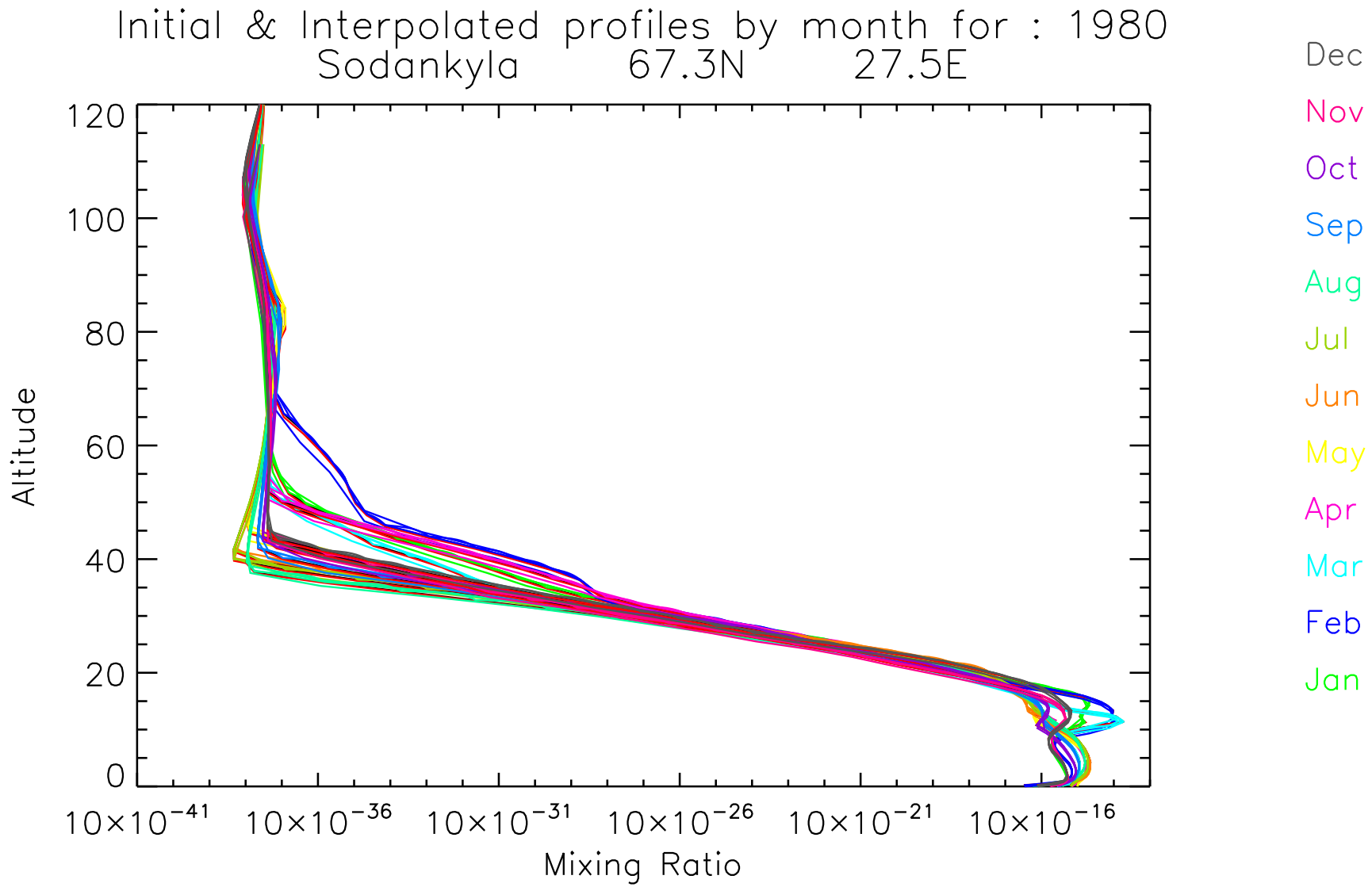
Initial & Interpolated profiles by month for : 1980
Sodankyla 67.3N 27.5E
Altitude
120
100
80
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40
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Mixing Ratio
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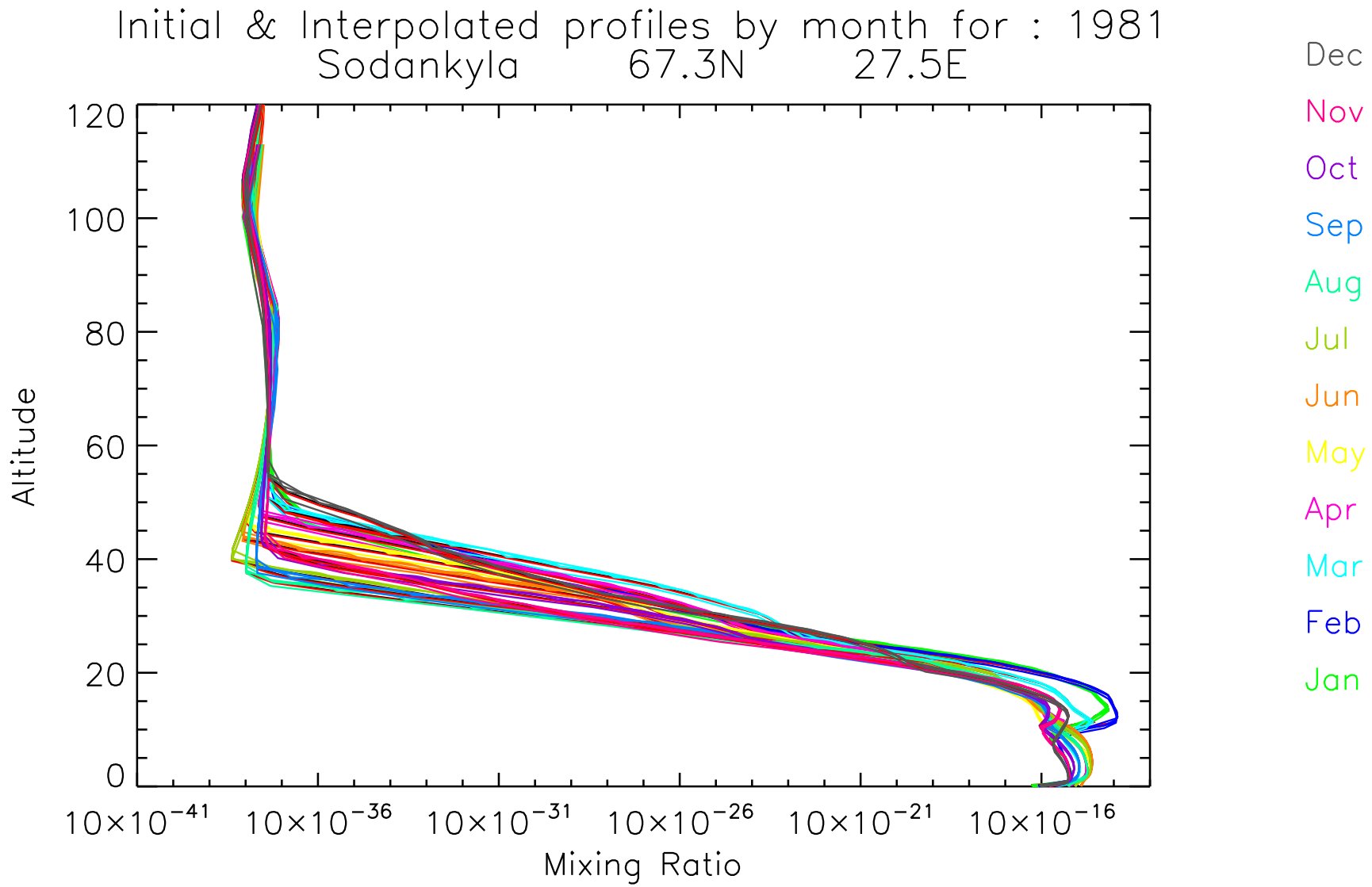
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Altitude
120
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Mixing Ratio
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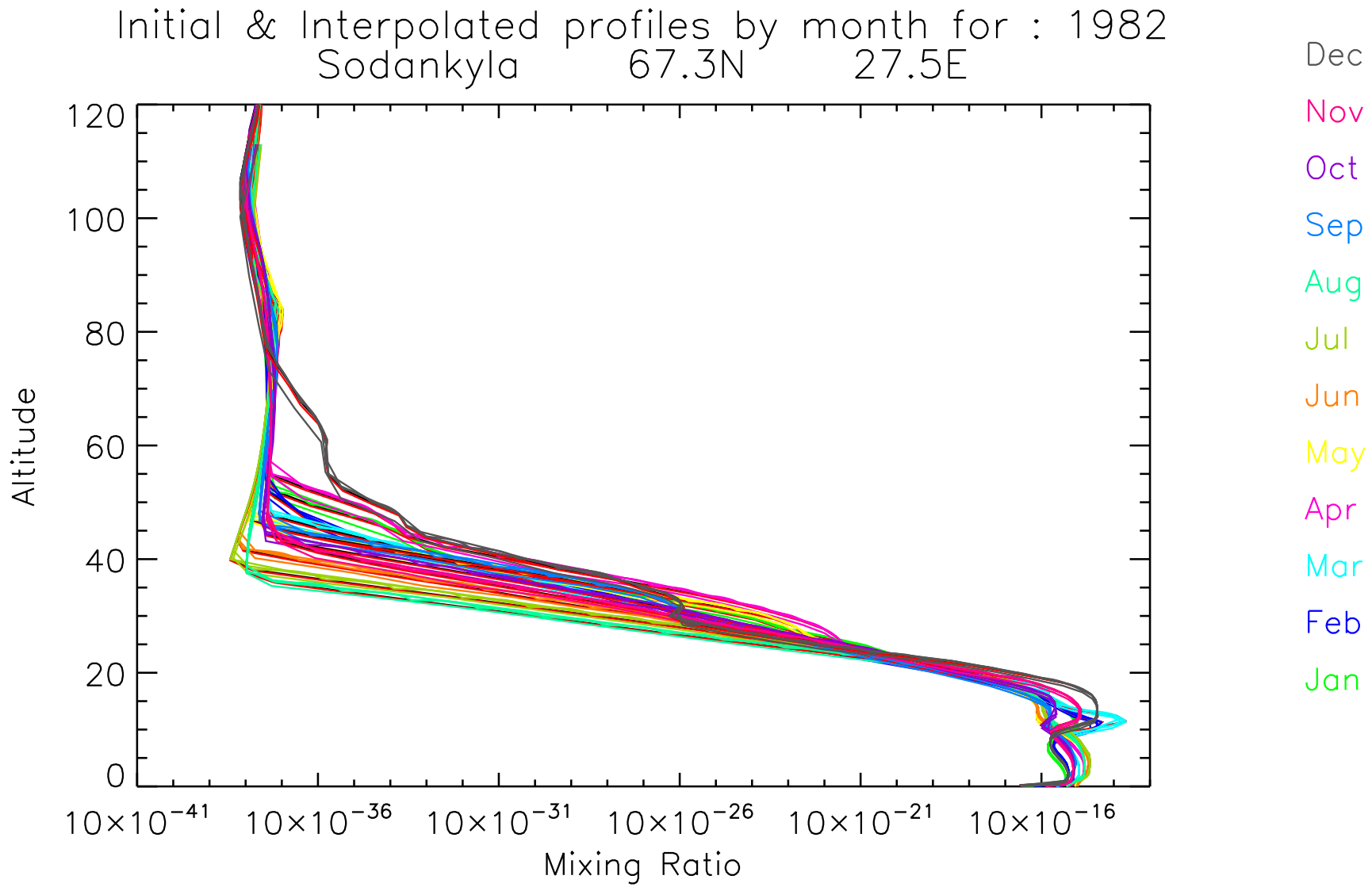
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Altitude
120
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Mixing Ratio
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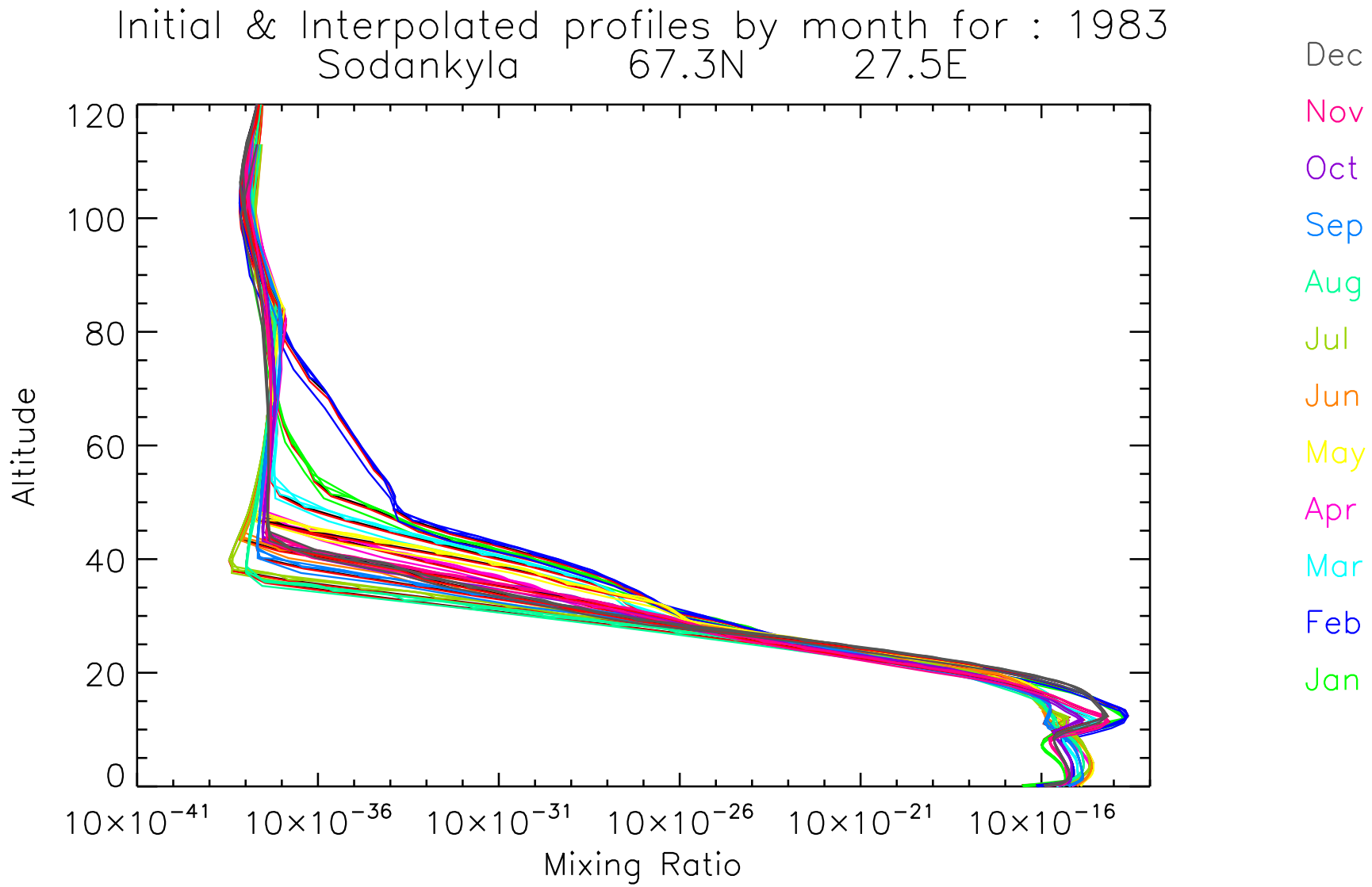
Initial & Interpolated profiles by month for : 1983
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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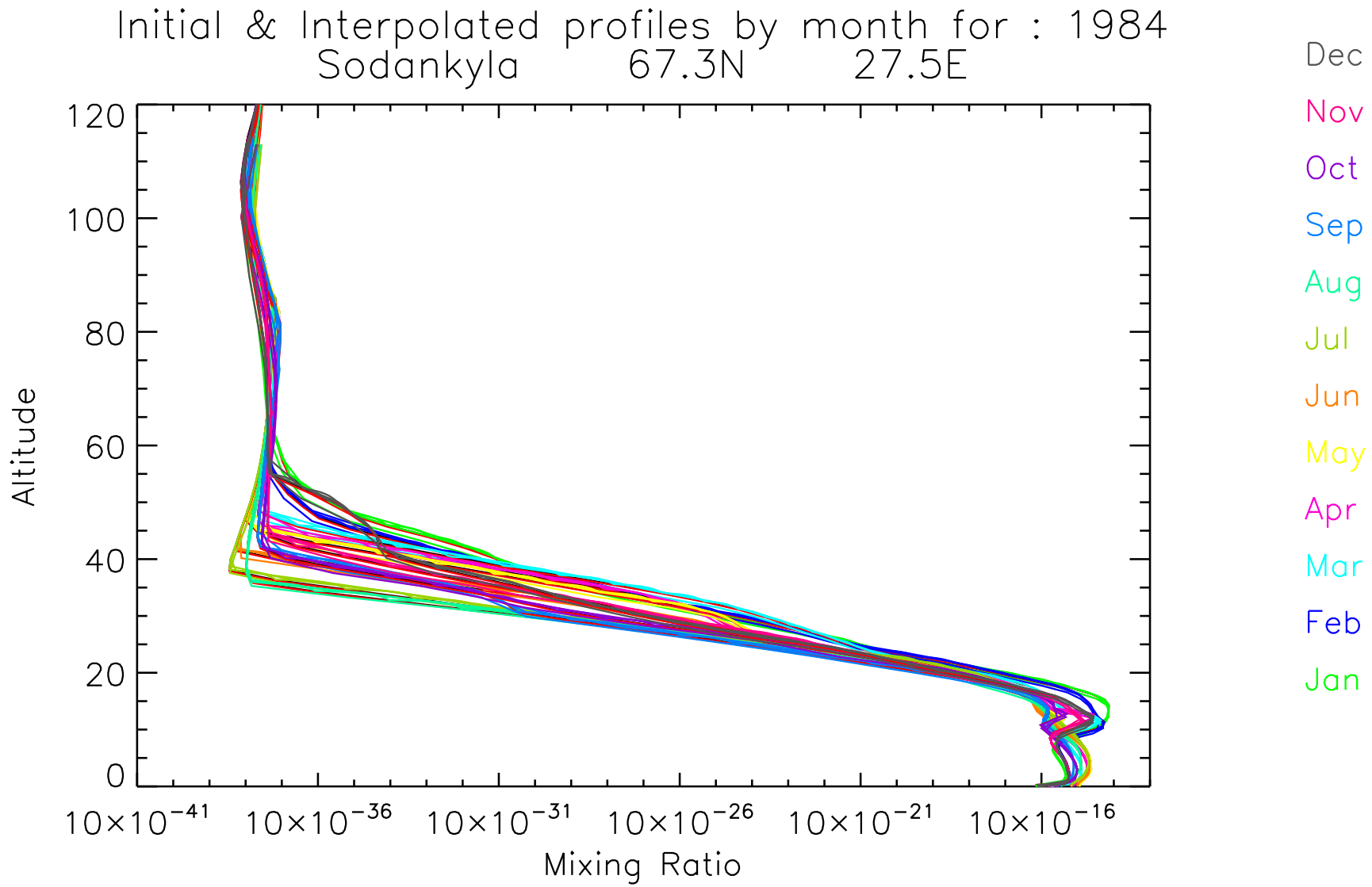
Initial & Interpolated profiles by month for : 1984
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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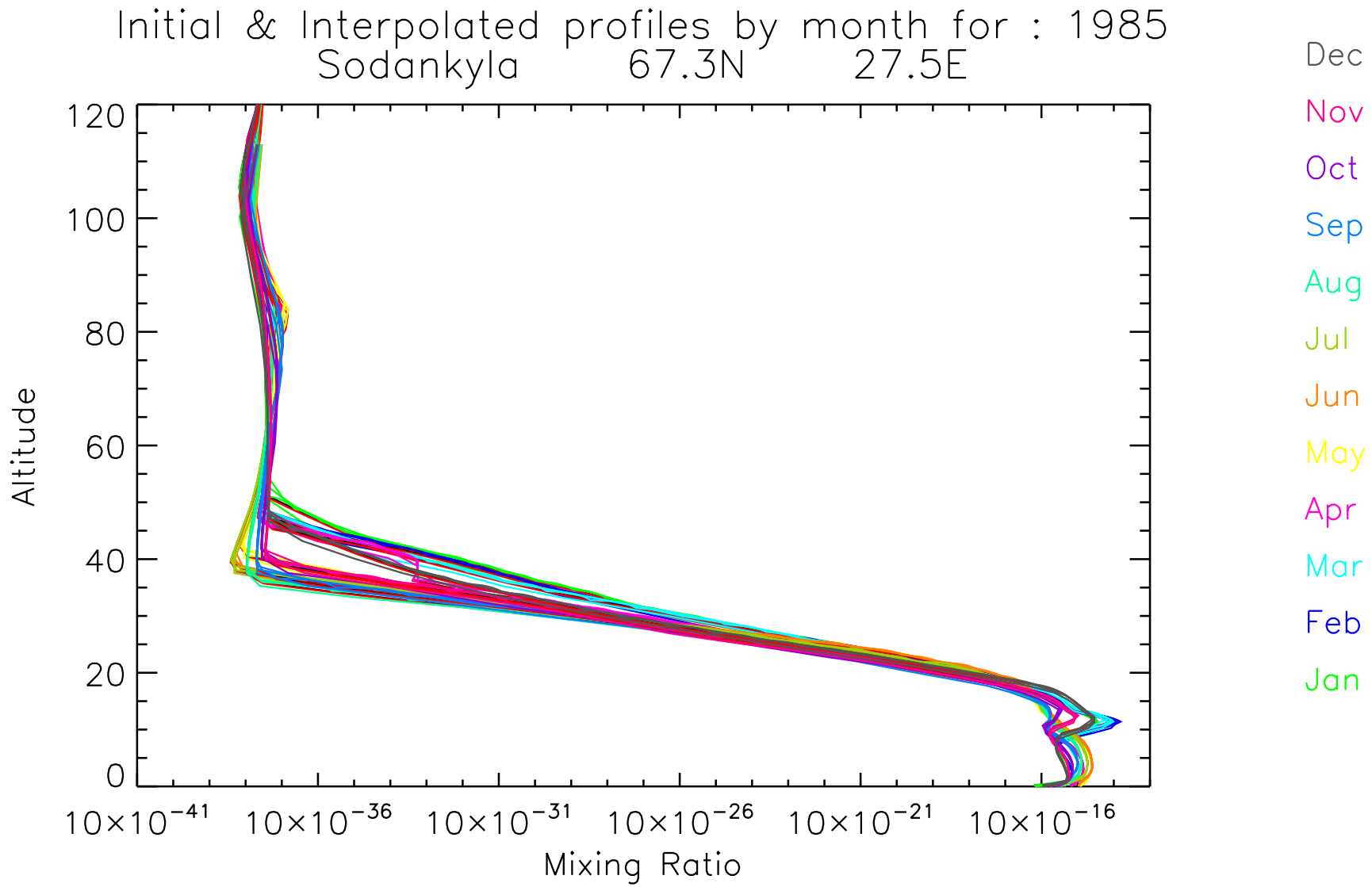
Initial & Interpolated profiles by month for : 1985
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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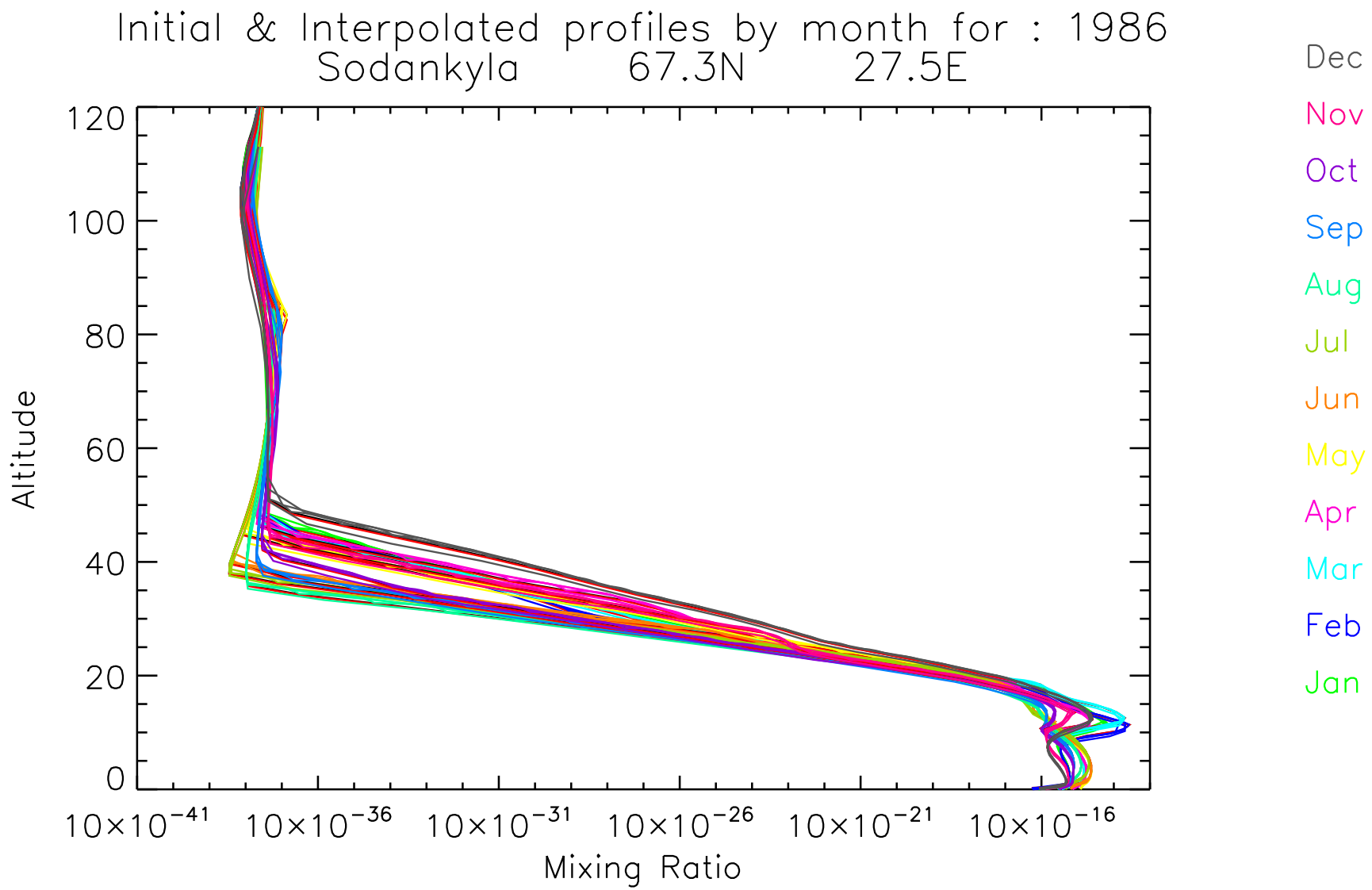
Initial & Interpolated profiles by month for : 1986
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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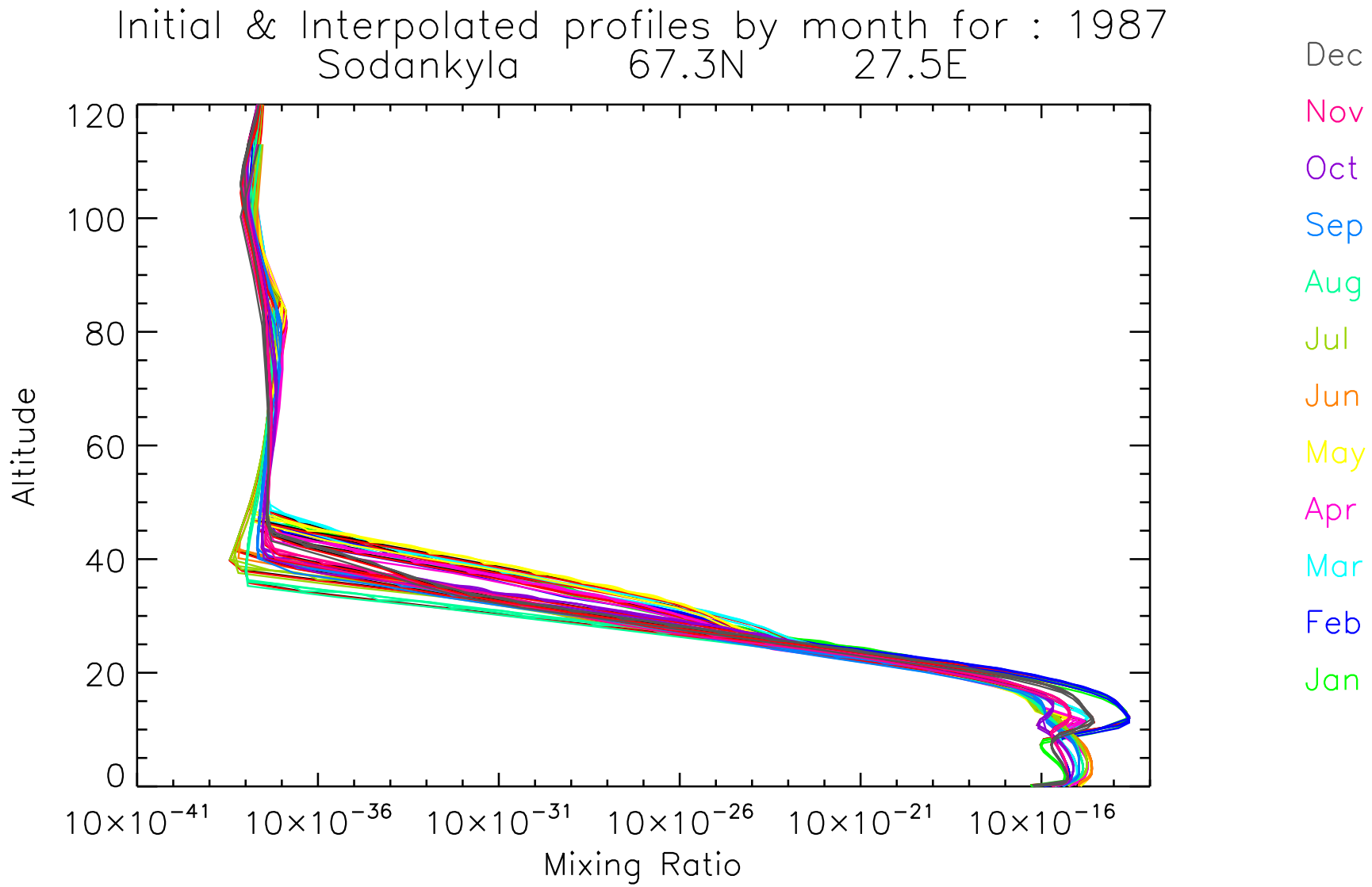
Initial & Interpolated profiles by month for : 1987
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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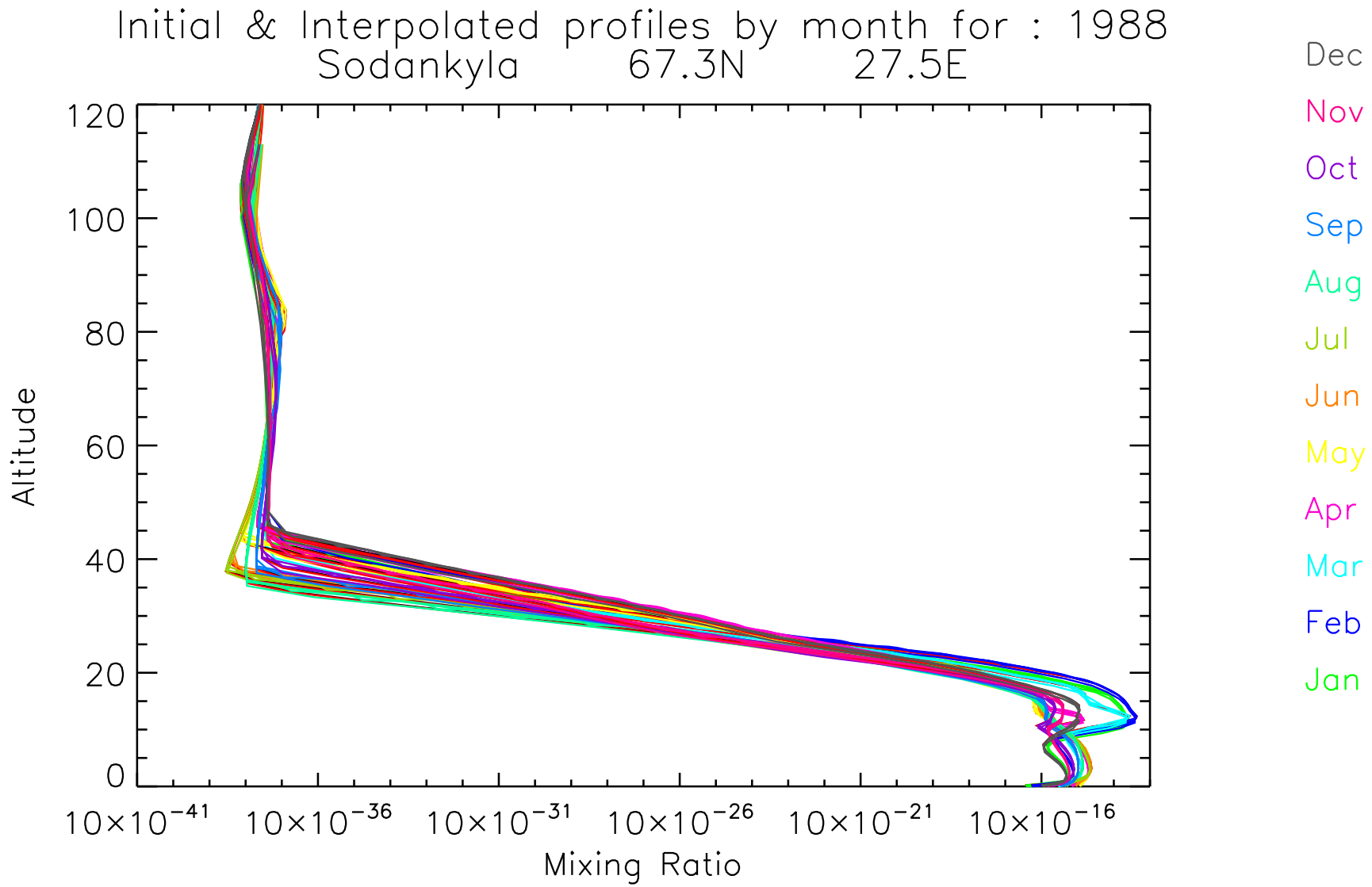
Initial & Interpolated profiles by month for : 1988
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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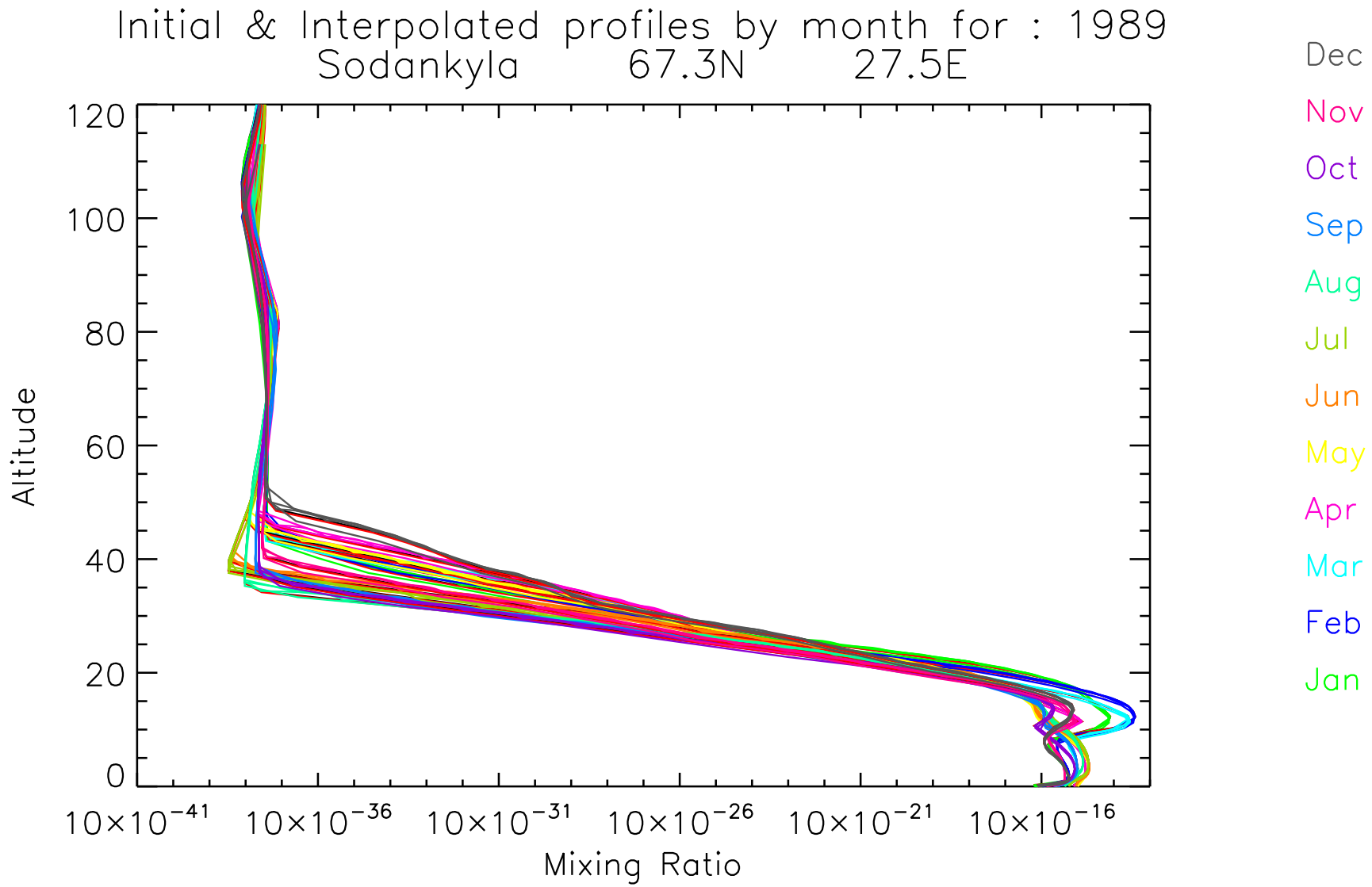
Initial & Interpolated profiles by month for : 1989
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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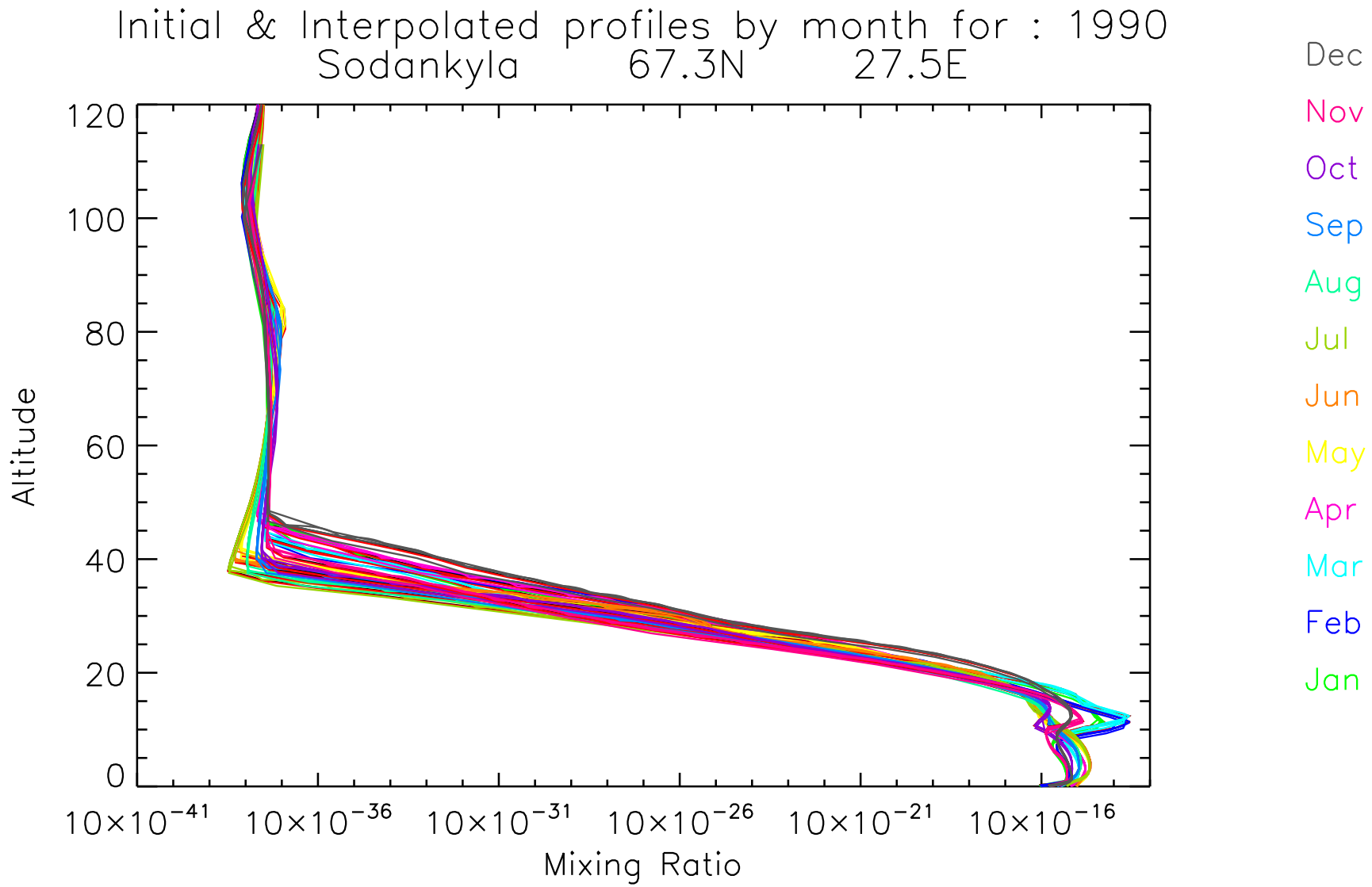
Initial & Interpolated profiles by month for : 1990
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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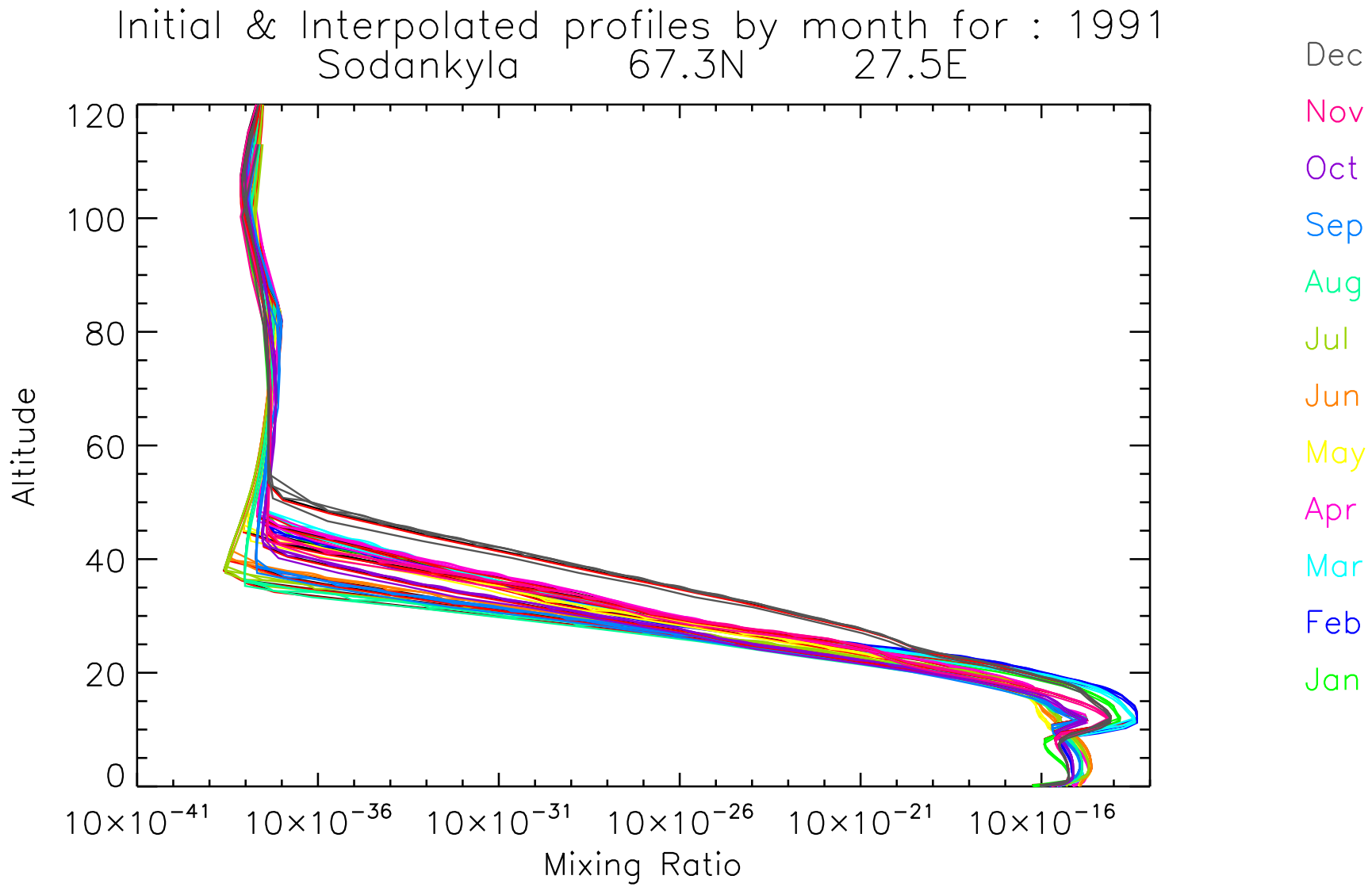
Initial & Interpolated profiles by month for : 1991
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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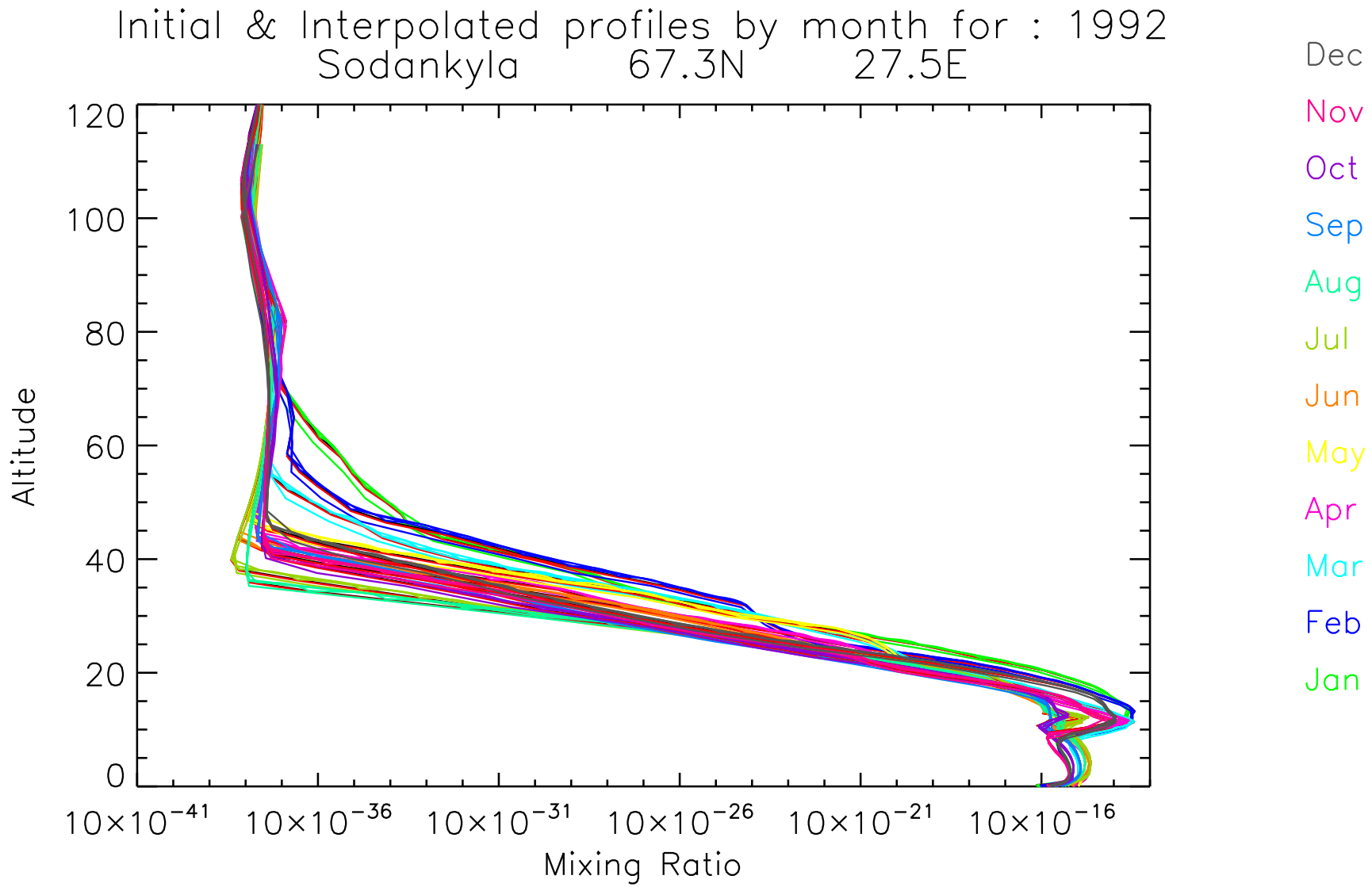
Initial & Interpolated profiles by month for : 1992
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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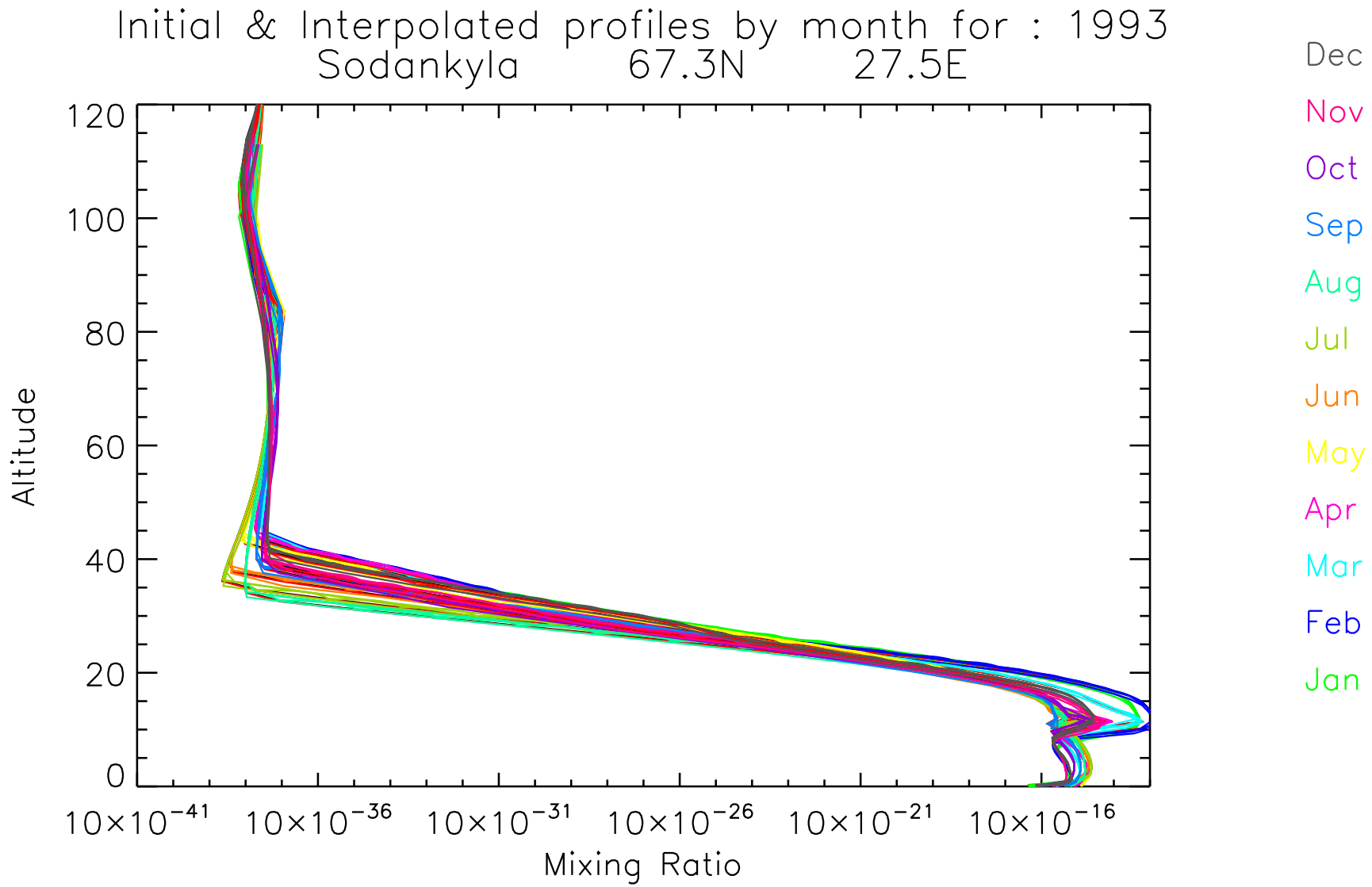
Initial & Interpolated profiles by month for : 1993
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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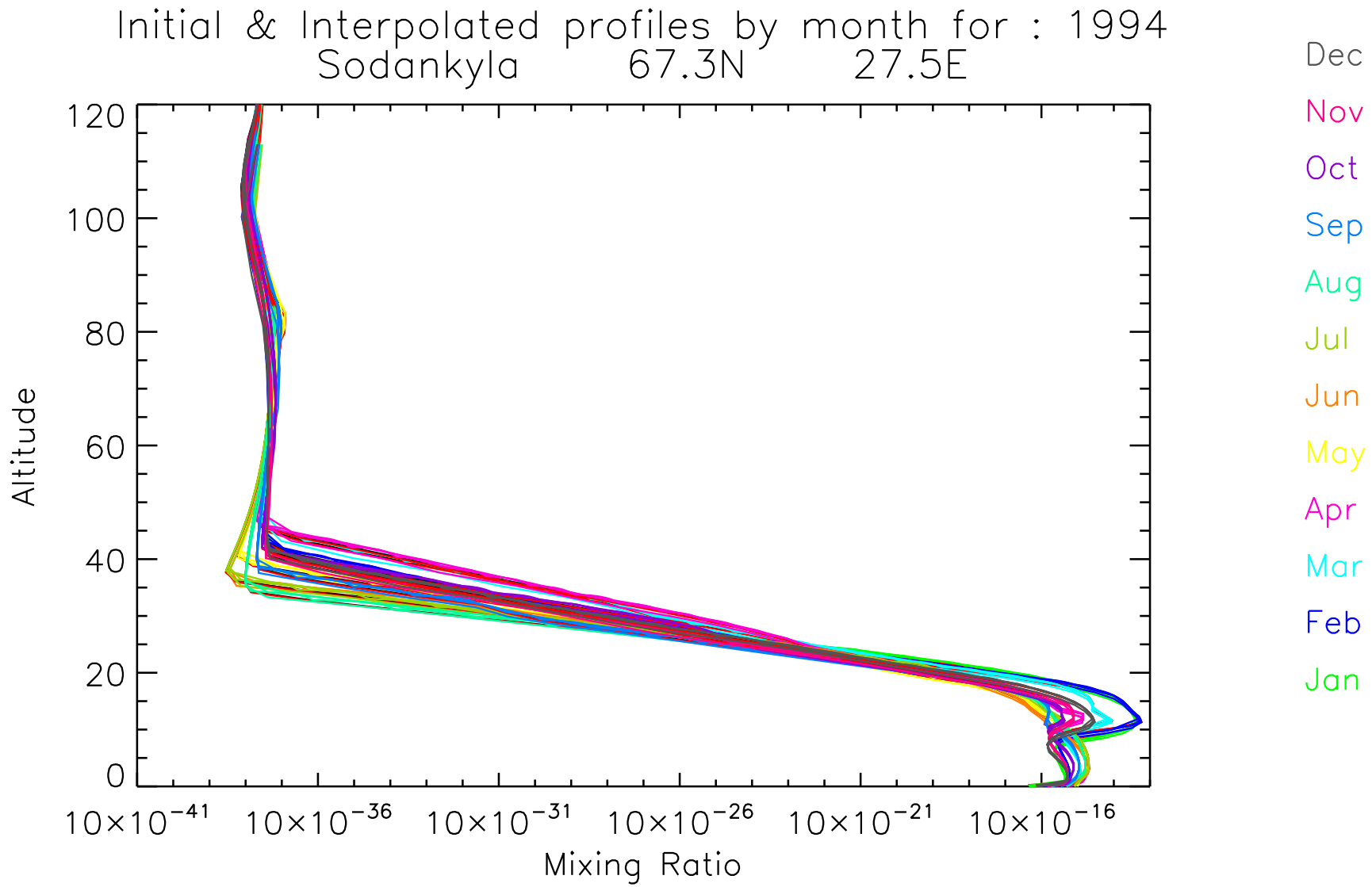
Initial & Interpolated profiles by month for : 1994
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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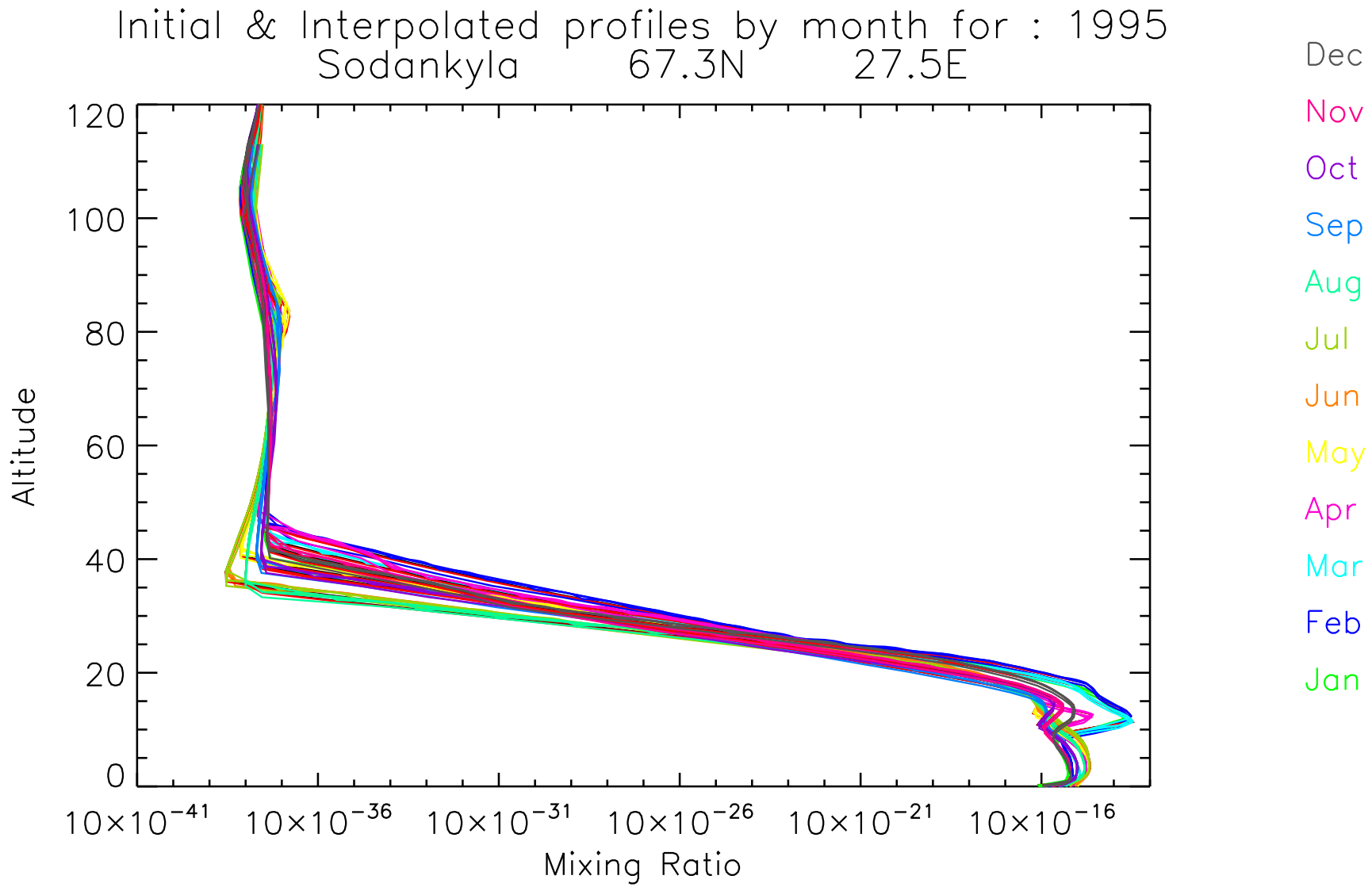
Initial & Interpolated profiles by month for : 1995
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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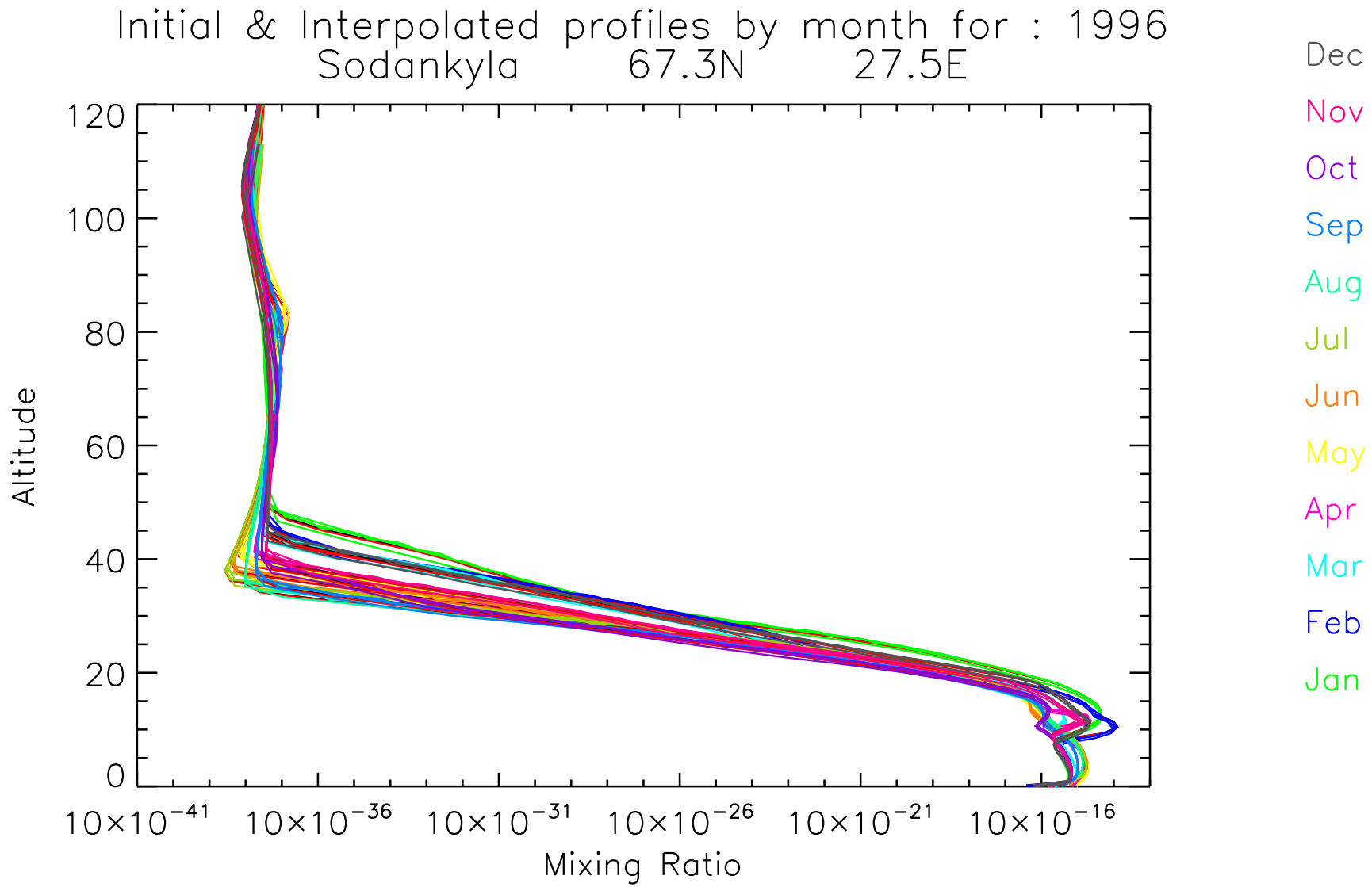
Initial & Interpolated profiles by month for : 1996
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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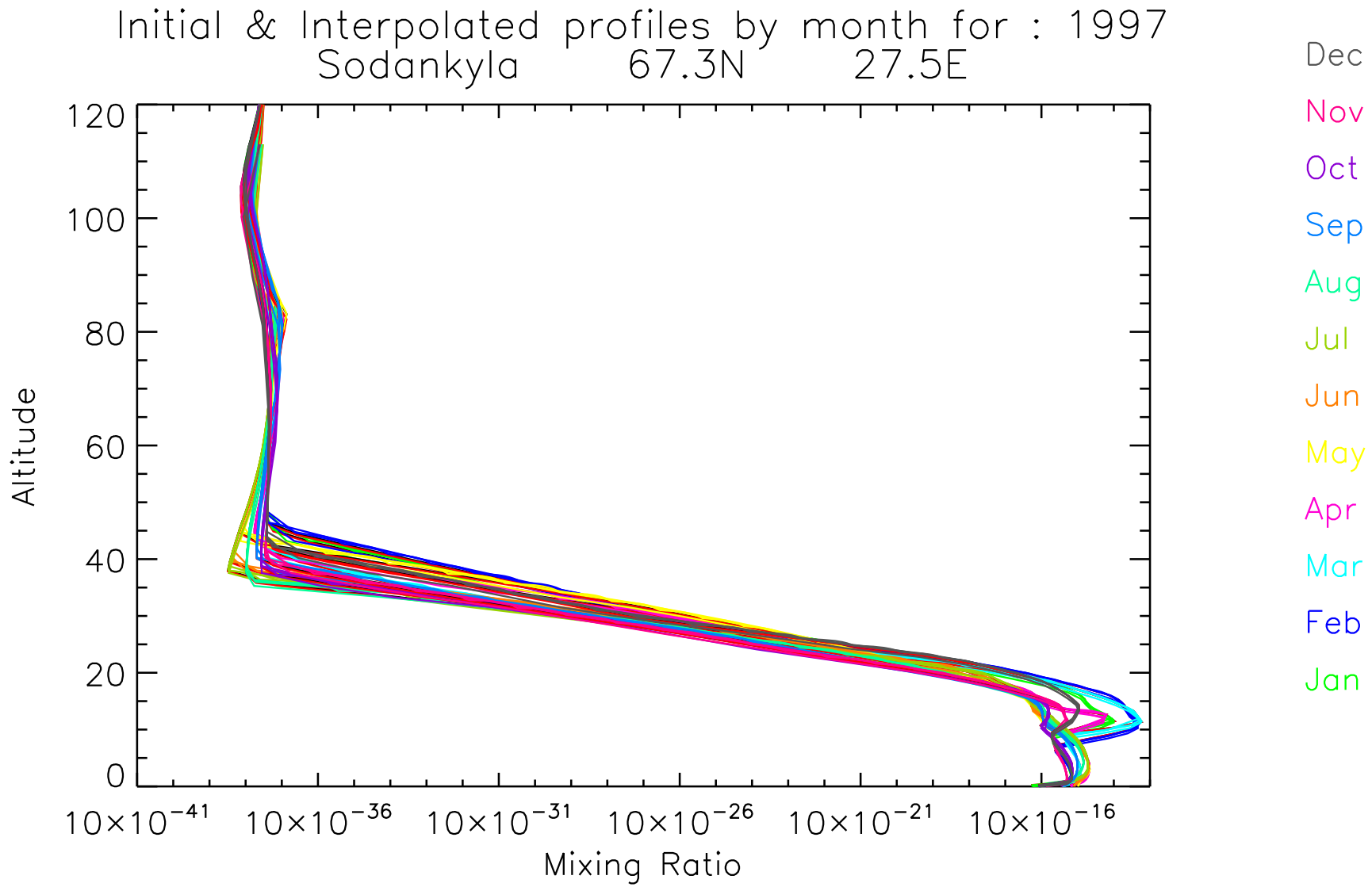
Initial & Interpolated profiles by month for : 1997
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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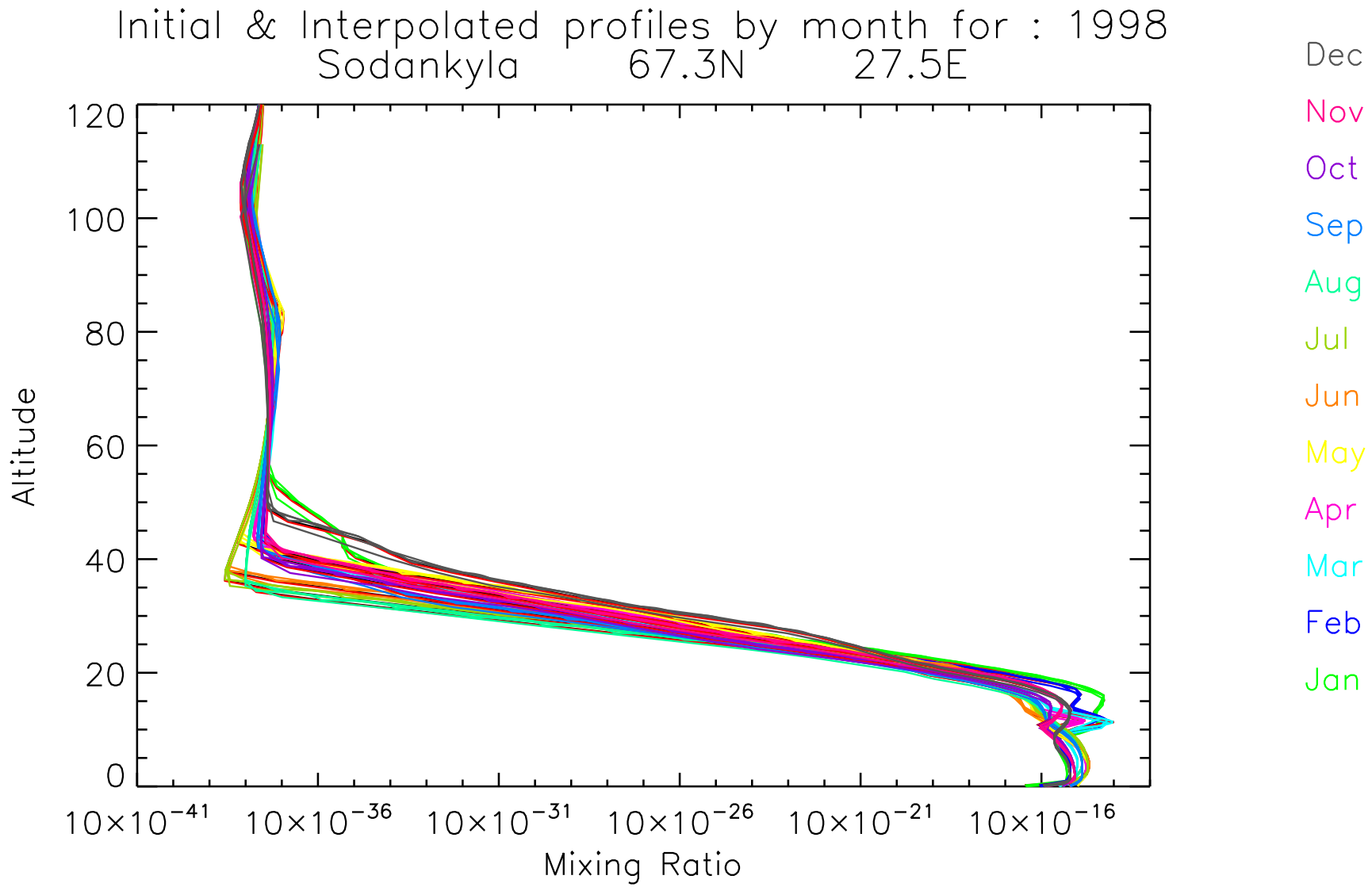
Initial & Interpolated profiles by month for : 1998
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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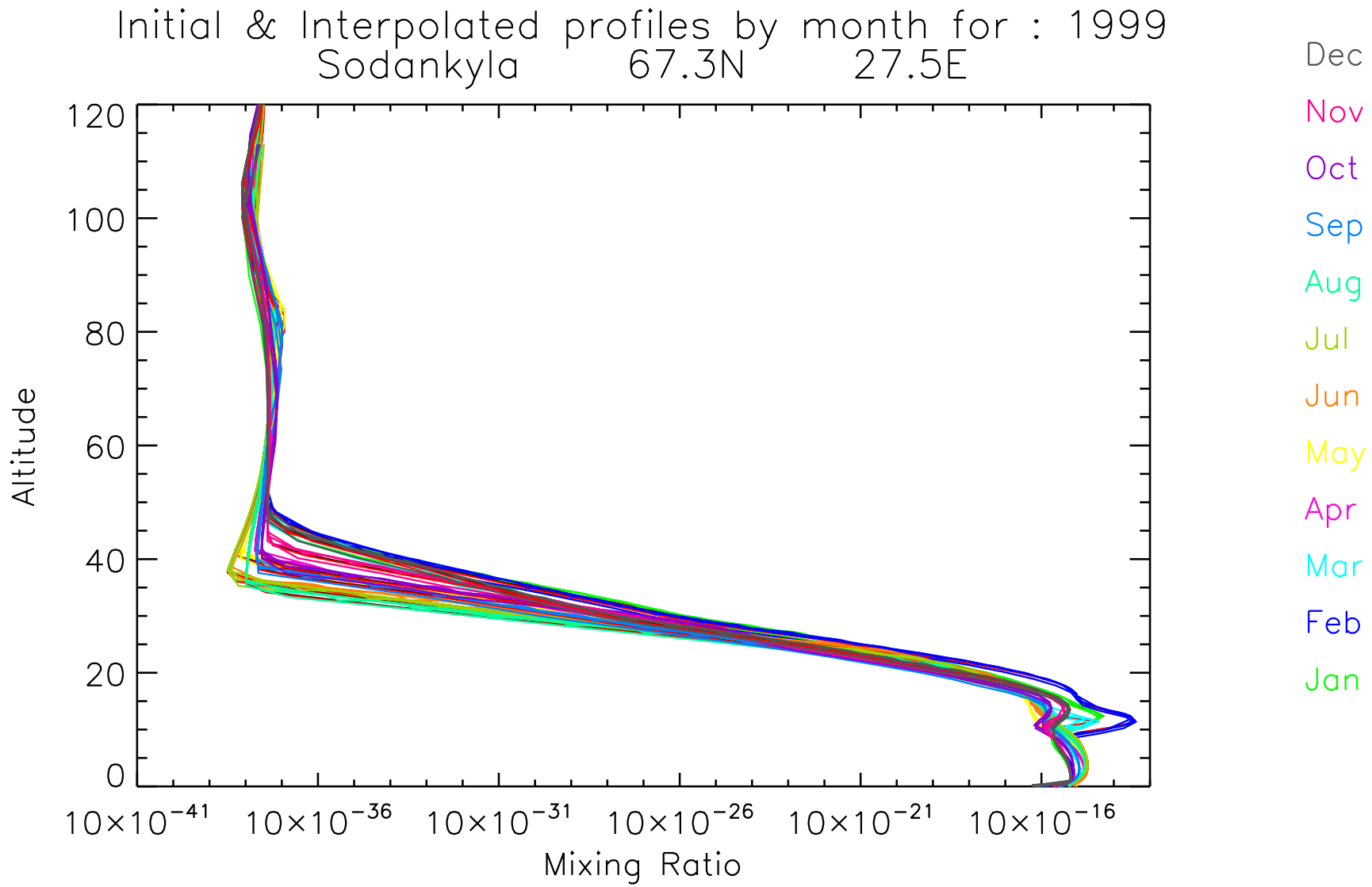
Initial & Interpolated profiles by month for : 1999
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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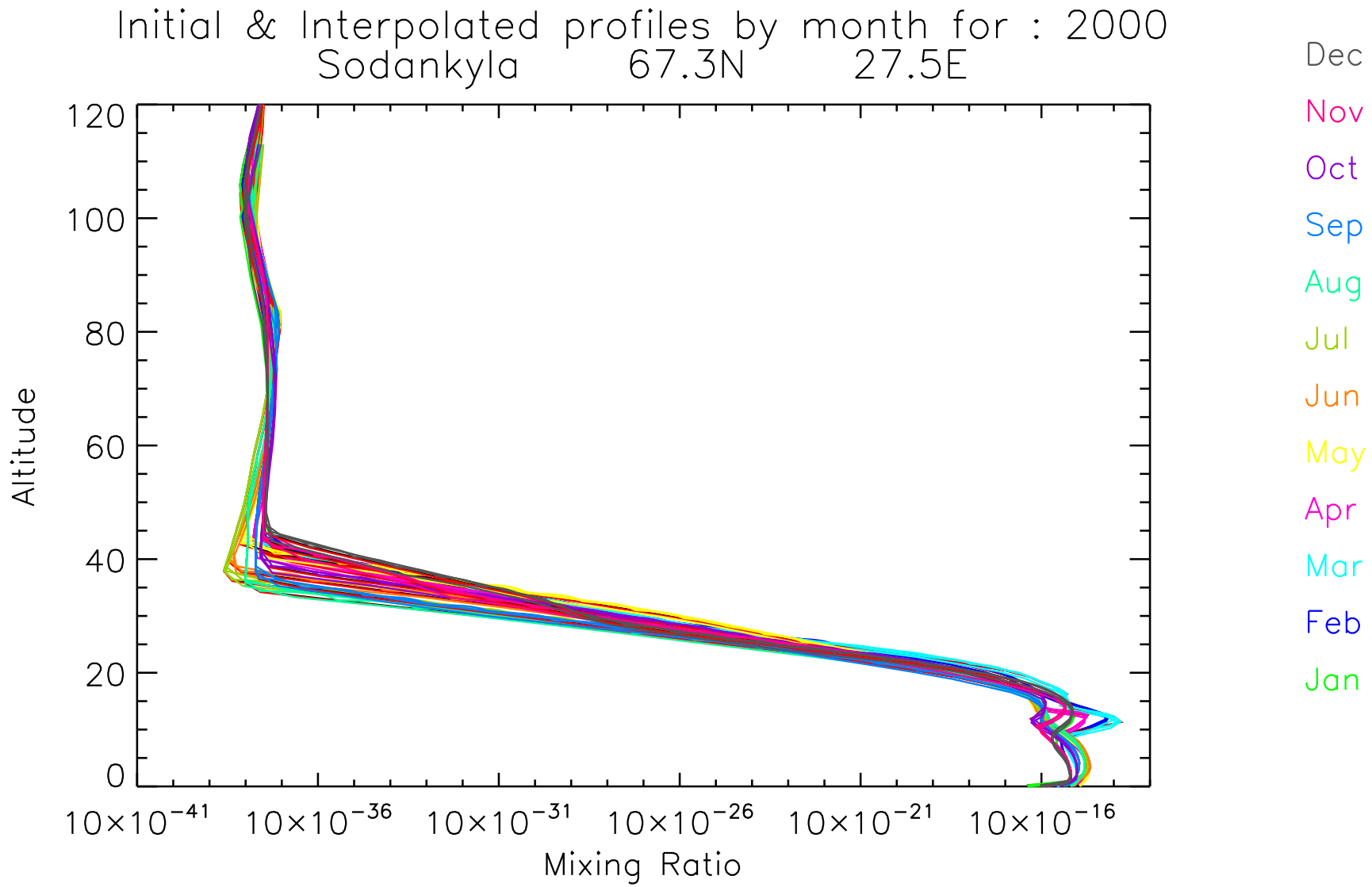
Initial & Interpolated profiles by month for : 2000
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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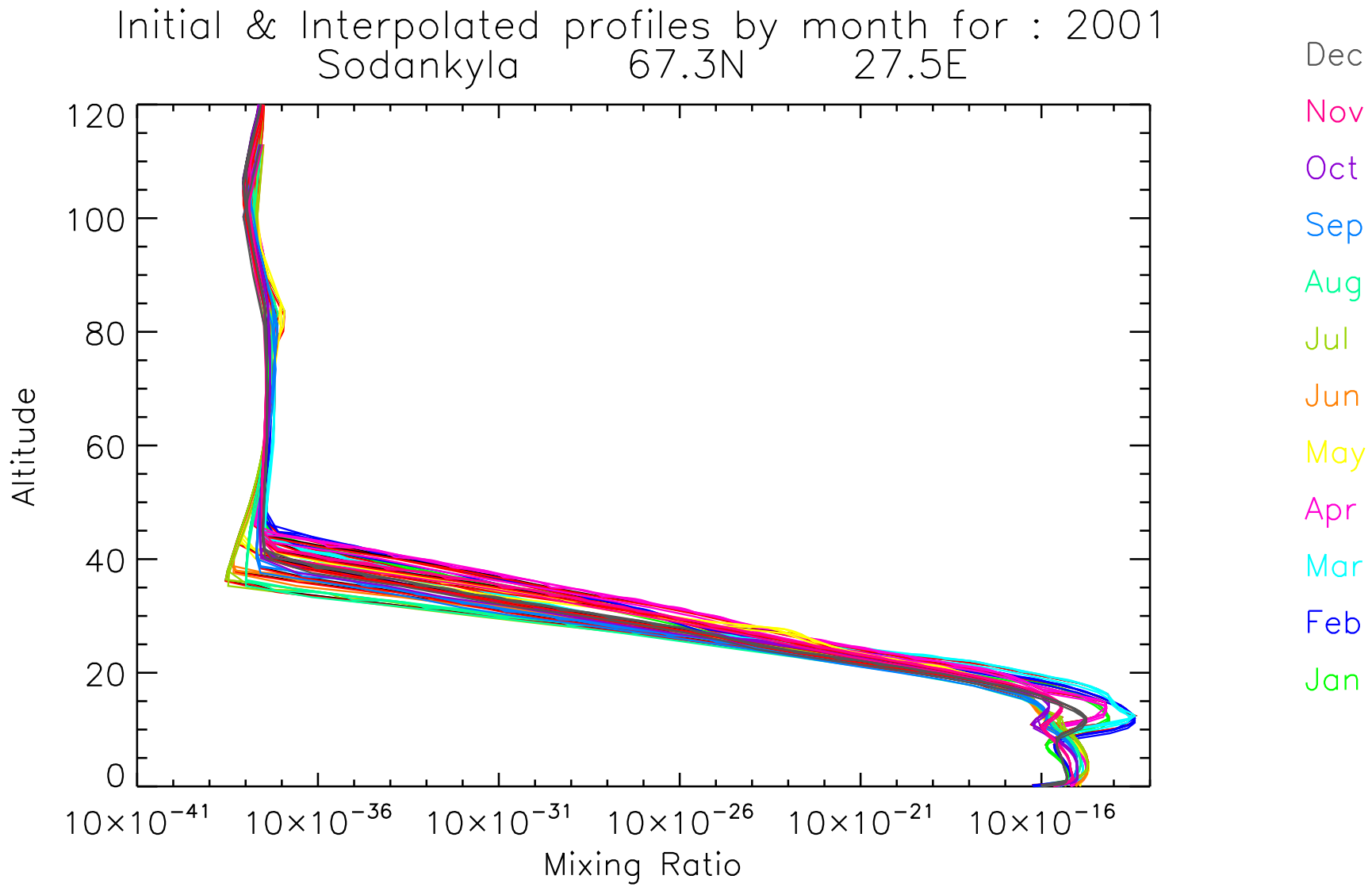
Initial & Interpolated profiles by month for : 2001
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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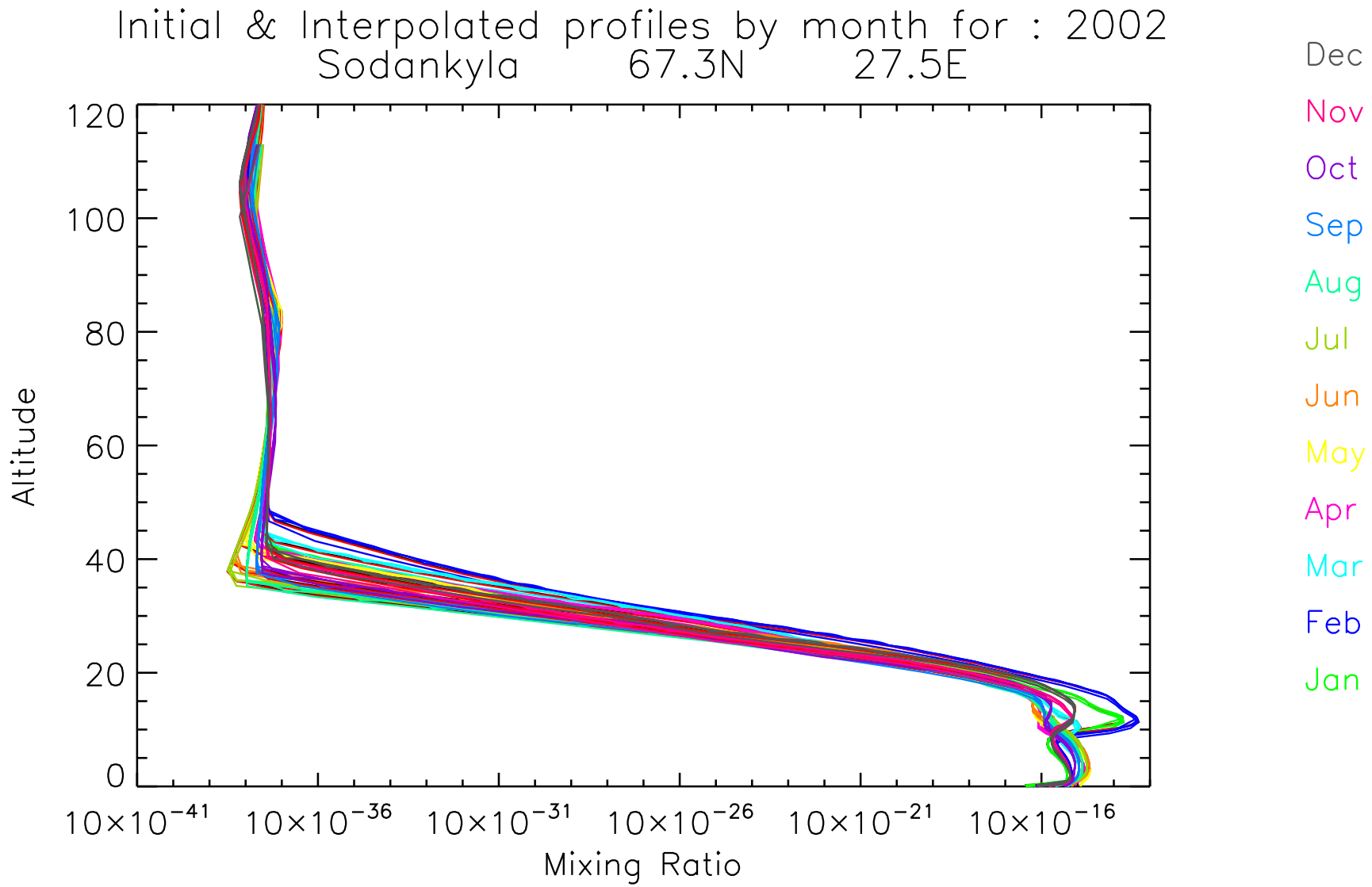
Initial & Interpolated profiles by month for : 2002
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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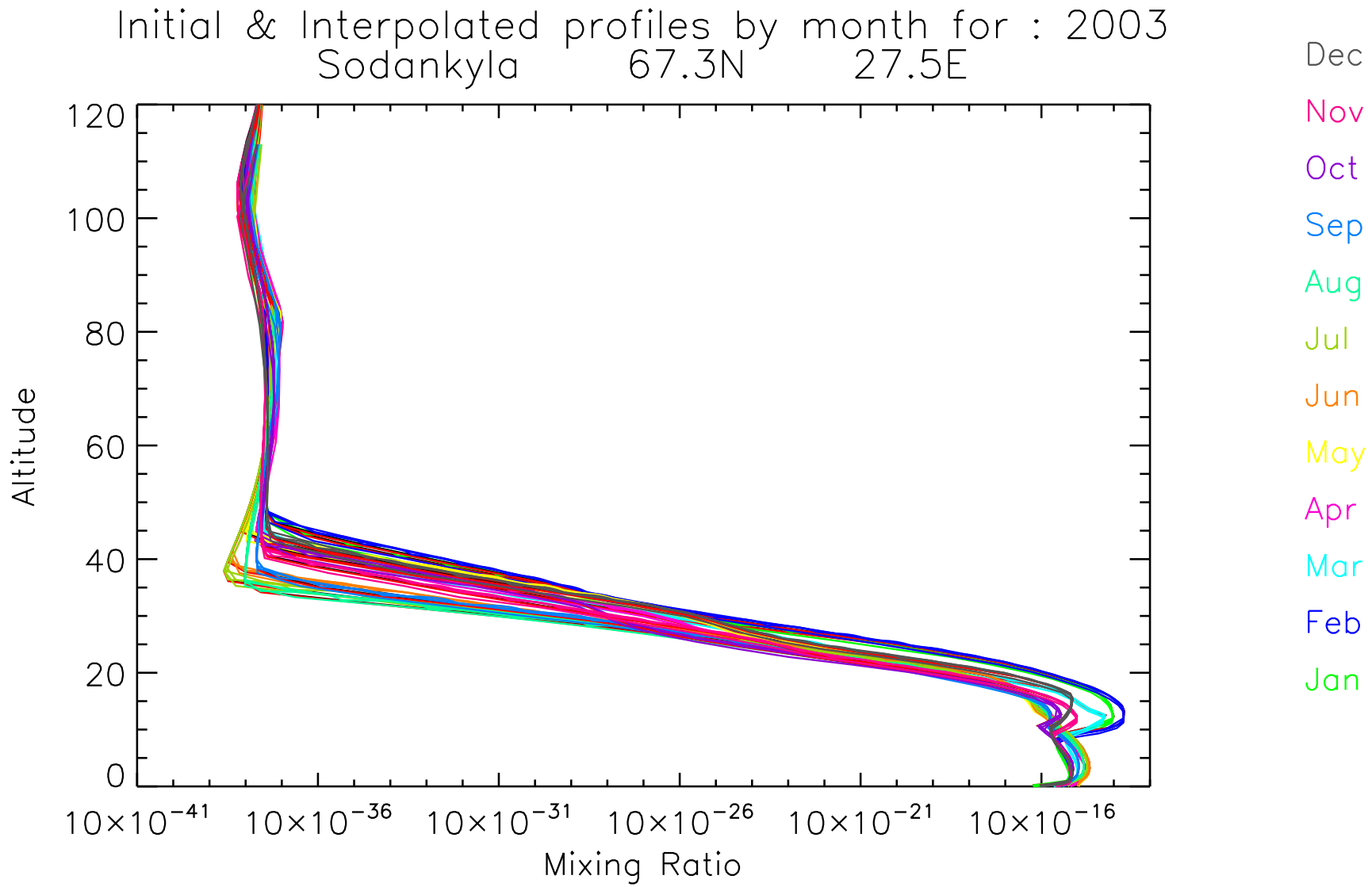
Initial & Interpolated profiles by month for : 2003
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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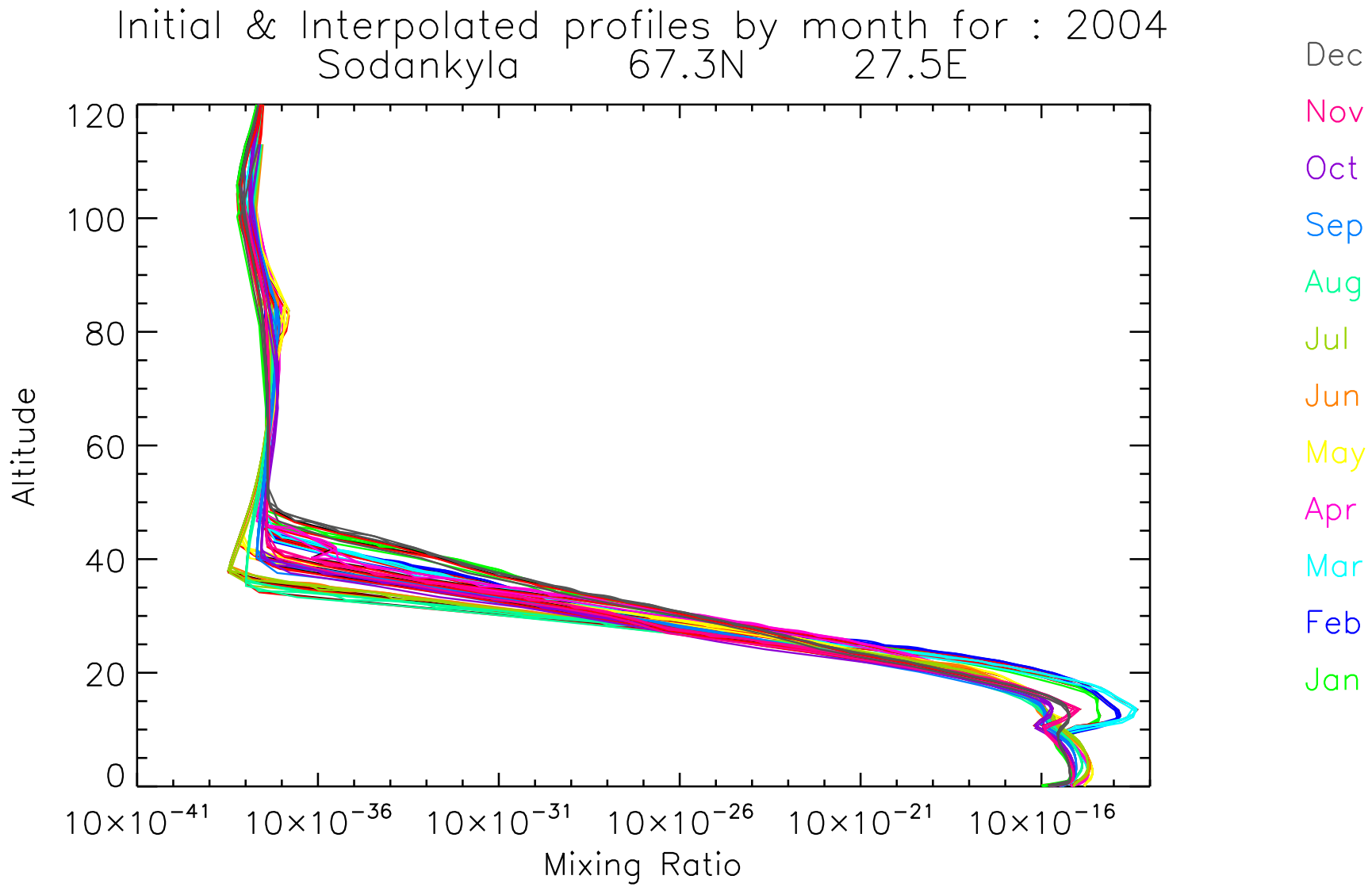
Initial & Interpolated profiles by month for : 2004
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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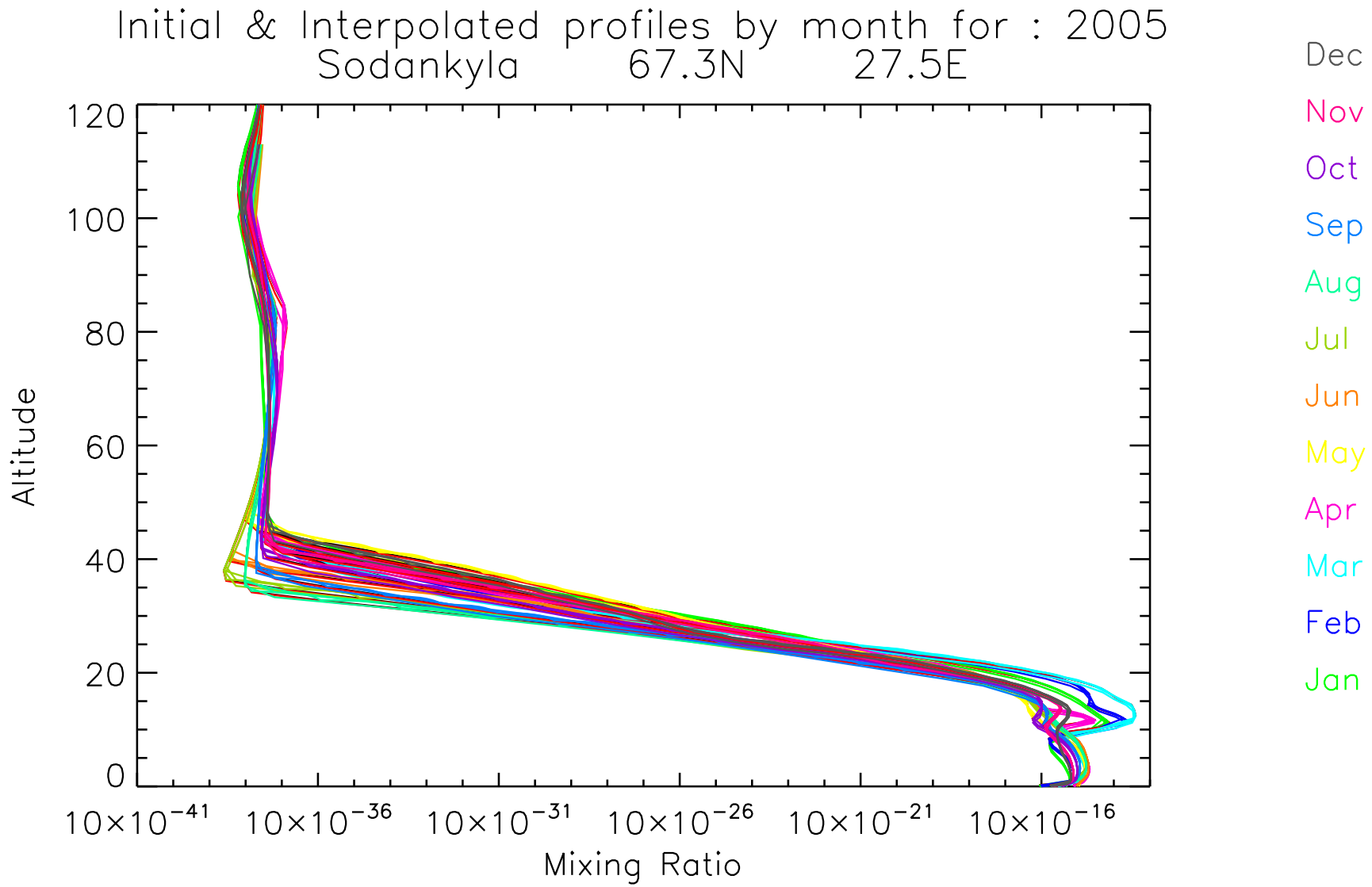
Initial & Interpolated profiles by month for : 2005
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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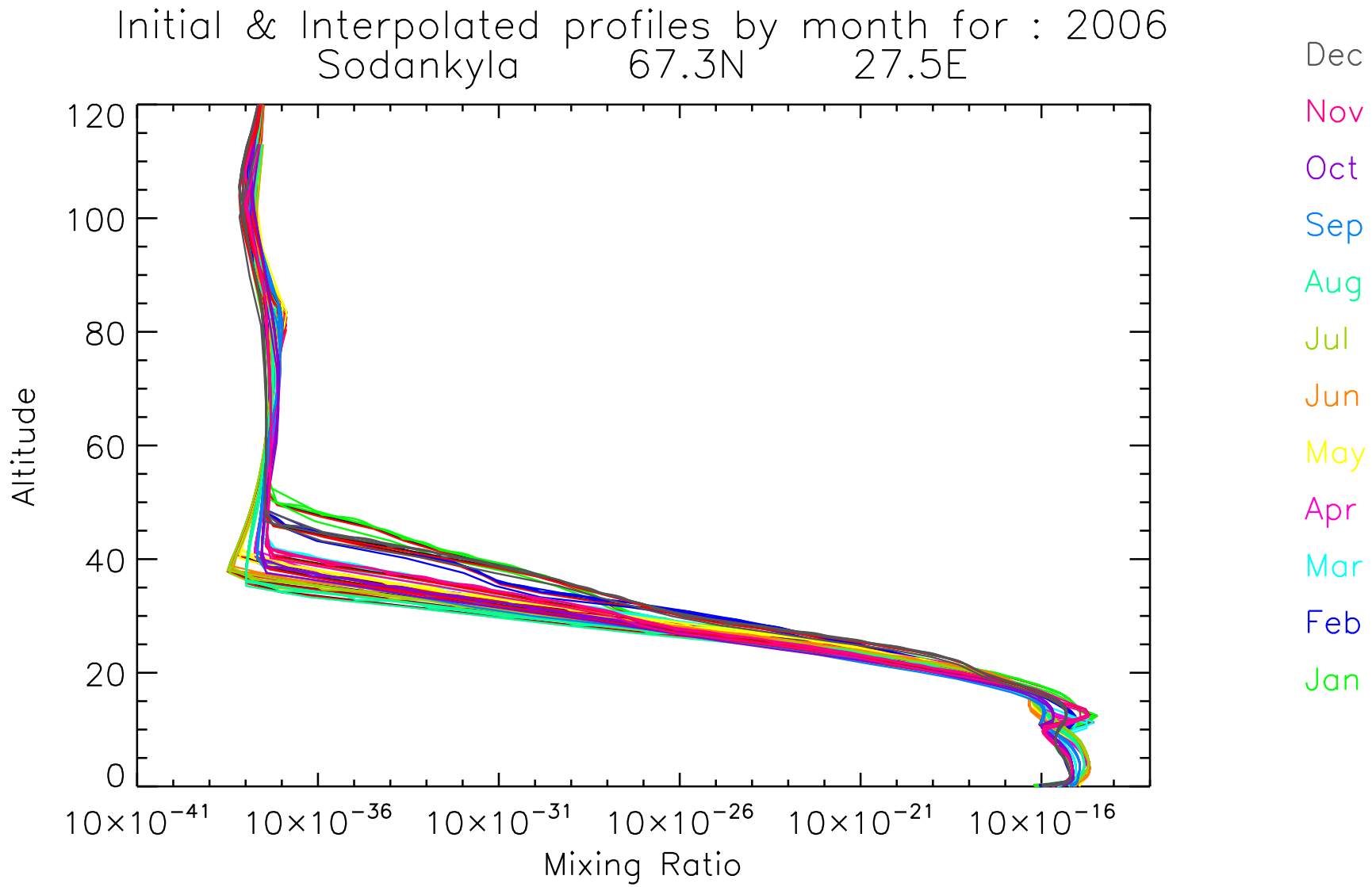
Initial & Interpolated profiles by month for : 2006
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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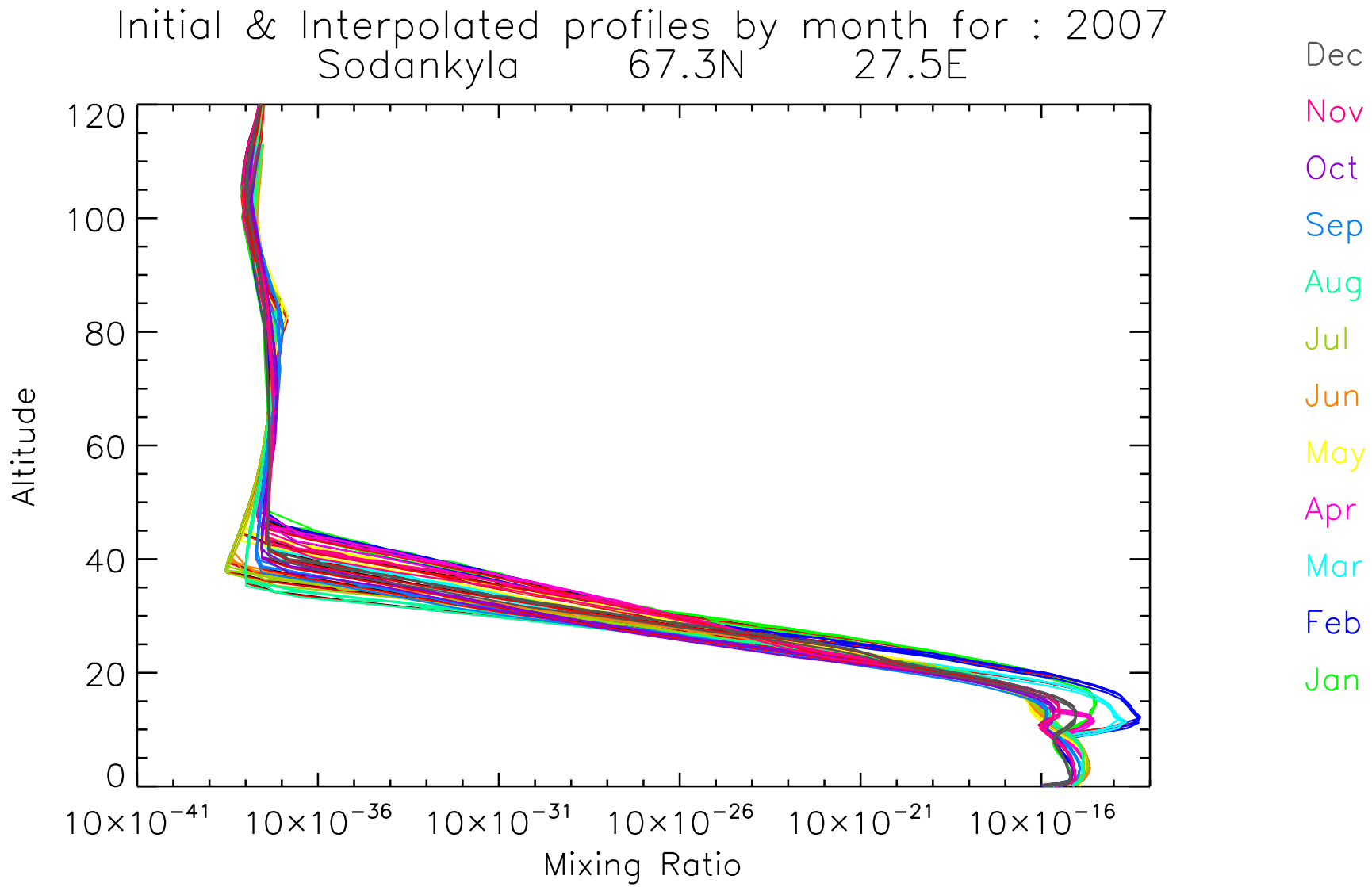
Initial & Interpolated profiles by month for : 2007
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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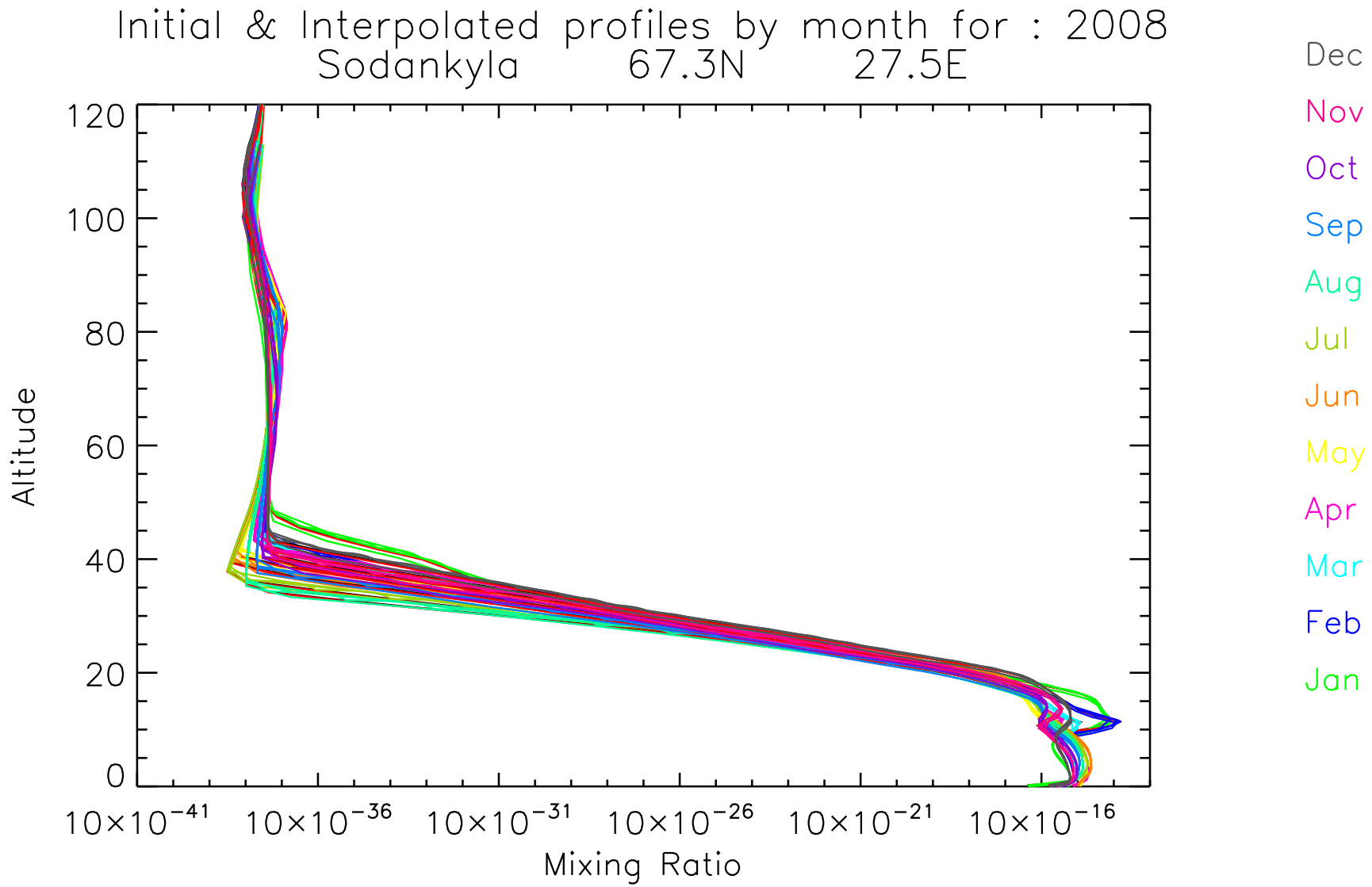
Initial & Interpolated profiles by month for : 2008
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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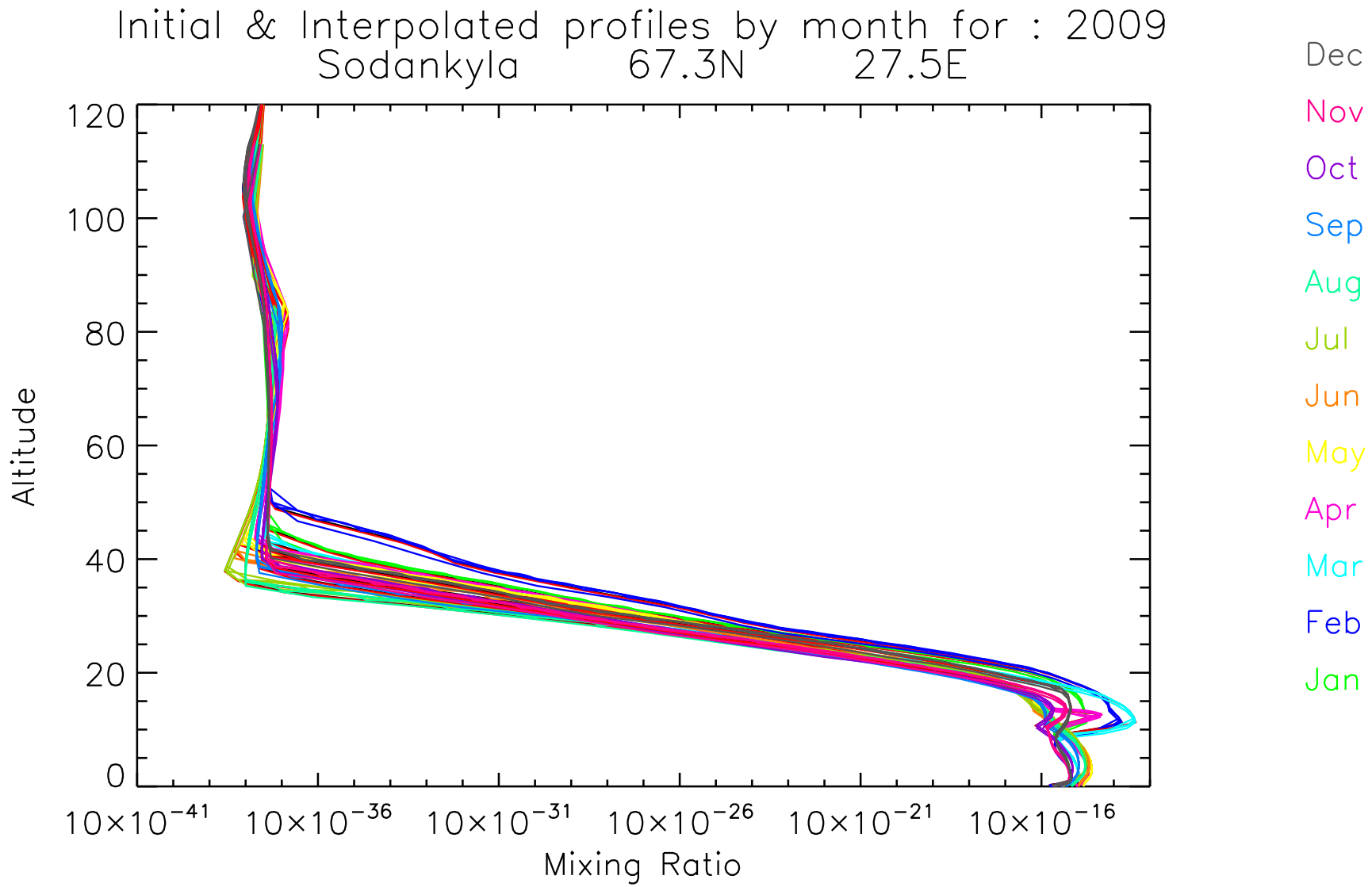
Initial & Interpolated profiles by month for : 2009
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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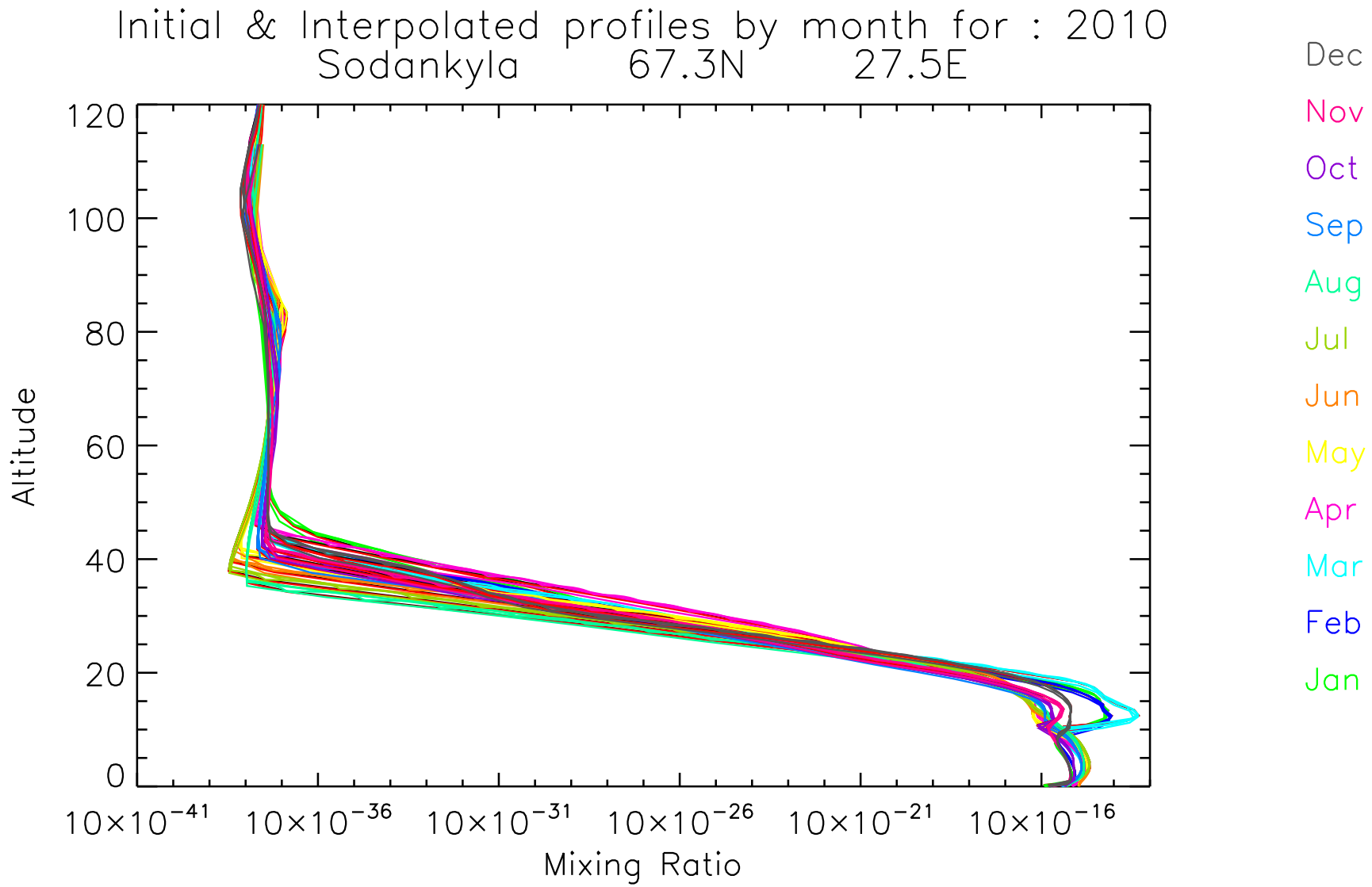
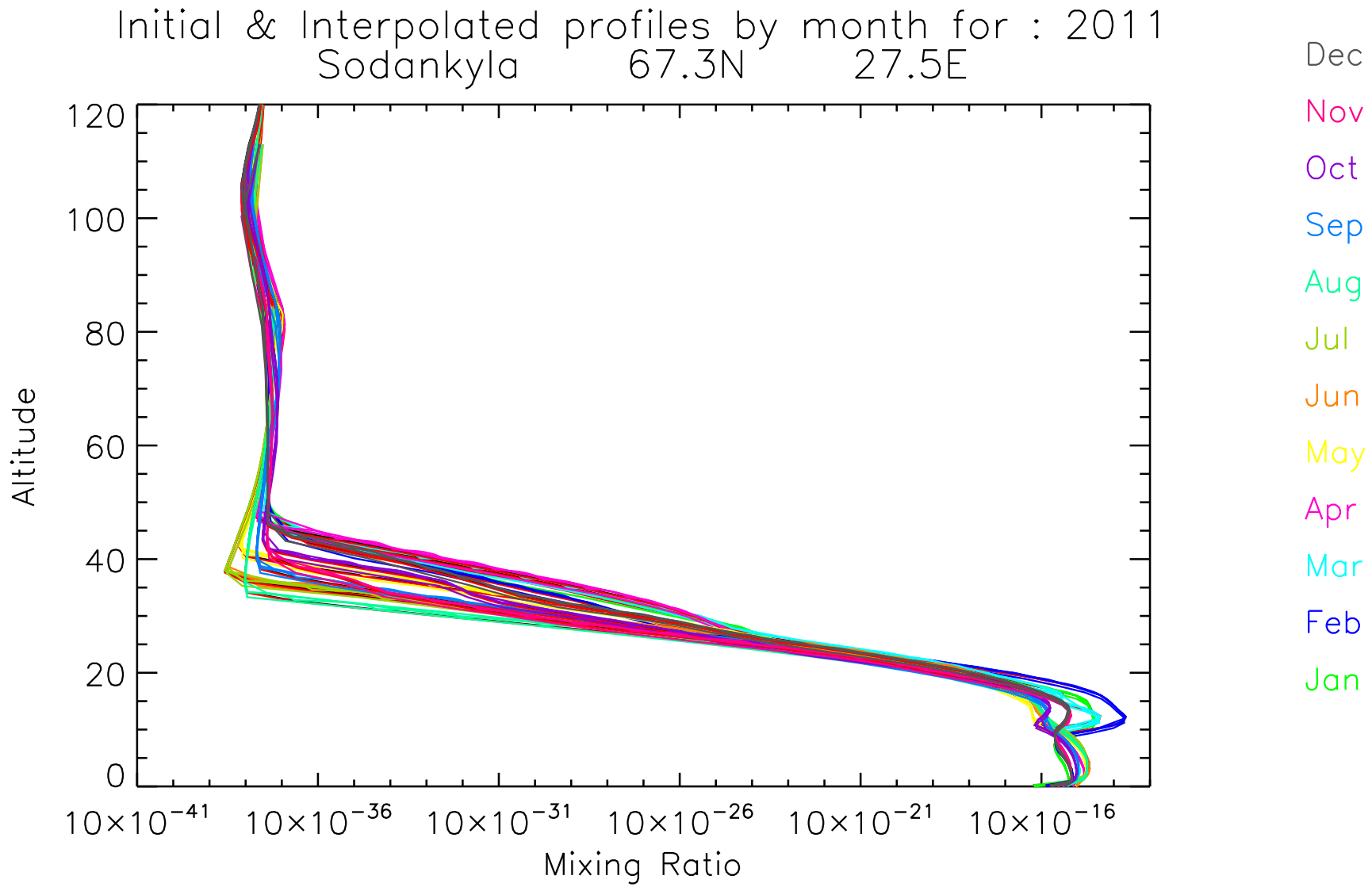
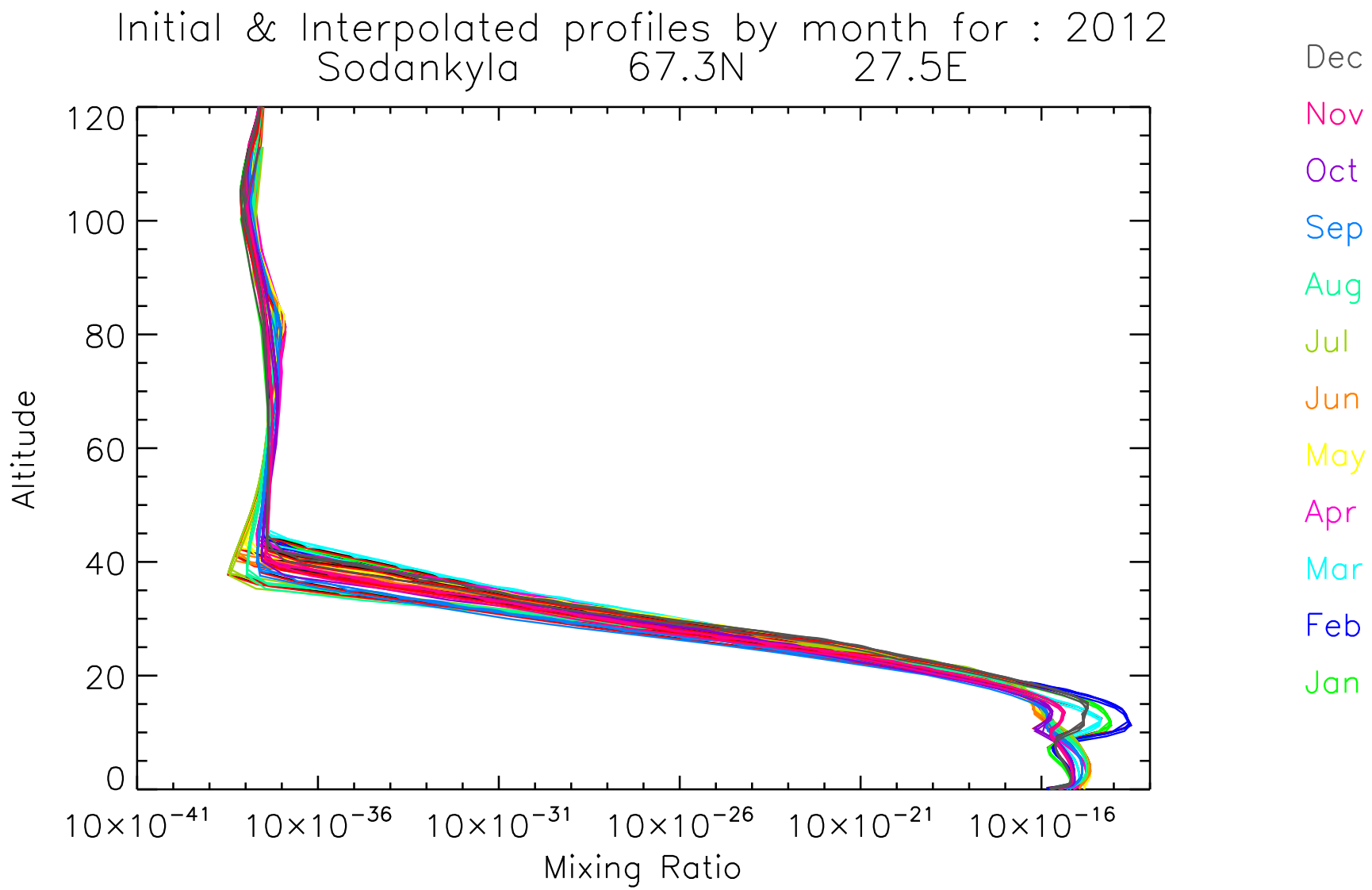
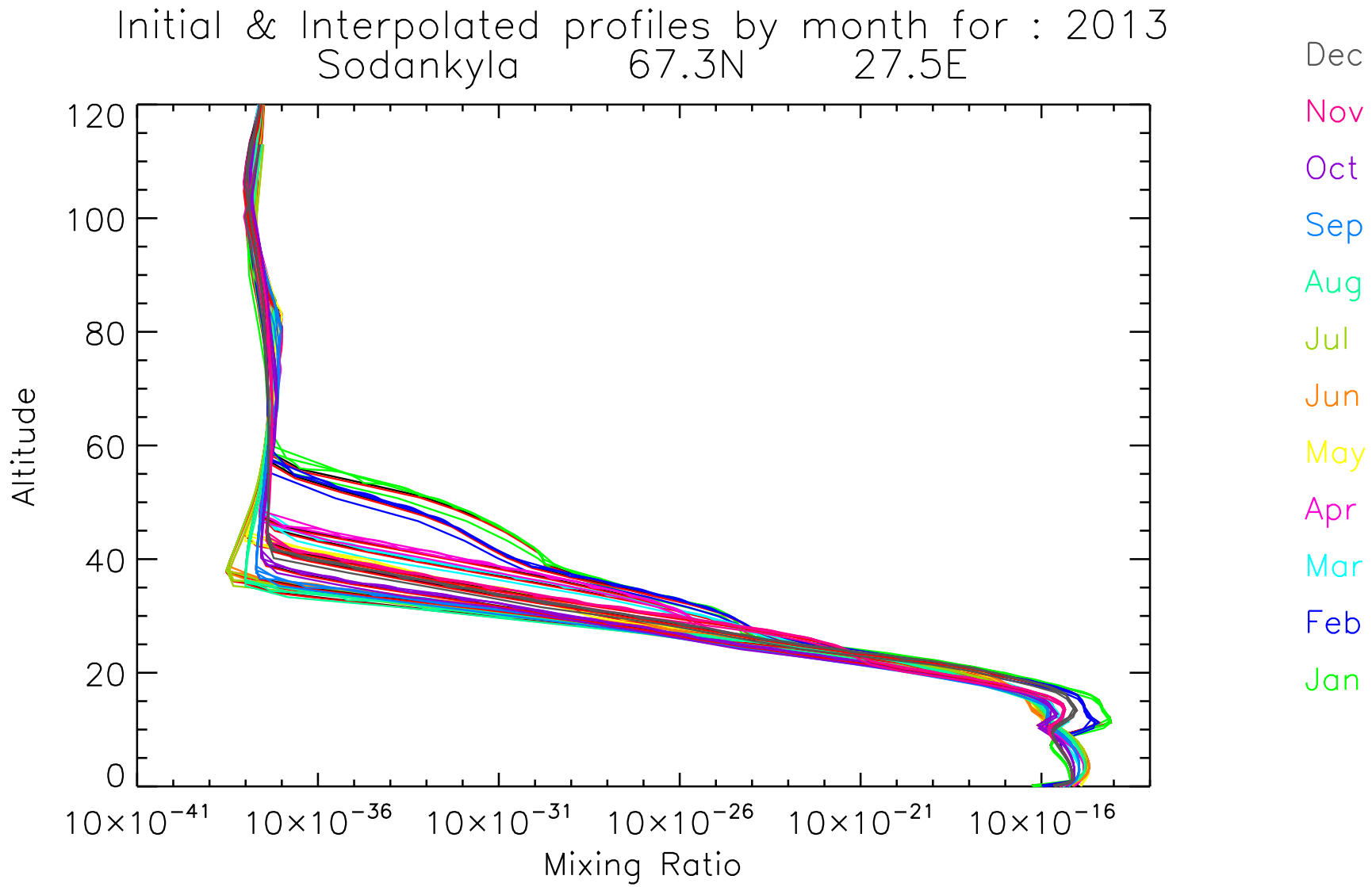
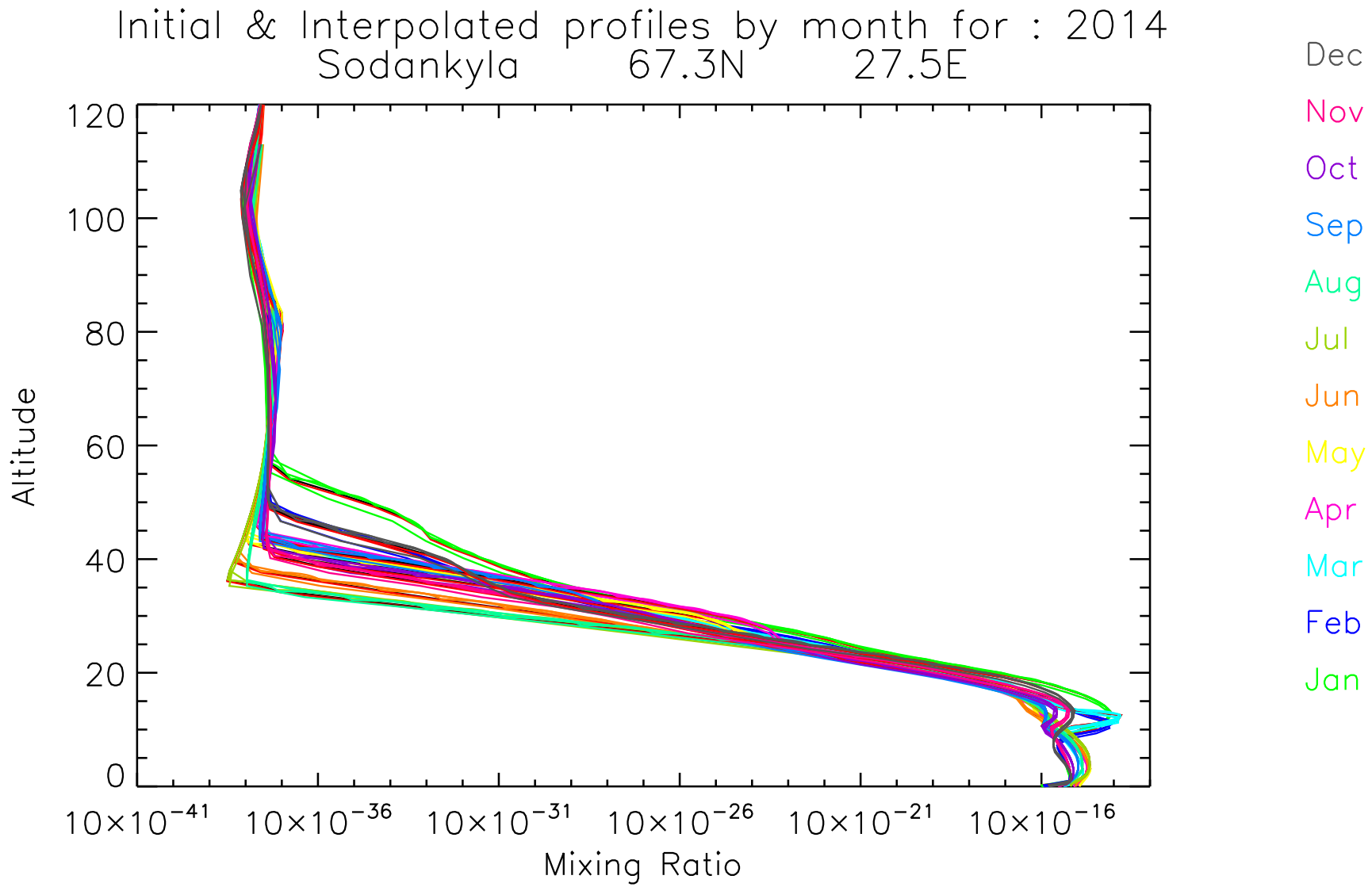
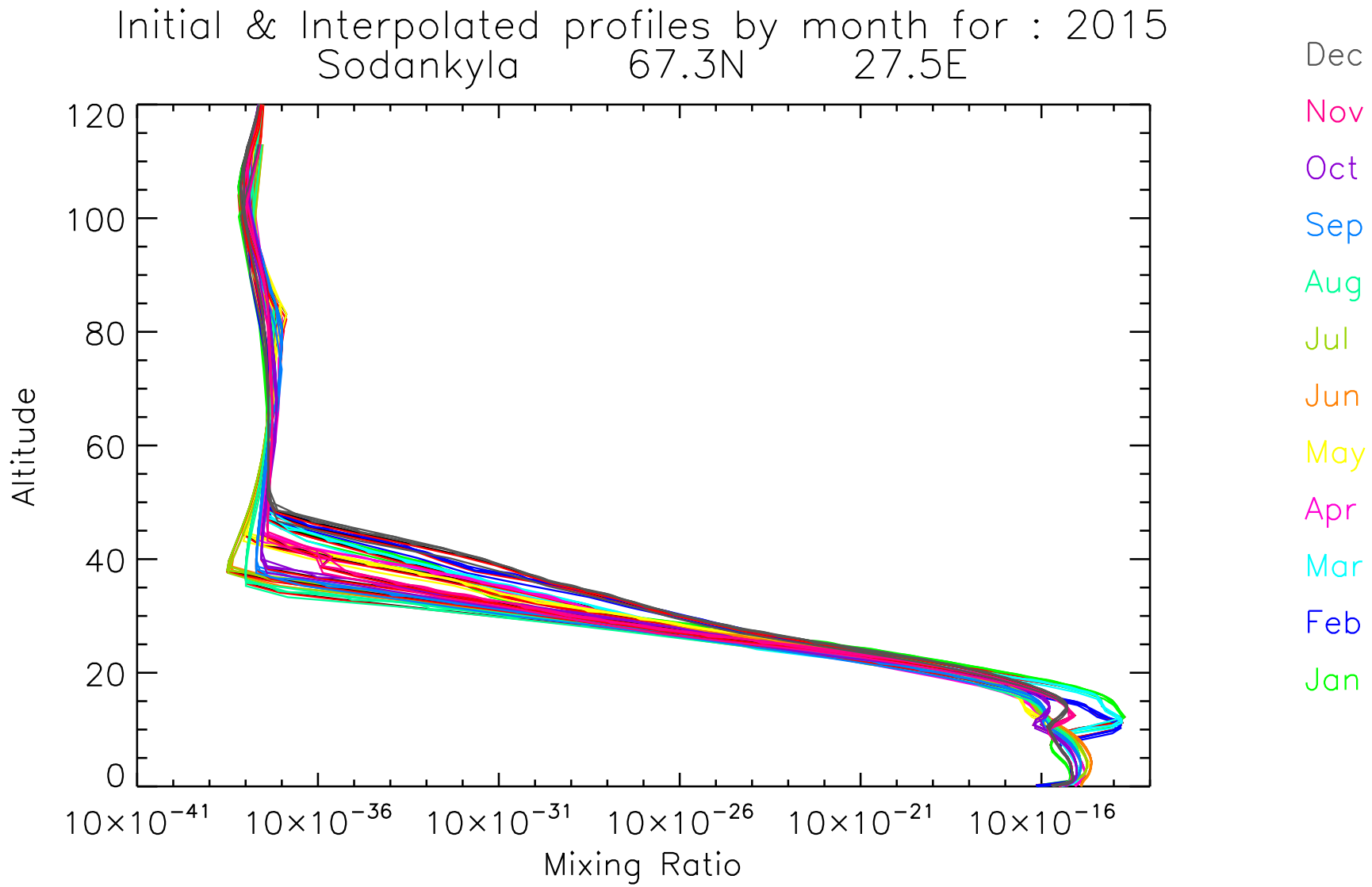

Initial & Interpolated profiles by month for : 2010
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10−41
10×10−36
10×10−31
10×10−26
10×10−21
10×10−16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

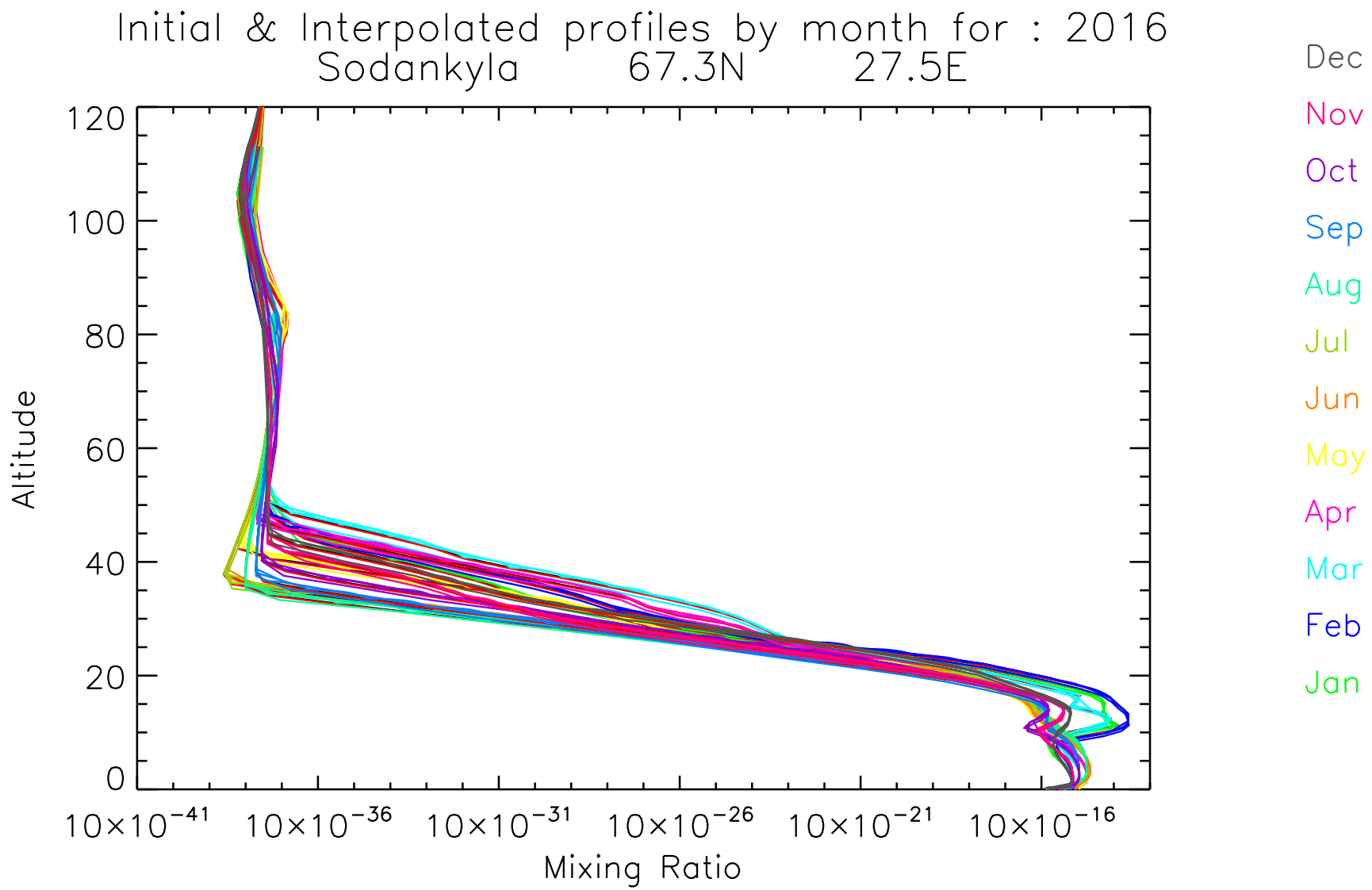

Initial & Interpolated profiles by month for : 2011
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

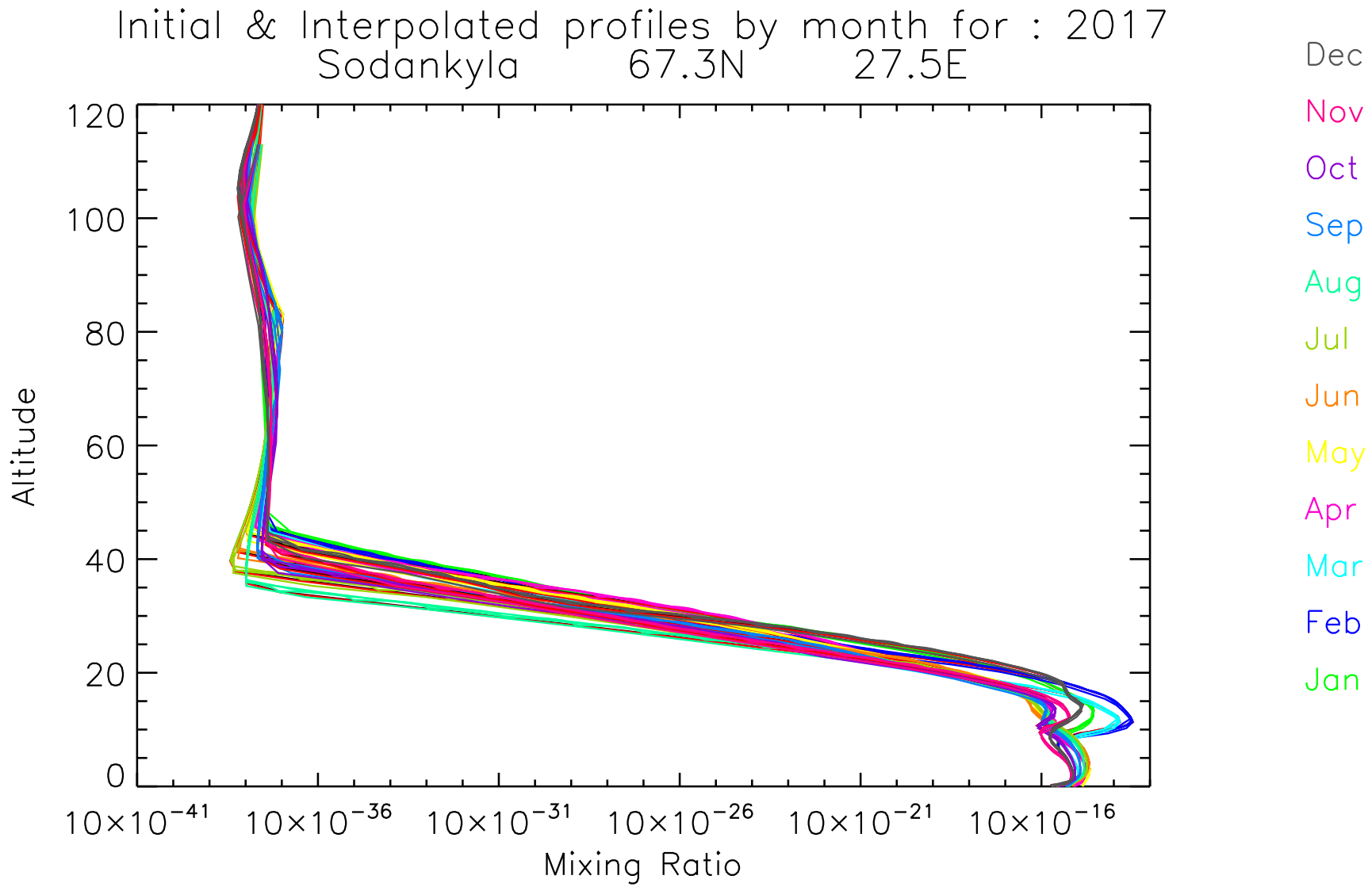

Initial & Interpolated profiles by month for : 2012
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

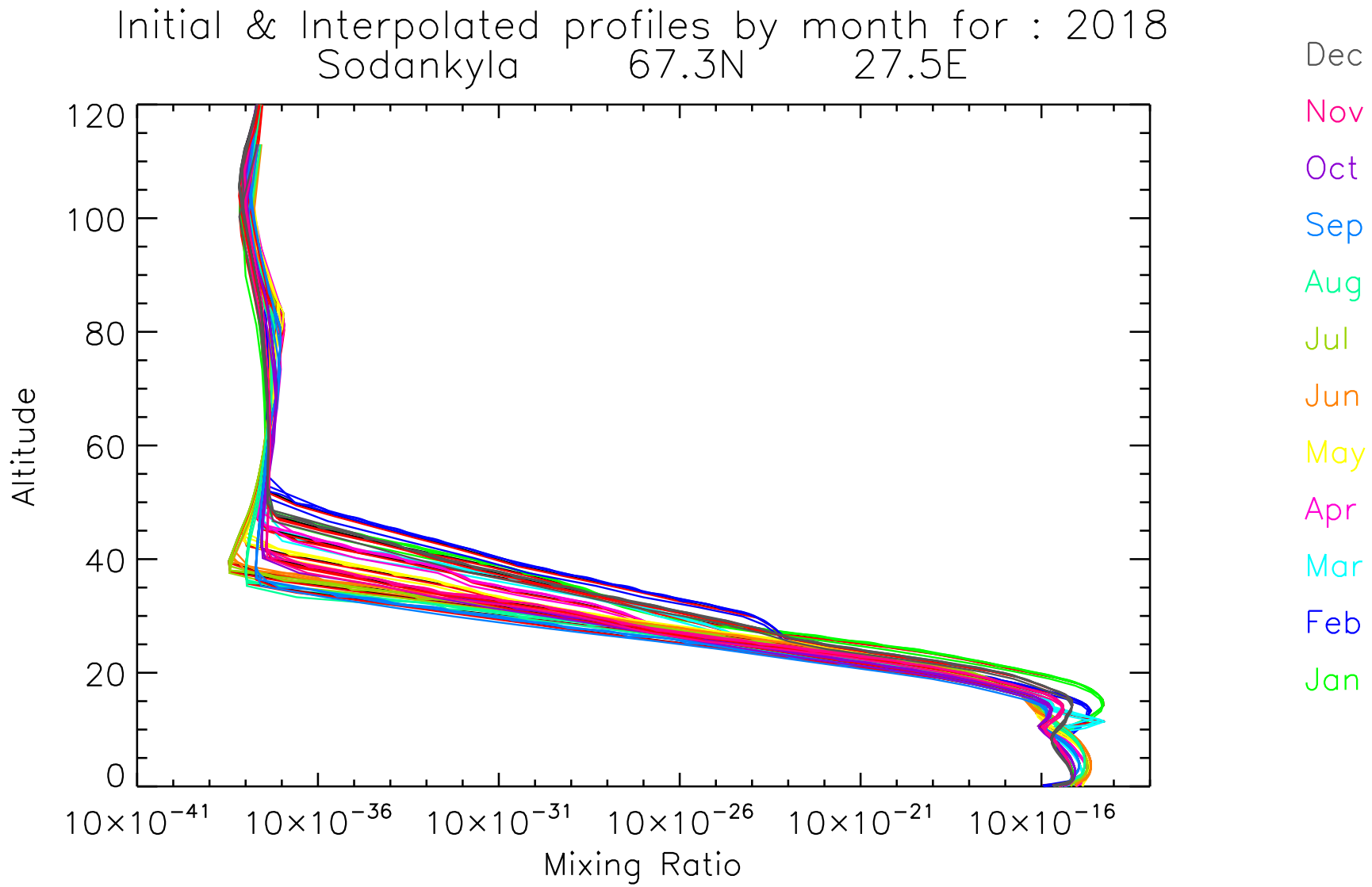

Initial & Interpolated profiles by month for : 2013
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

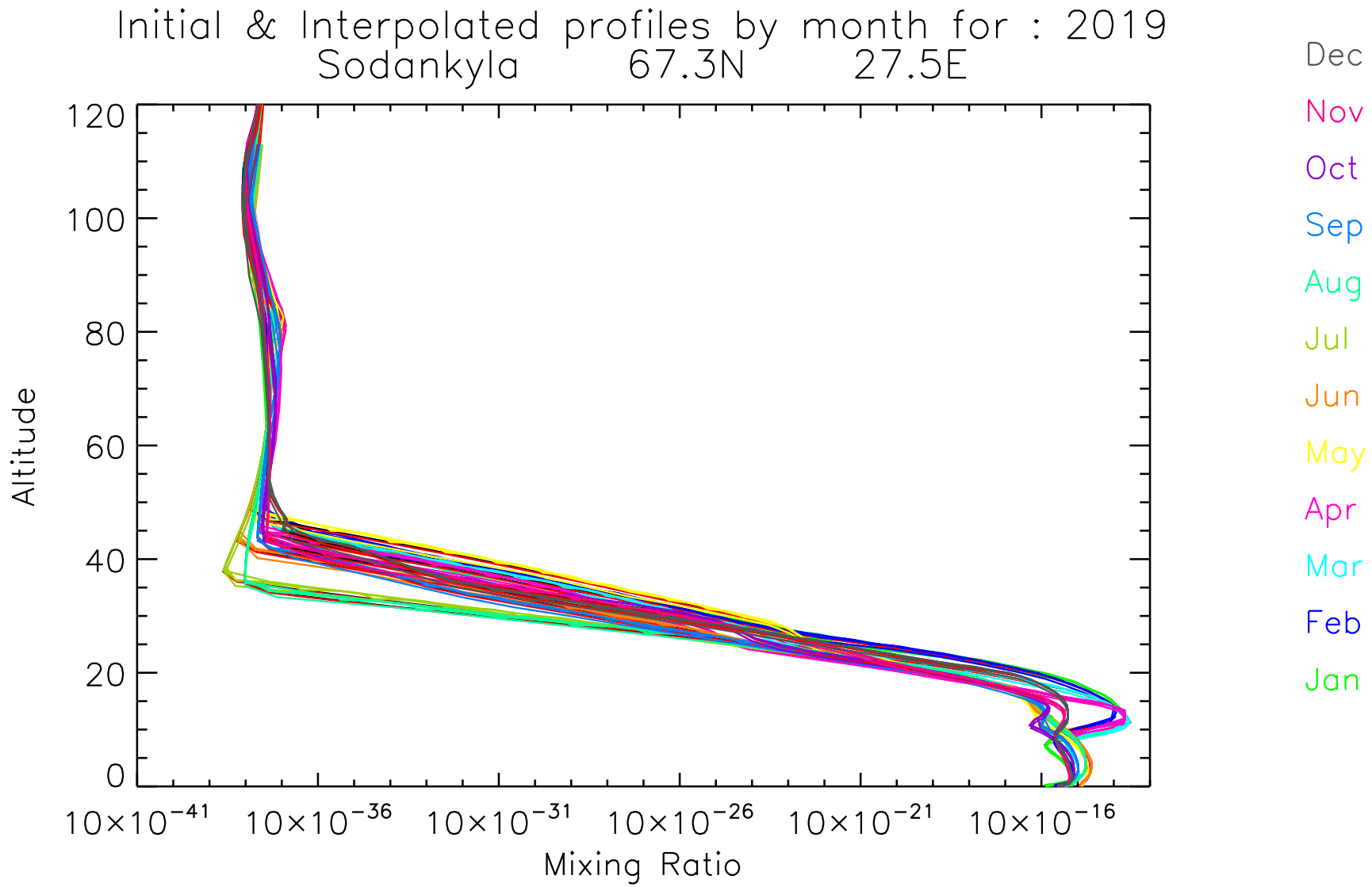

Initial & Interpolated profiles by month for : 2014
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10−41
10×10−36
10×10−31
10×10−26
10×10−21
10×10−16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

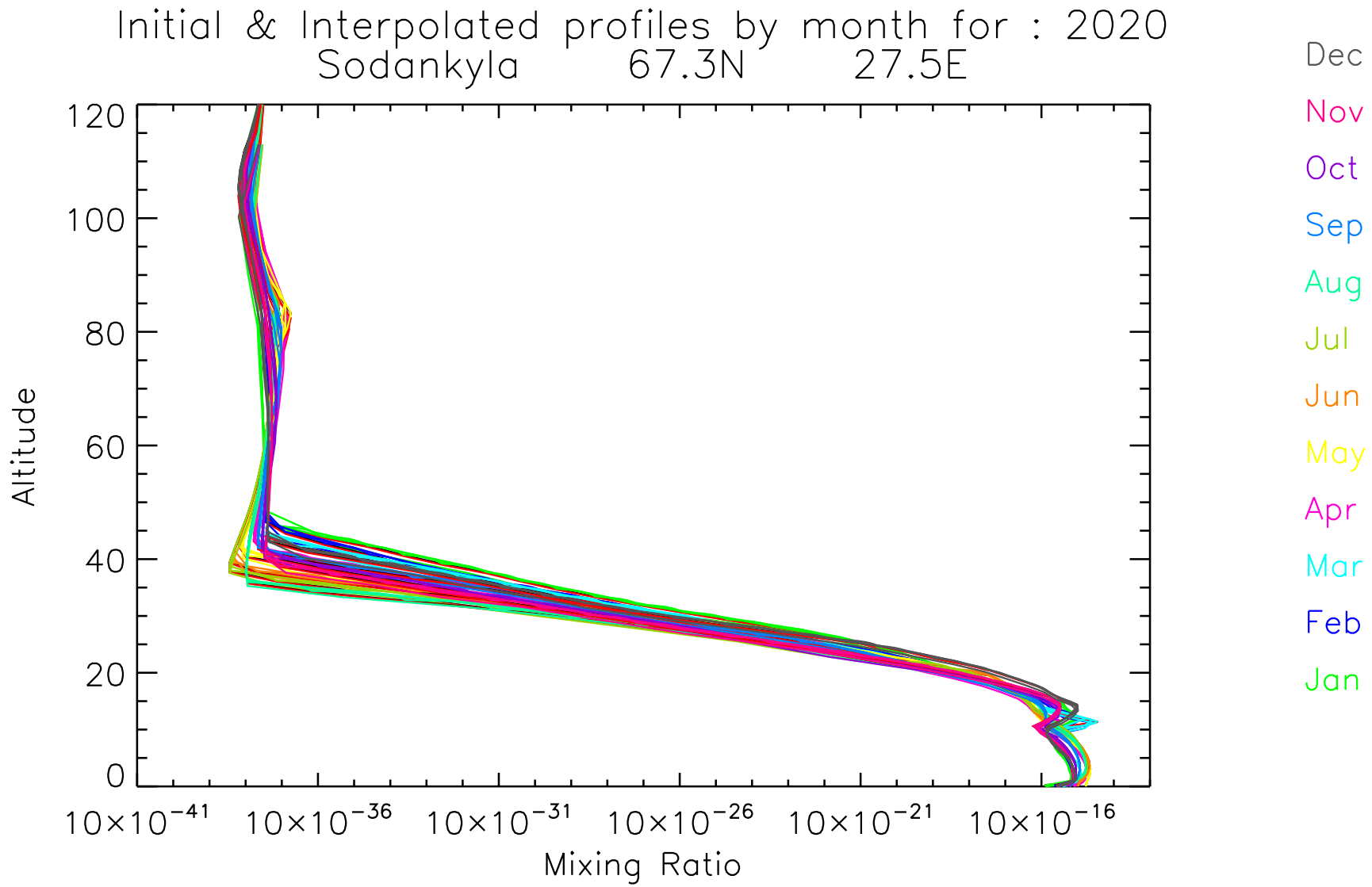

Initial & Interpolated profiles by month for : 2015
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

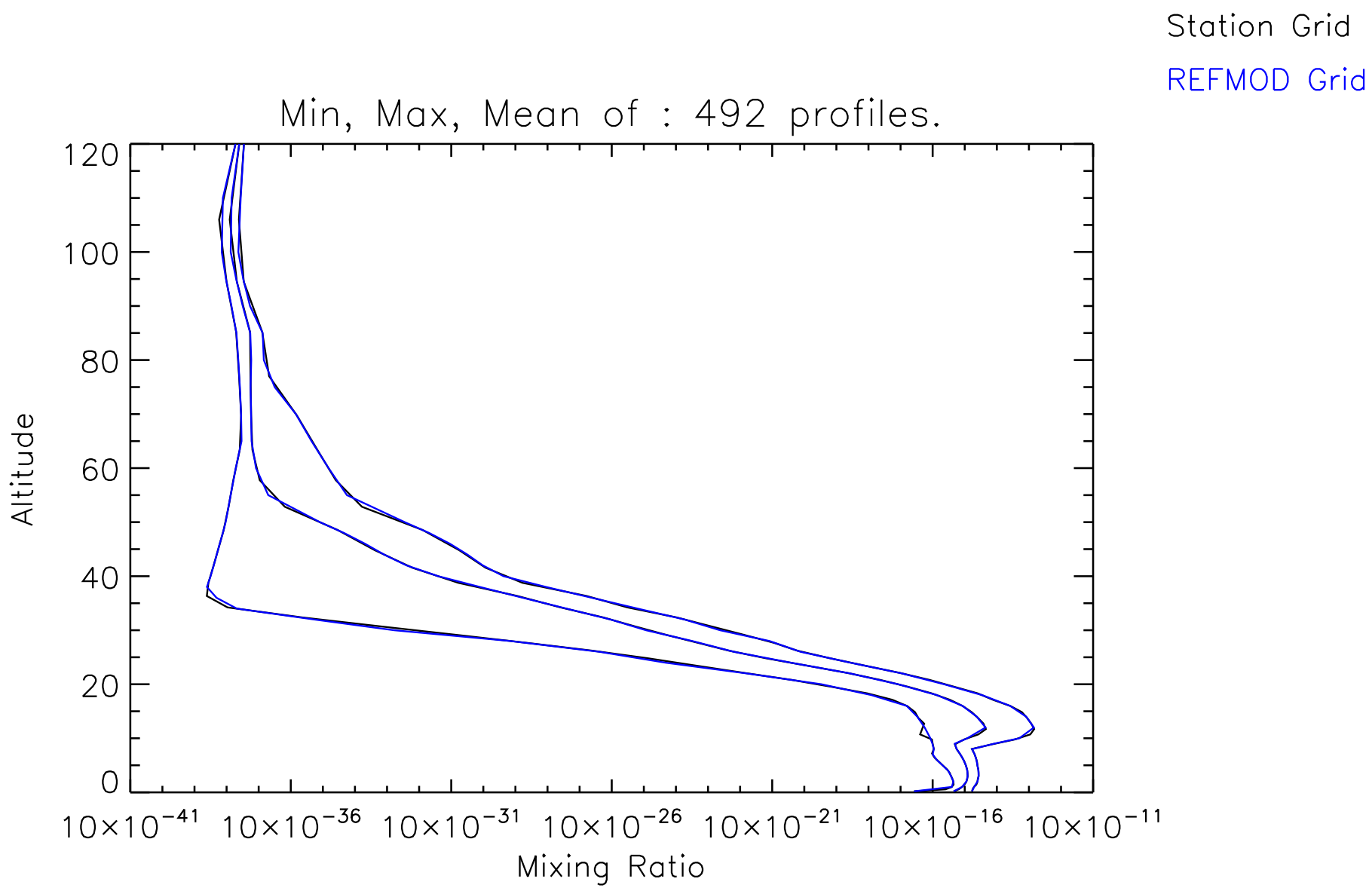

Initial & Interpolated profiles by month for : 2016
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10−41
10×10−36
10×10−31
10×10−26
10×10−21
10×10−16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

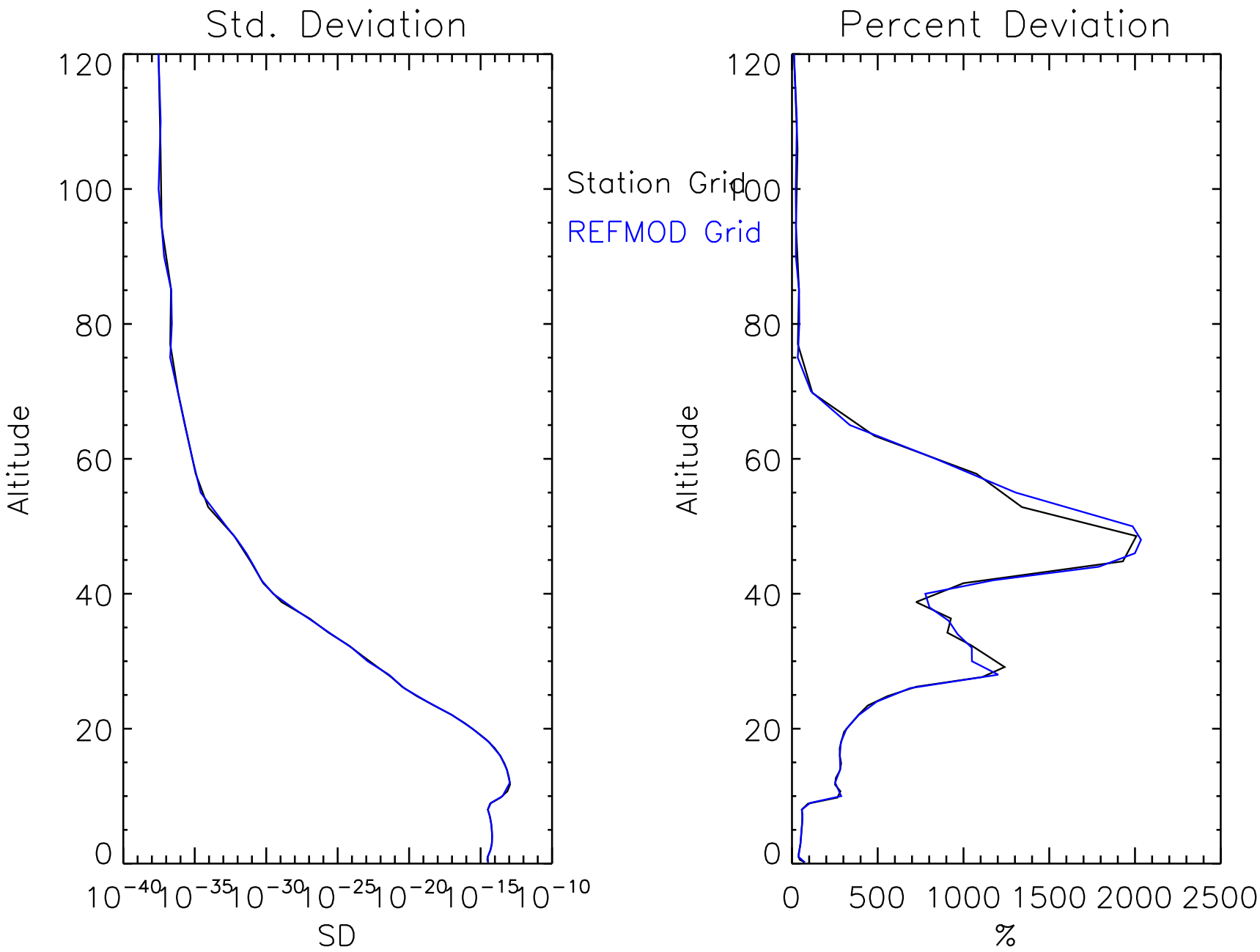

Initial & Interpolated profiles by month for : 2017
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10−41
10×10−36
10×10−31
10×10−26
10×10−21
10×10−16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

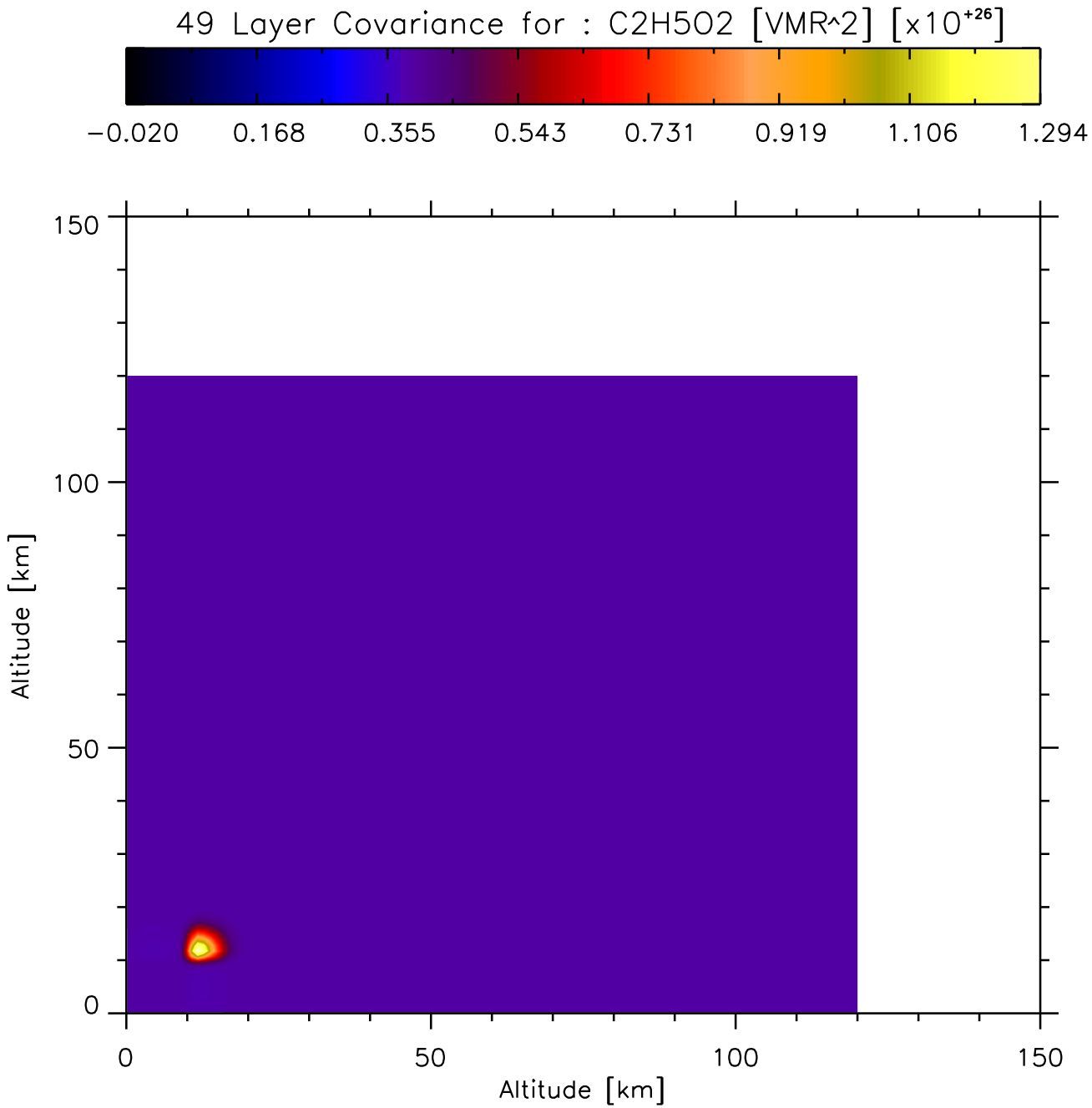

Initial & Interpolated profiles by month for : 2018
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2019
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10−41
10×10−36
10×10−31
10×10−26
10×10−21
10×10−16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

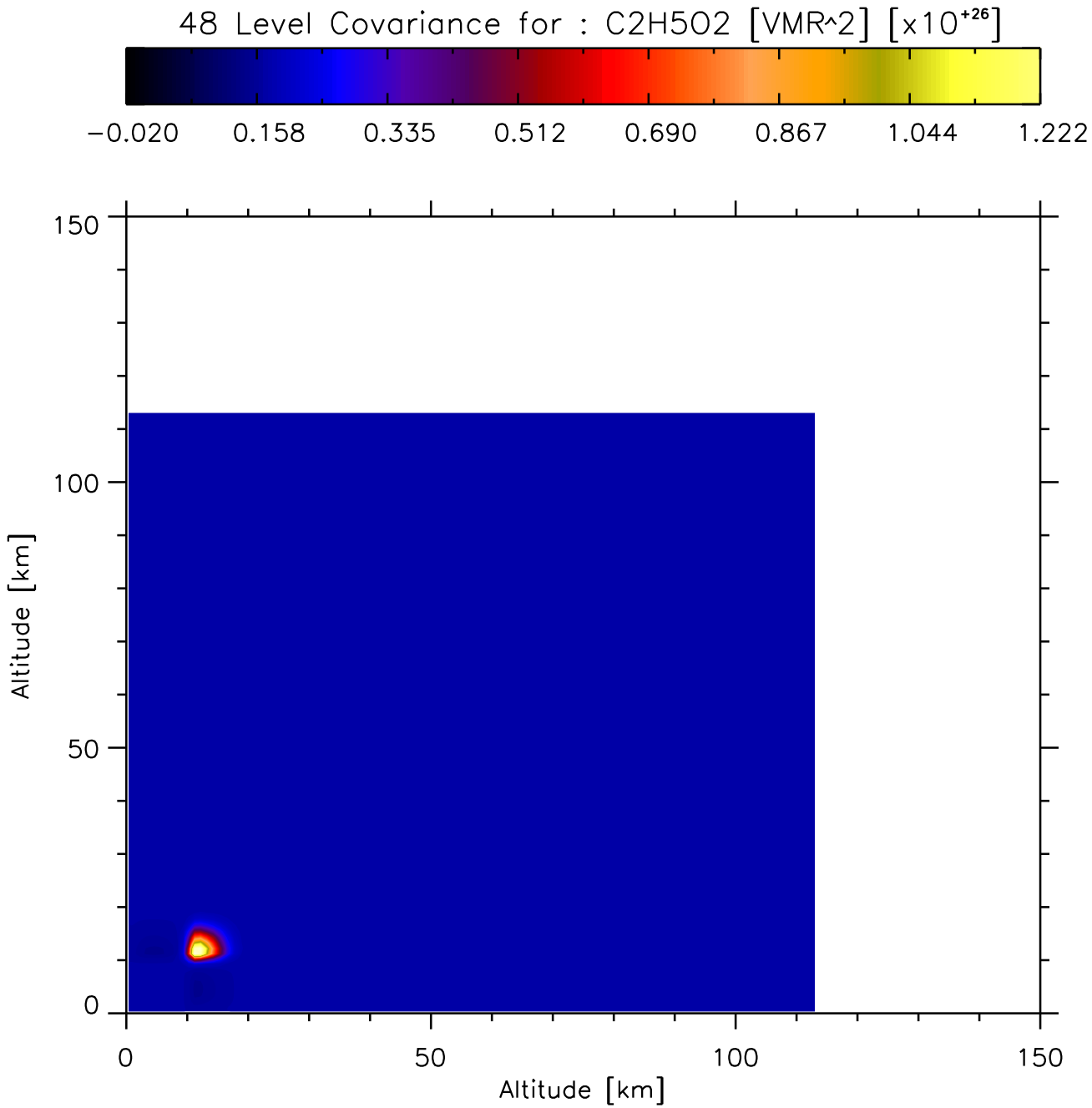

Initial & Interpolated profiles by month for : 2020
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
10×10^-11
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
0 500 1000 1500 2000 2500
%


49 Layer Covariance for : C2H5O2 [VMR^2] [x10^+26]
−0.020
0.168
0.355
0.543
0.731
0.919
1.106
1.294
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : C2H5O2 [VMR^2] [x10^26]
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Y Altitude
0
30
60
90
120
X Altitude
0
50
100
150


48 Level Covariance for : C2H5O2 [VMR^2] [x10^+26]
−0.020
0.158
0.335
0.512
0.690
0.867
1.044
1.222
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : C2H5O2 [VMR^2] [x10^-26]
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
15
30
45
60
X Altitude
0
50
100
150