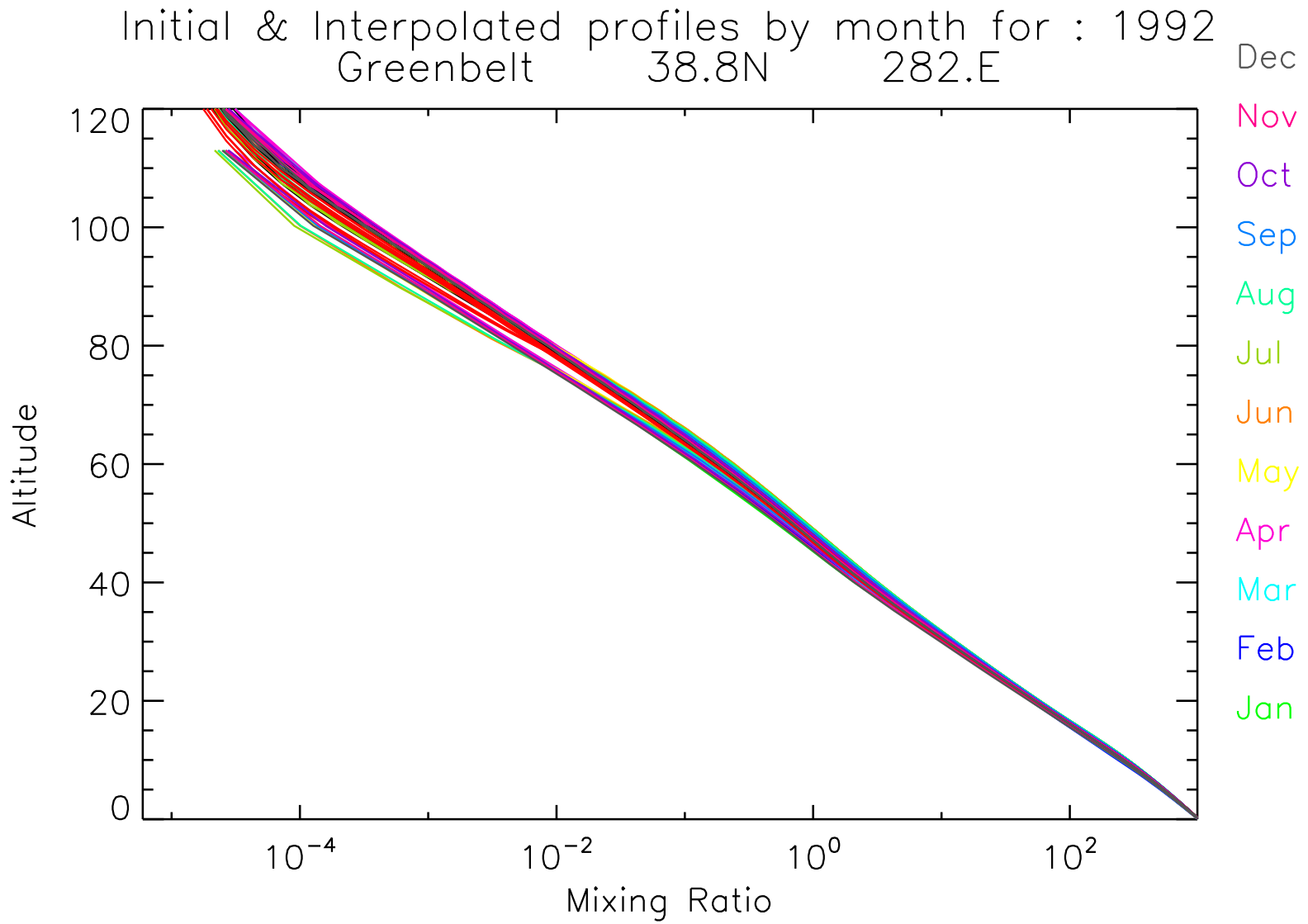
Initial & Interpolated profiles by month for : 1992
Greenbelt 38.8N 282.E
Altitude
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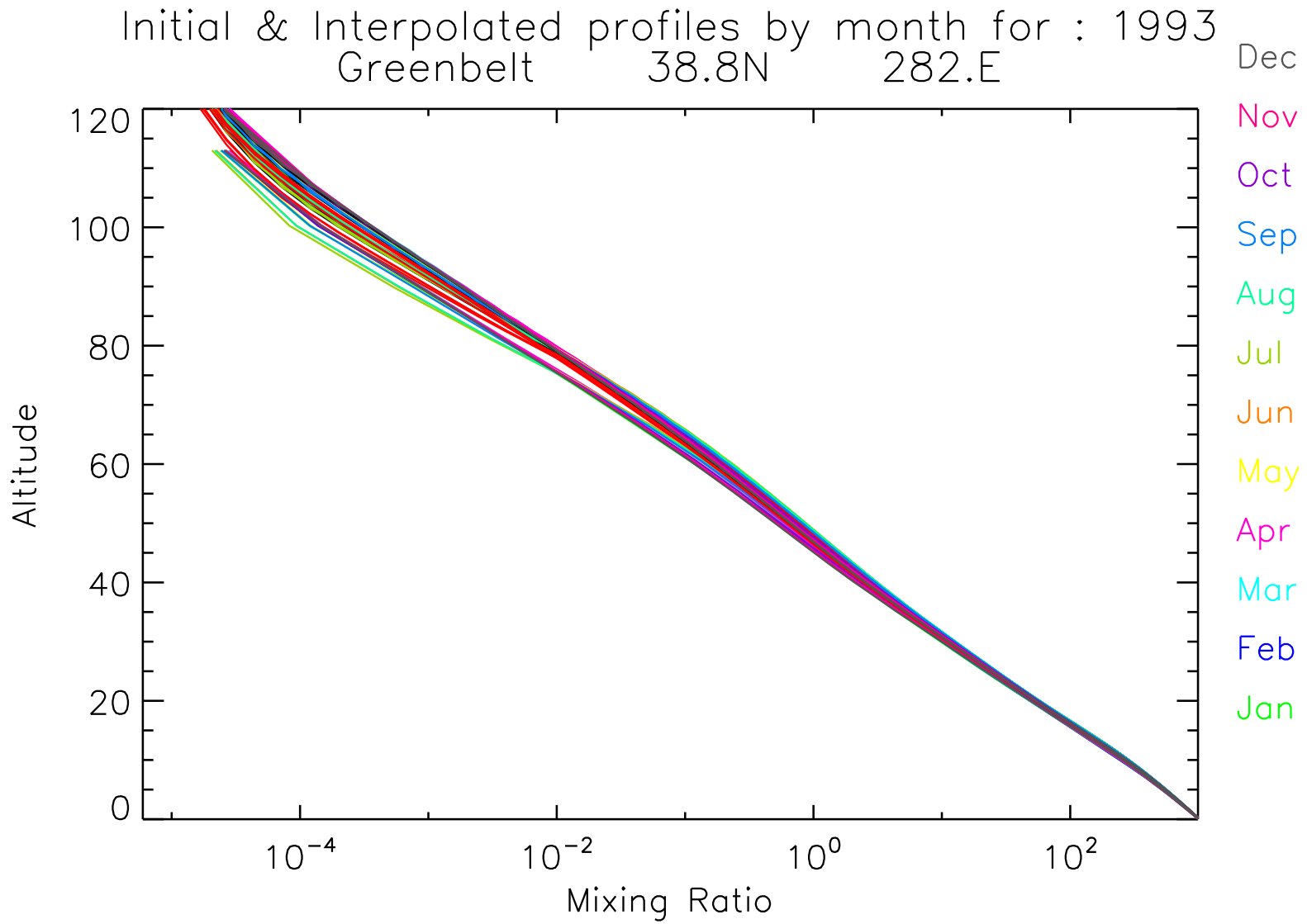
Initial & Interpolated profiles by month for : 1993
Greenbelt 38.8N 282.E
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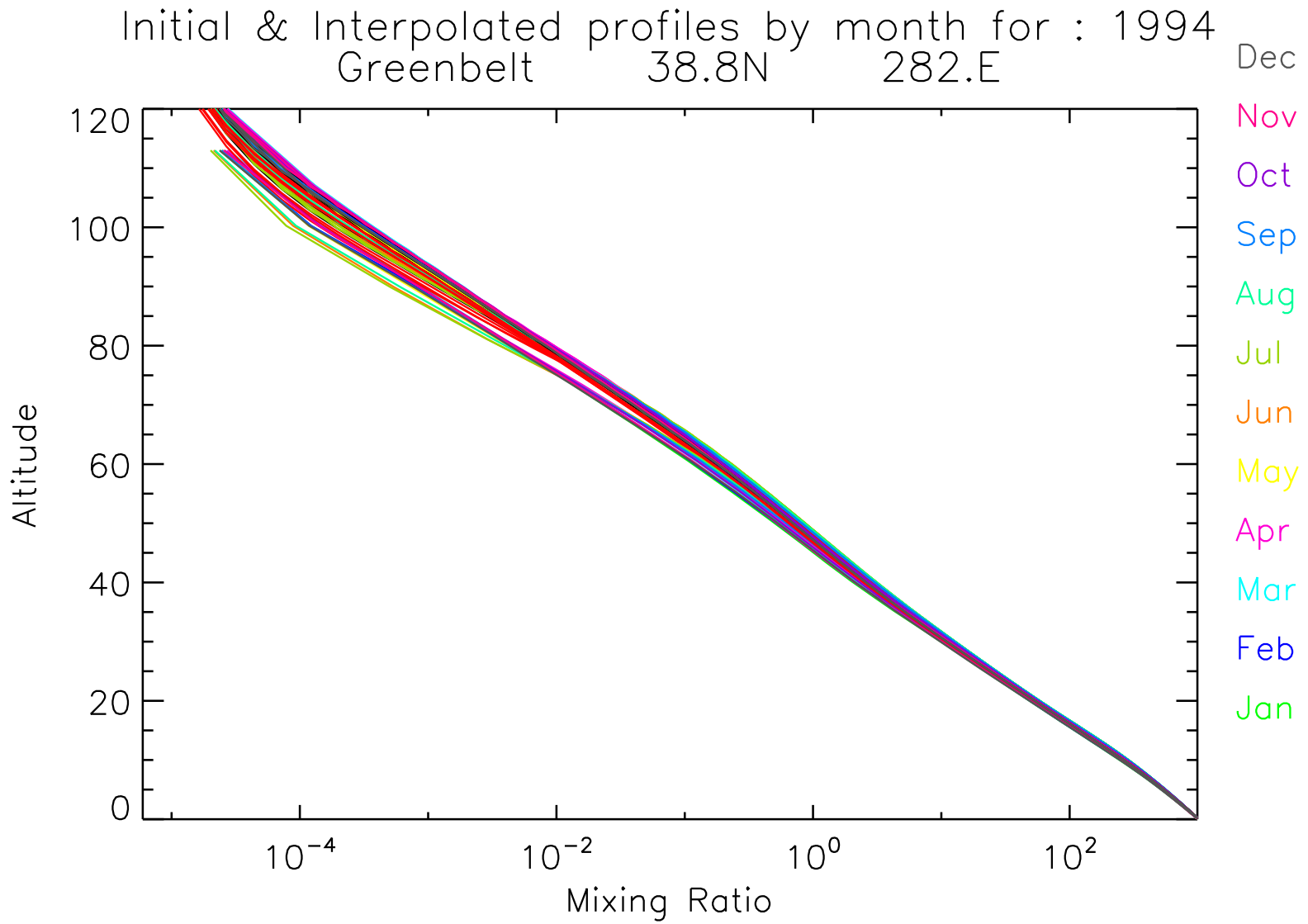
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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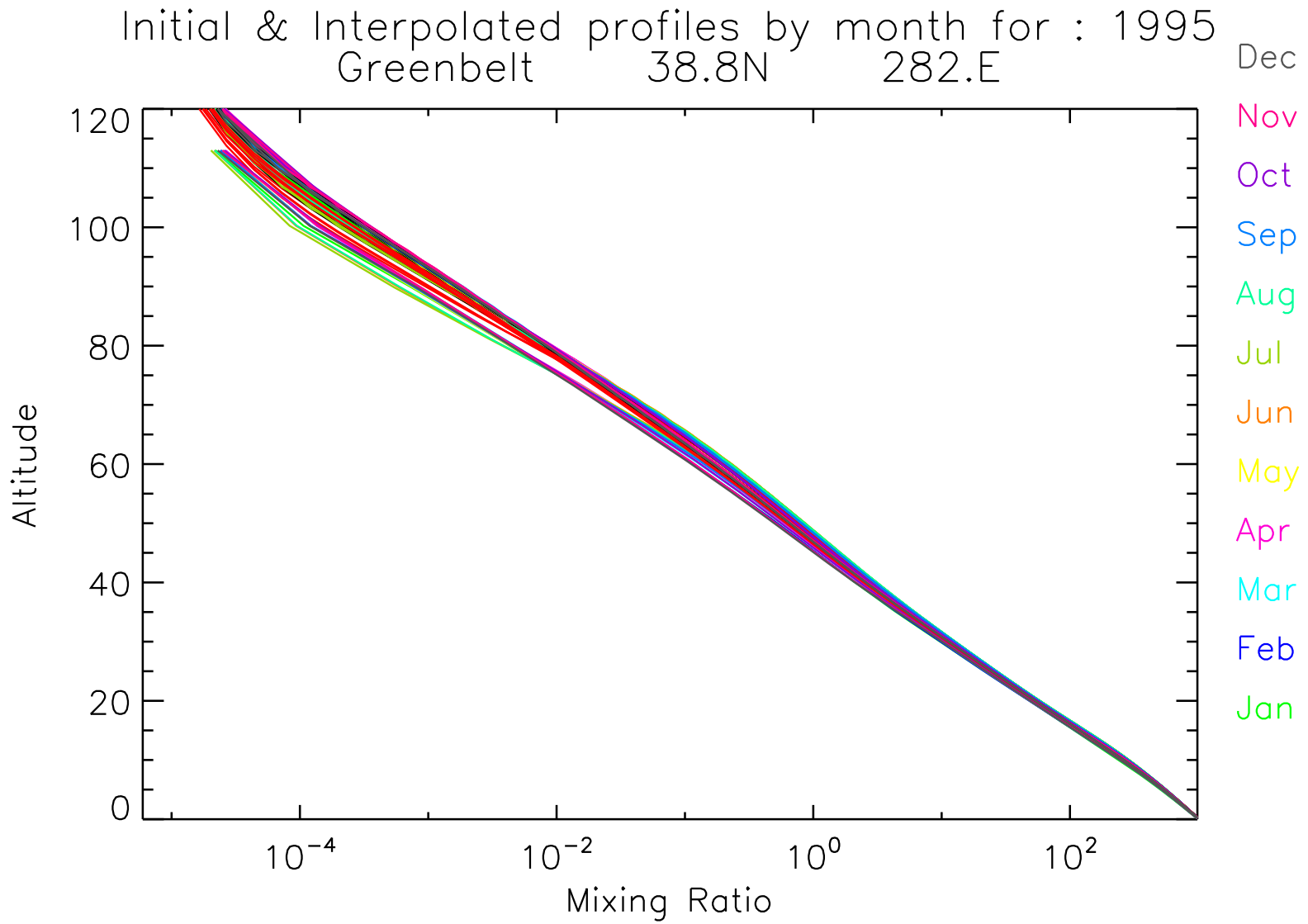
Initial & Interpolated profiles by month for : 1995
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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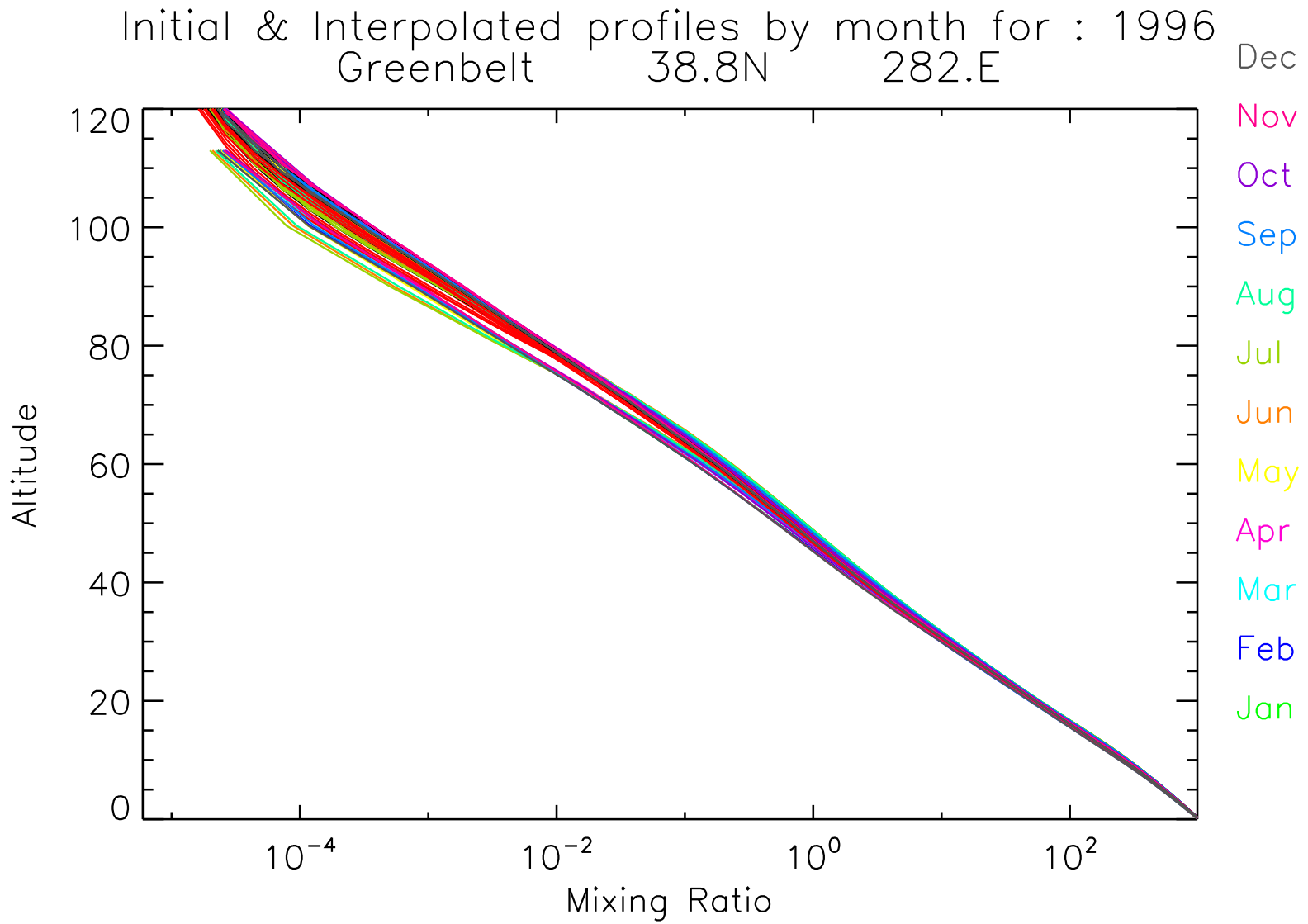
Initial & Interpolated profiles by month for : 1996
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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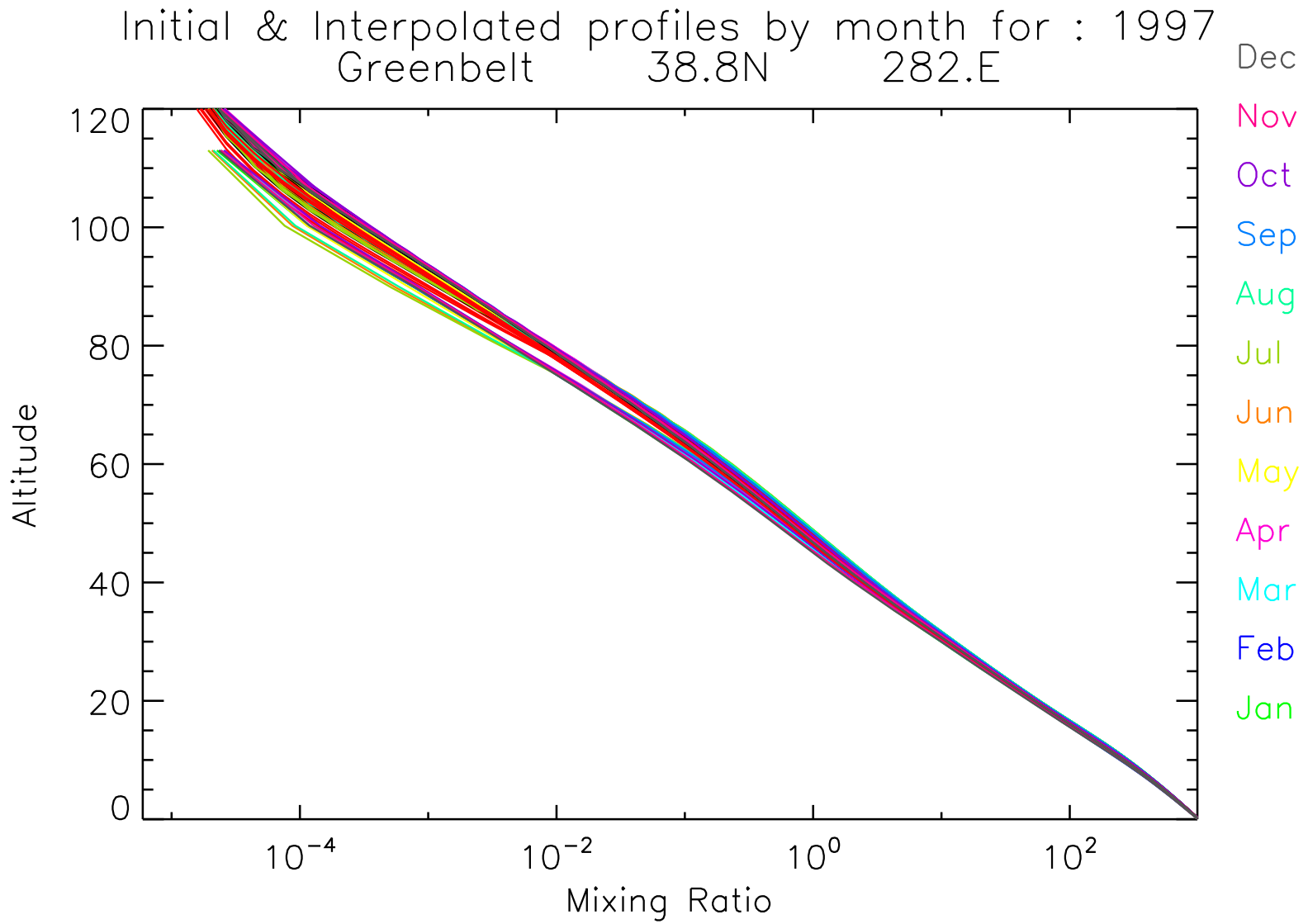
Initial & Interpolated profiles by month for : 1997
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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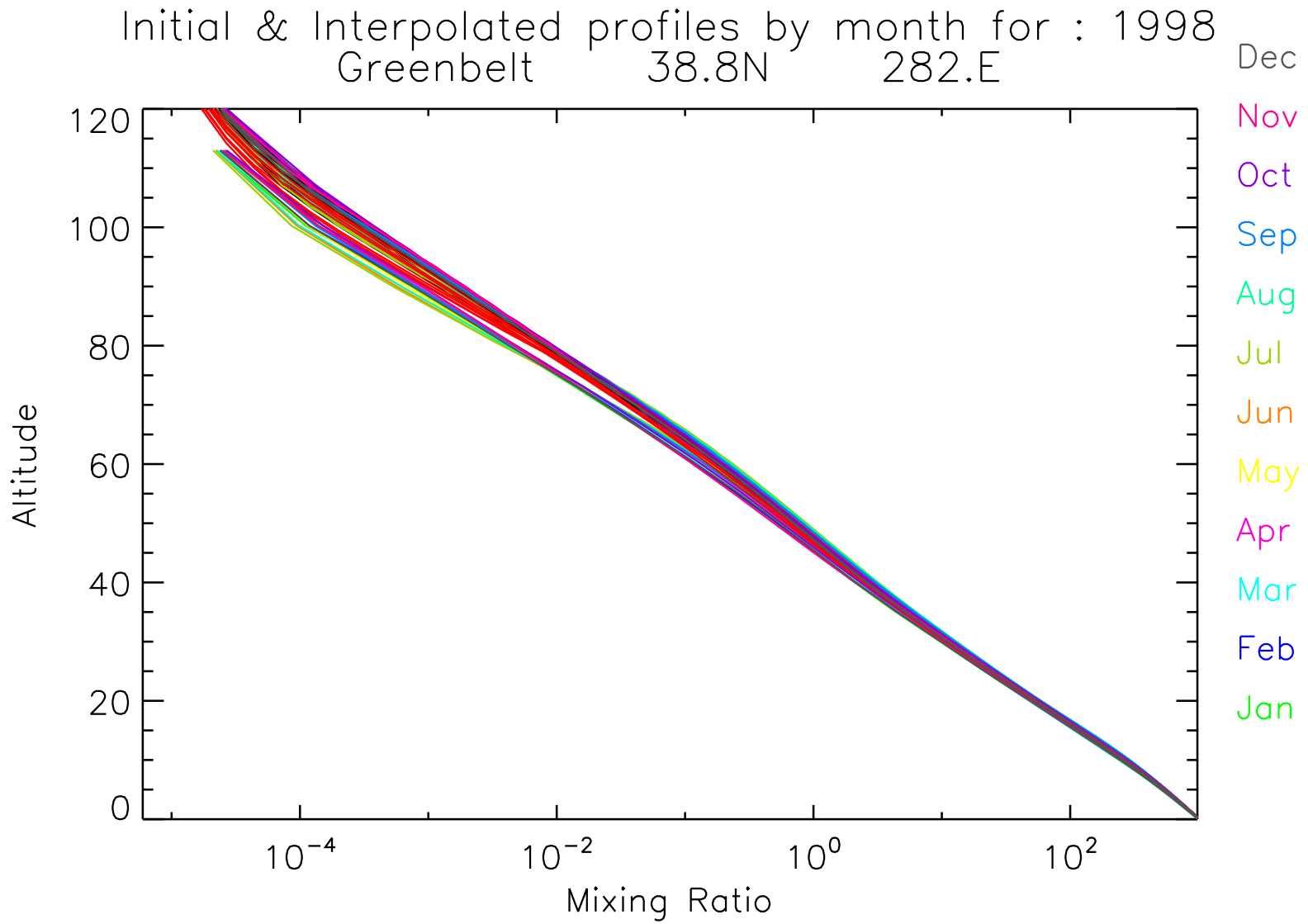
Initial & Interpolated profiles by month for : 1998
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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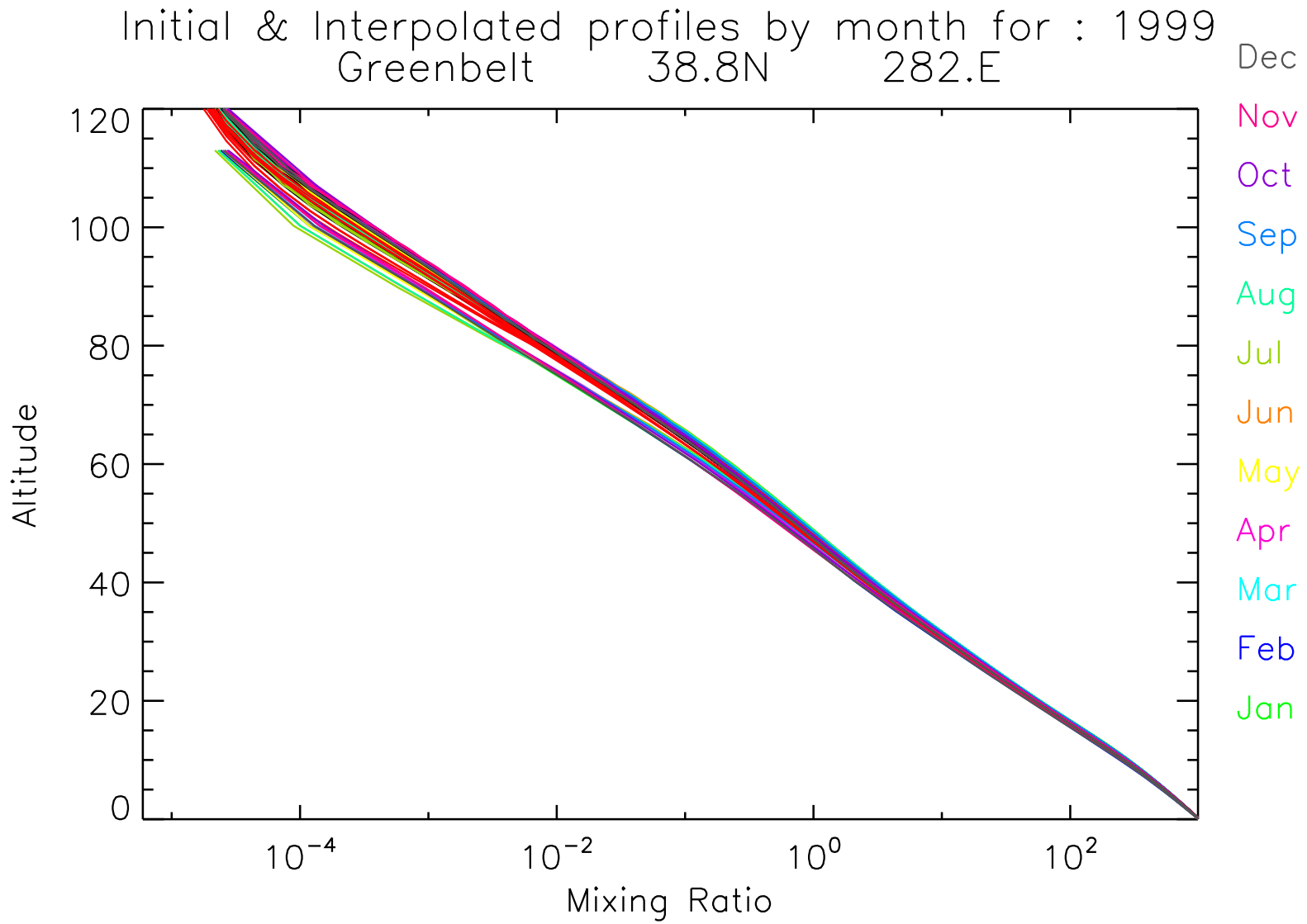
Initial & Interpolated profiles by month for : 1999
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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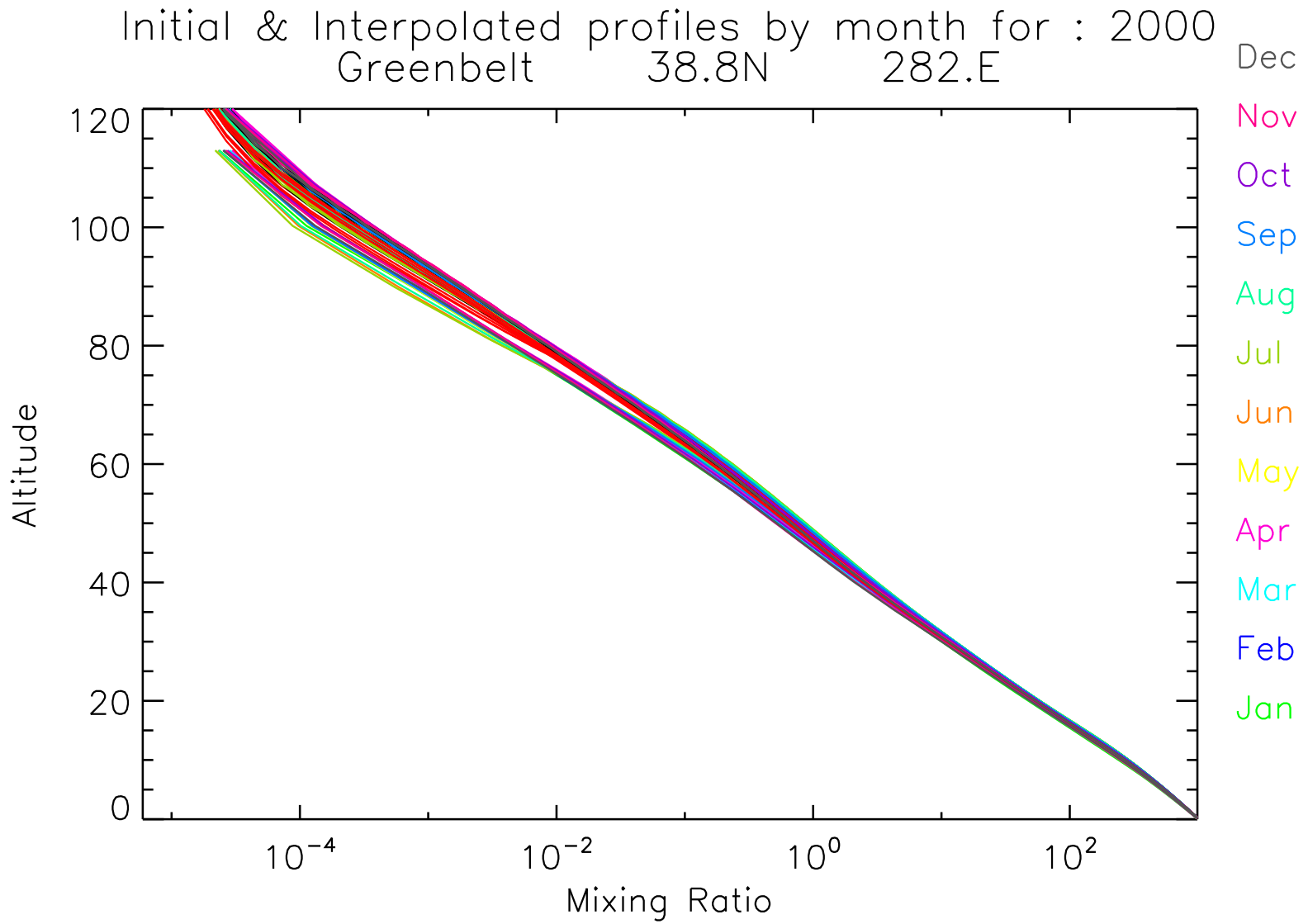
Initial & Interpolated profiles by month for : 2000
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Altitude
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Mixing Ratio
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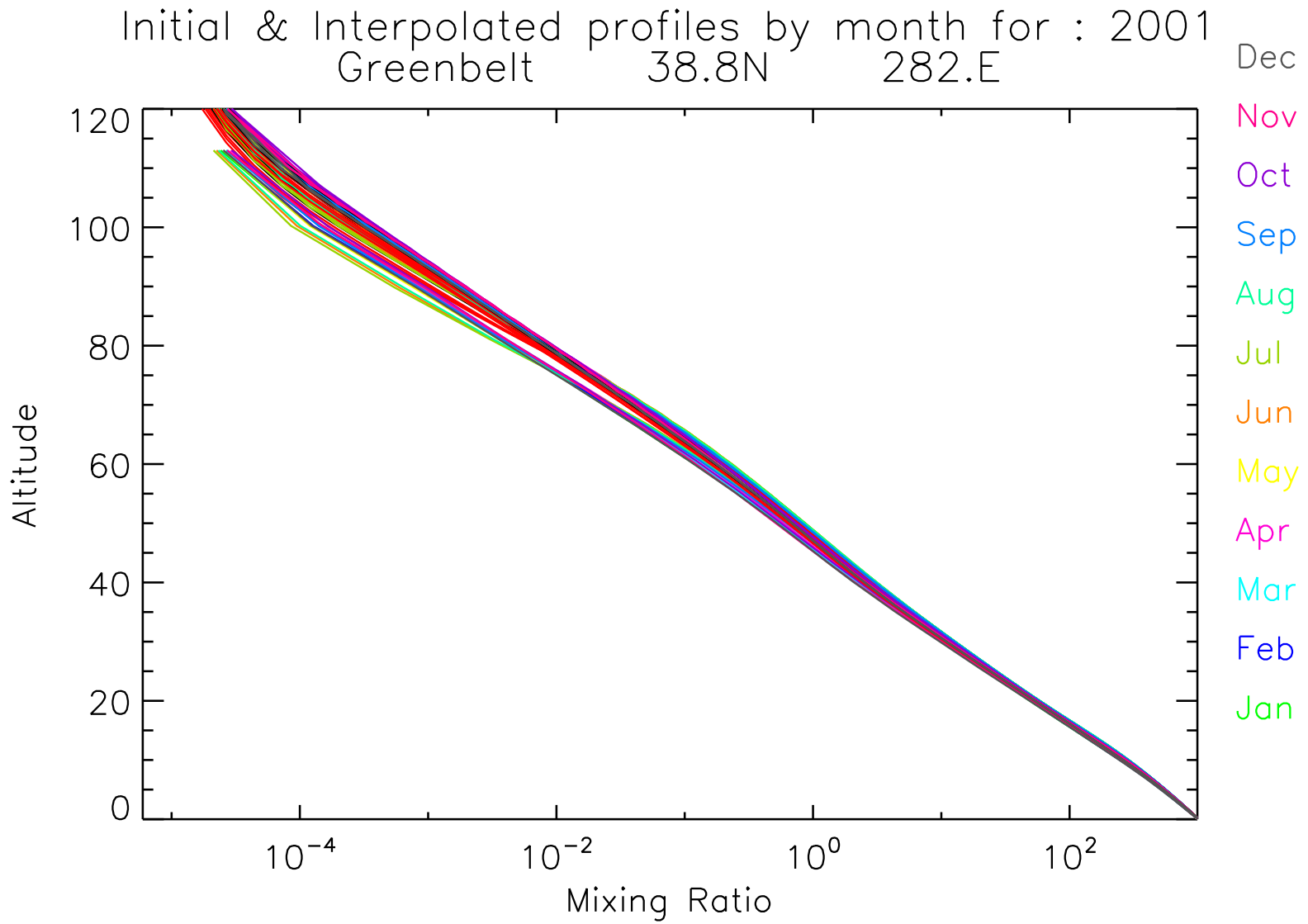
Initial & Interpolated profiles by month for : 2001
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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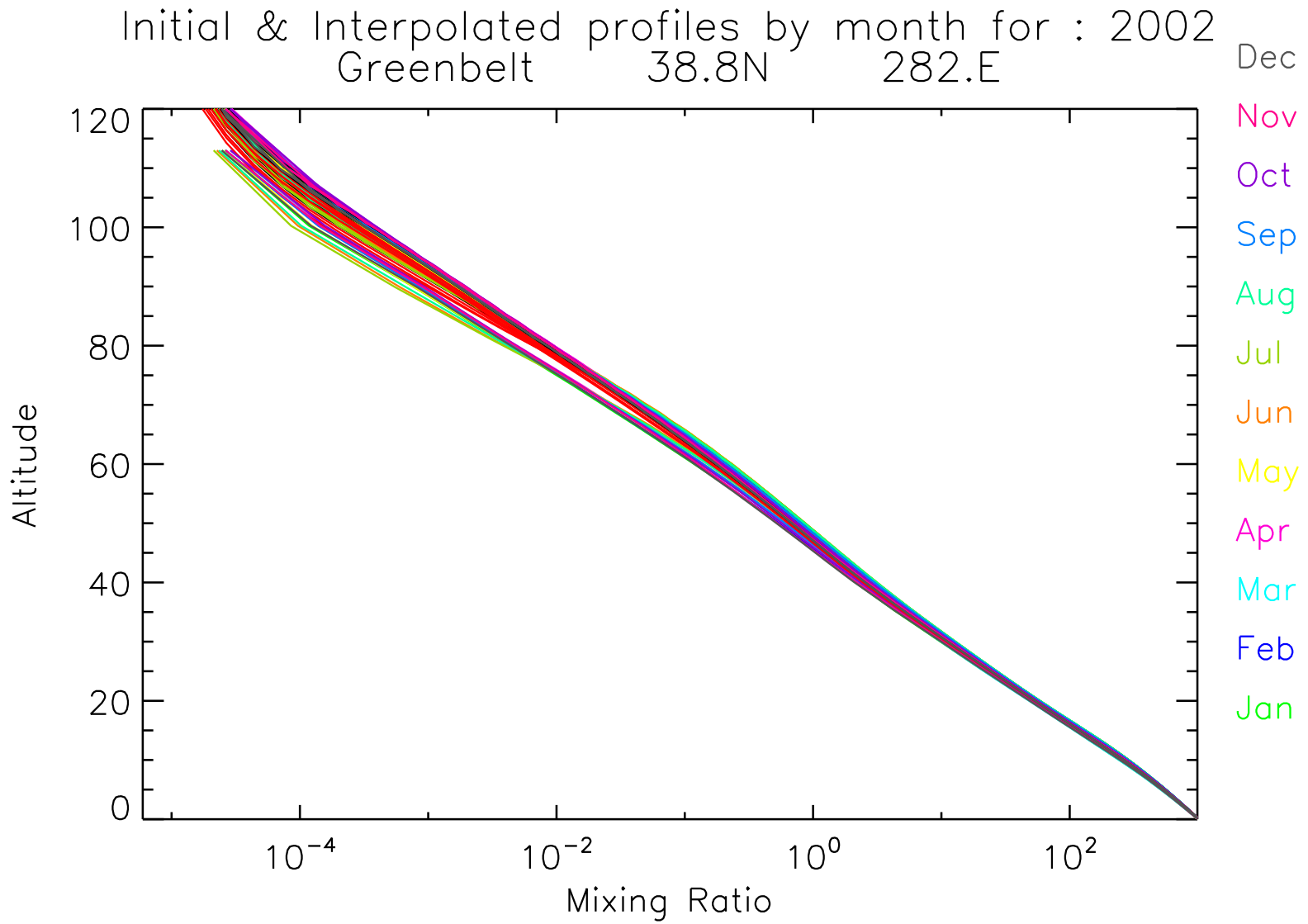
Initial & Interpolated profiles by month for : 2002
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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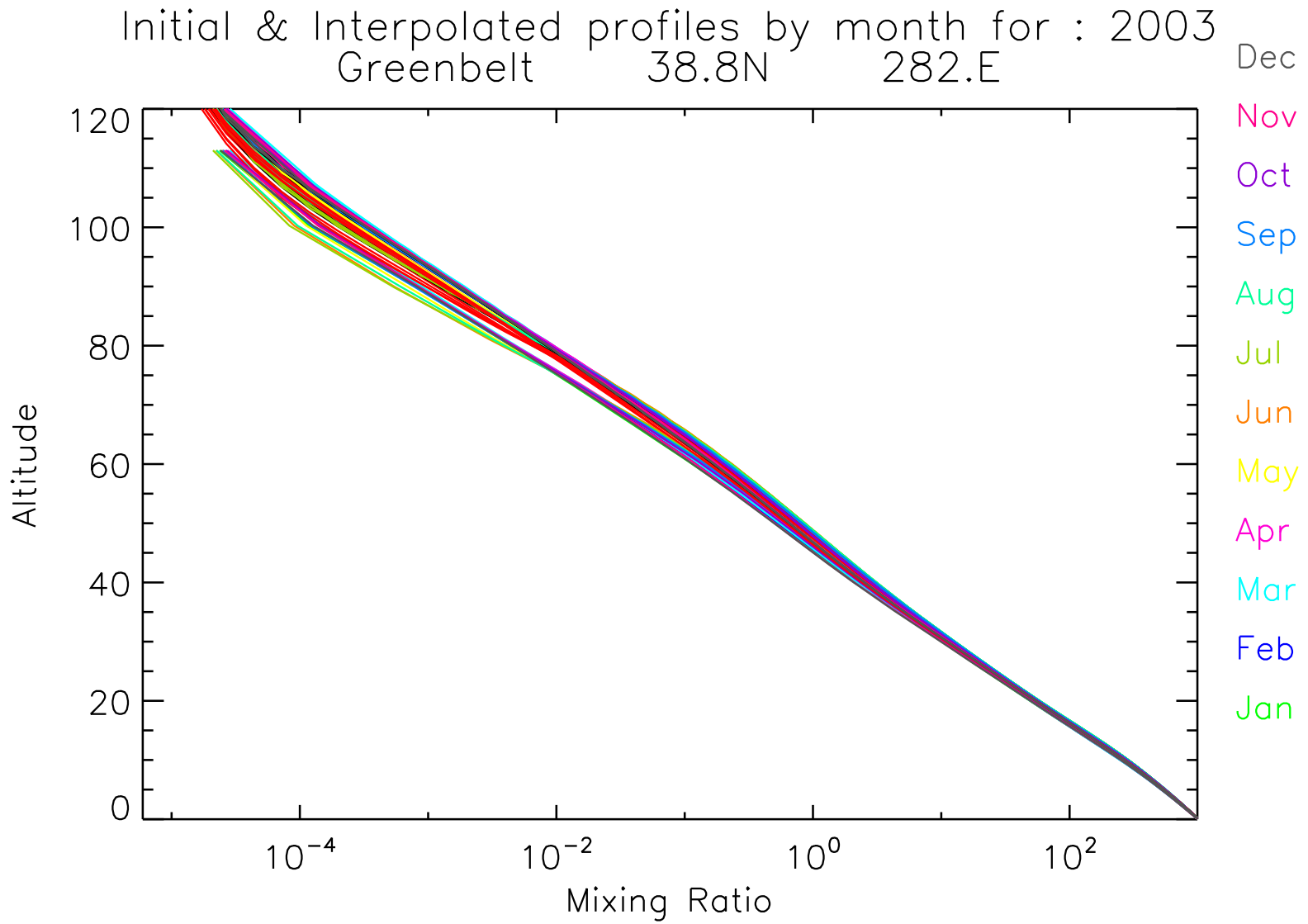
Initial & Interpolated profiles by month for : 2003
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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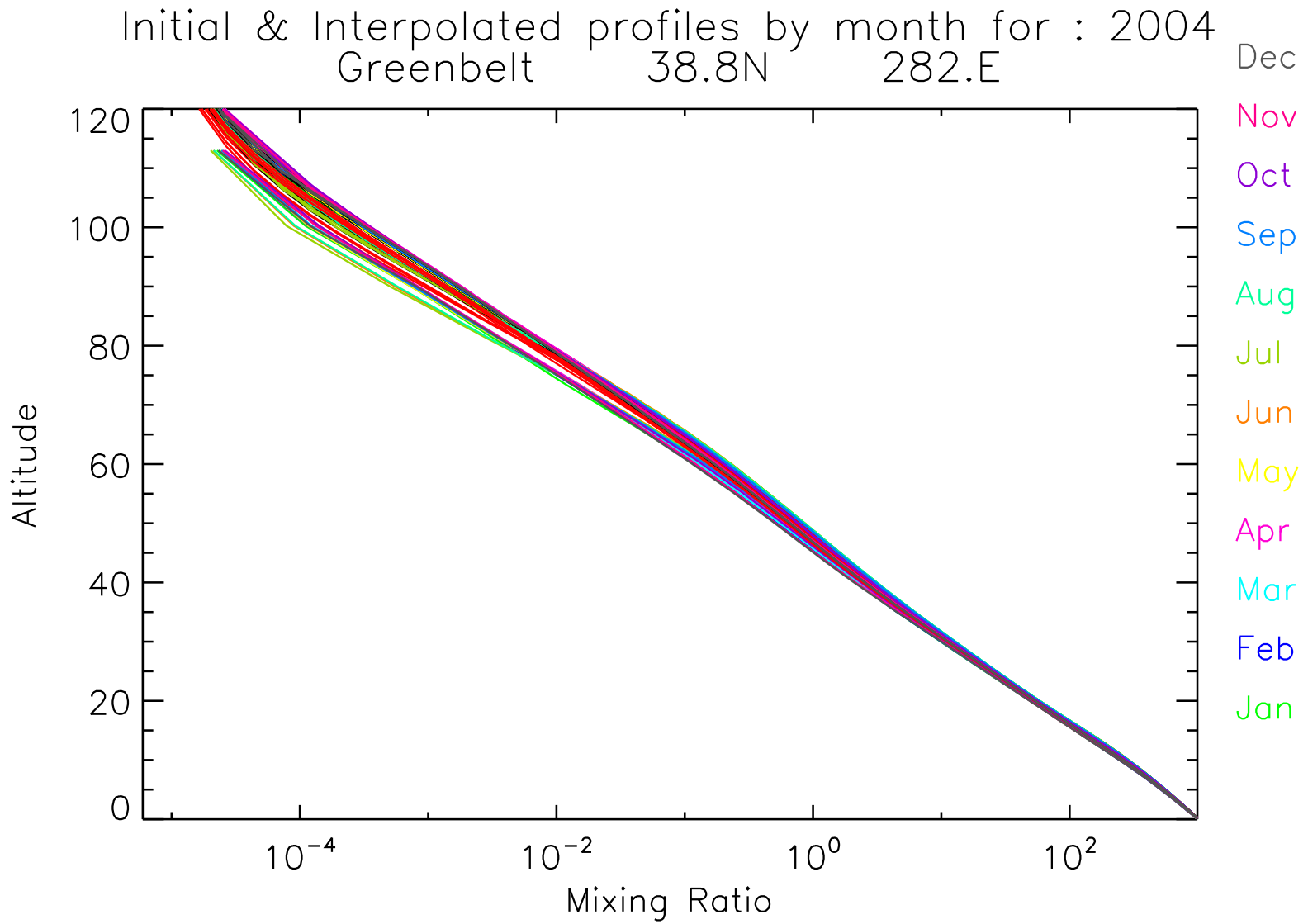
Initial & Interpolated profiles by month for : 2004
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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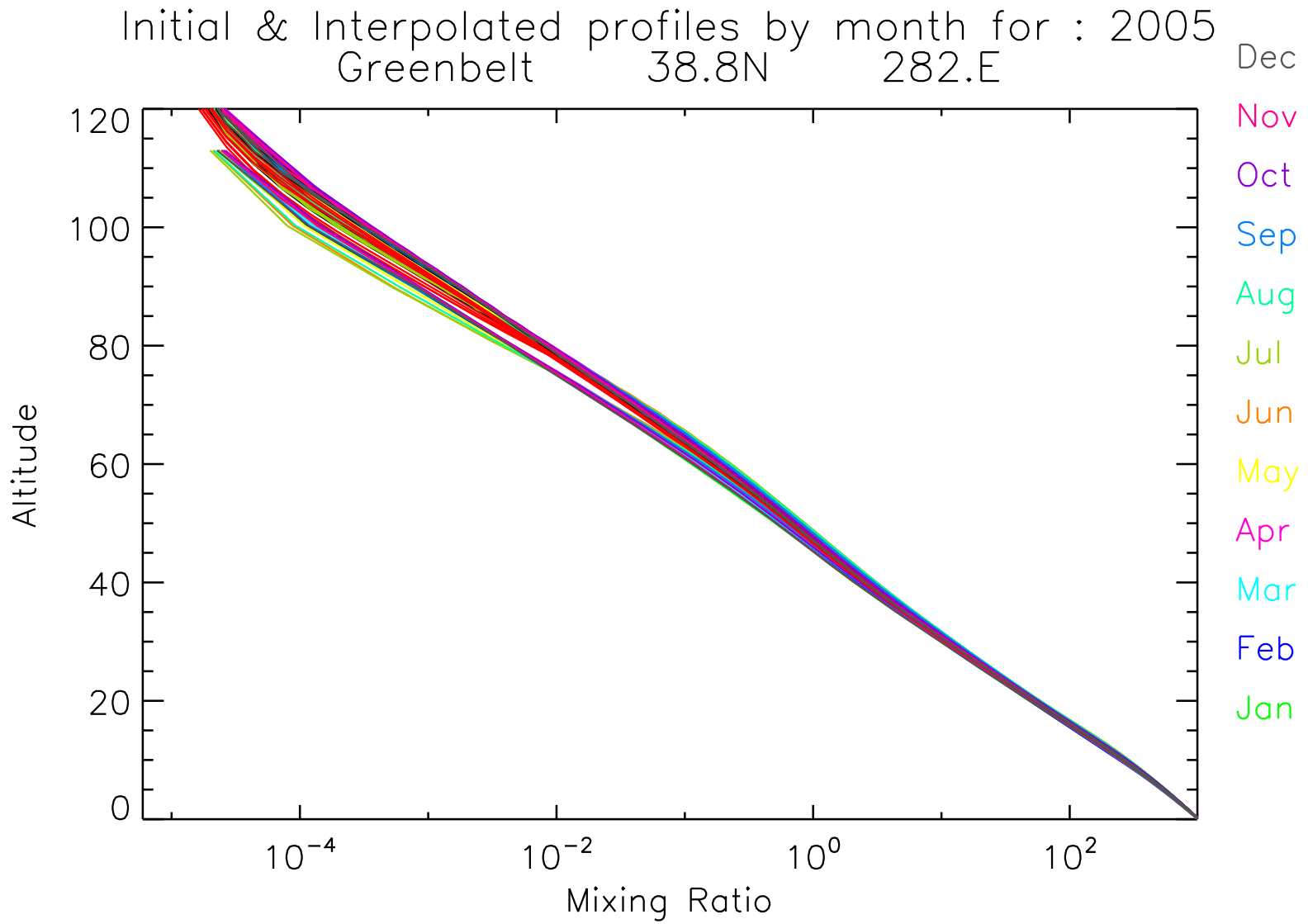
Initial & Interpolated profiles by month for : 2005
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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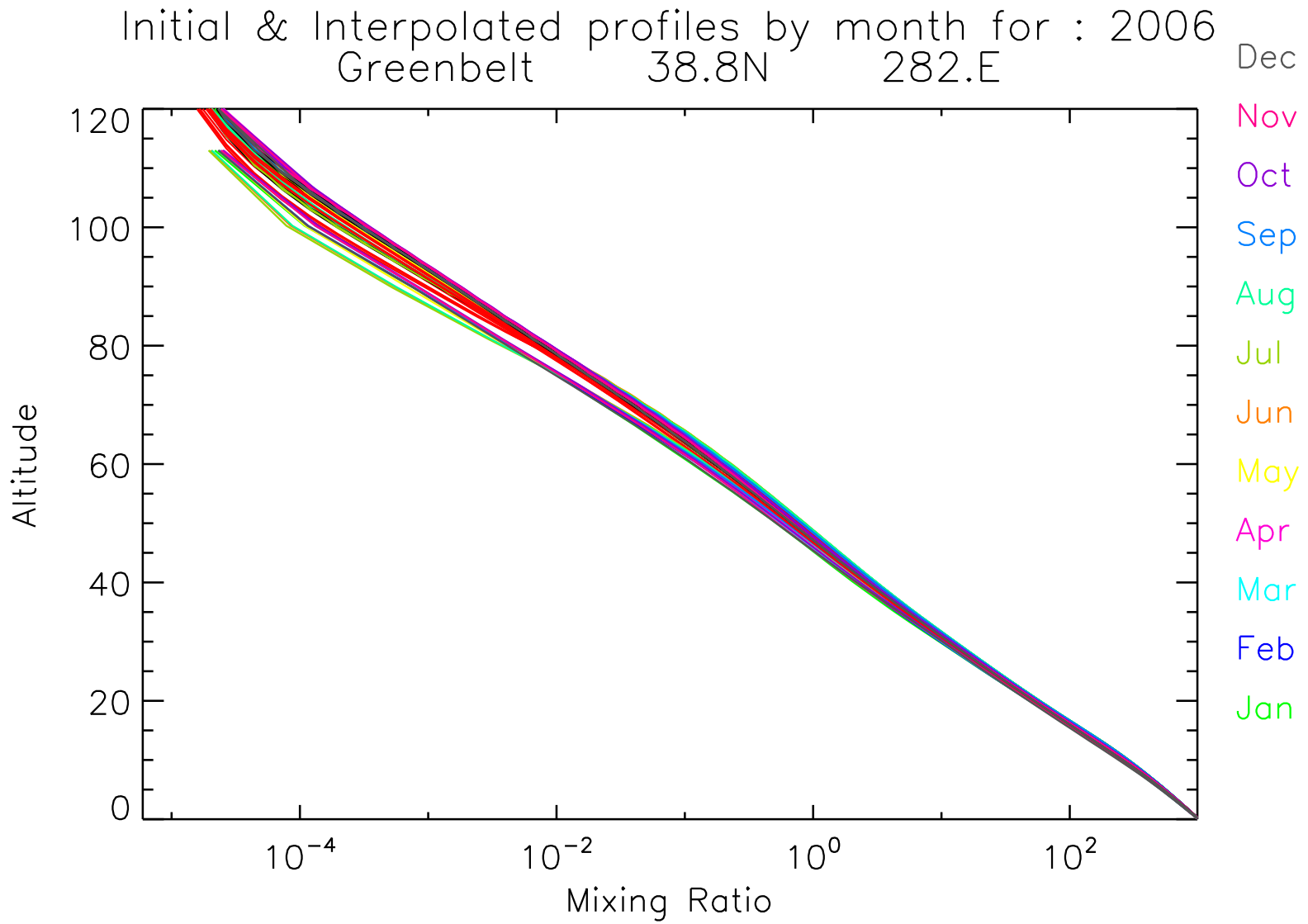
Initial & Interpolated profiles by month for : 2006
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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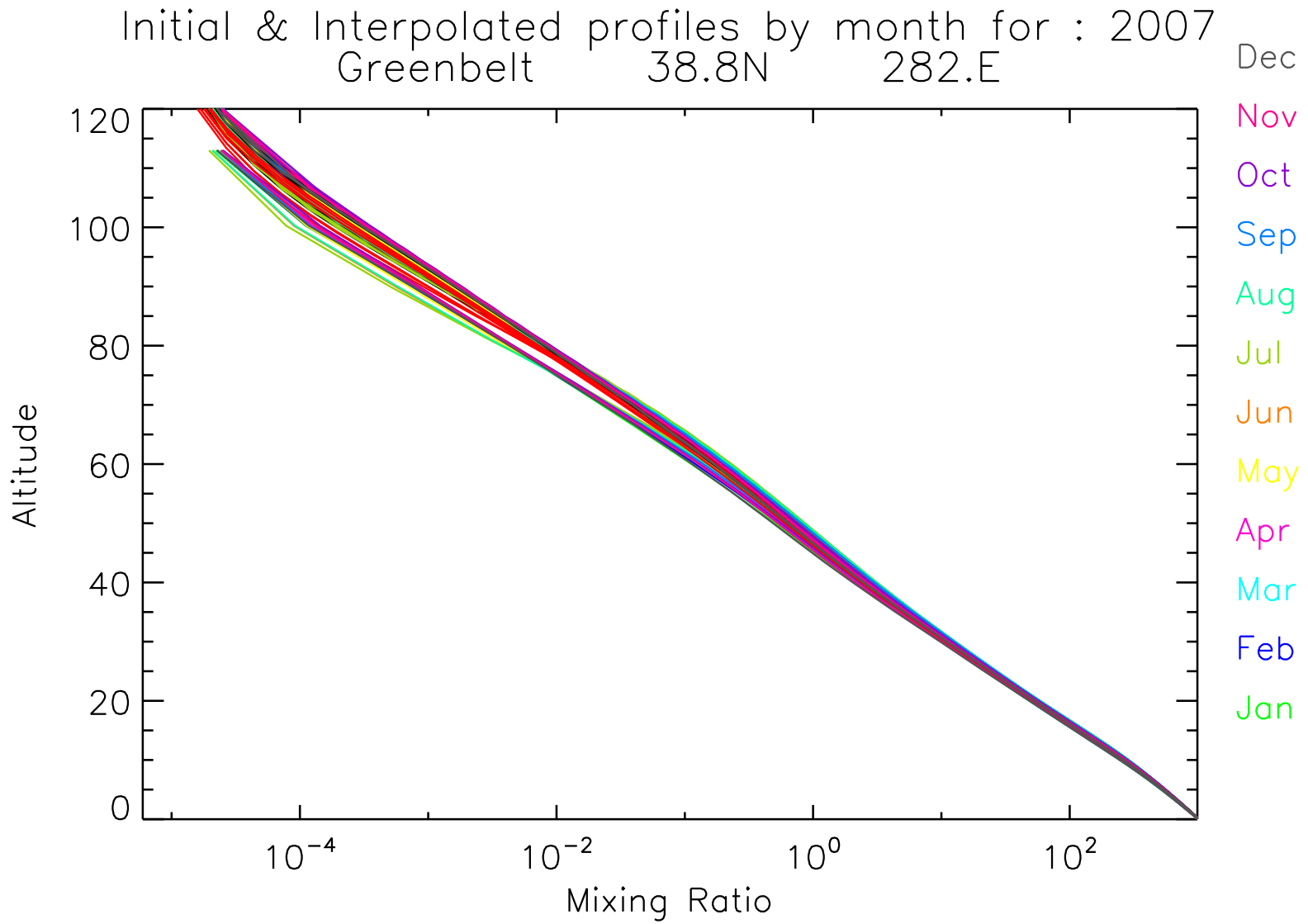
Initial & Interpolated profiles by month for : 2007
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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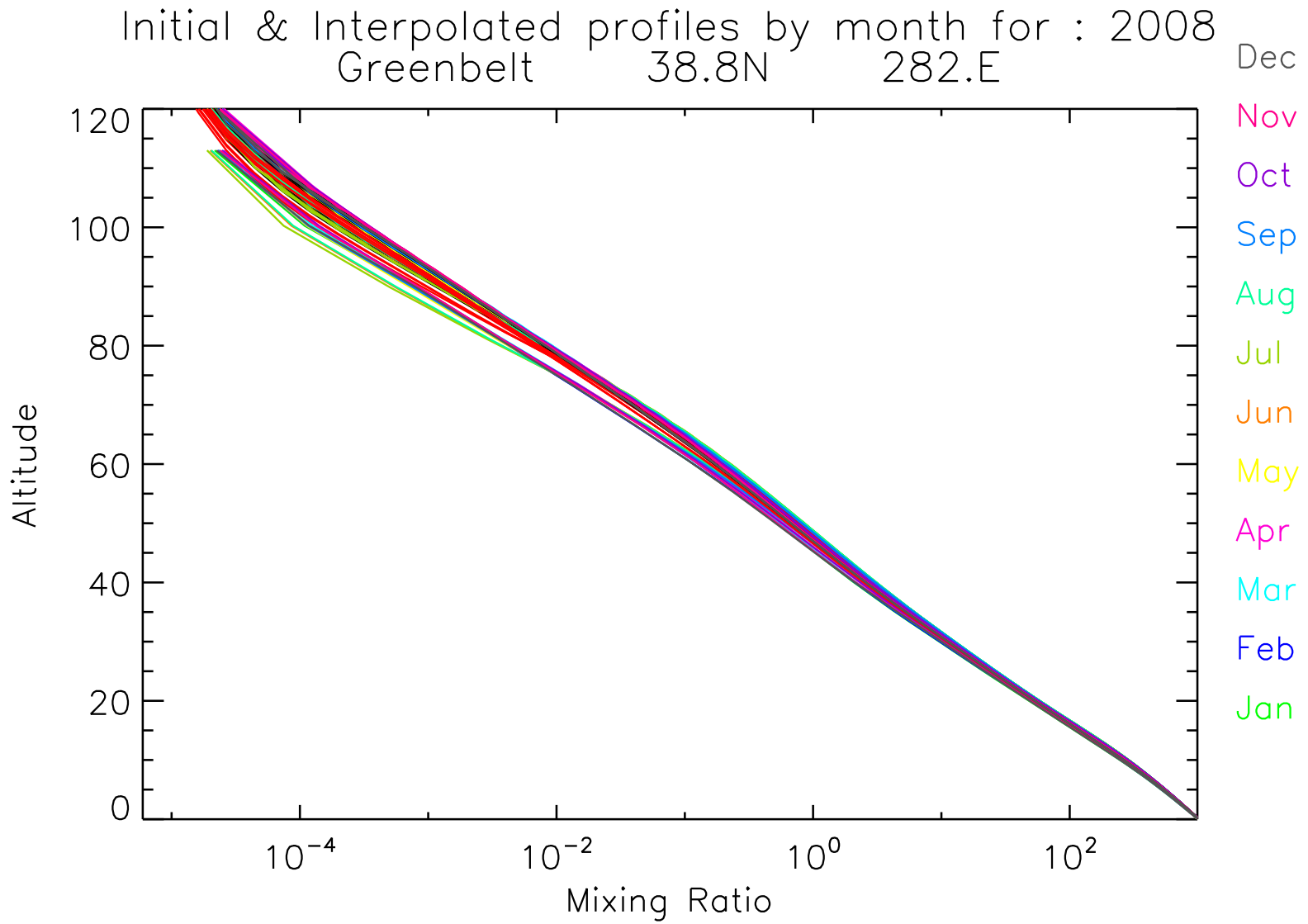
Initial & Interpolated profiles by month for : 2008
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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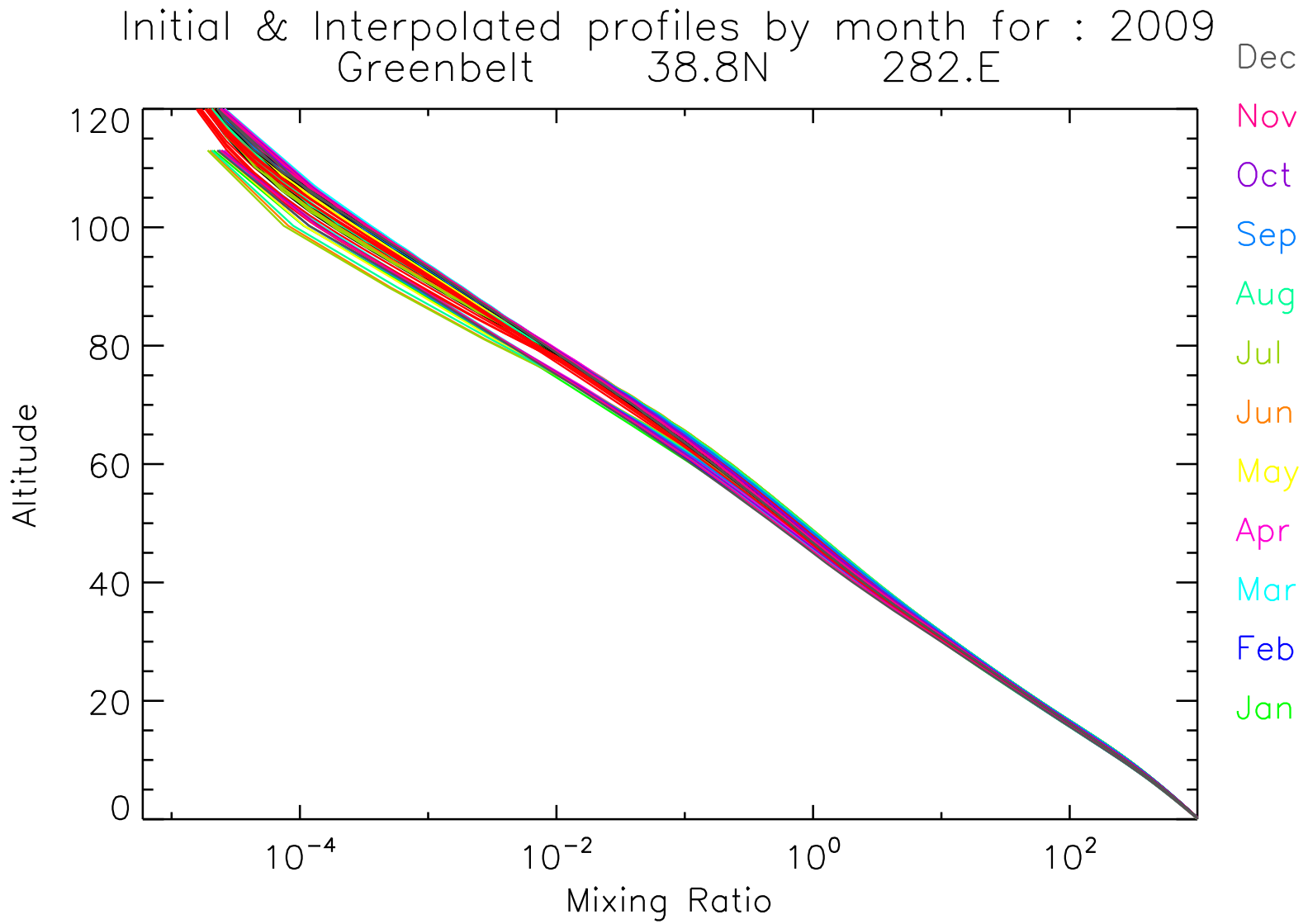
Initial & Interpolated profiles by month for : 2009
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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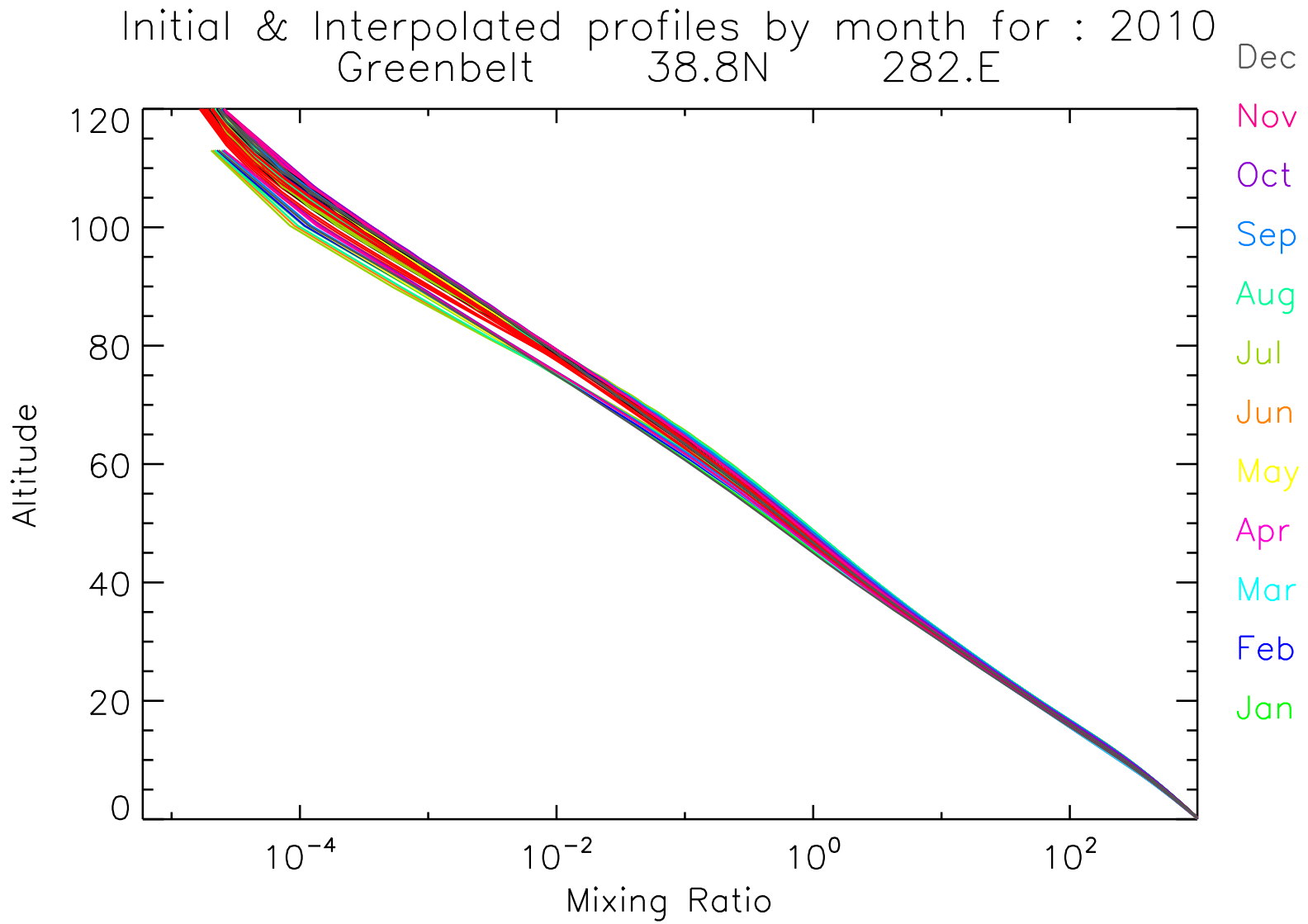
Initial & Interpolated profiles by month for : 2010
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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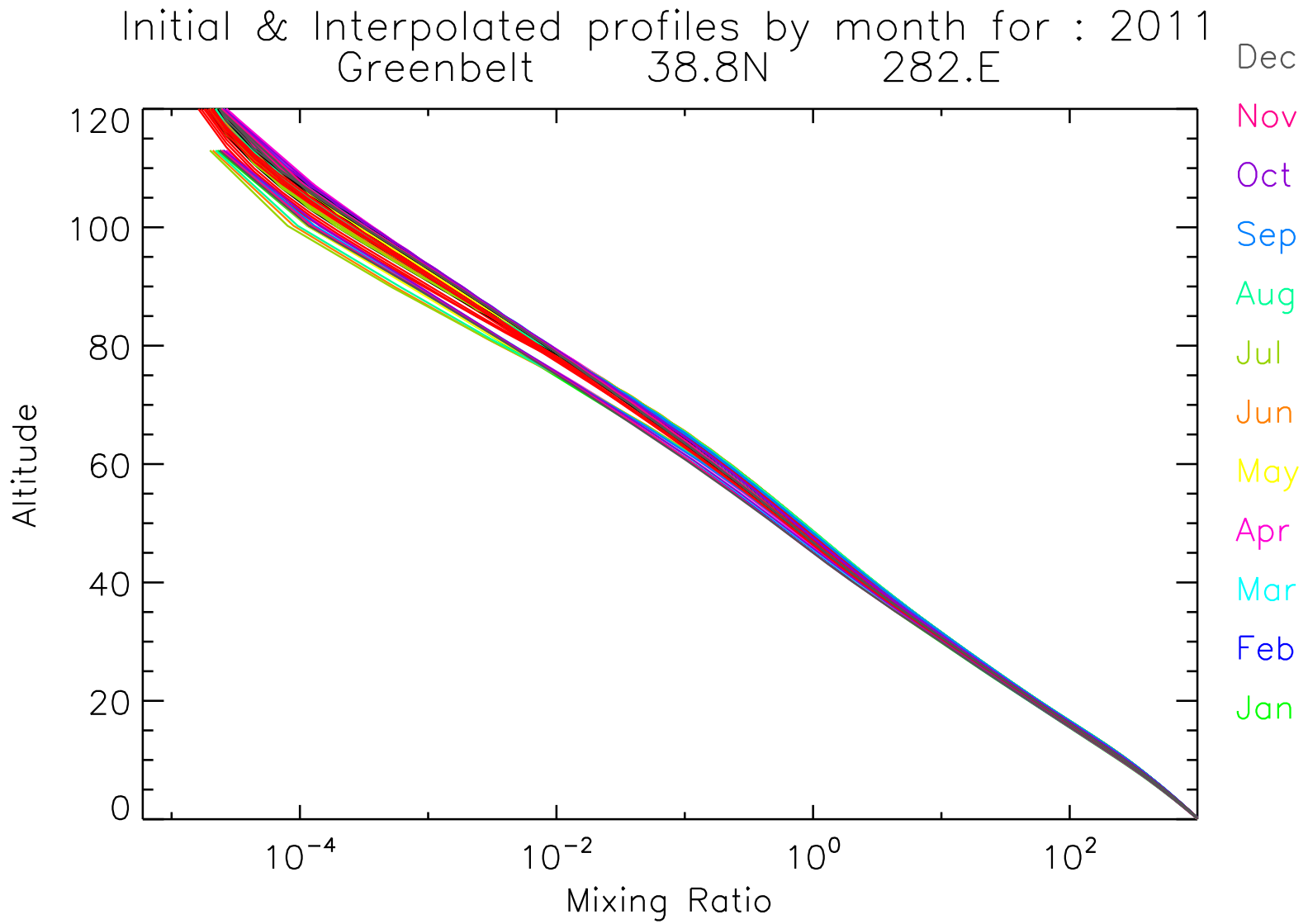
Initial & Interpolated profiles by month for : 2011
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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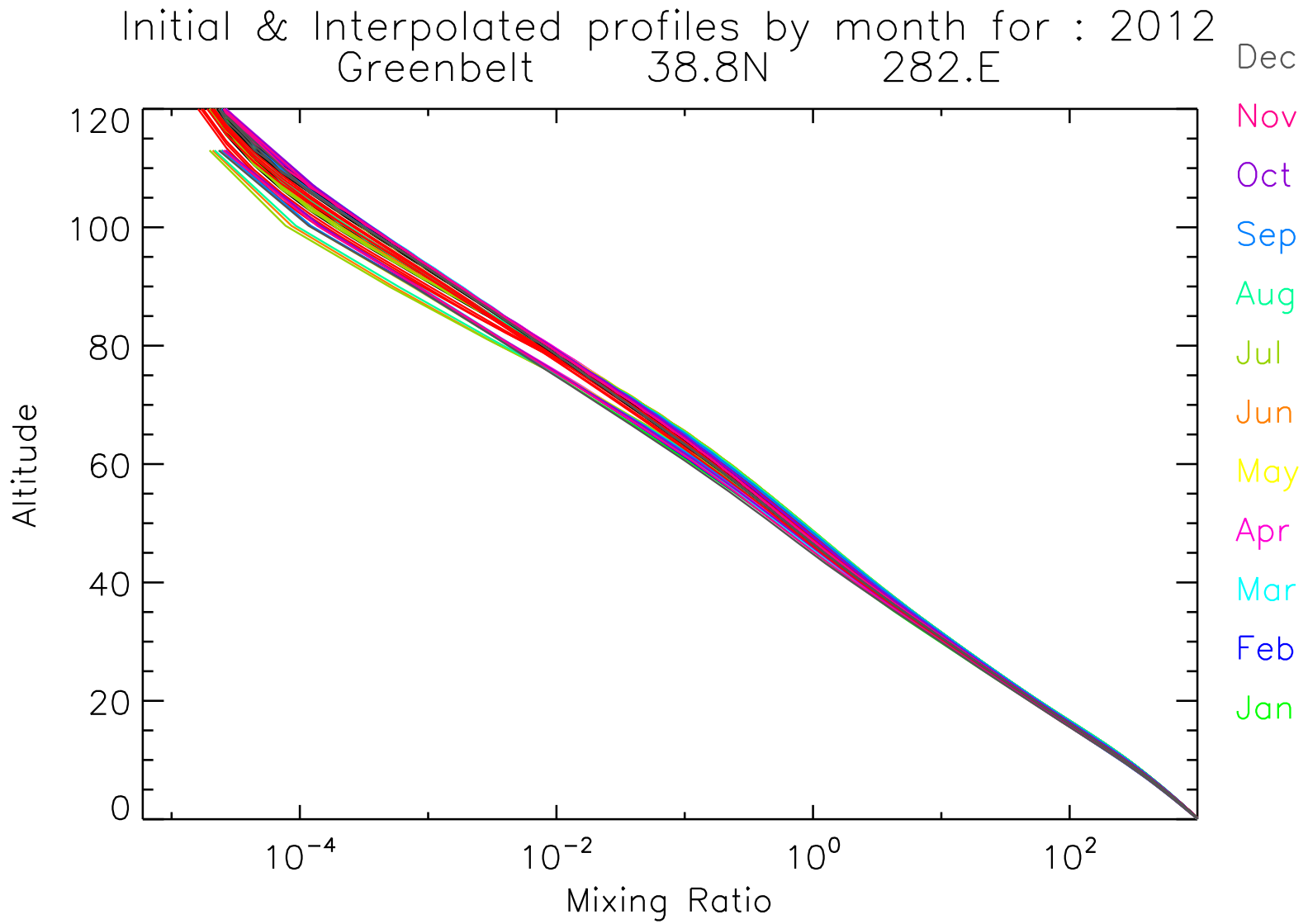
Initial & Interpolated profiles by month for : 2012
Greenbelt 38.8N 282.E
Altitude
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Mixing Ratio
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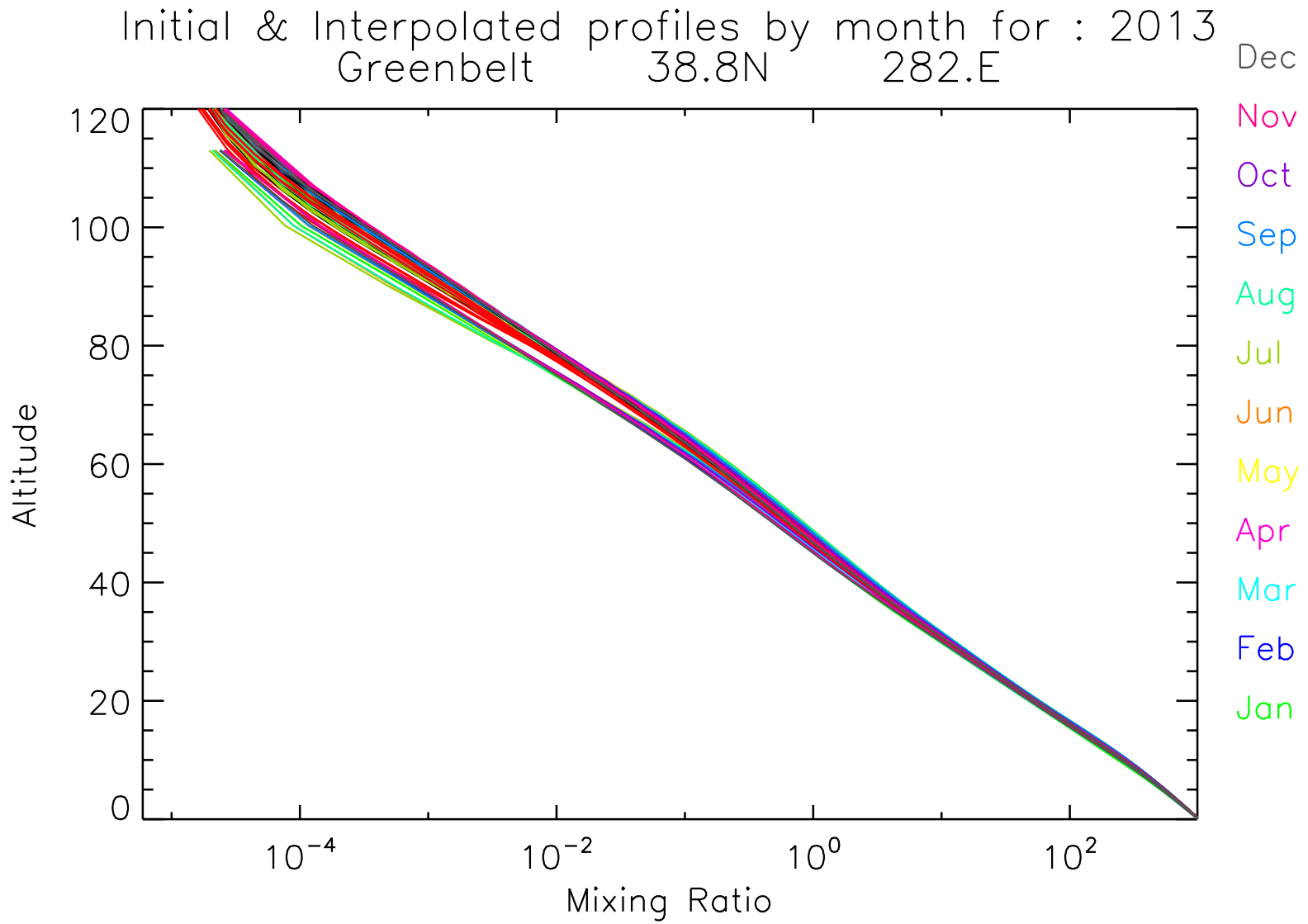
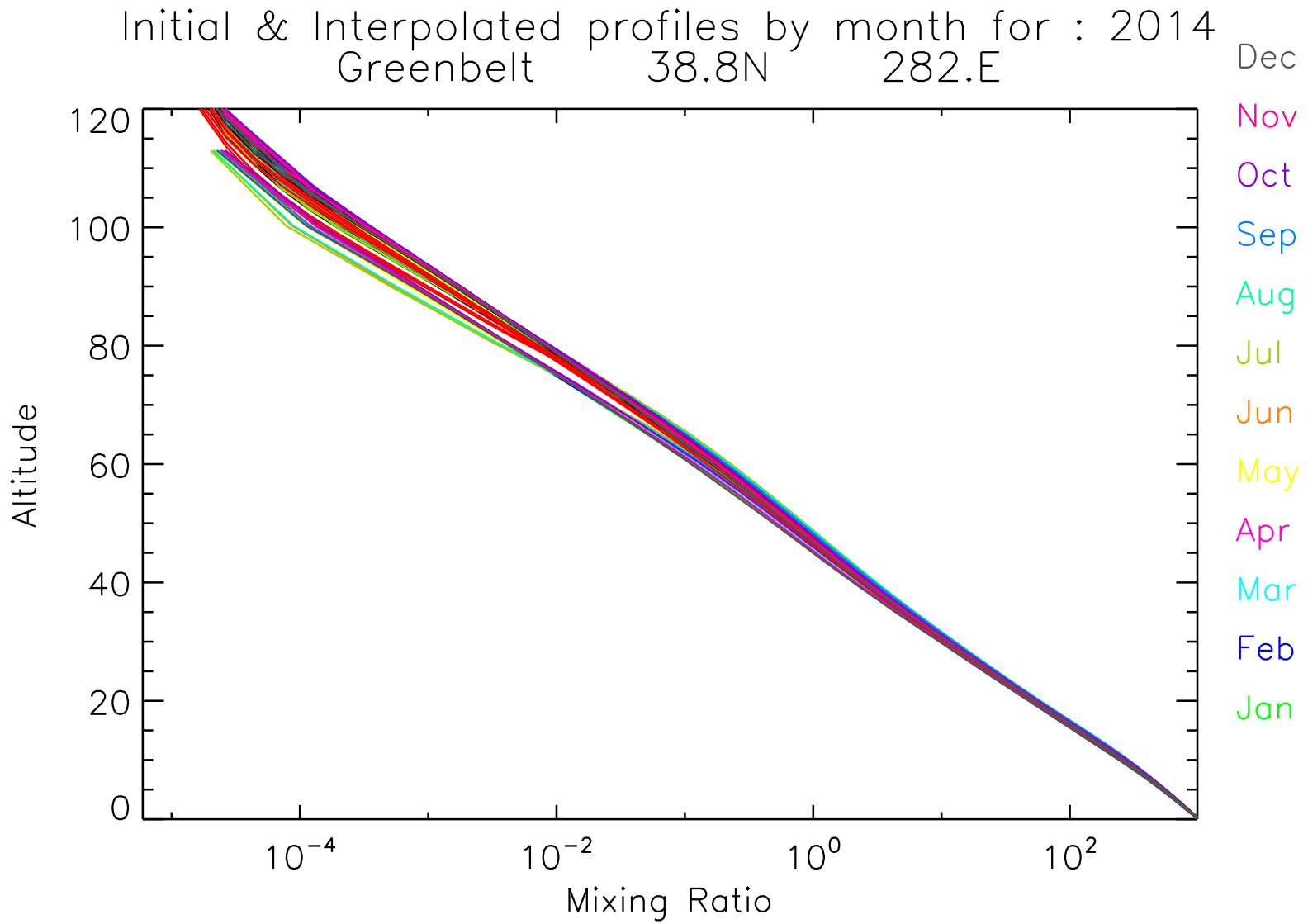
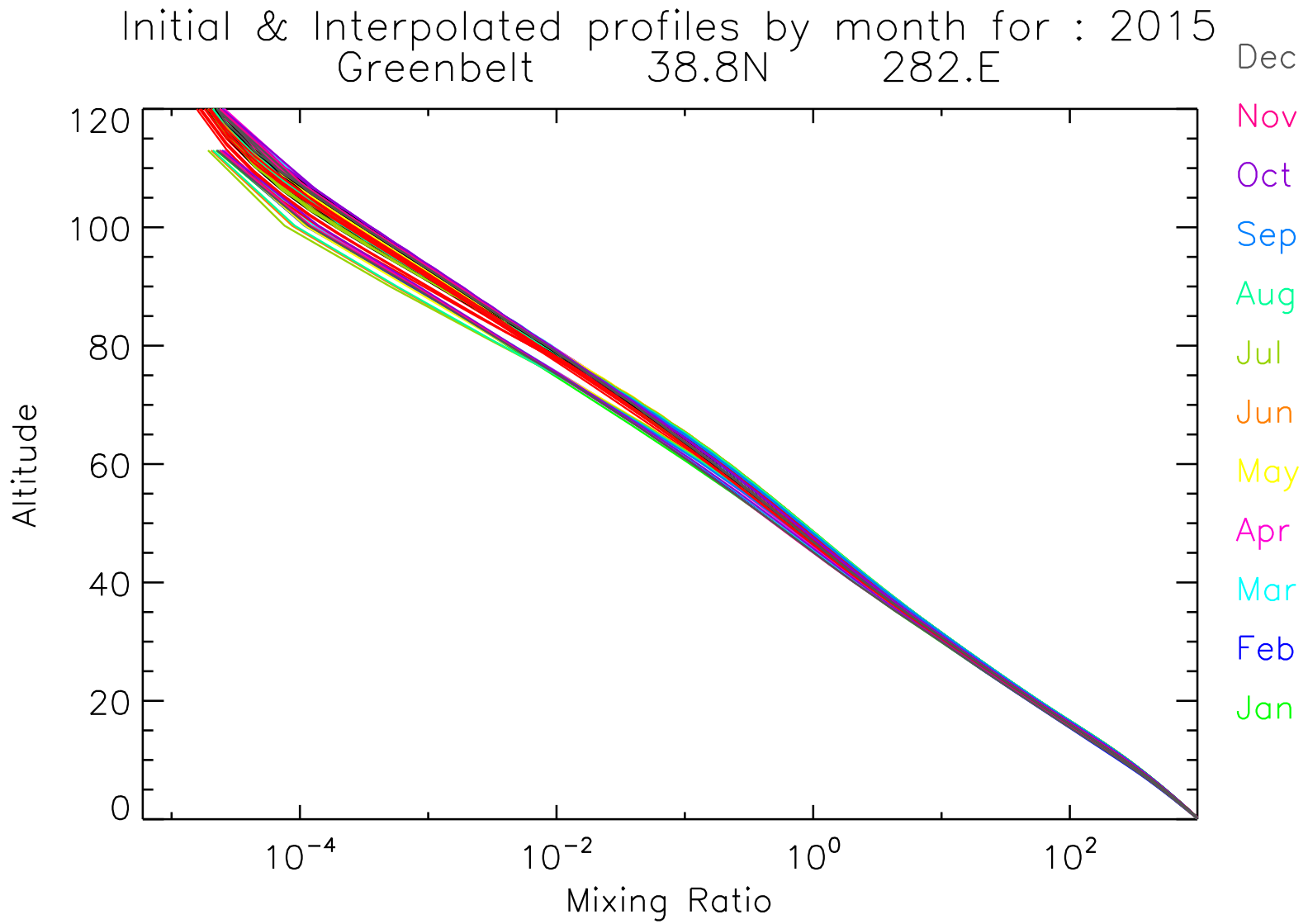
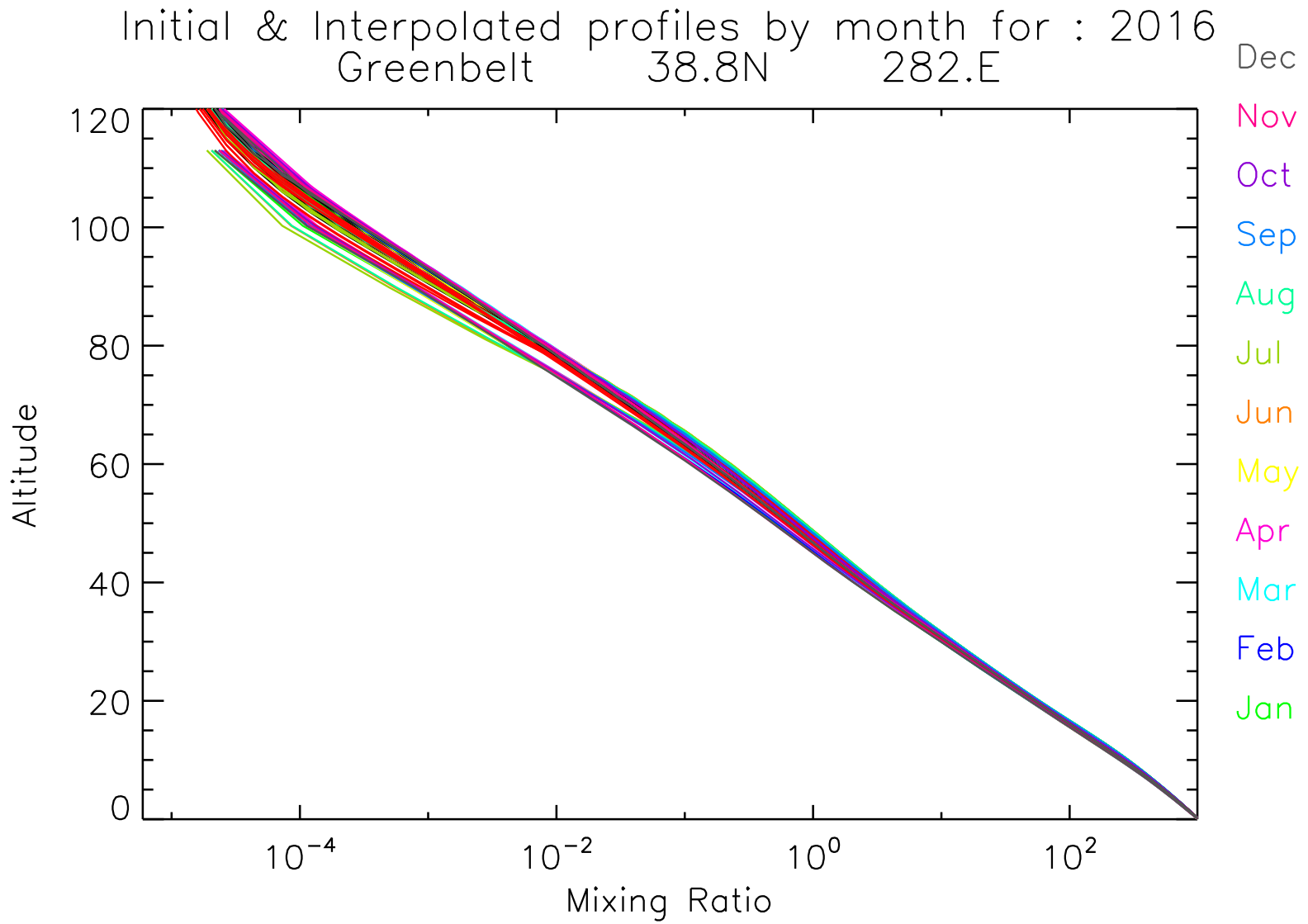
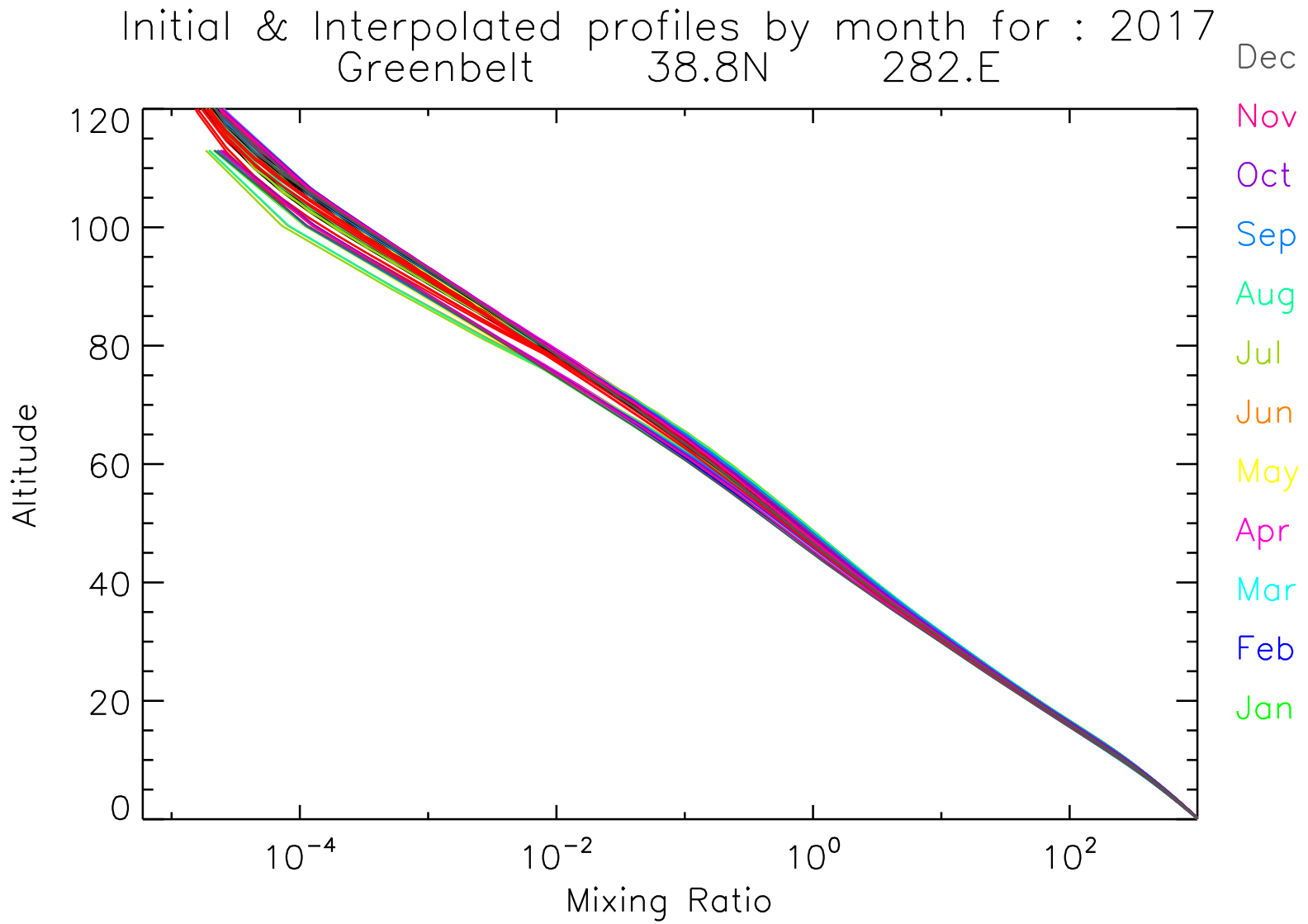
Feb
Jan

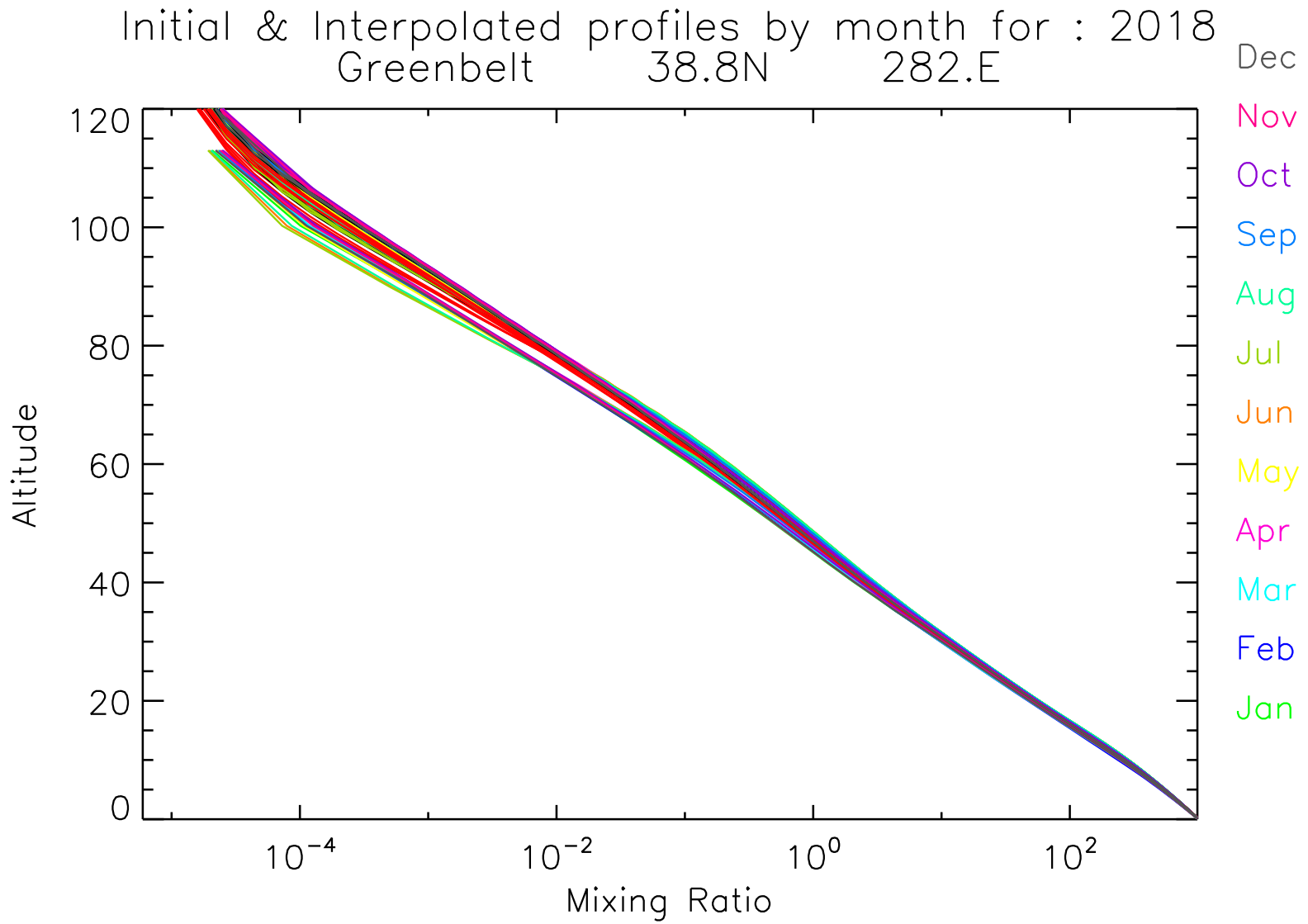

Initial & Interpolated profiles by month for : 2013
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

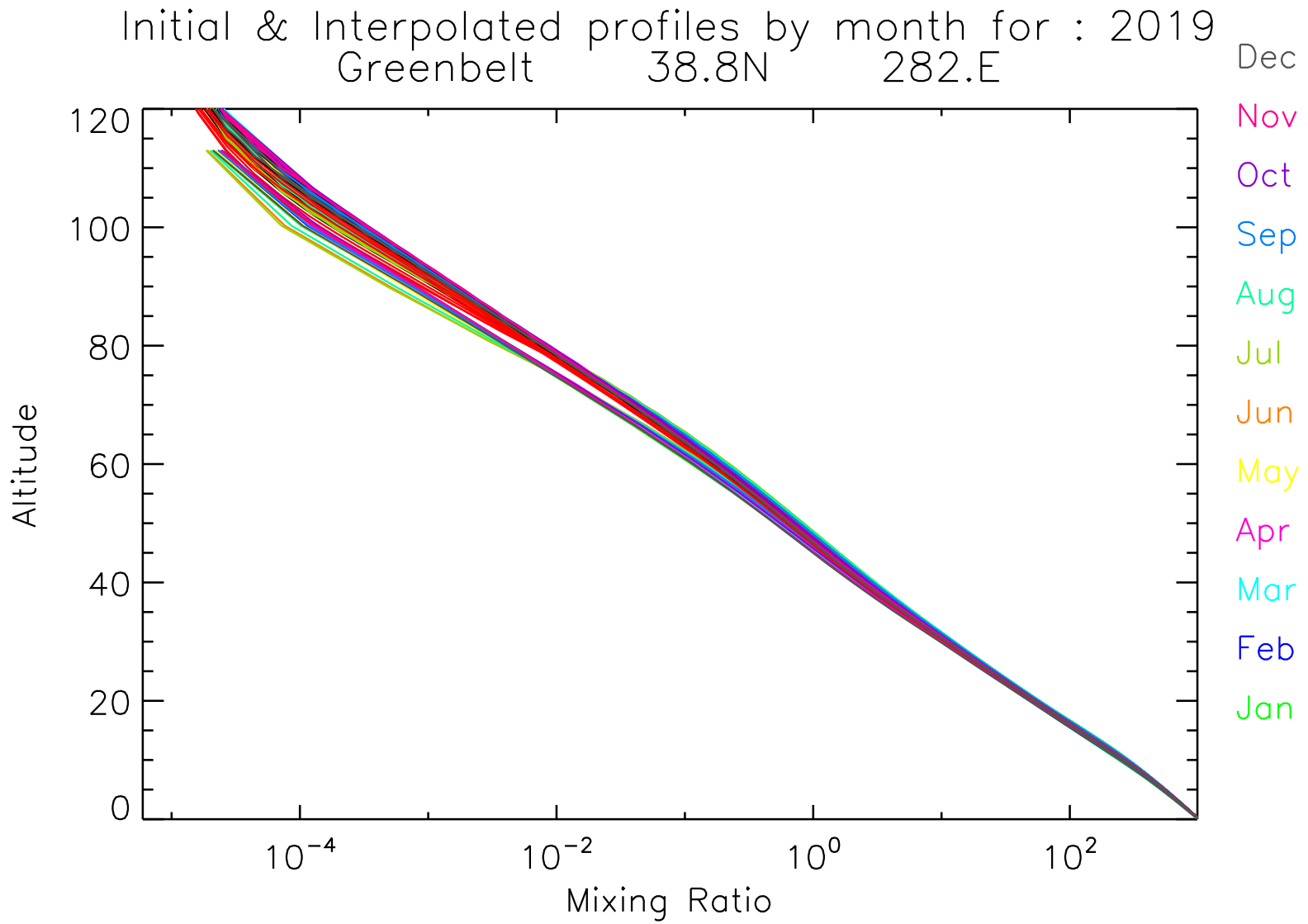

Initial & Interpolated profiles by month for : 2014
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

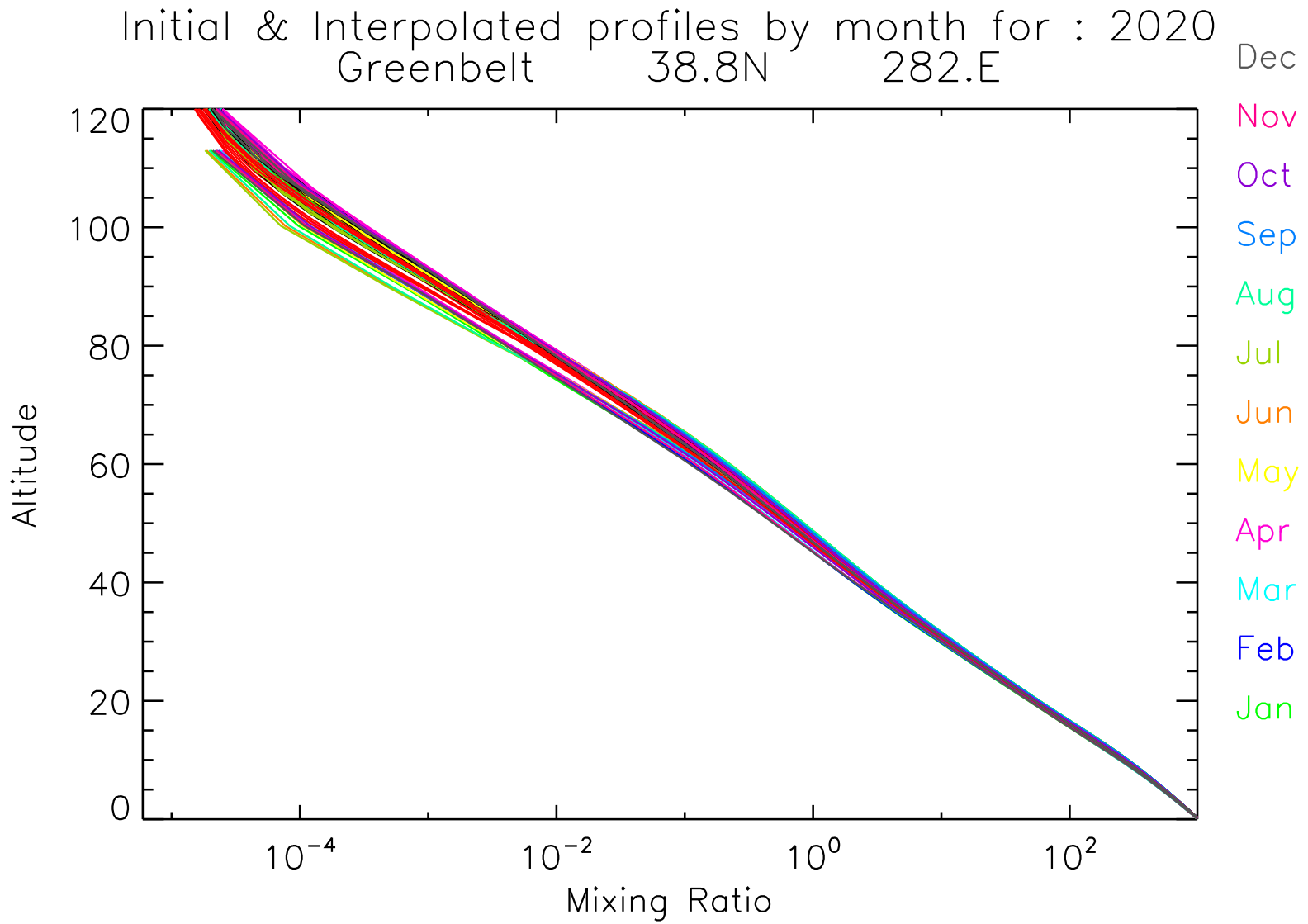

Initial & Interpolated profiles by month for : 2015
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

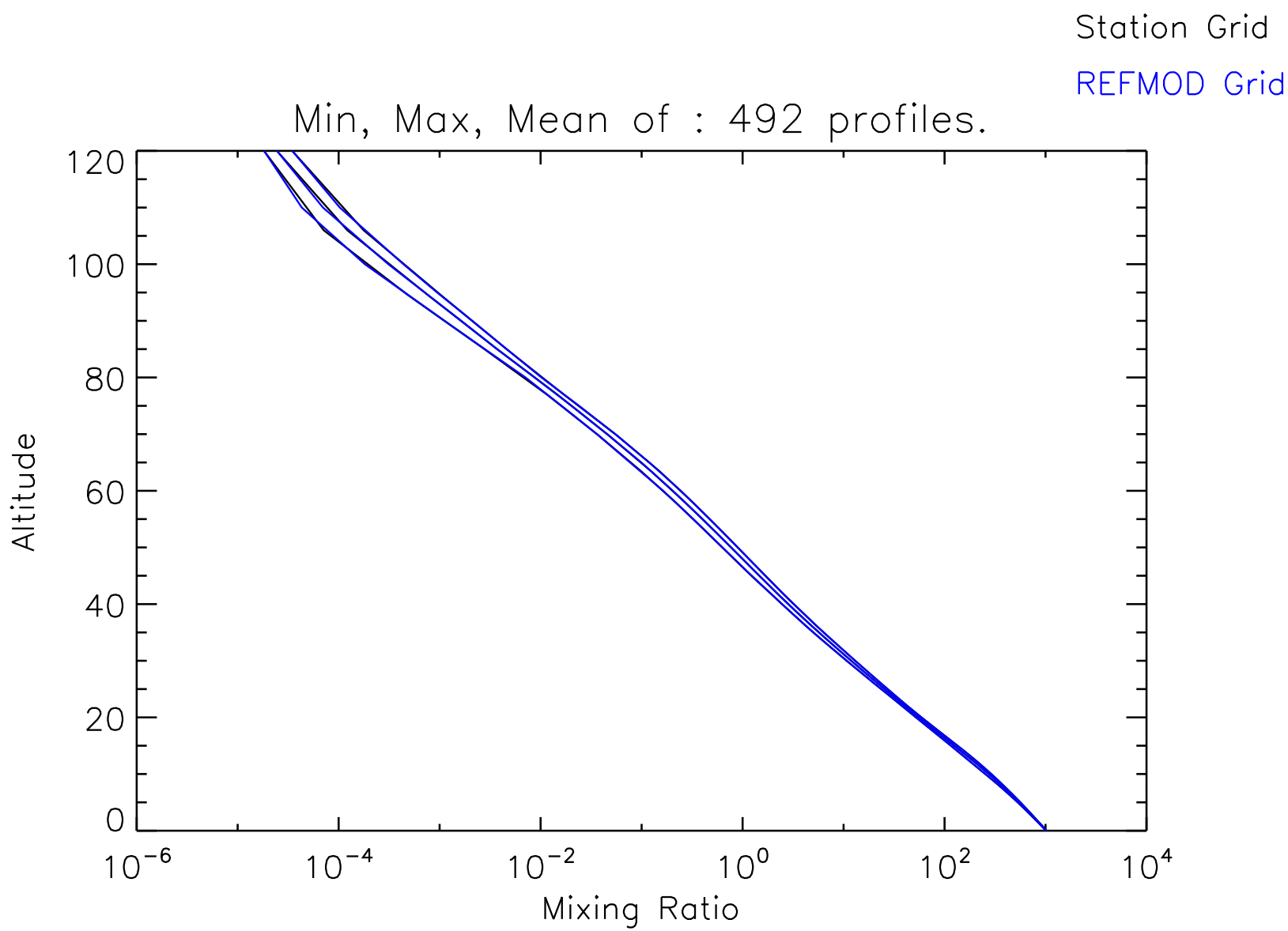

Initial & Interpolated profiles by month for : 2016
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

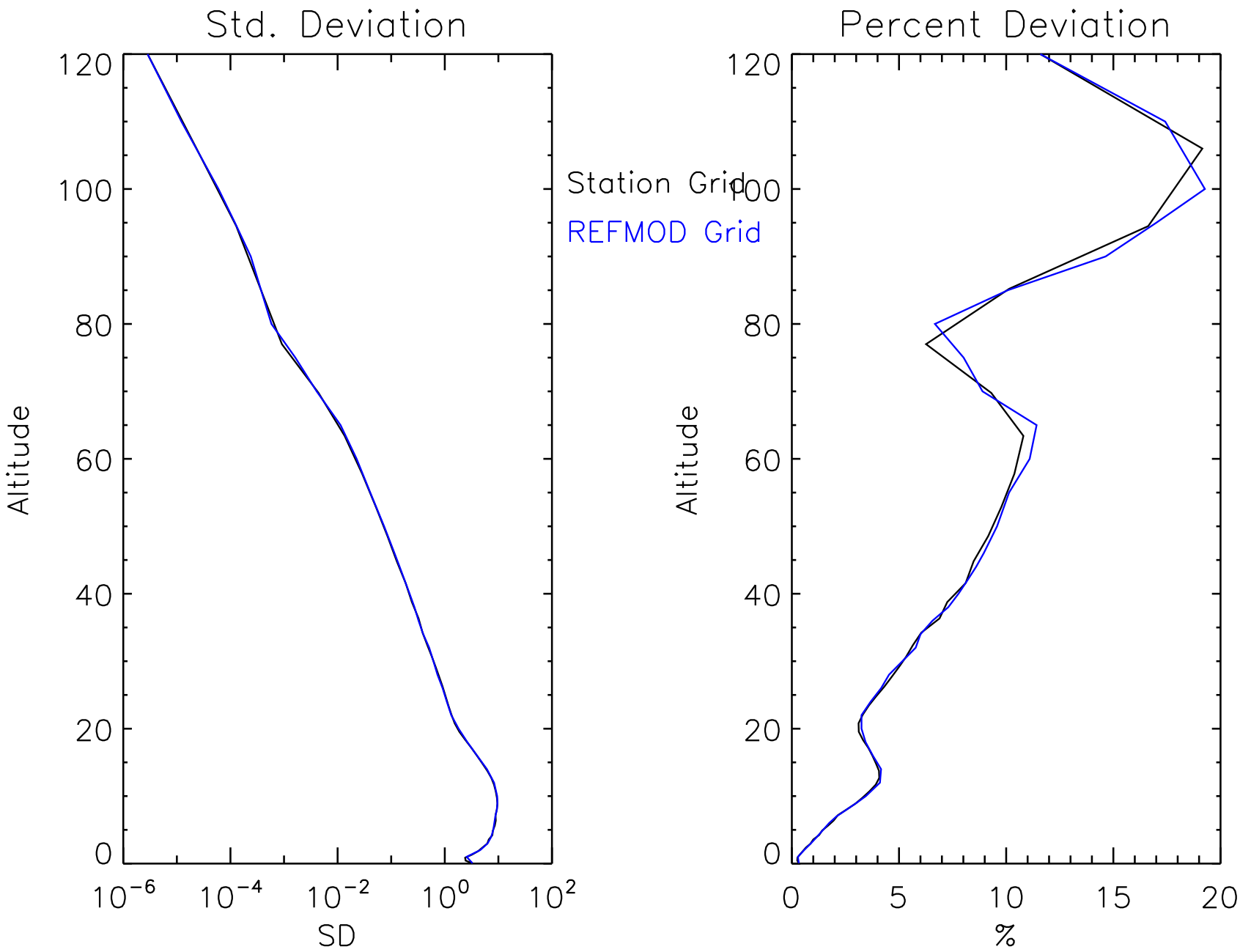

Initial & Interpolated profiles by month for : 2017
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

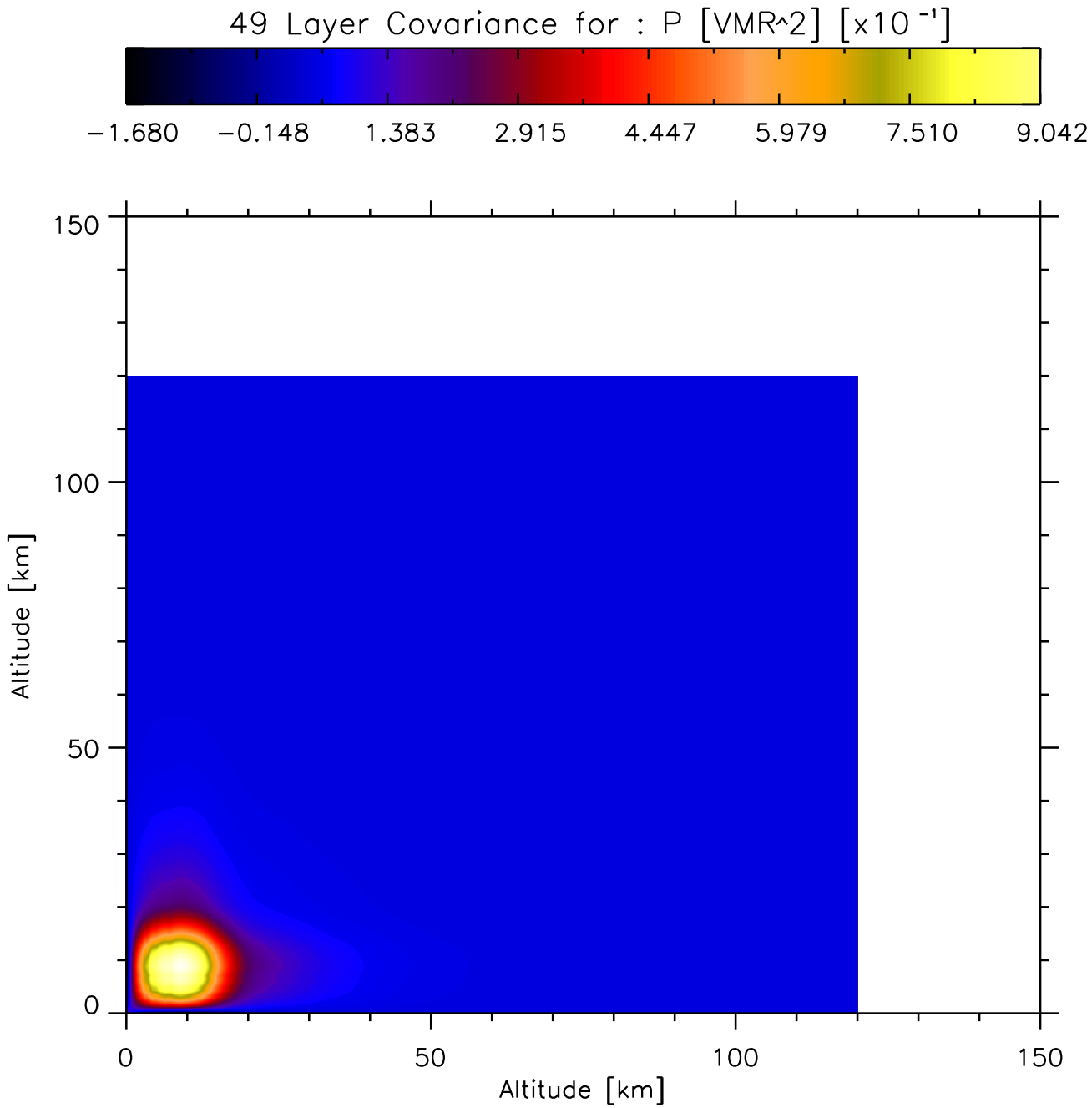

Initial & Interpolated profiles by month for : 2018
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

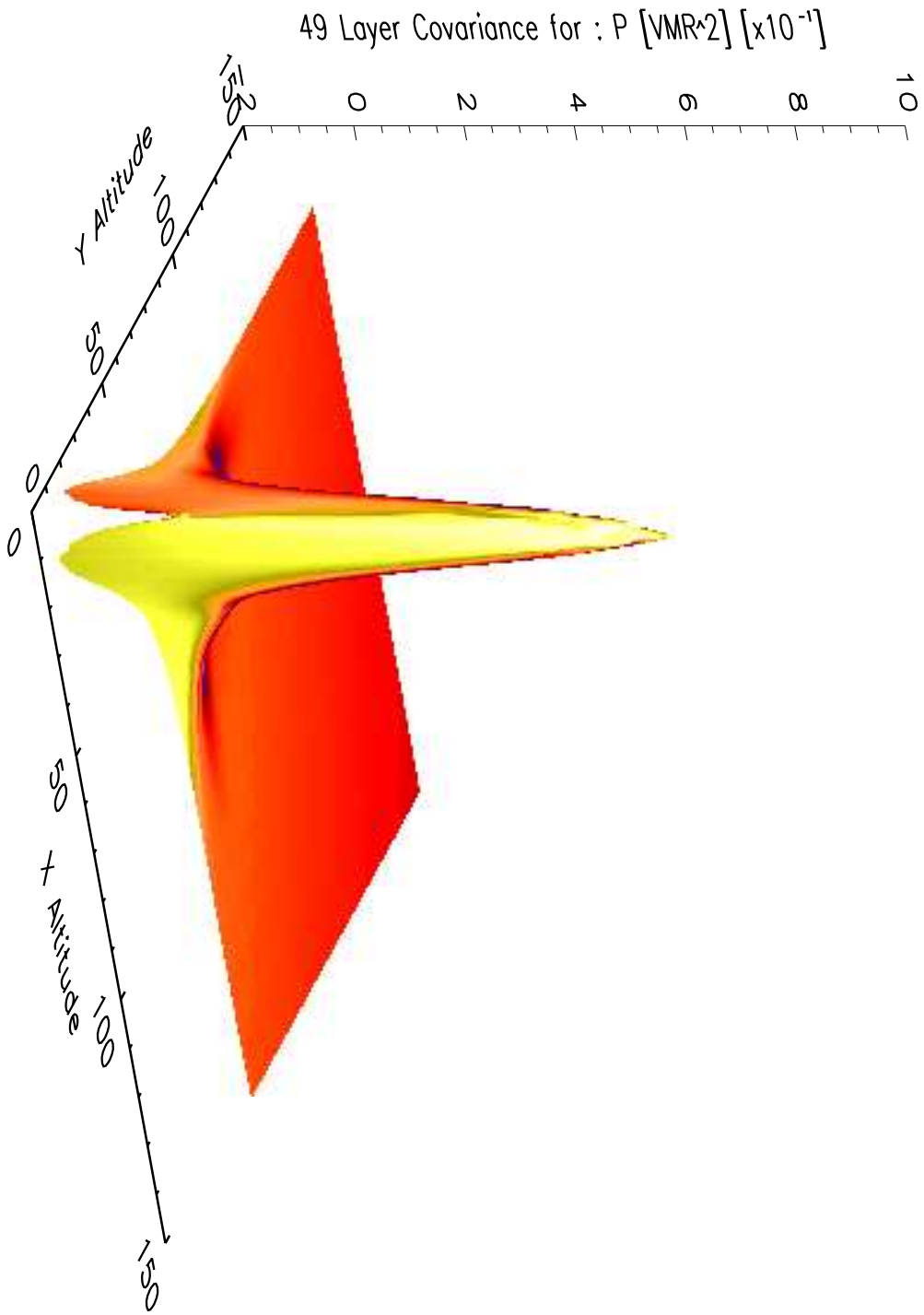

Initial & Interpolated profiles by month for : 2019
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

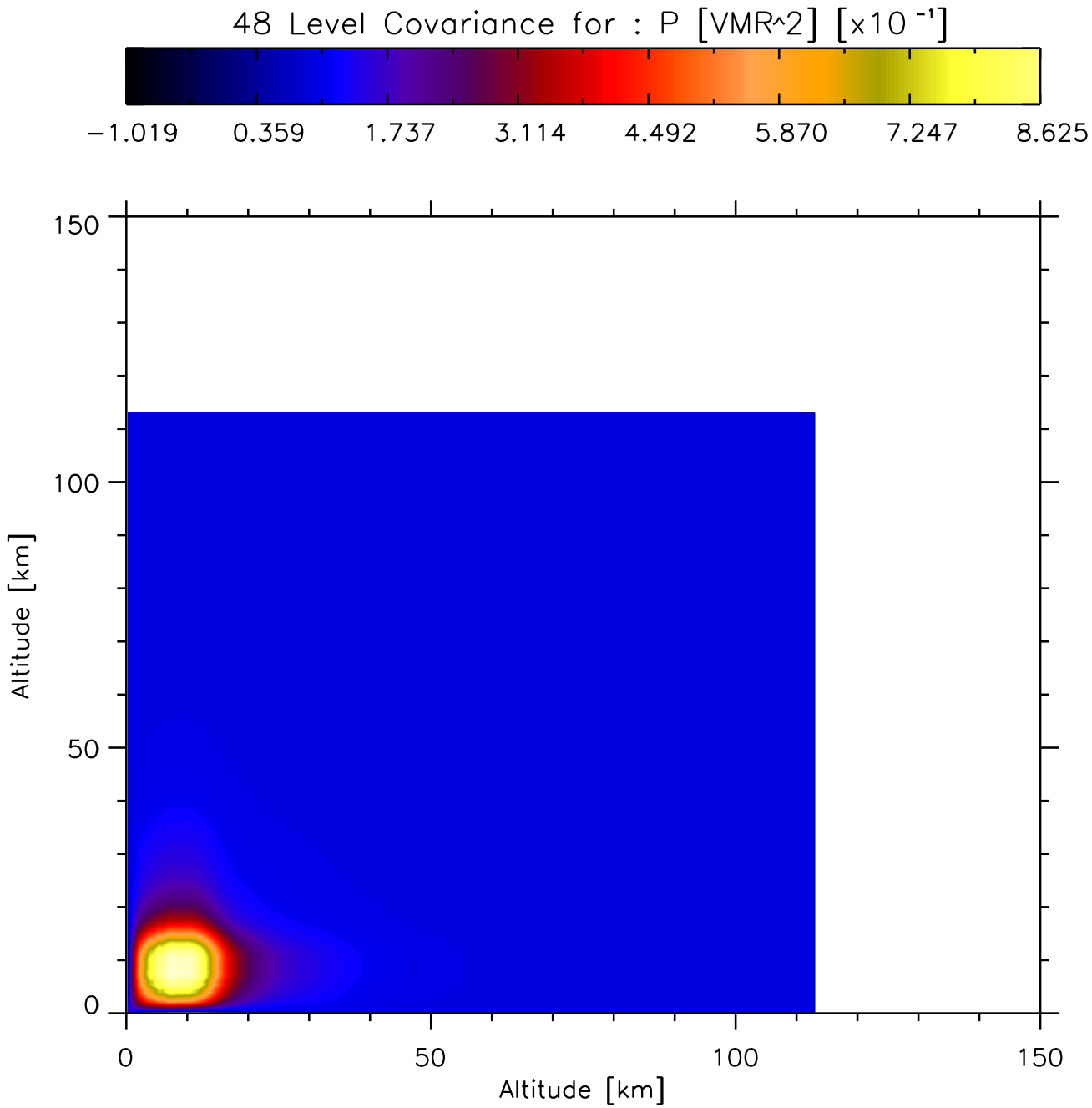

Initial & Interpolated profiles by month for : 2020
Greenbelt 38.8N 282.E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

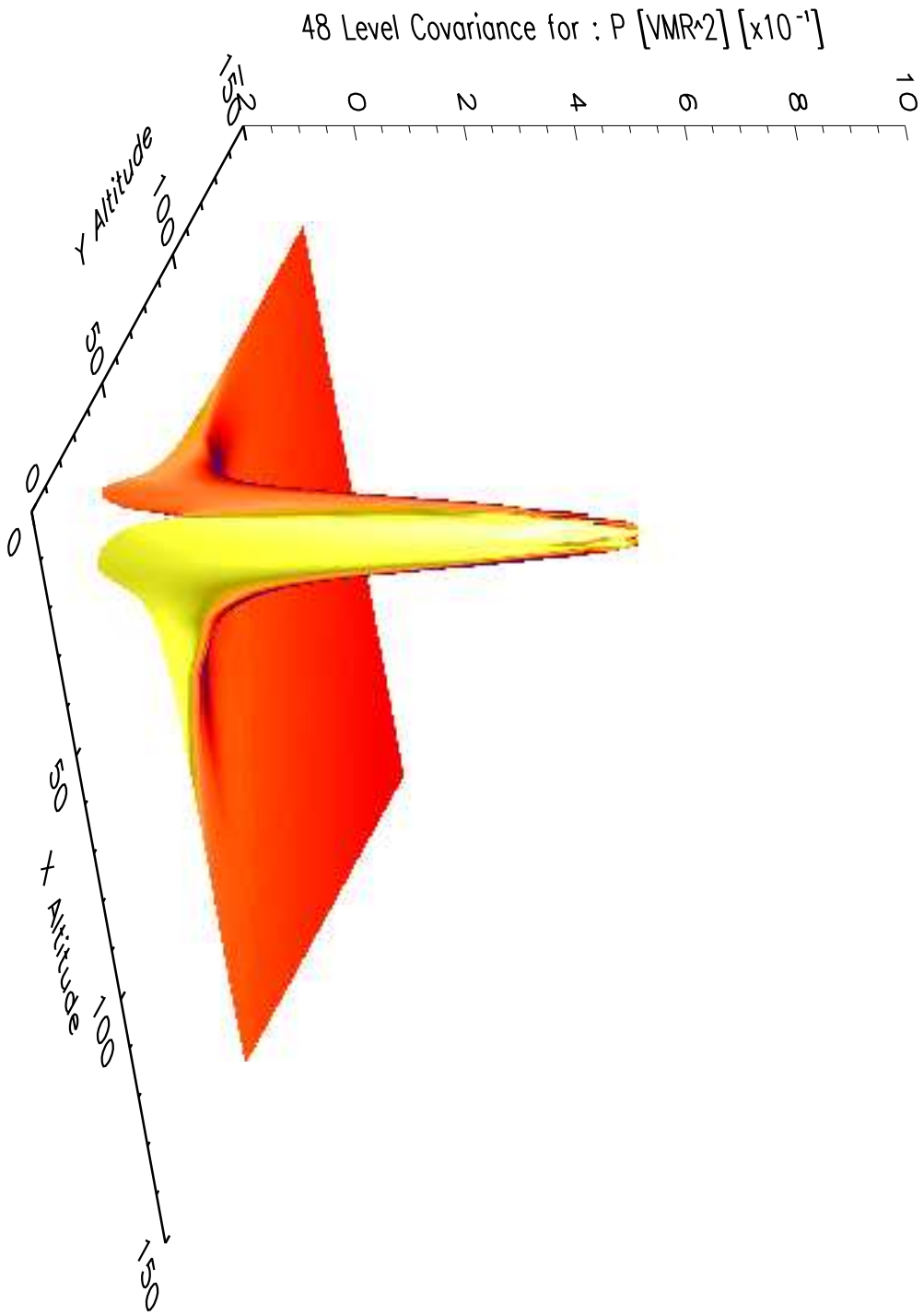

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
10^{4}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
SD
0
5
10
15
20
%


49 Layer Covariance for : P [VMR^2] [x10 -1]
−1.680
−0.148
1.383
2.915
4.447
5.979
7.510
9.042
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


49 Layer Covariance for : P [VMR^2] [x10^-1]
-150
0
2
4
6
8
10
Y Altitude
100
50
0
0
50
X Altitude
100
150


48 Level Covariance for : P [VMR^2] [x10 -1]
-1.019
0.359
1.737
3.114
4.492
5.870
7.247
8.625
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Level Covariance for : P [VMR^2] [x10^-1]
0
2
4
6
8
10
Y Altitude
0
50
100
150
X Altitude
0
50
100
150