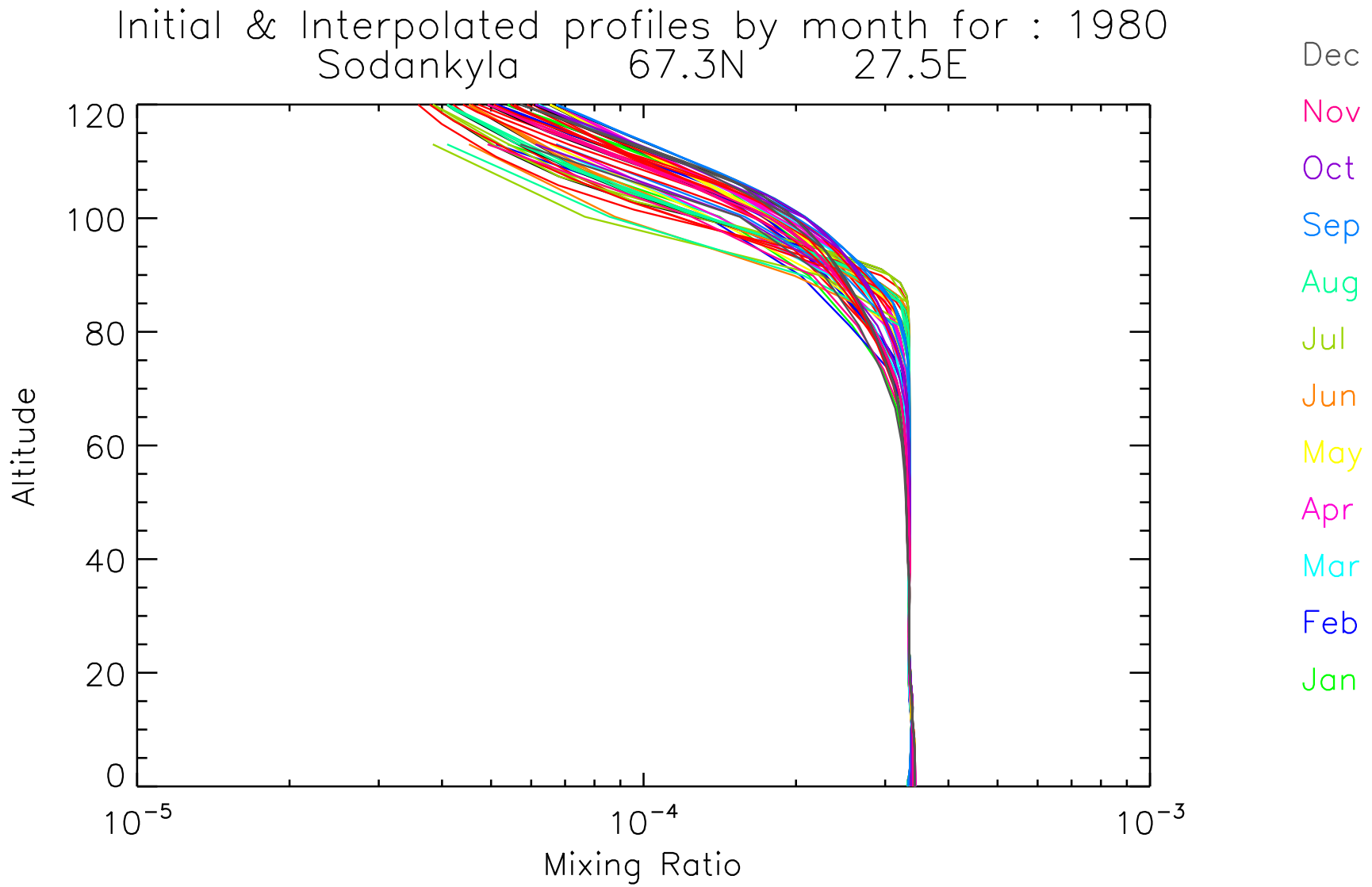
Initial & Interpolated profiles by month for : 1980
Sodankyla 67.3N 27.5E
Altitude
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20
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Mixing Ratio
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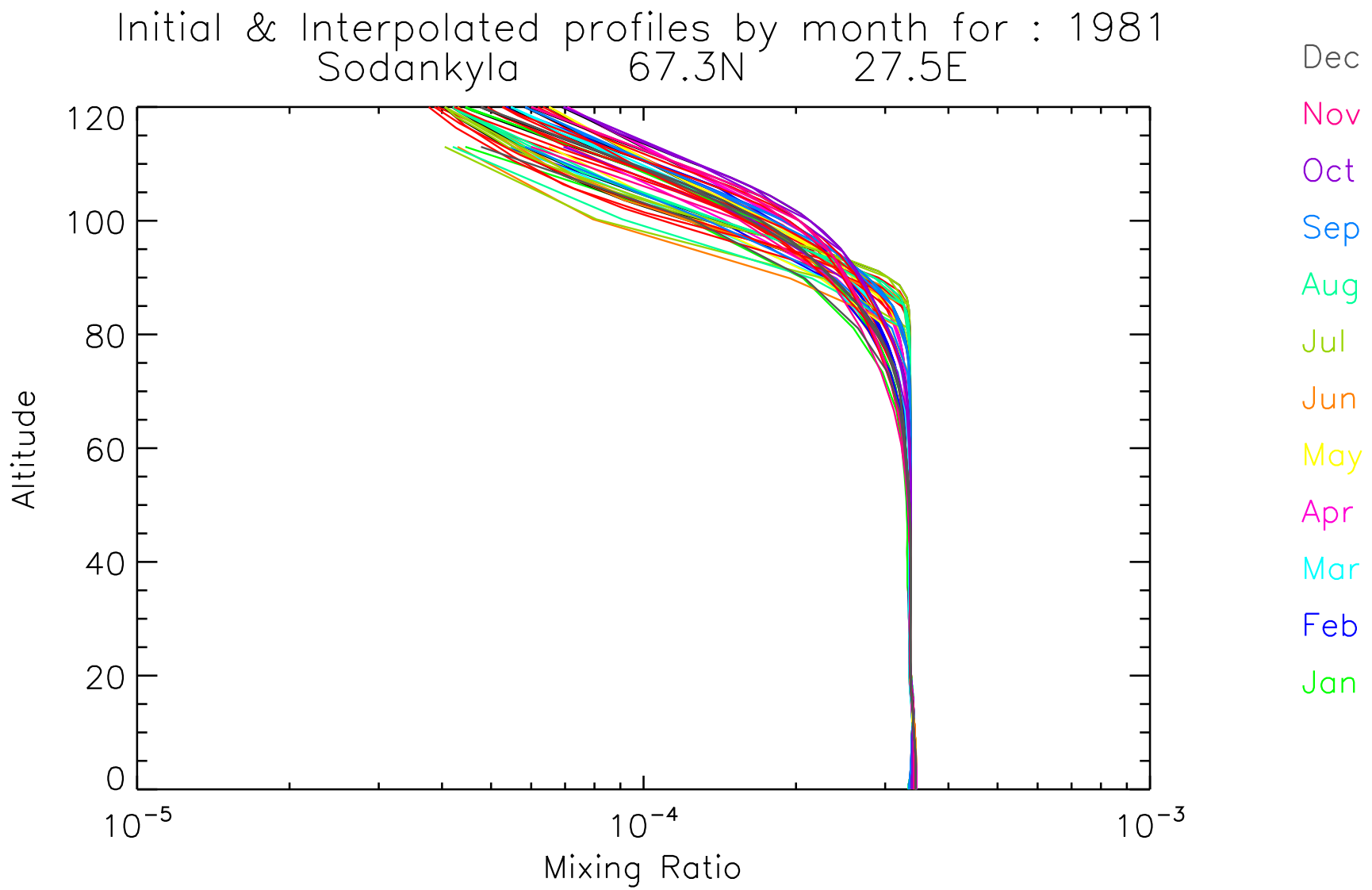
Initial & Interpolated profiles by month for : 1981
Sodankyla 67.3N 27.5E
Altitude
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20
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10^{-3}
Mixing Ratio
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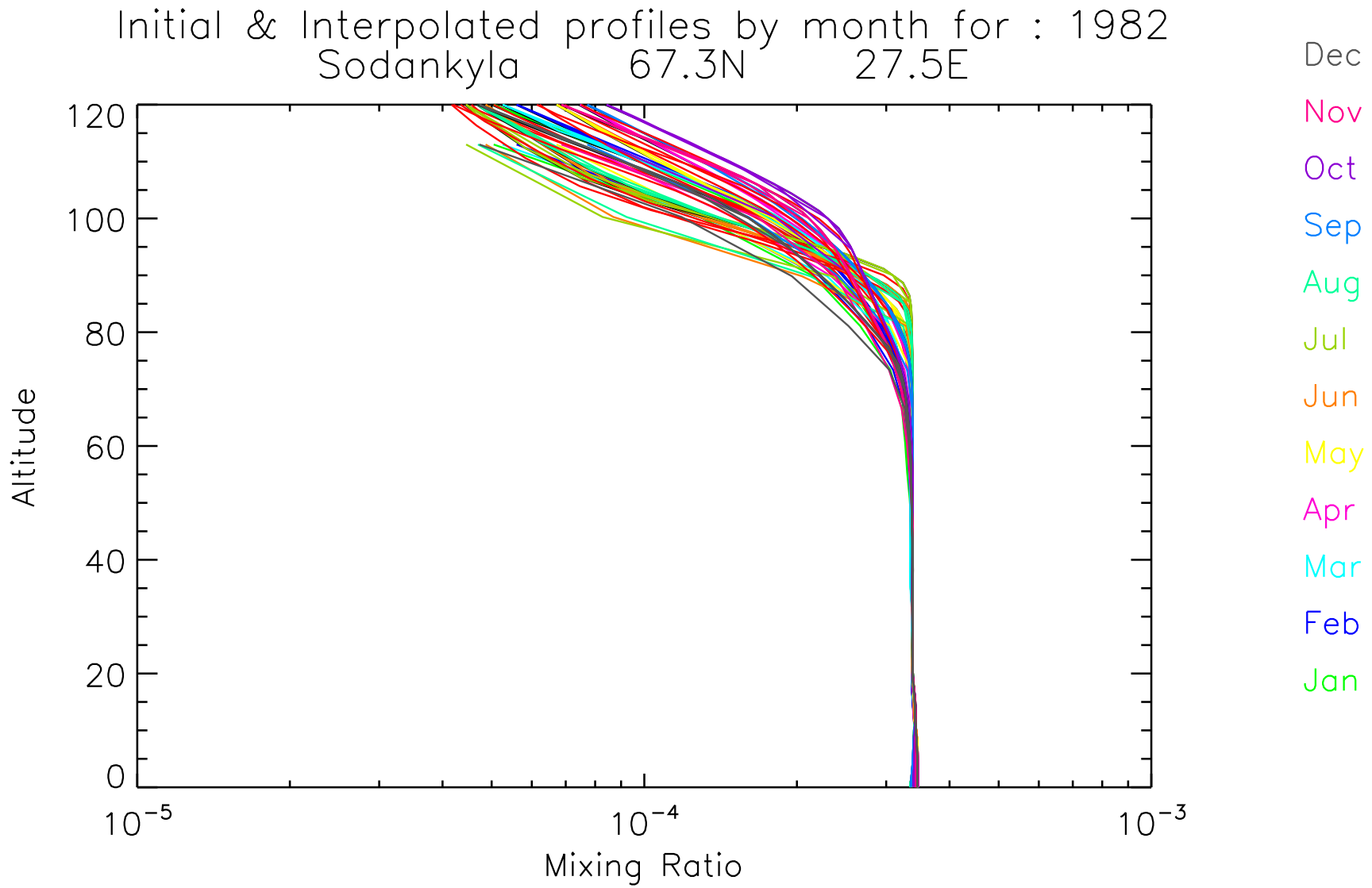
Initial & Interpolated profiles by month for : 1982
Sodankyla 67.3N 27.5E
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20
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Mixing Ratio
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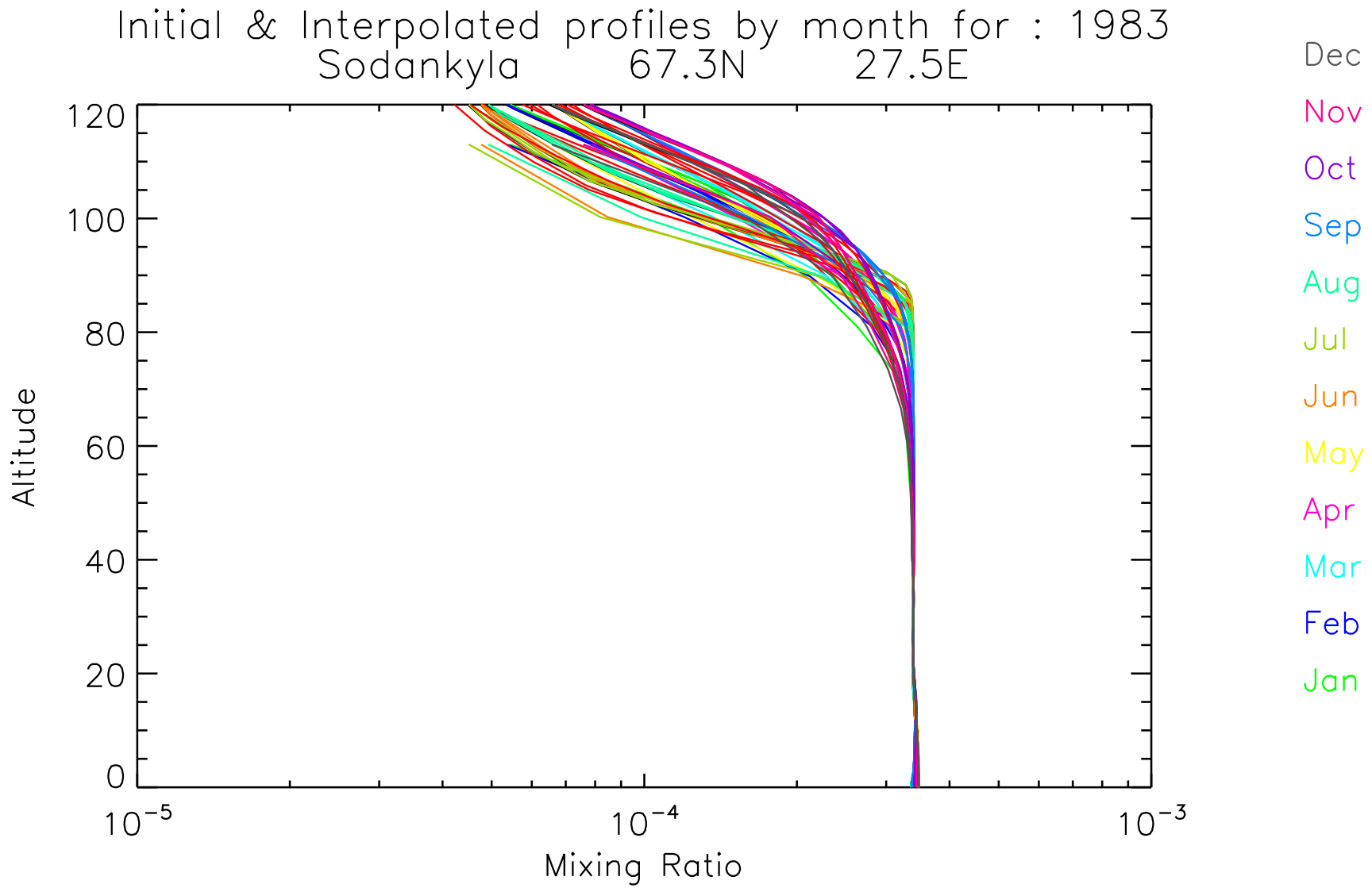
Initial & Interpolated profiles by month for : 1983
Sodankyla 67.3N 27.5E
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20
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10^{-3}
Mixing Ratio
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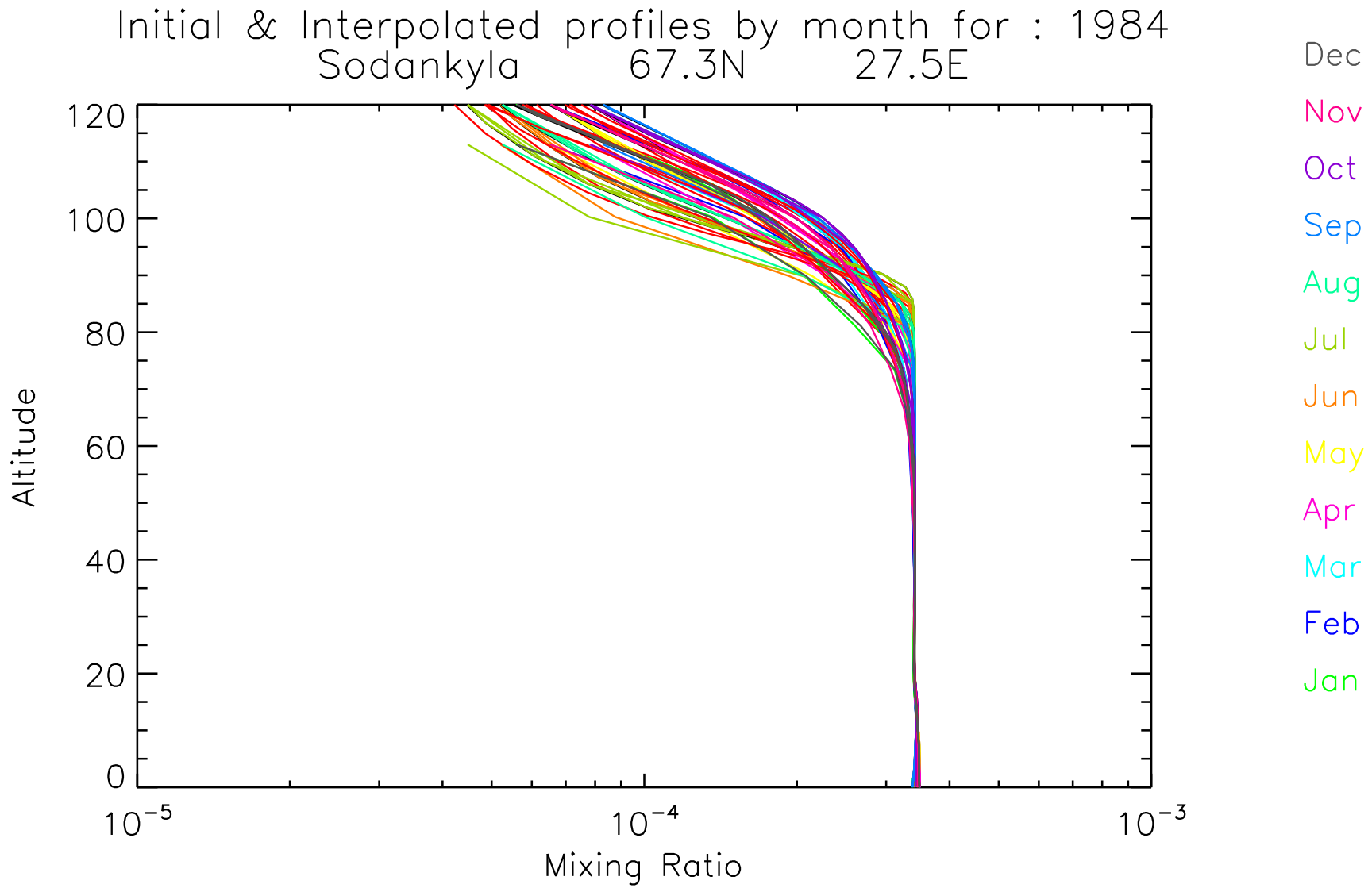
Initial & Interpolated profiles by month for : 1984
Sodankyla 67.3N 27.5E
Altitude
120
100
80
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10^{-3}
Mixing Ratio
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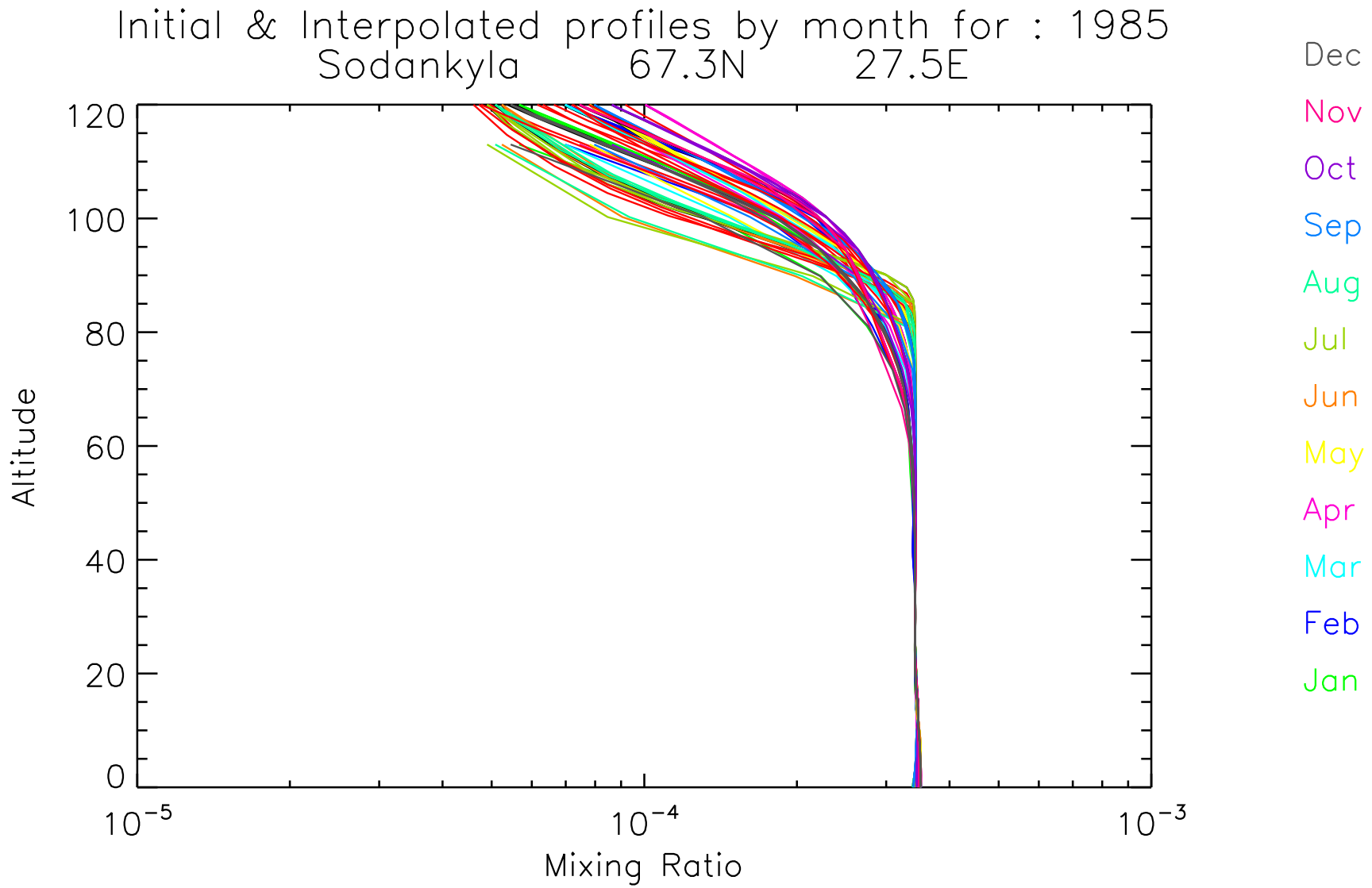
Initial & Interpolated profiles by month for : 1985
Sodankyla 67.3N 27.5E
Altitude
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100
80
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Mixing Ratio
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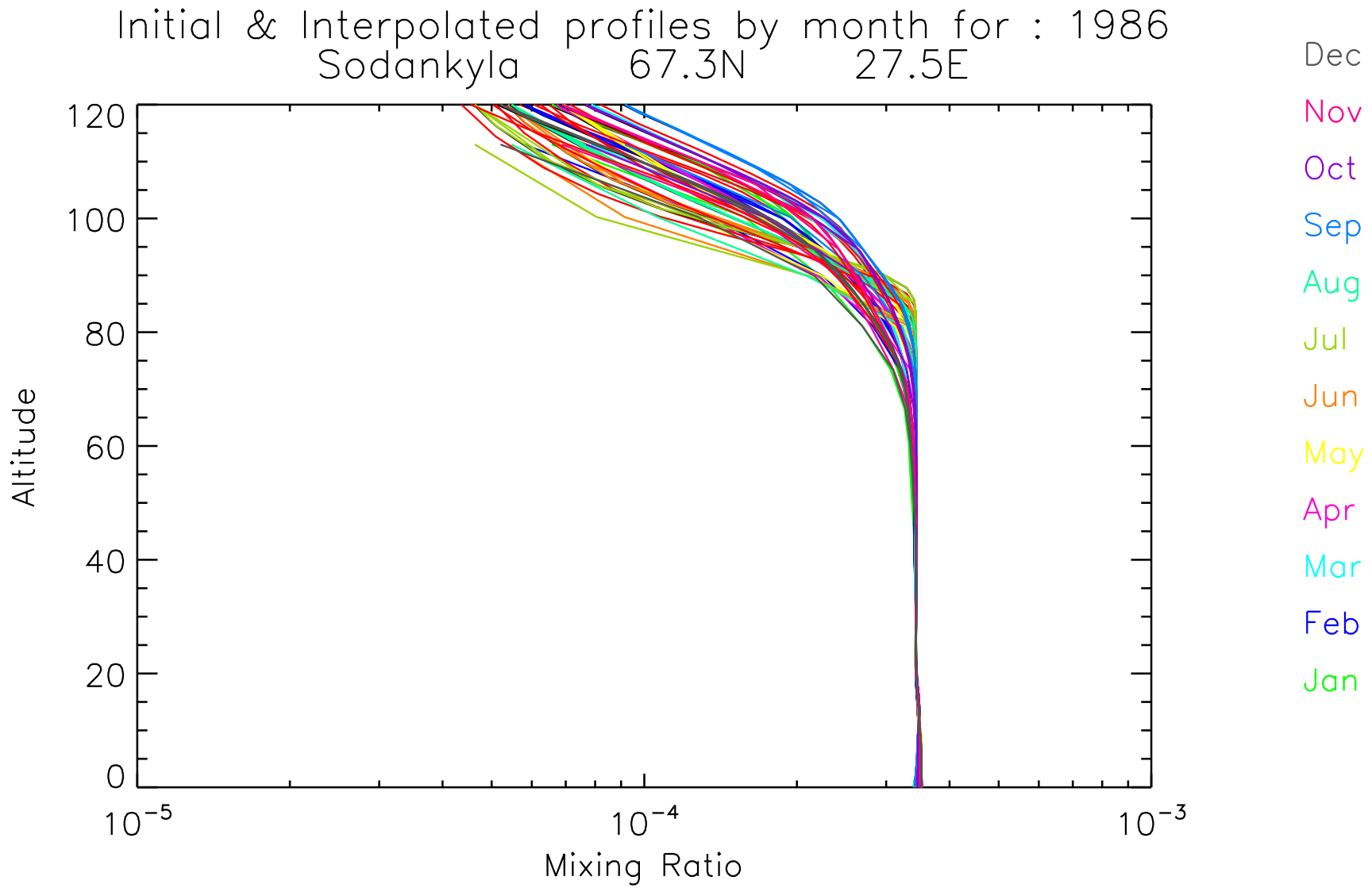
Initial & Interpolated profiles by month for : 1986
Sodankyla 67.3N 27.5E
Altitude
120
100
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60
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Mixing Ratio
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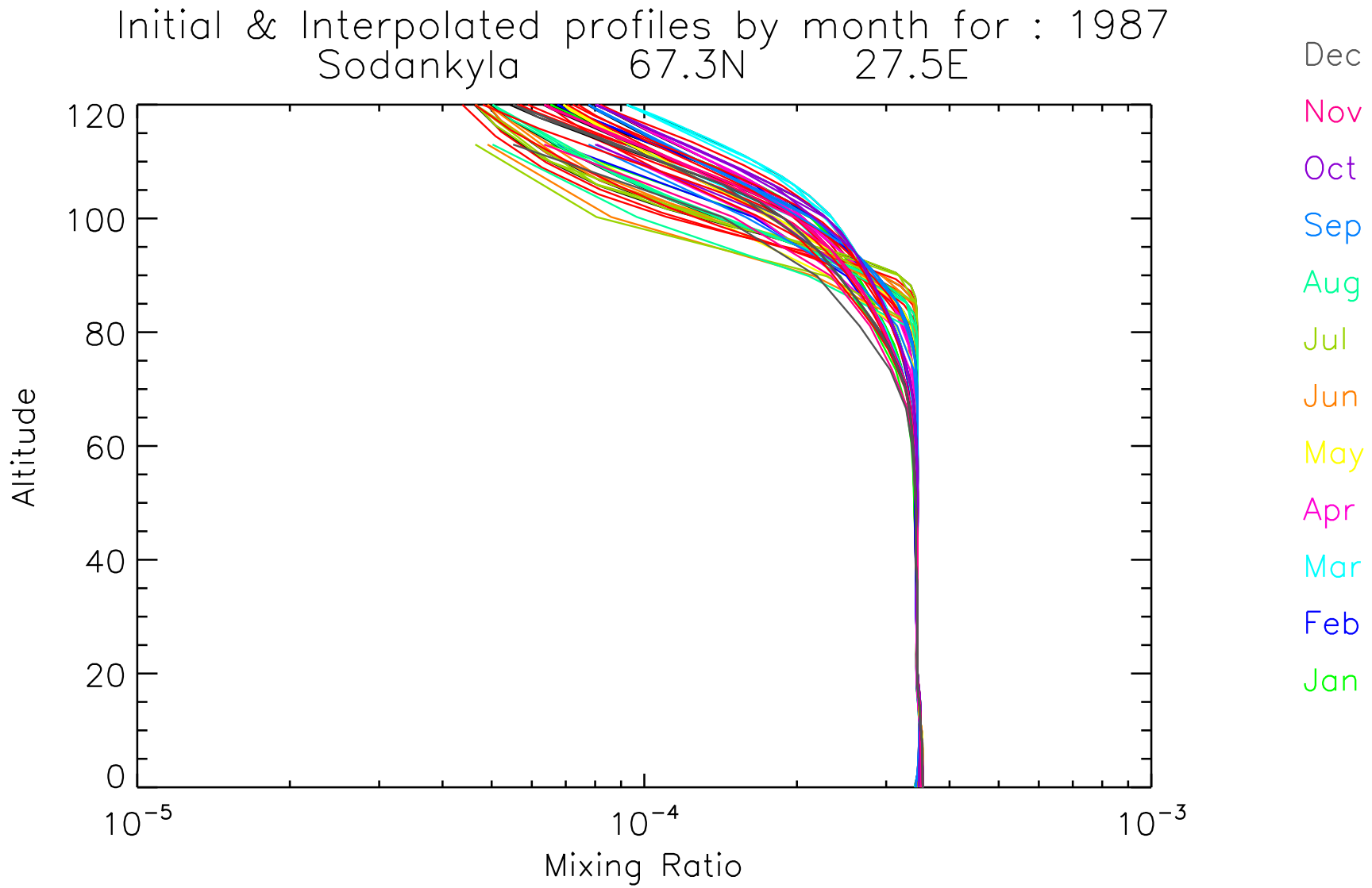
Initial & Interpolated profiles by month for : 1987
Sodankyla 67.3N 27.5E
Altitude
120
100
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10^{-3}
Mixing Ratio
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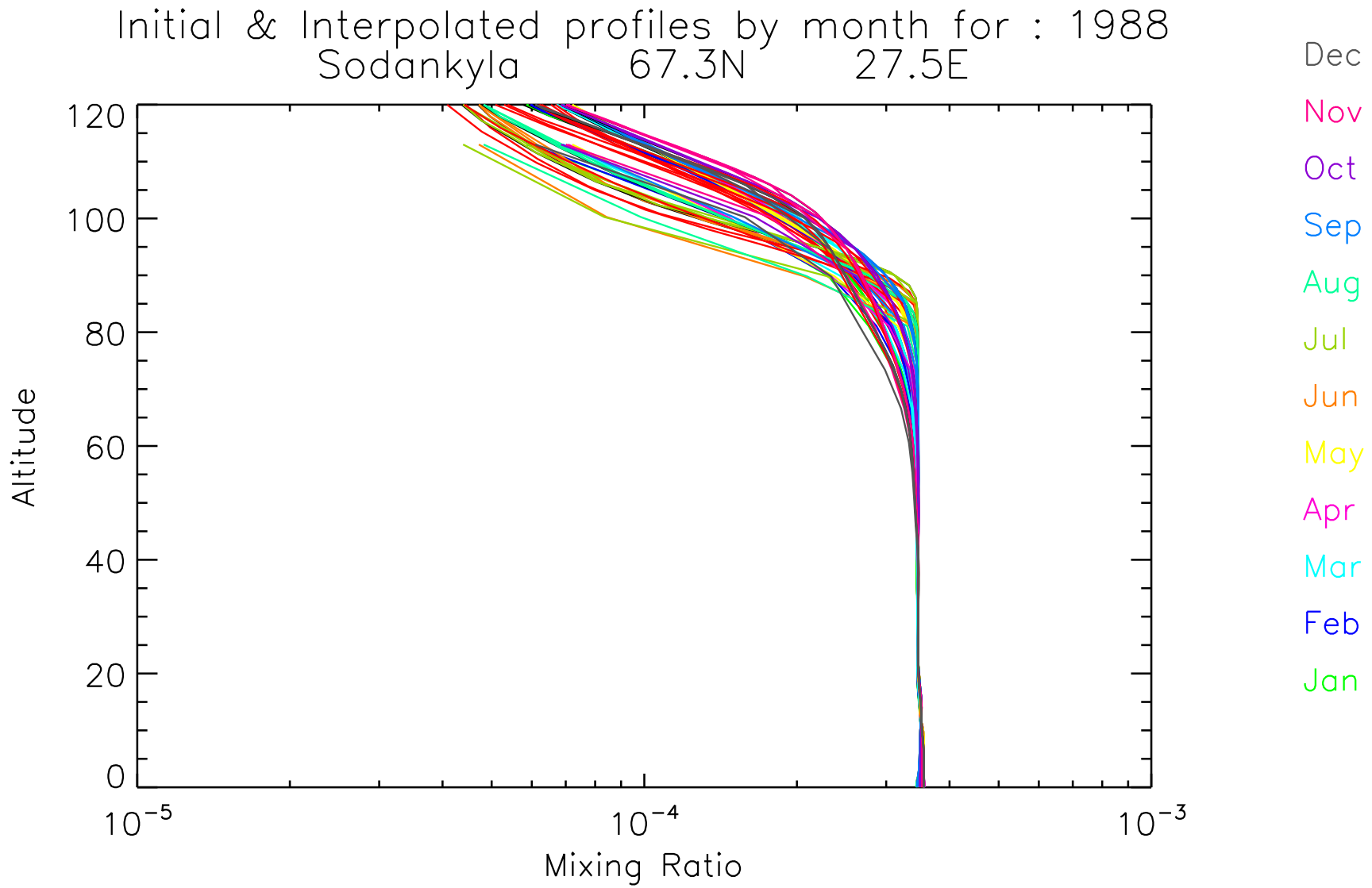
Initial & Interpolated profiles by month for : 1988
Sodankyla 67.3N 27.5E
Altitude
120
100
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10^{-3}
Mixing Ratio
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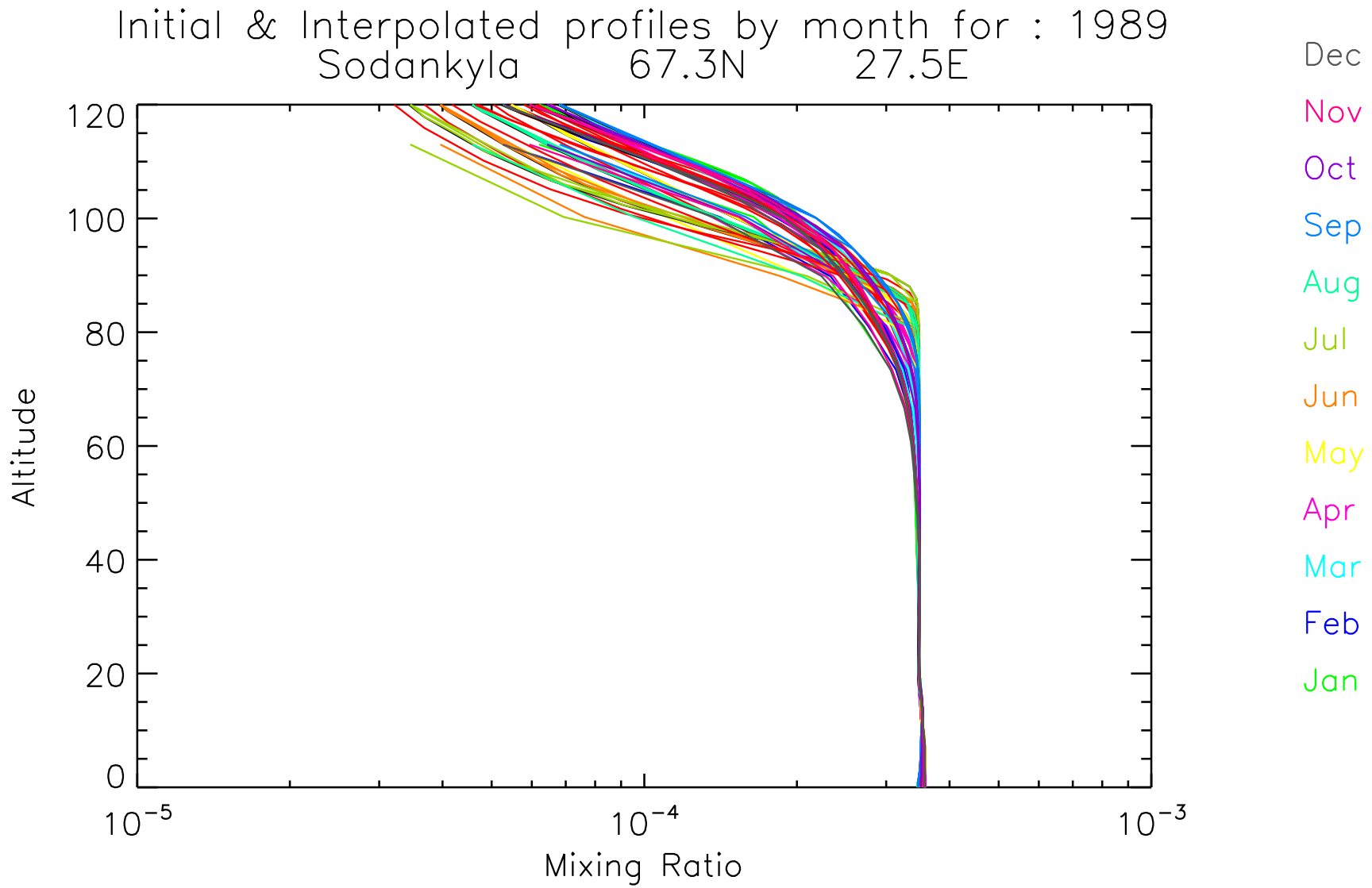
Initial & Interpolated profiles by month for : 1989
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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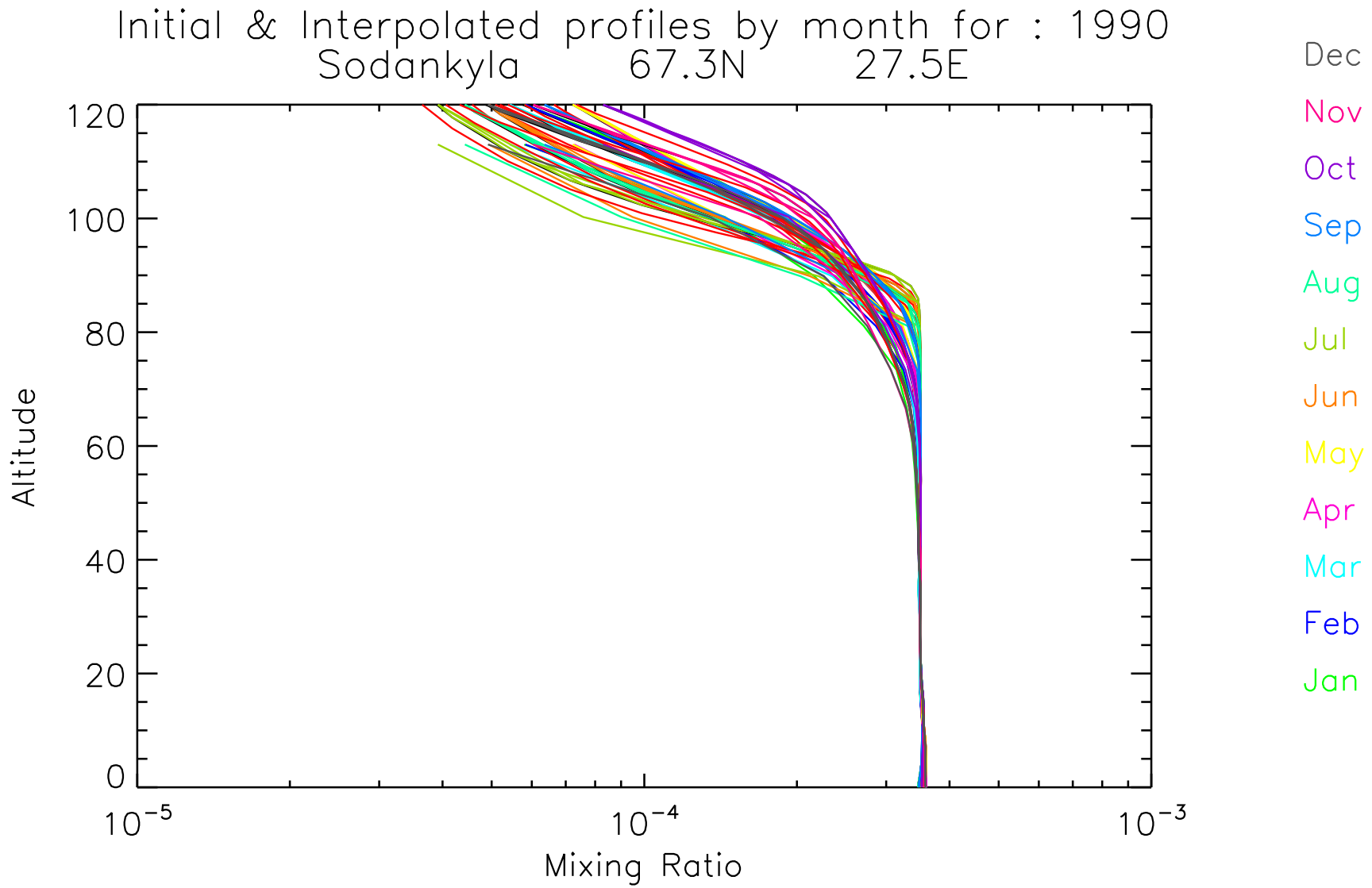
Initial & Interpolated profiles by month for : 1990
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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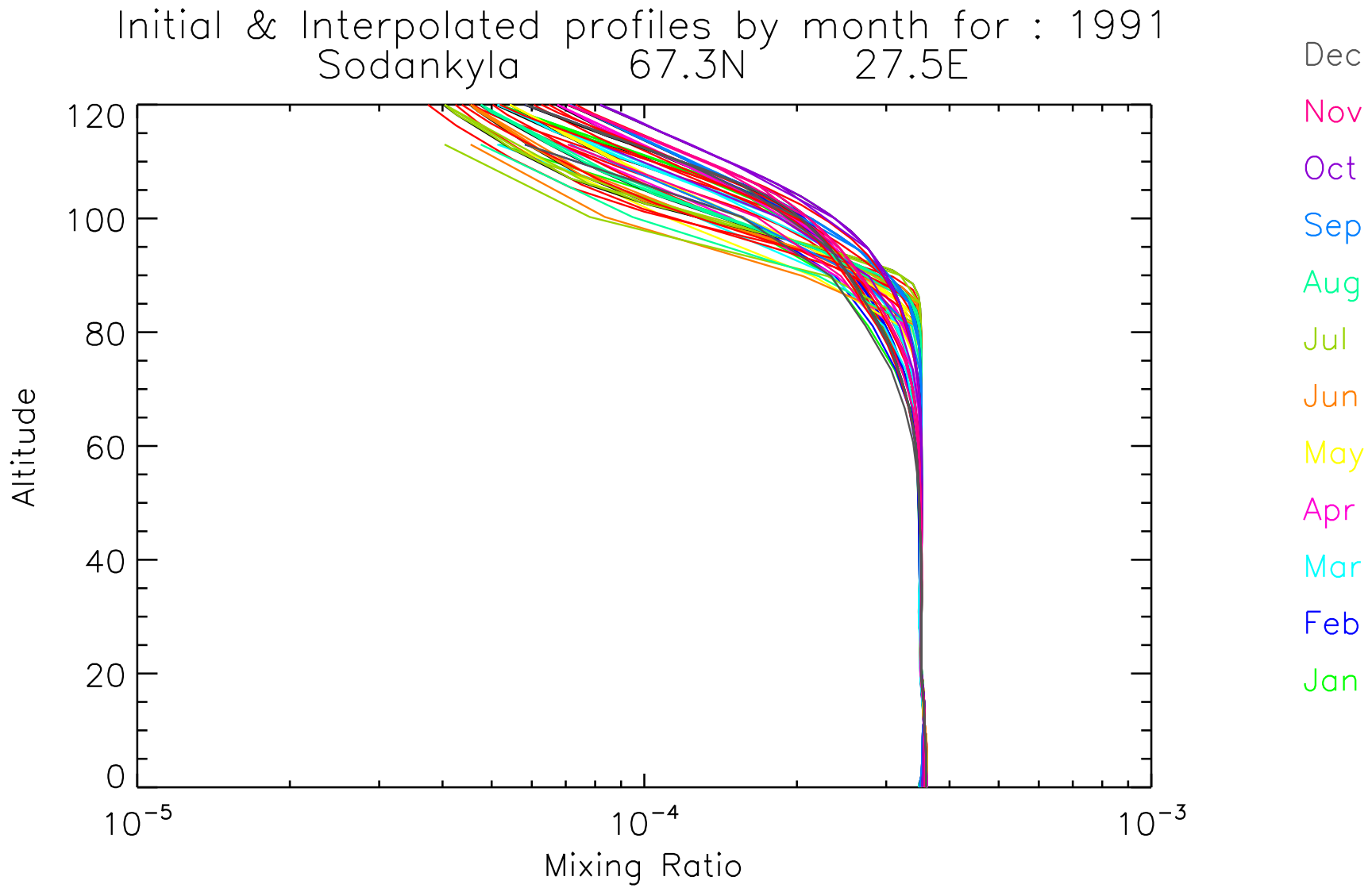
Initial & Interpolated profiles by month for : 1991
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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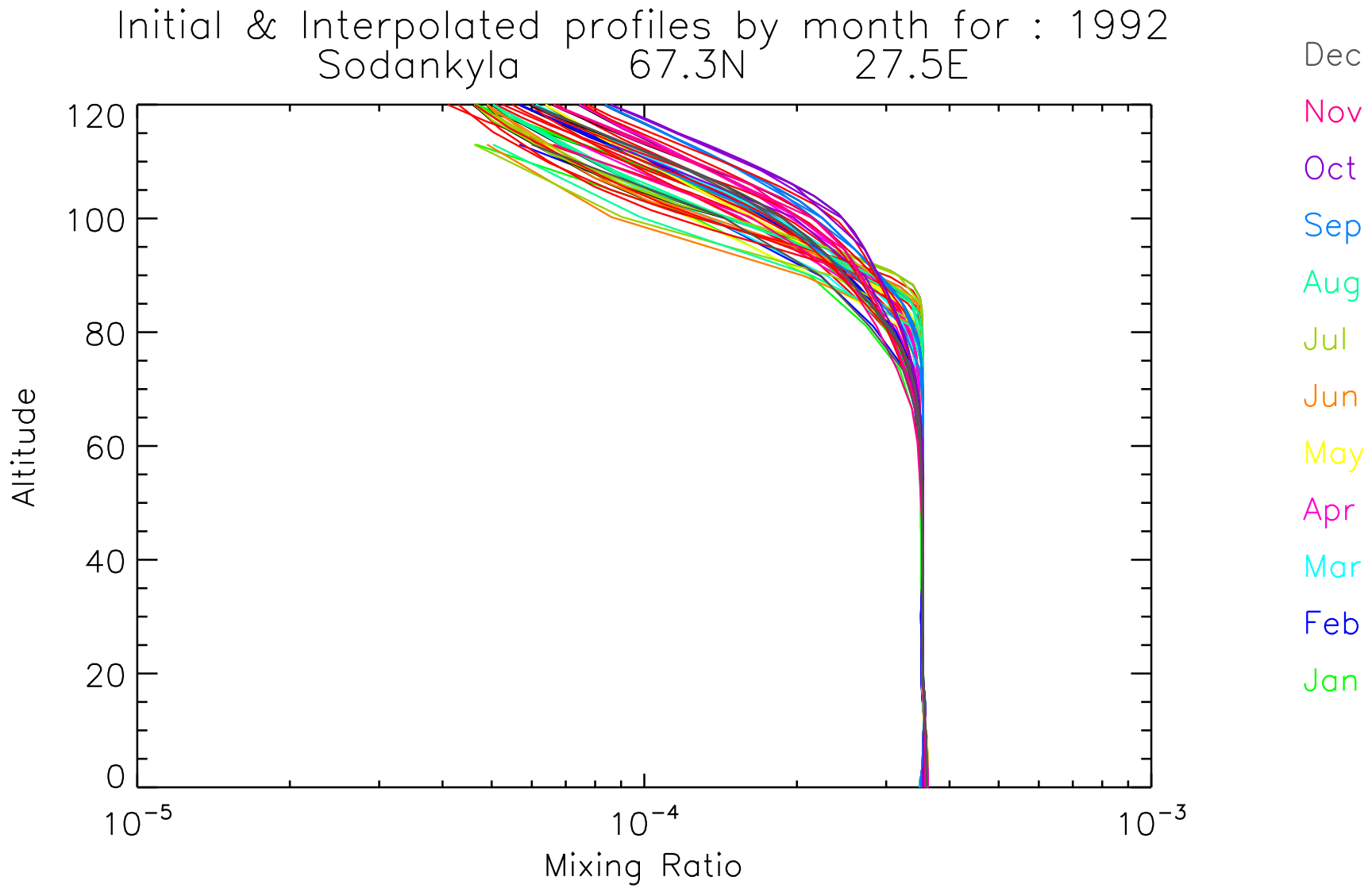
Initial & Interpolated profiles by month for : 1992
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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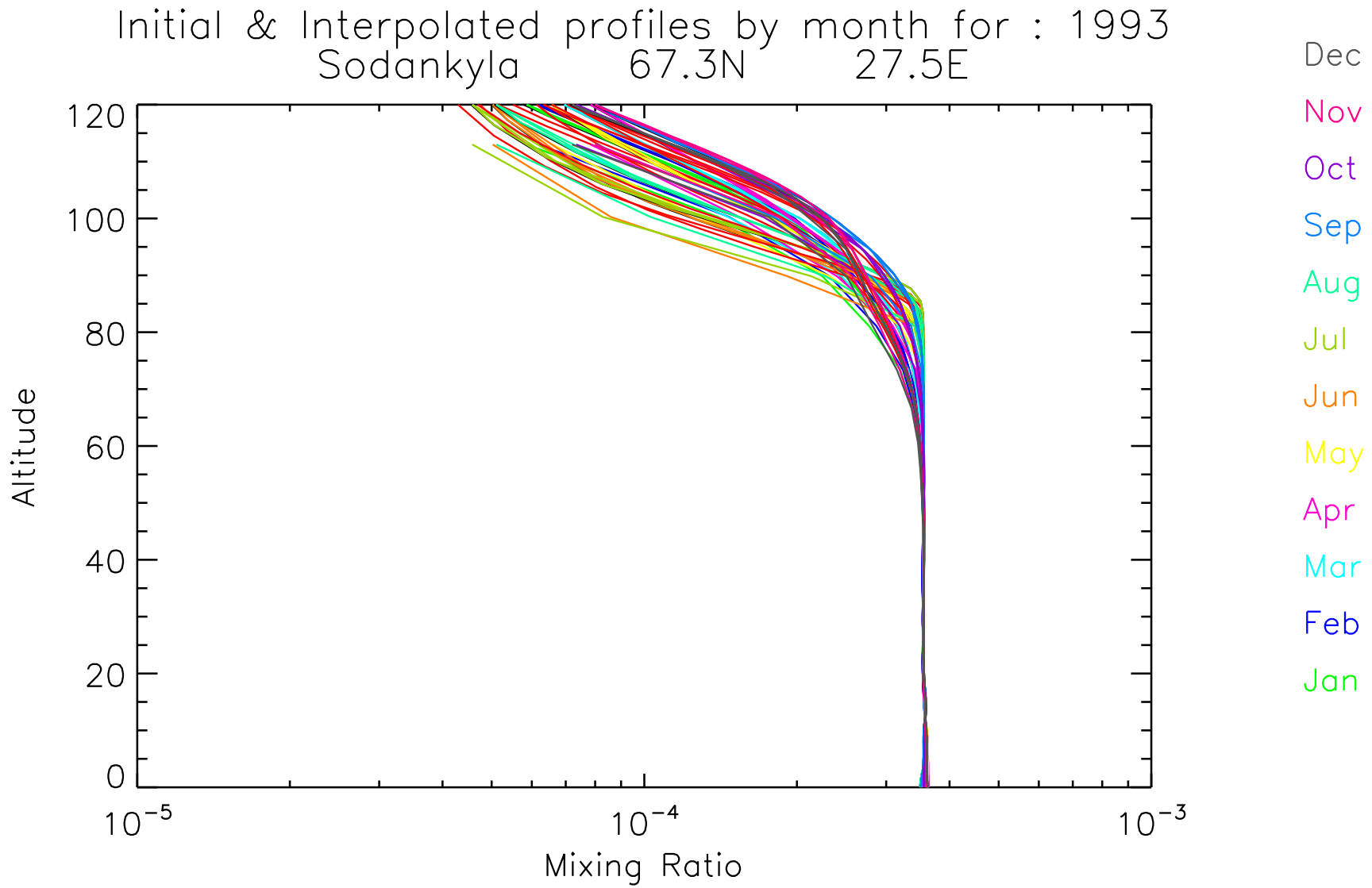
Initial & Interpolated profiles by month for : 1993
Sodankyla 67.3N 27.5E
Altitude
120
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10^{-3}
Mixing Ratio
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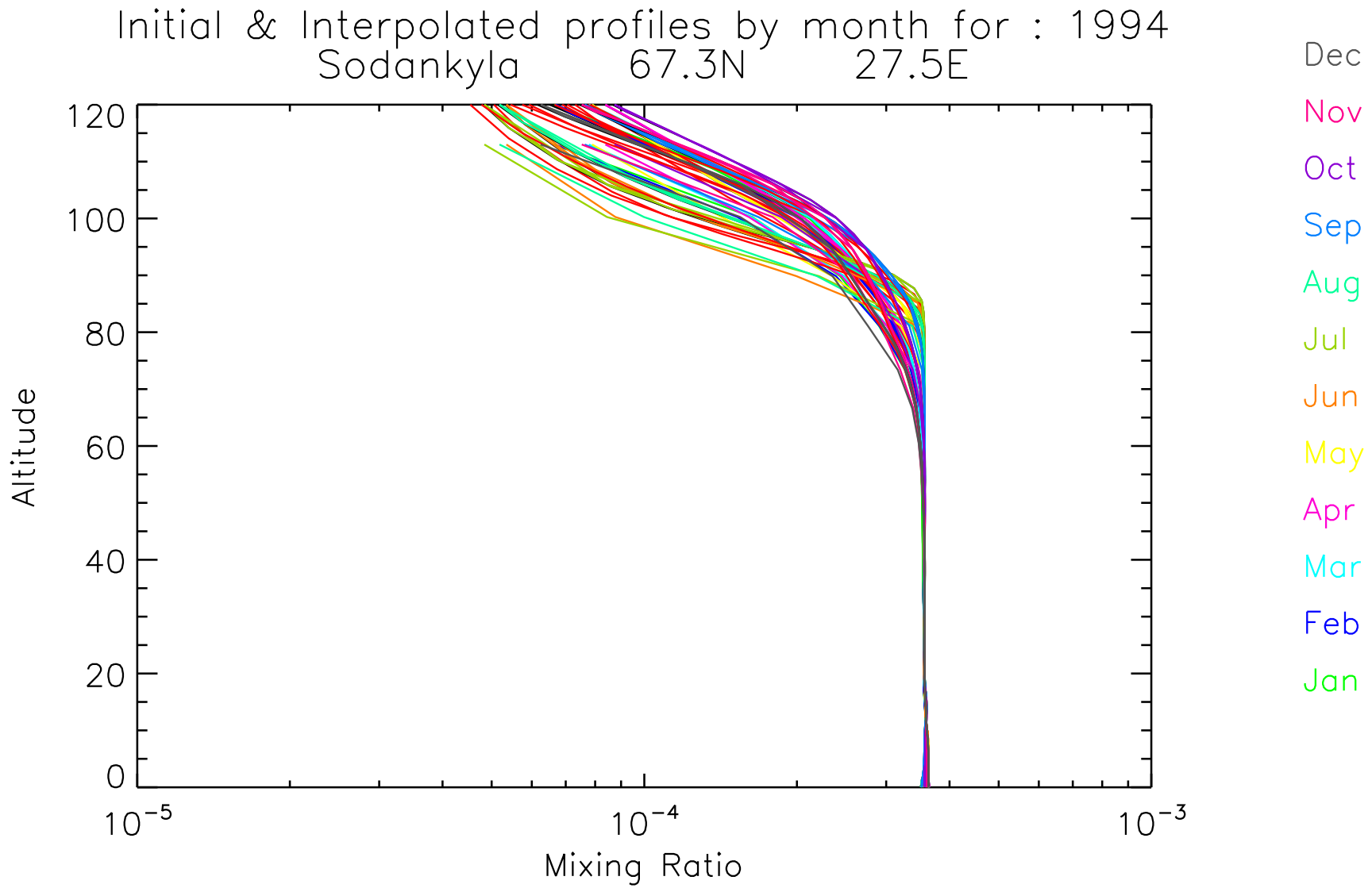
Initial & Interpolated profiles by month for : 1994
Sodankyla 67.3N 27.5E
Altitude
120
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10^{-3}
Mixing Ratio
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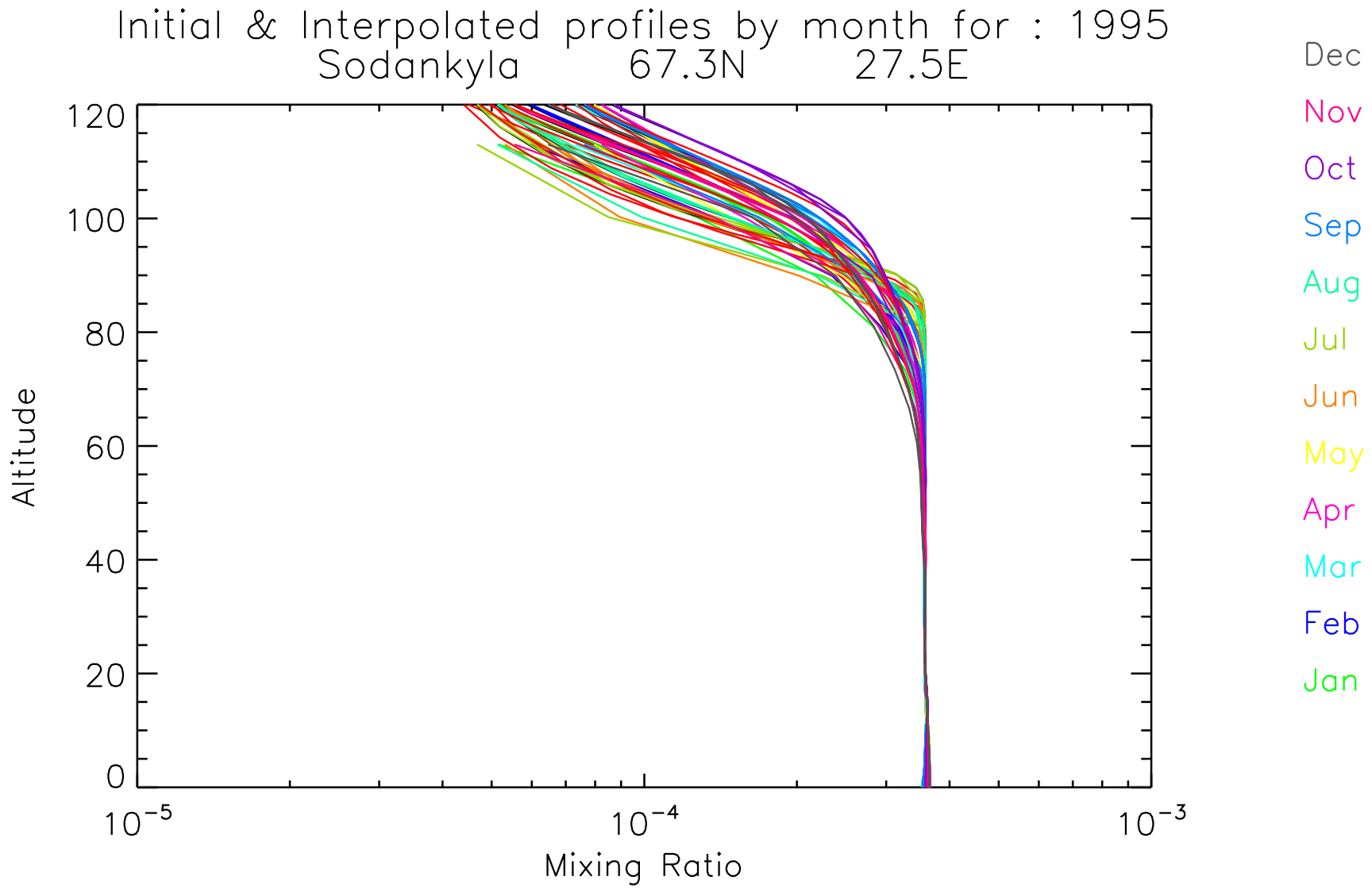
Initial & Interpolated profiles by month for : 1995
Sodankyla 67.3N 27.5E
Altitude
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10^{-3}
Mixing Ratio
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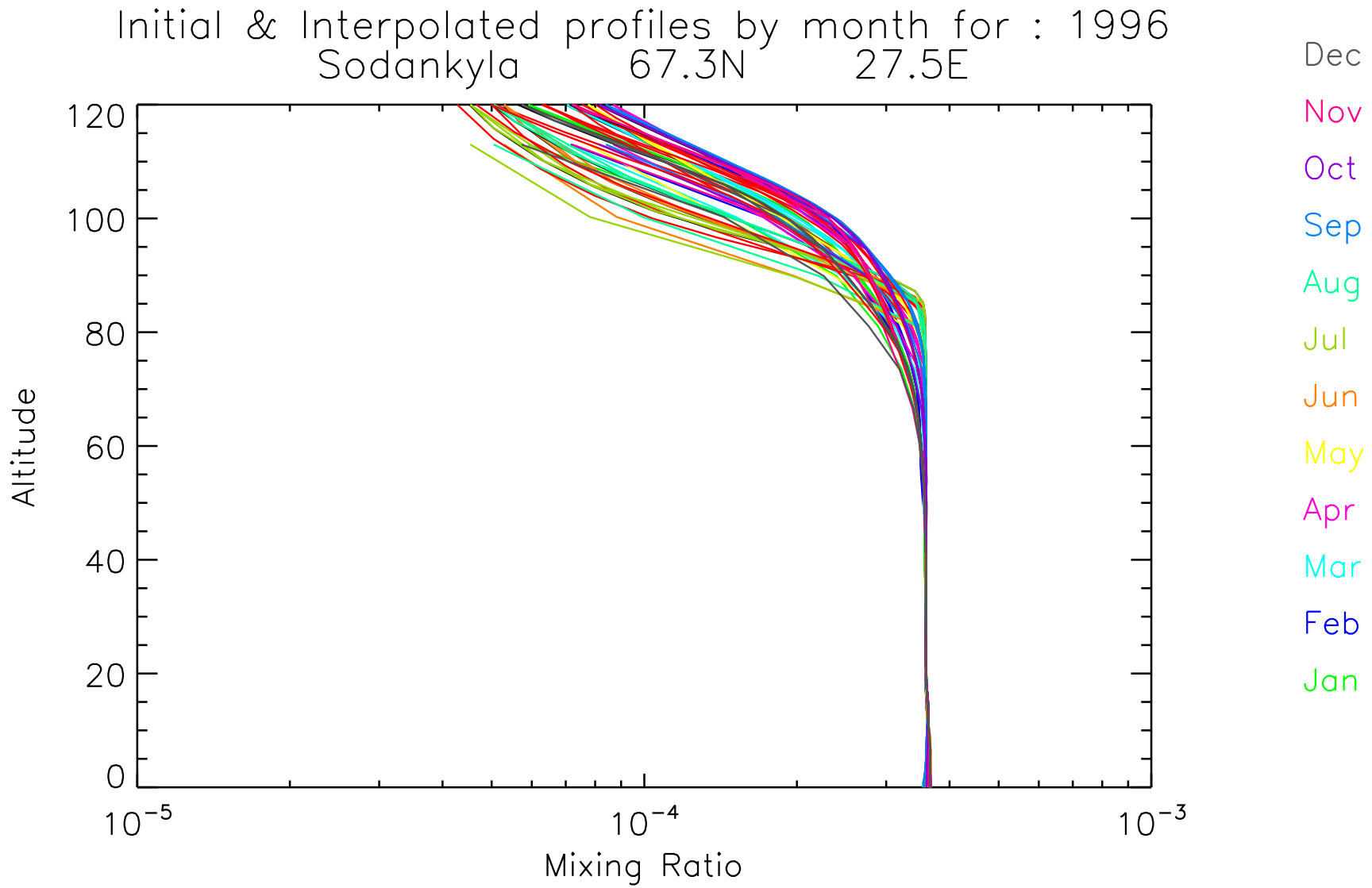
Initial & Interpolated profiles by month for : 1996
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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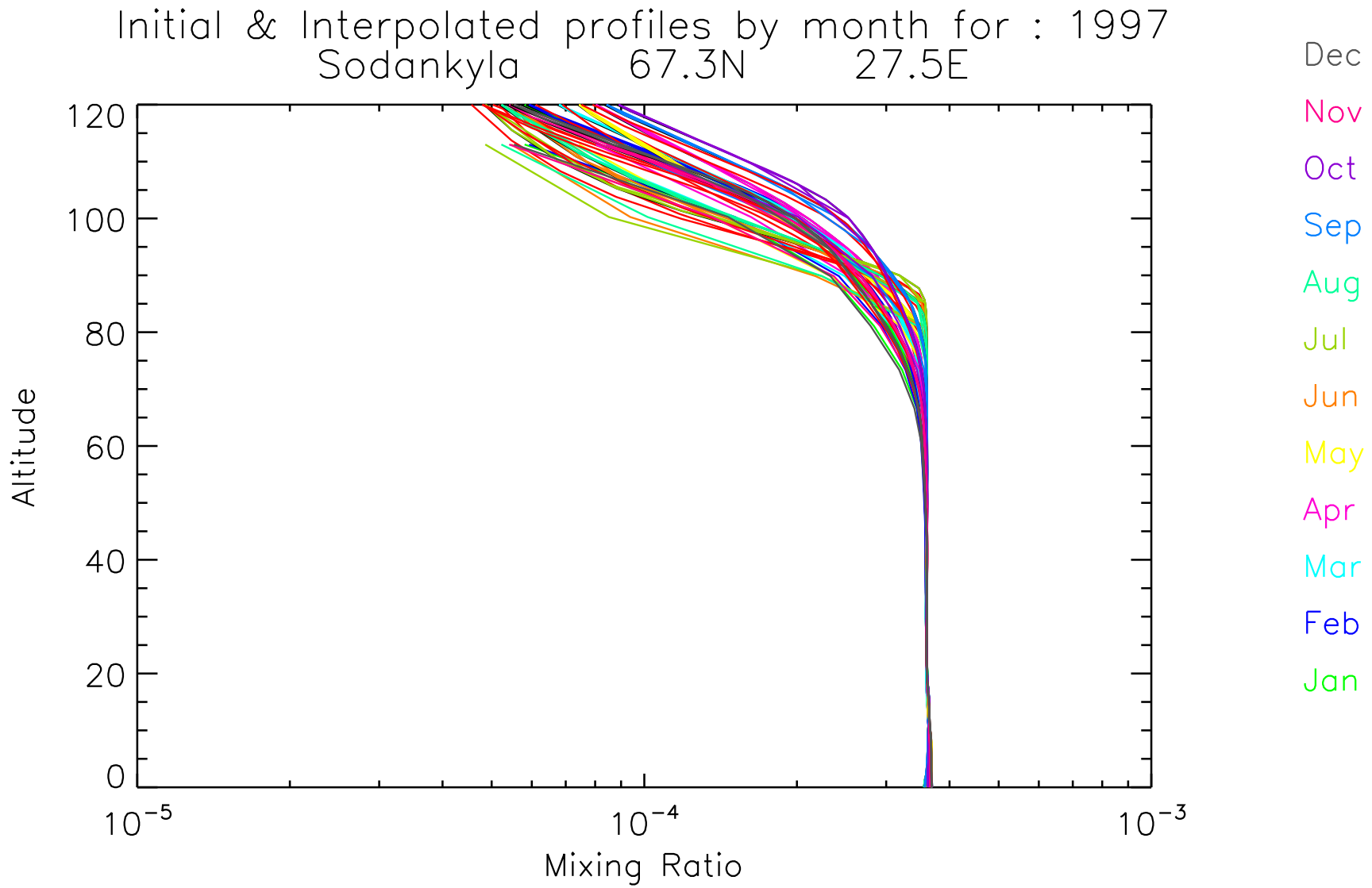
Initial & Interpolated profiles by month for : 1997
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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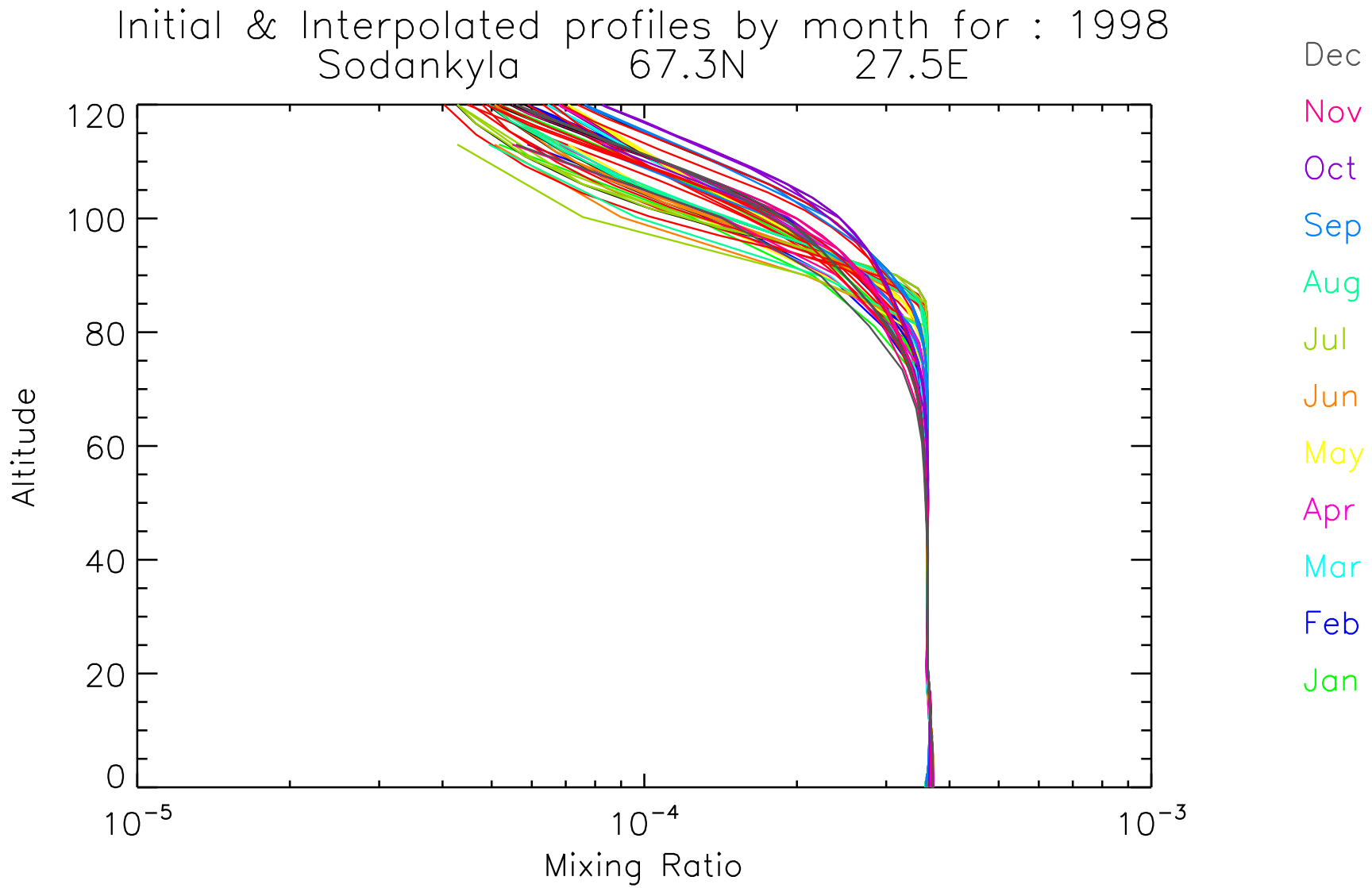
Initial & Interpolated profiles by month for : 1998
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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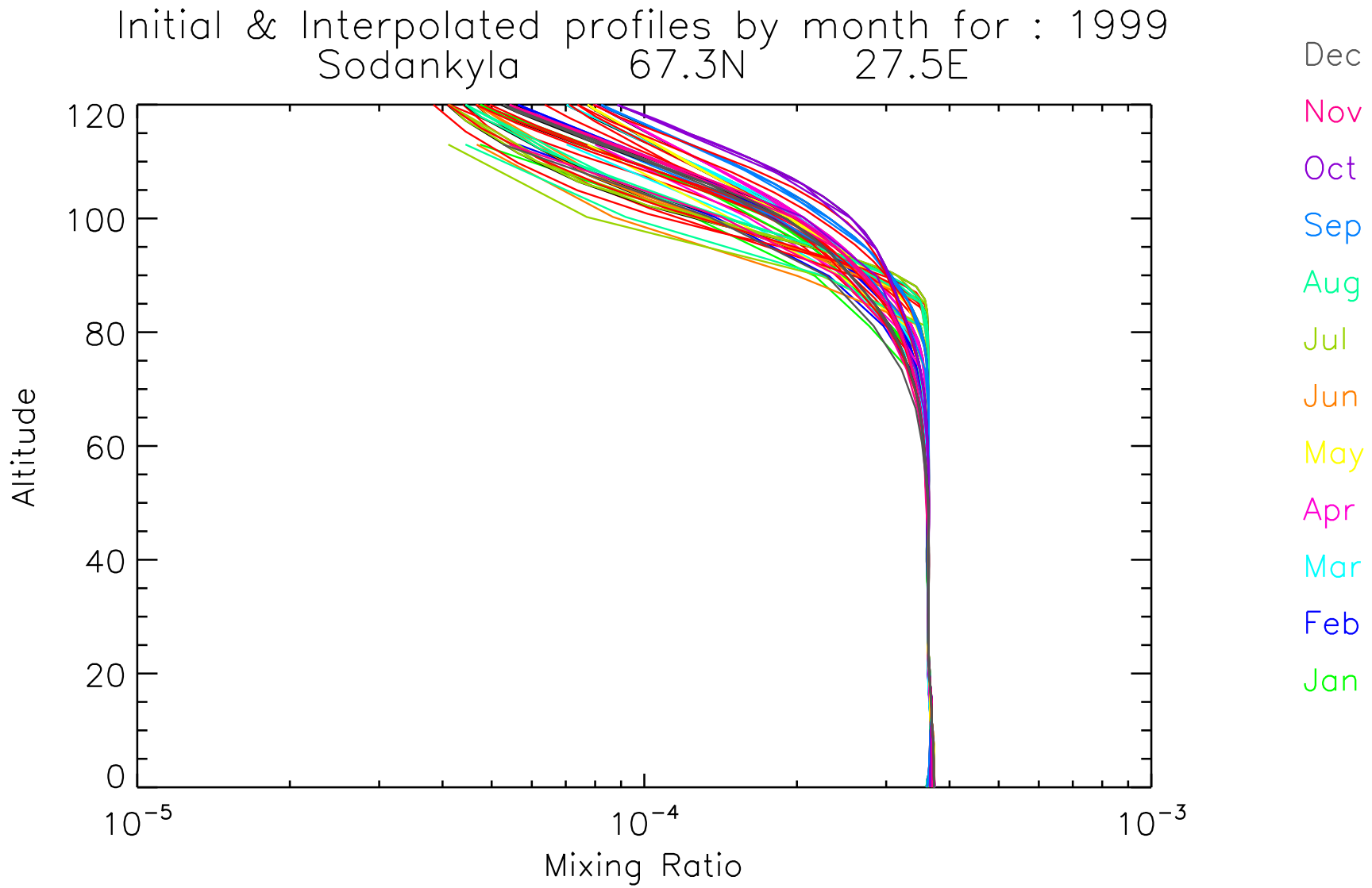
Initial & Interpolated profiles by month for : 1999
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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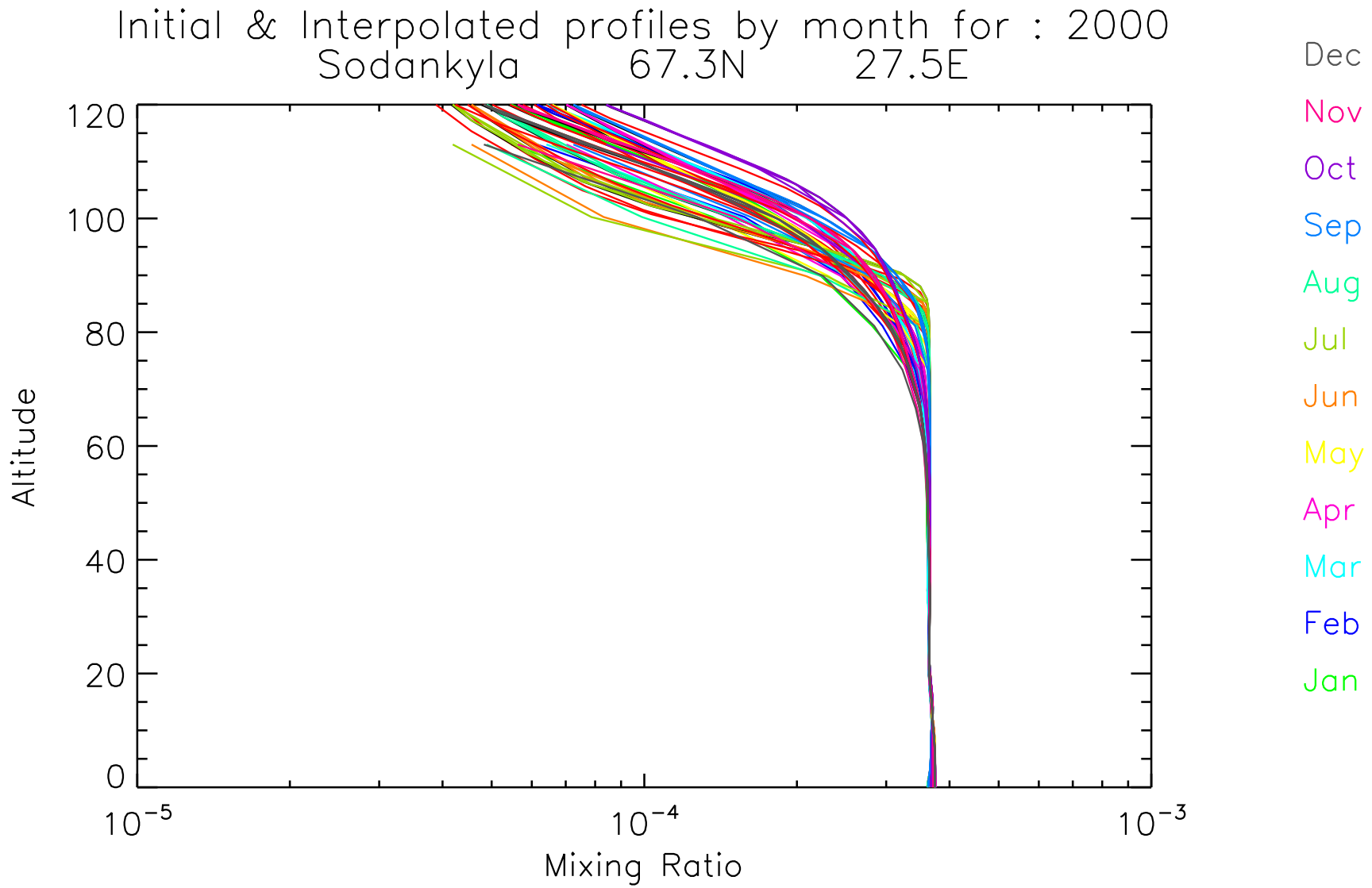
Initial & Interpolated profiles by month for : 2000
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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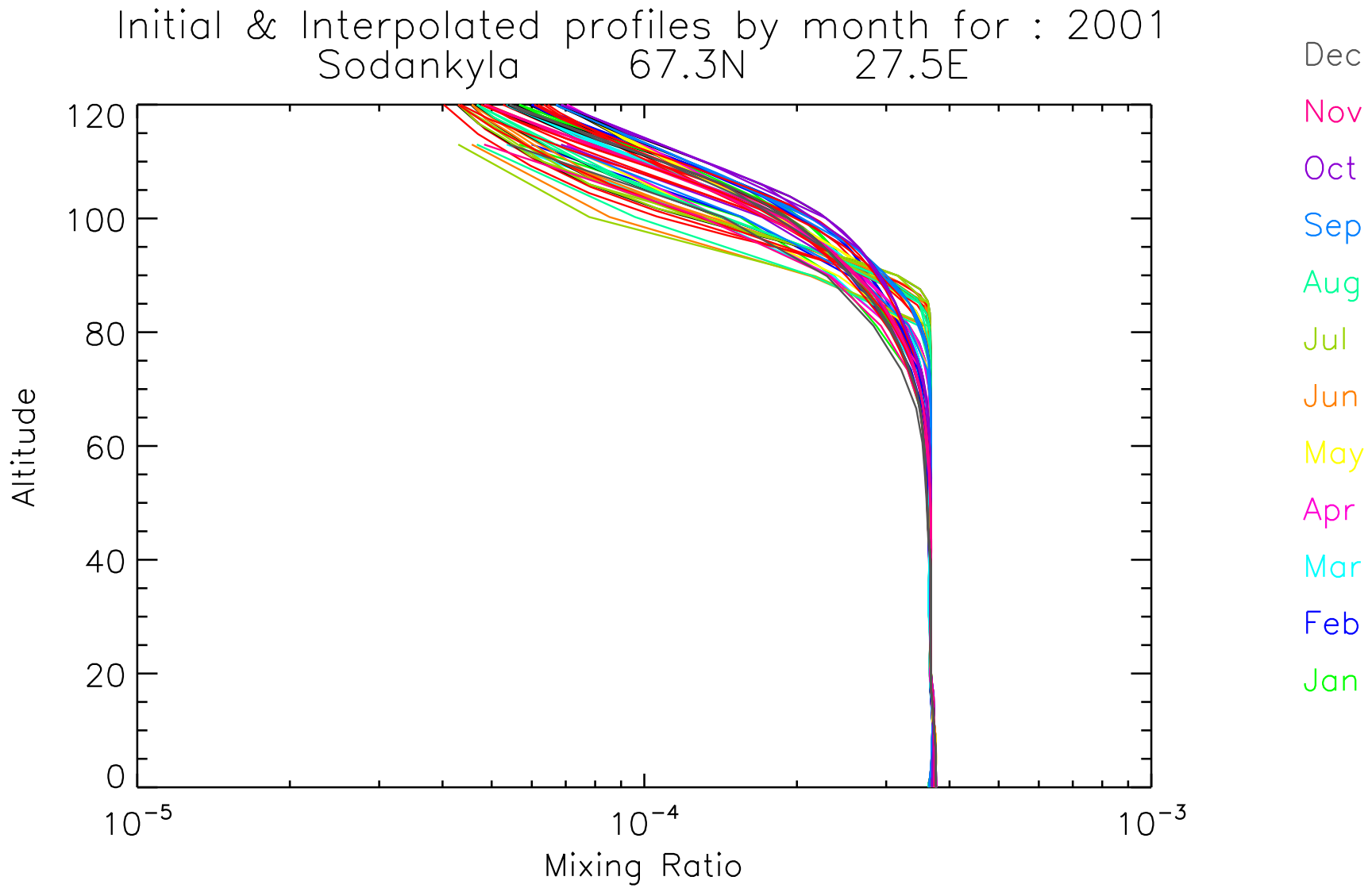
Initial & Interpolated profiles by month for : 2001
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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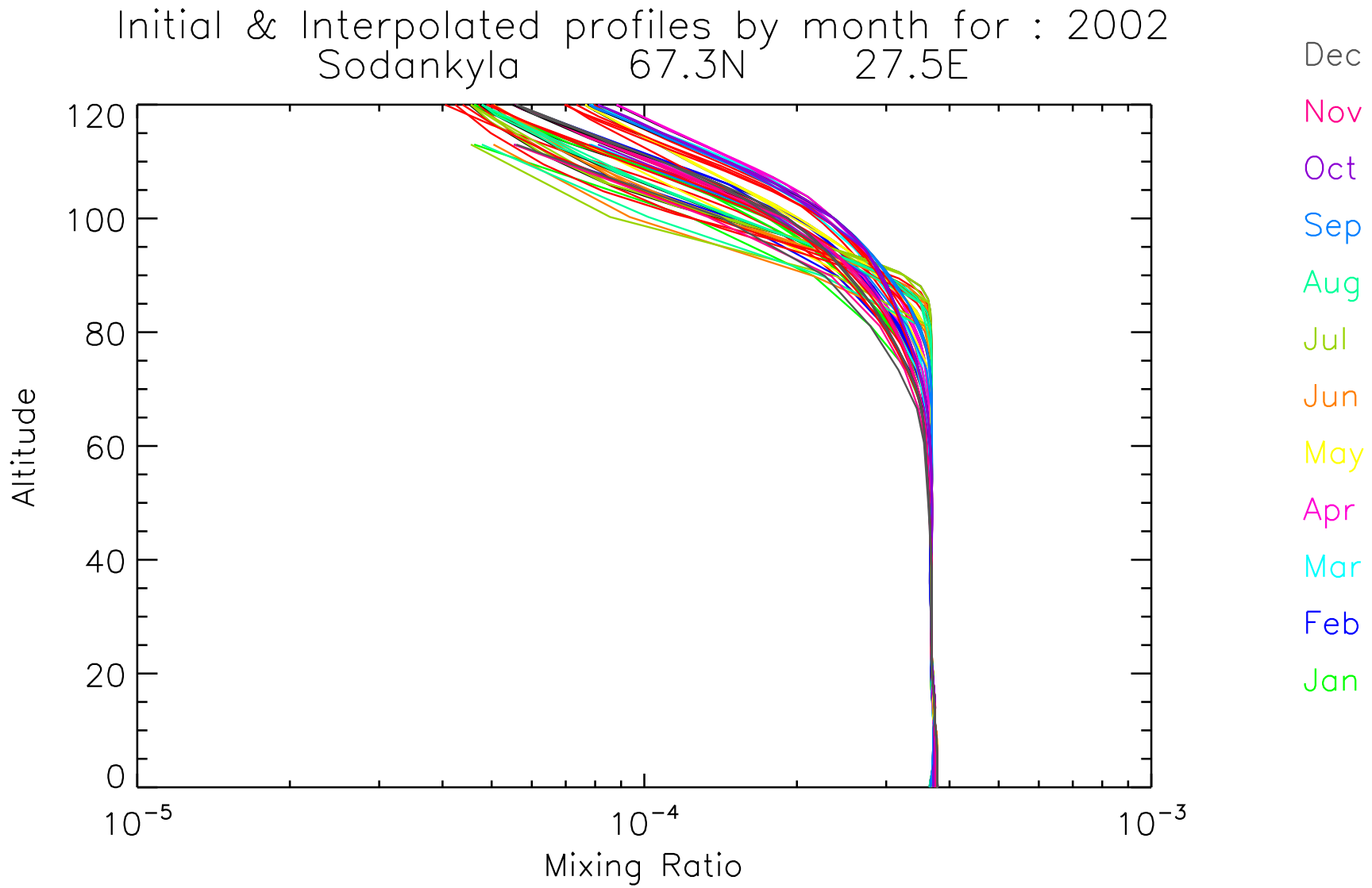
Initial & Interpolated profiles by month for : 2002
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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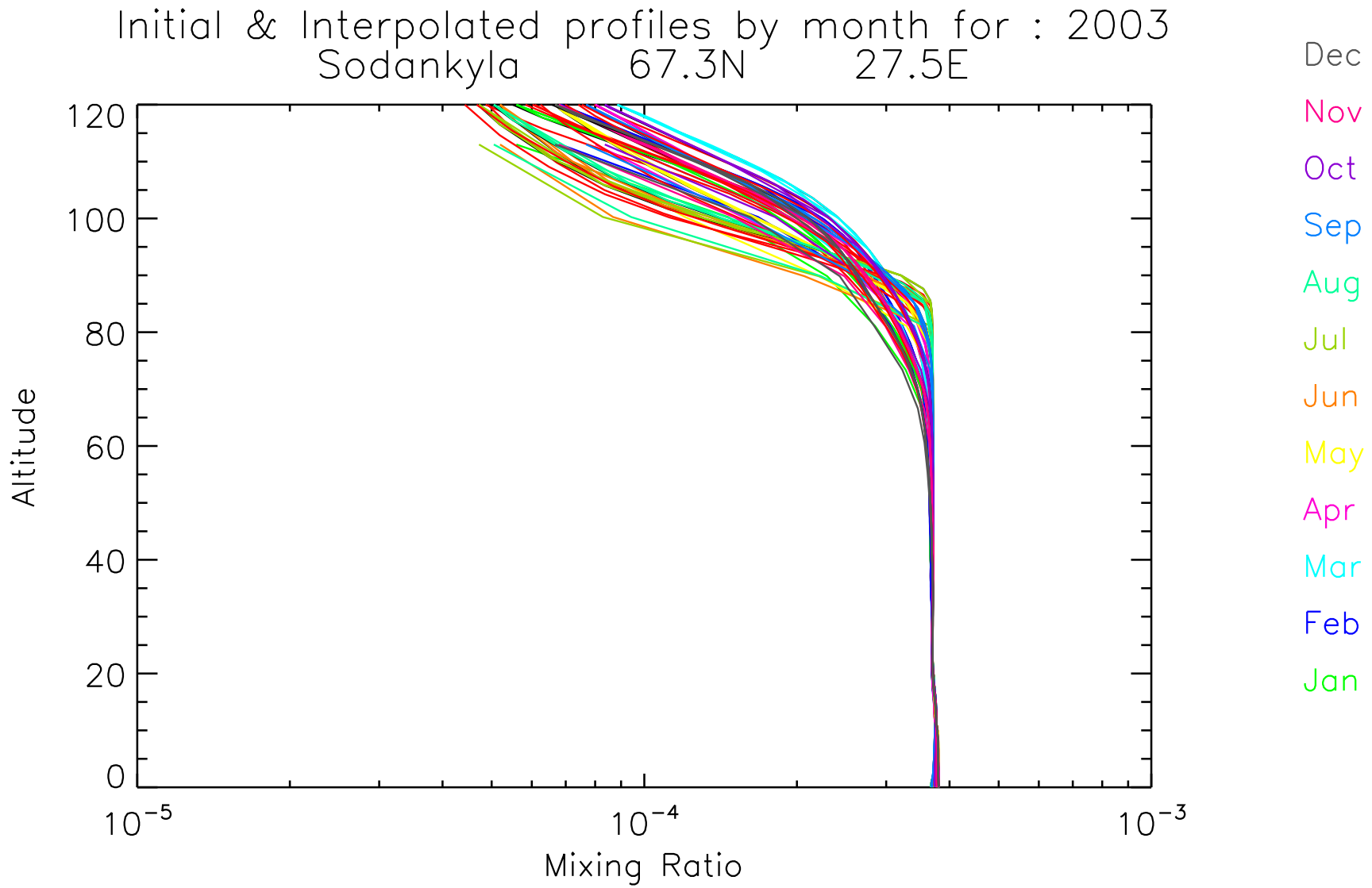
Initial & Interpolated profiles by month for : 2003
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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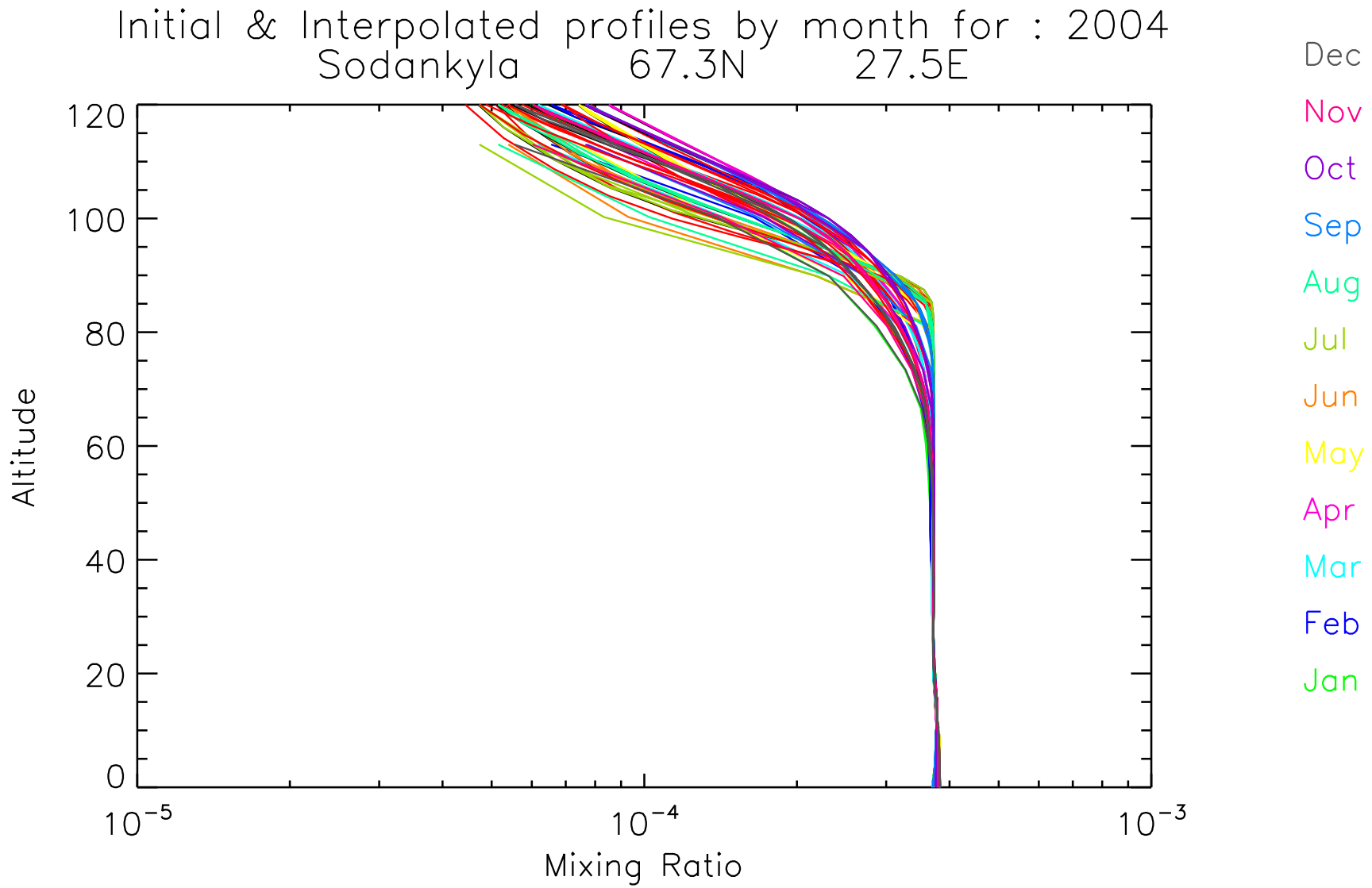
Initial & Interpolated profiles by month for : 2004
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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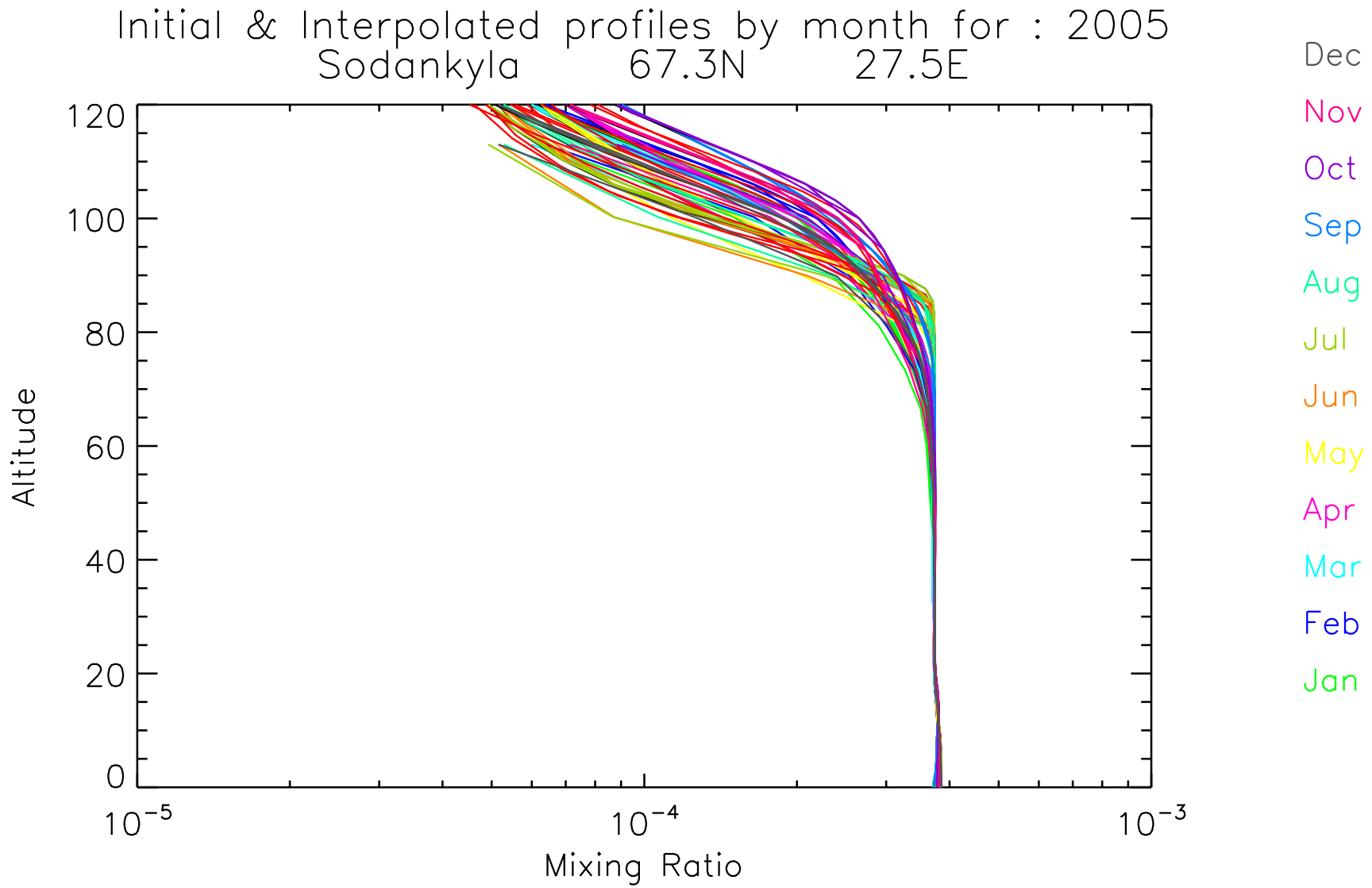
Initial & Interpolated profiles by month for : 2005
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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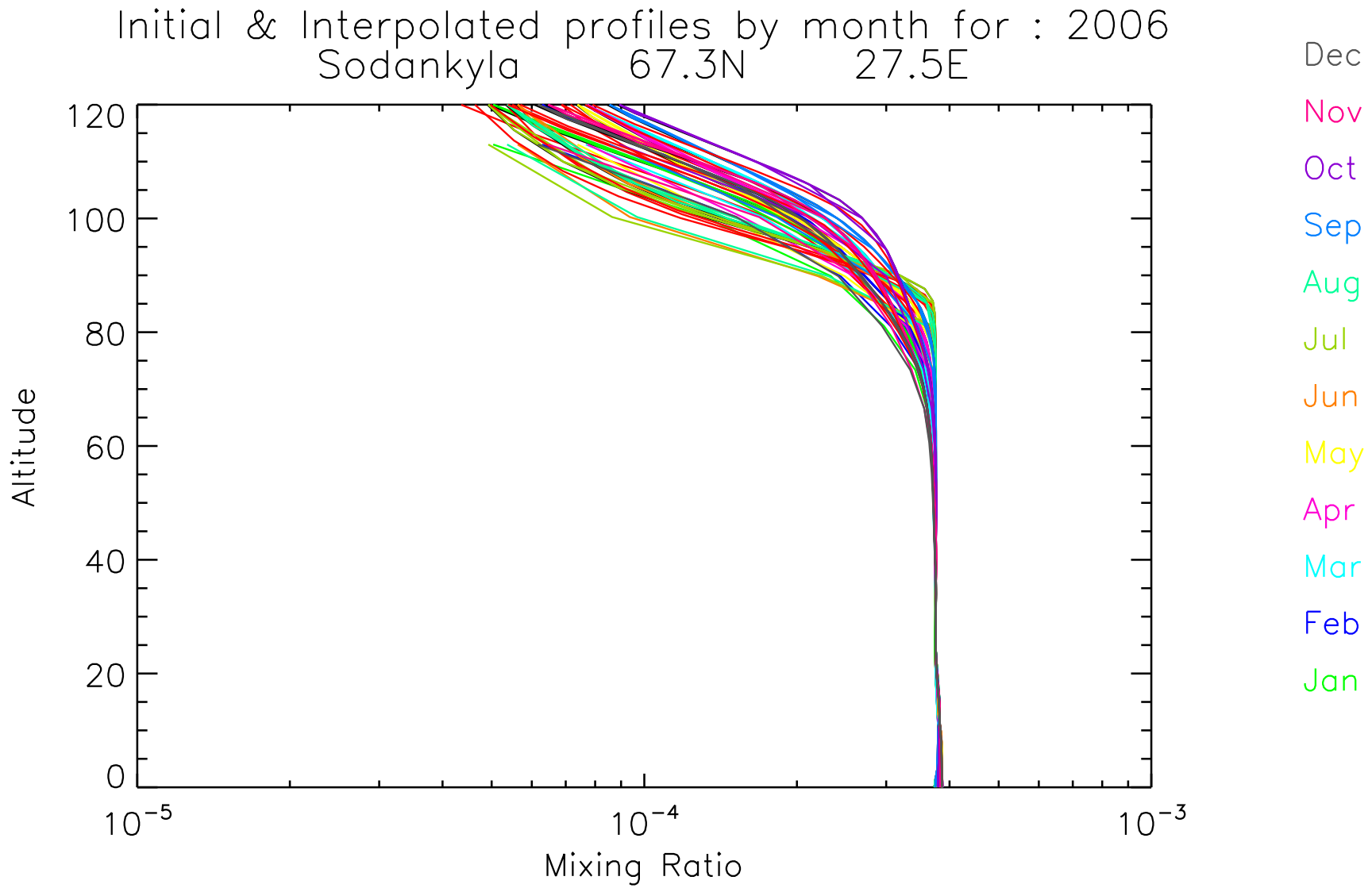
Initial & Interpolated profiles by month for : 2006
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
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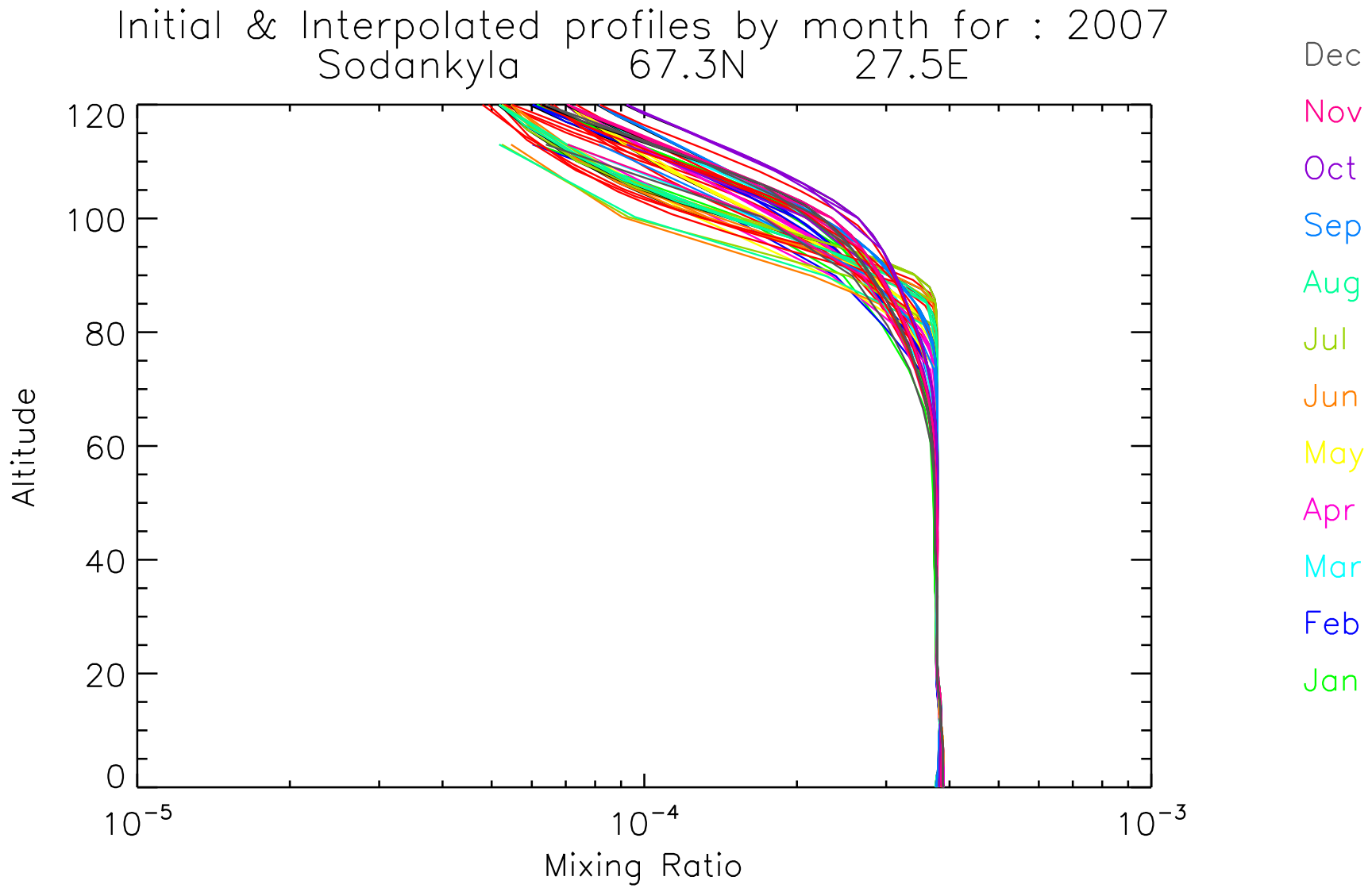
Initial & Interpolated profiles by month for : 2007
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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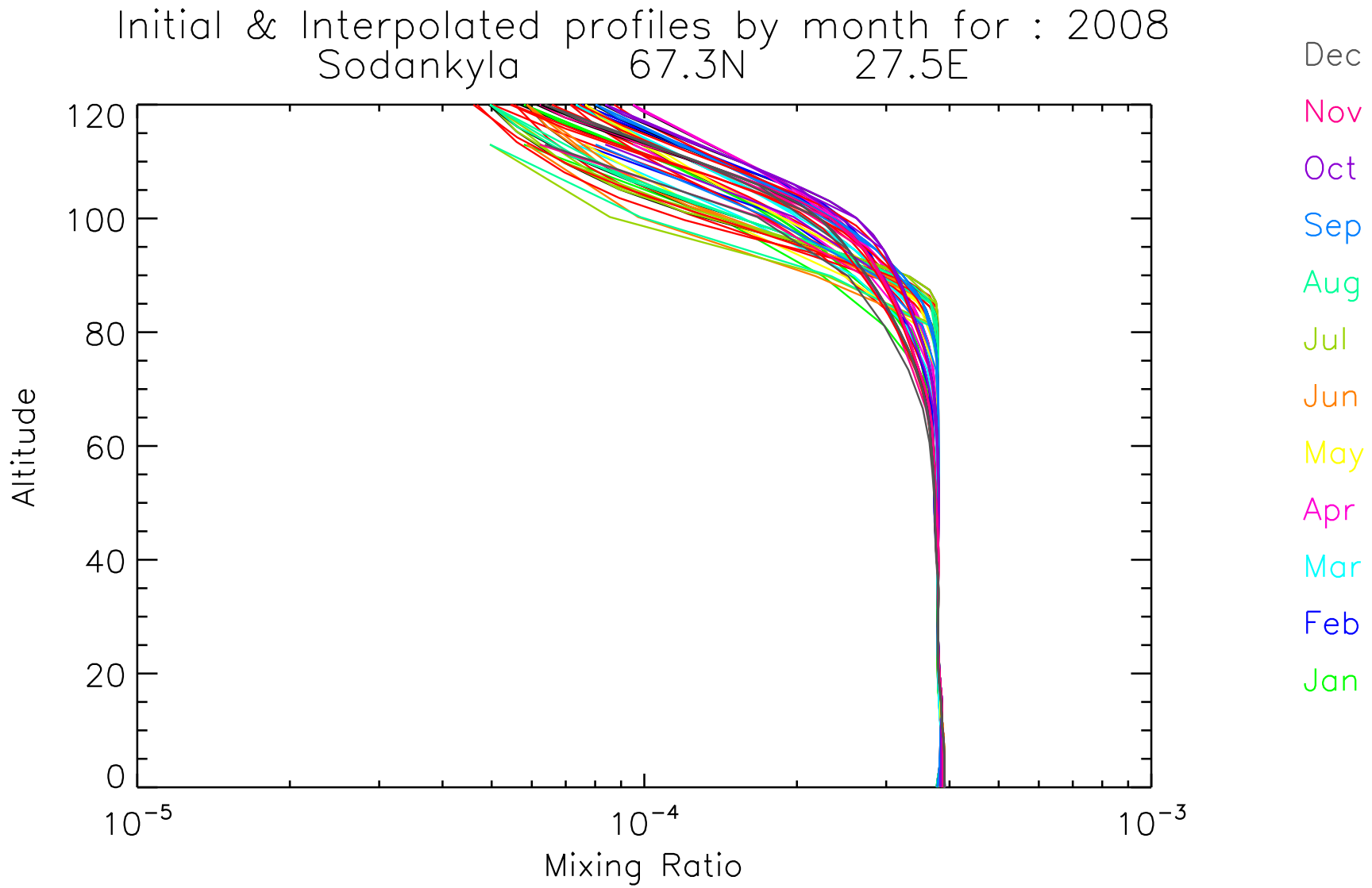
Initial & Interpolated profiles by month for : 2008
Sodankyla 67.3N 27.5E
Altitude
120
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Mixing Ratio
Dec
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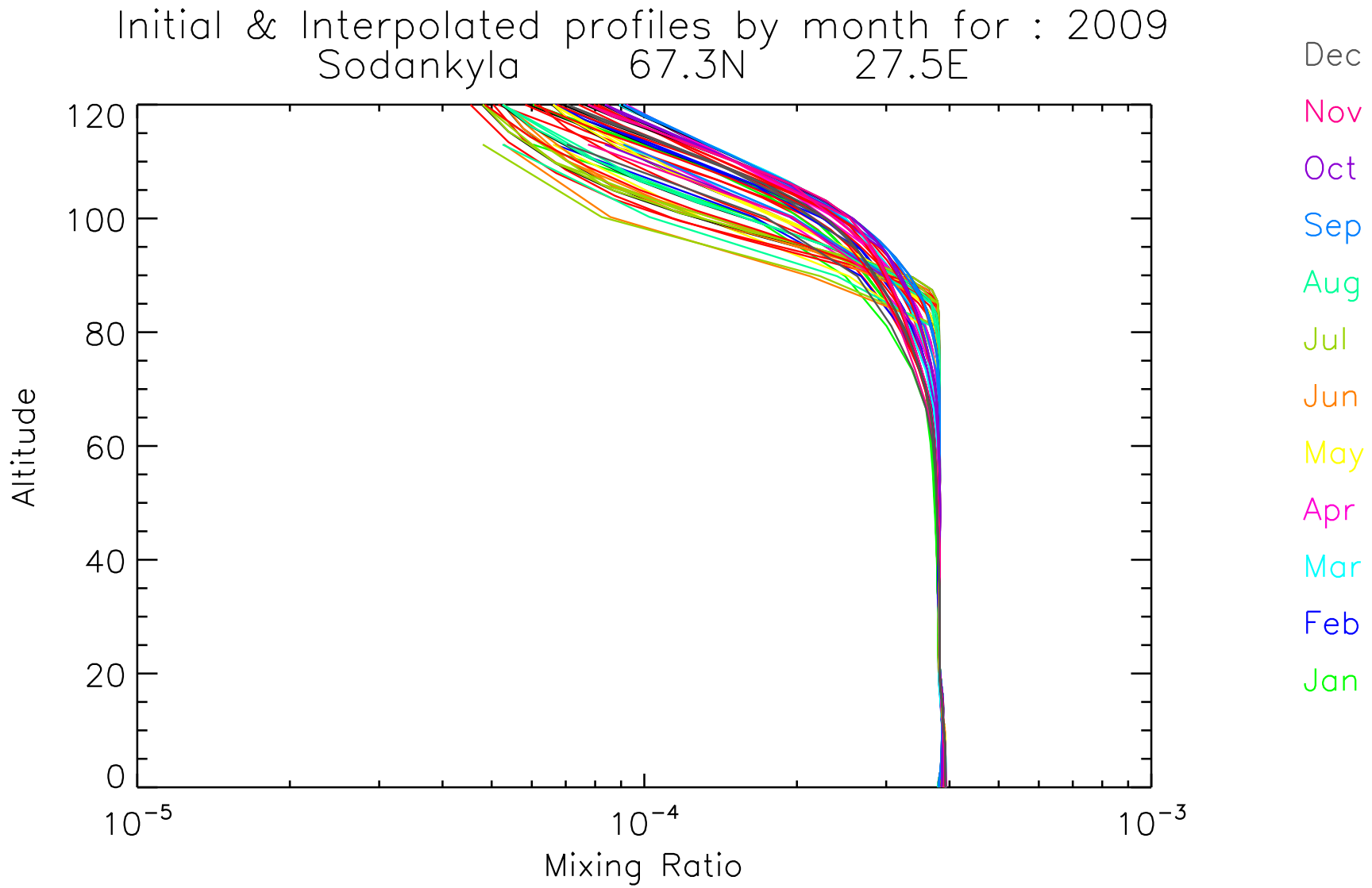
Initial & Interpolated profiles by month for : 2009
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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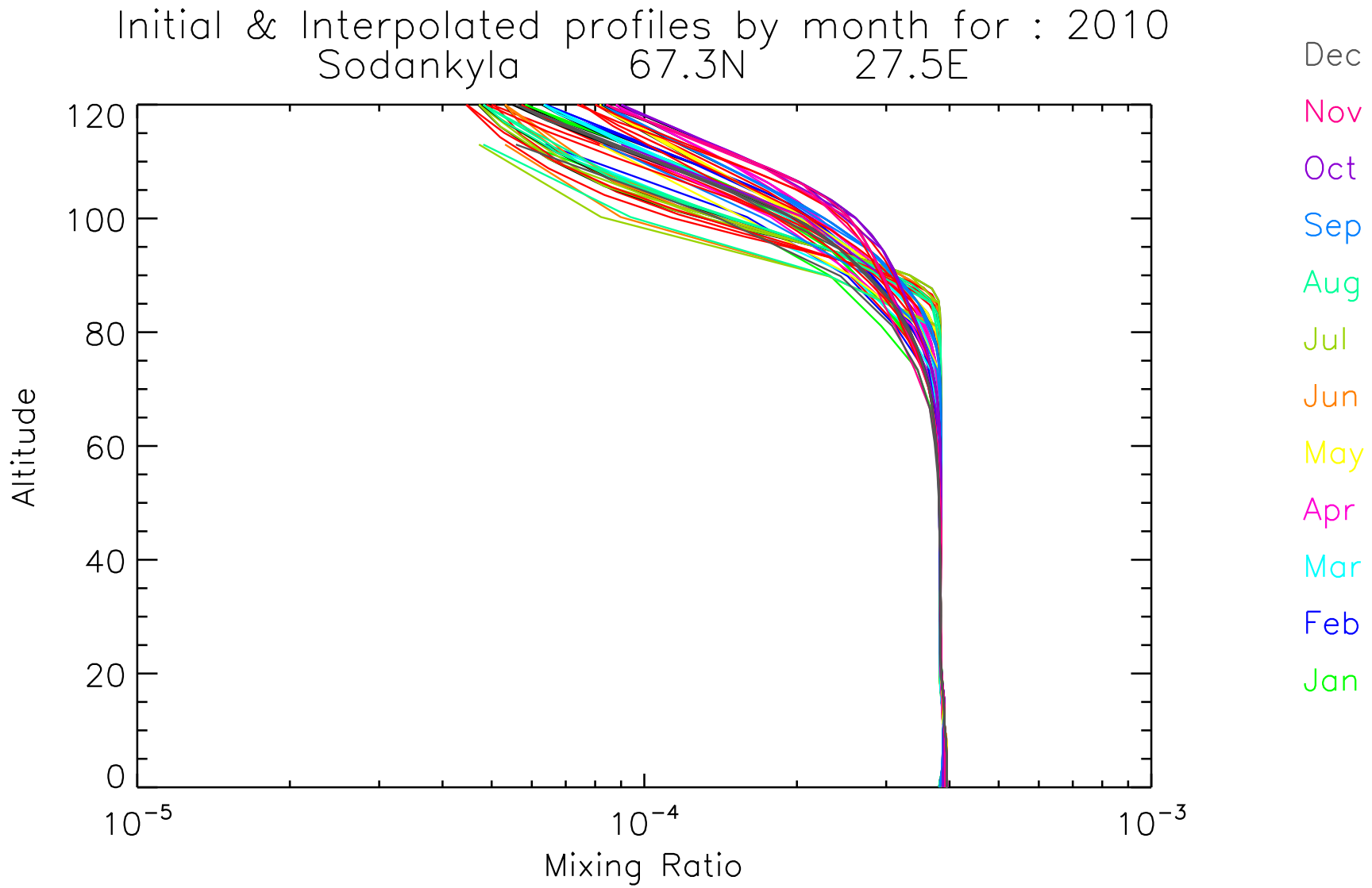
Initial & Interpolated profiles by month for : 2010
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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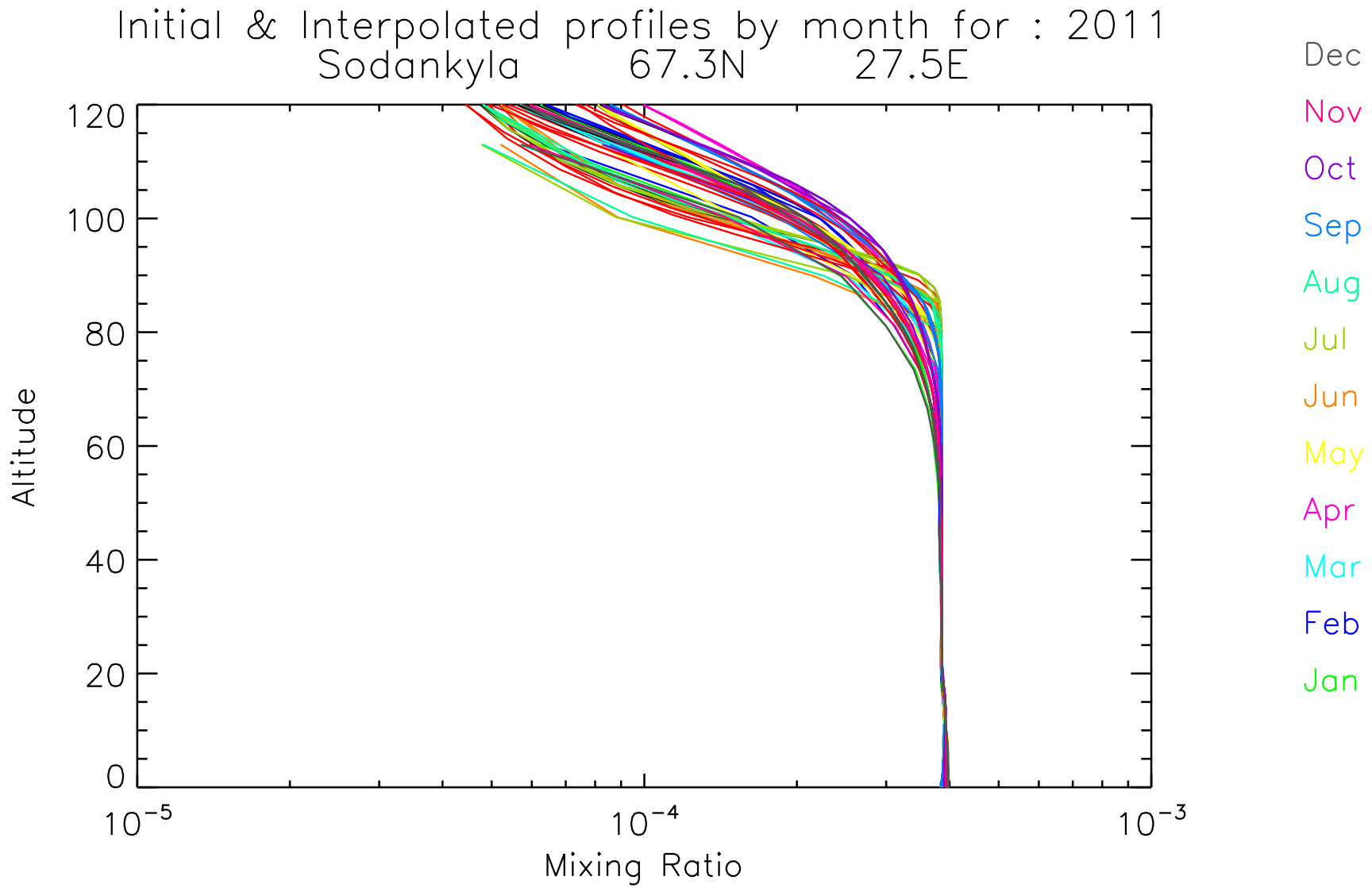
Initial & Interpolated profiles by month for : 2011
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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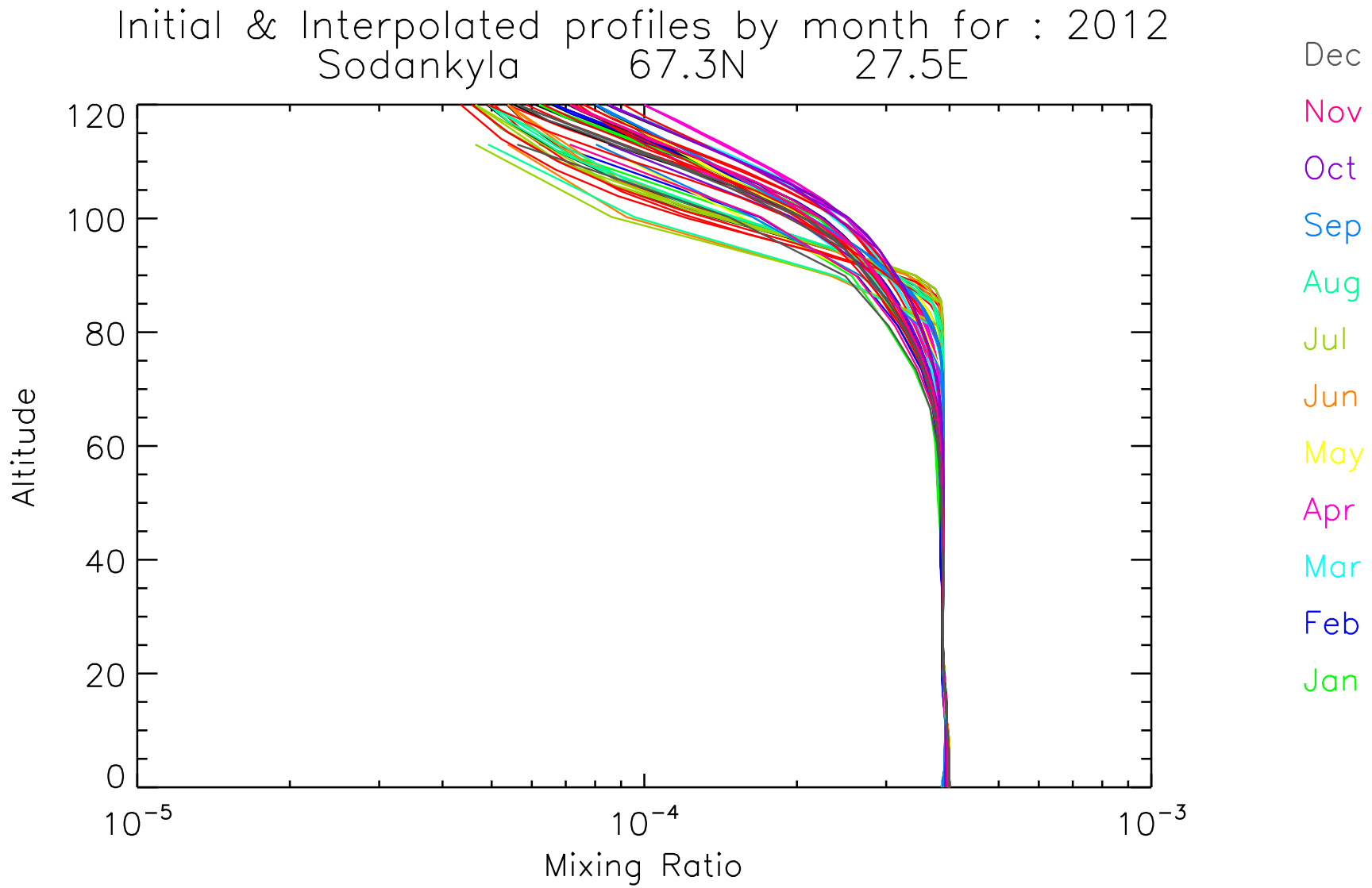
Initial & Interpolated profiles by month for : 2012
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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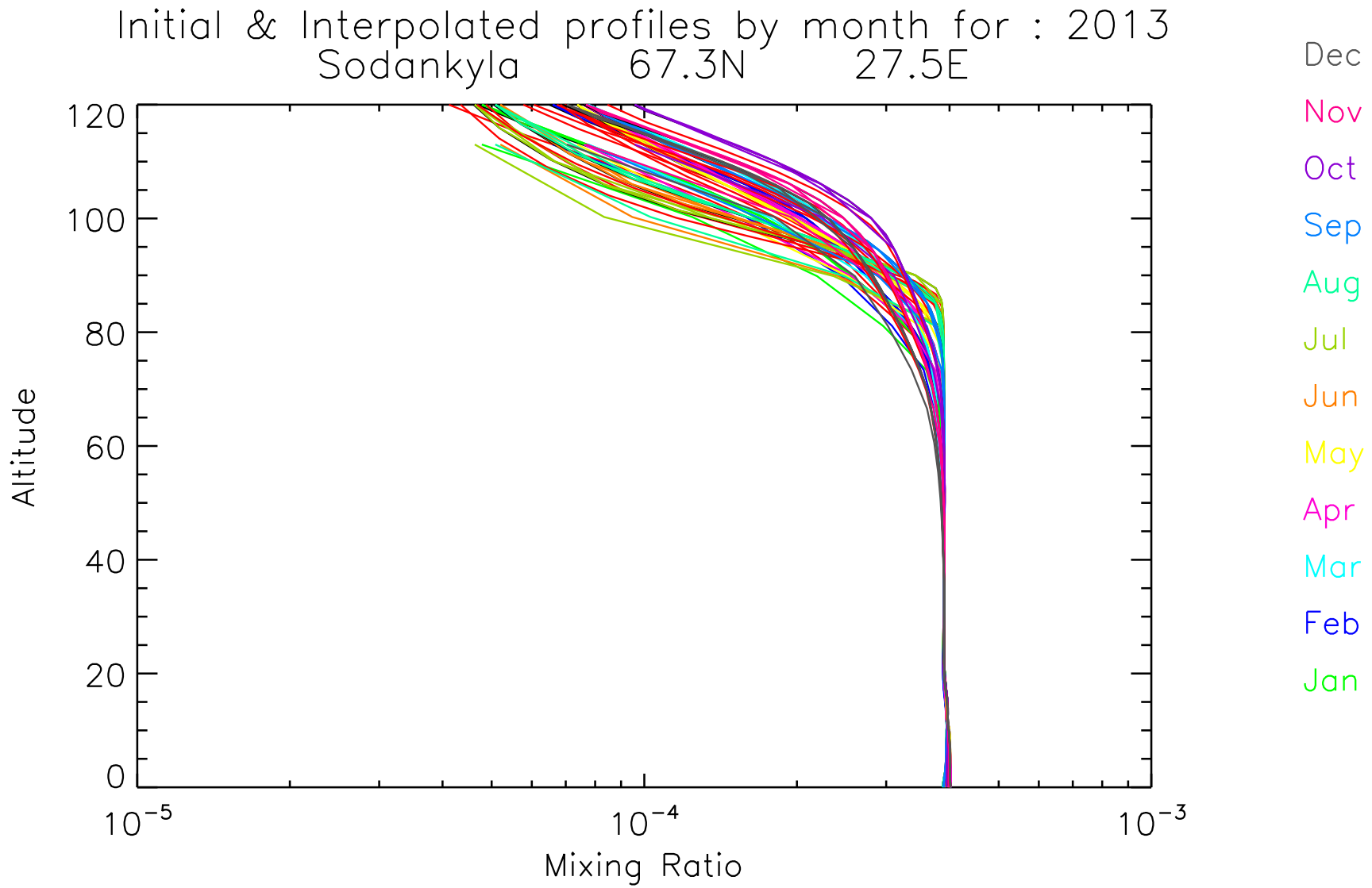
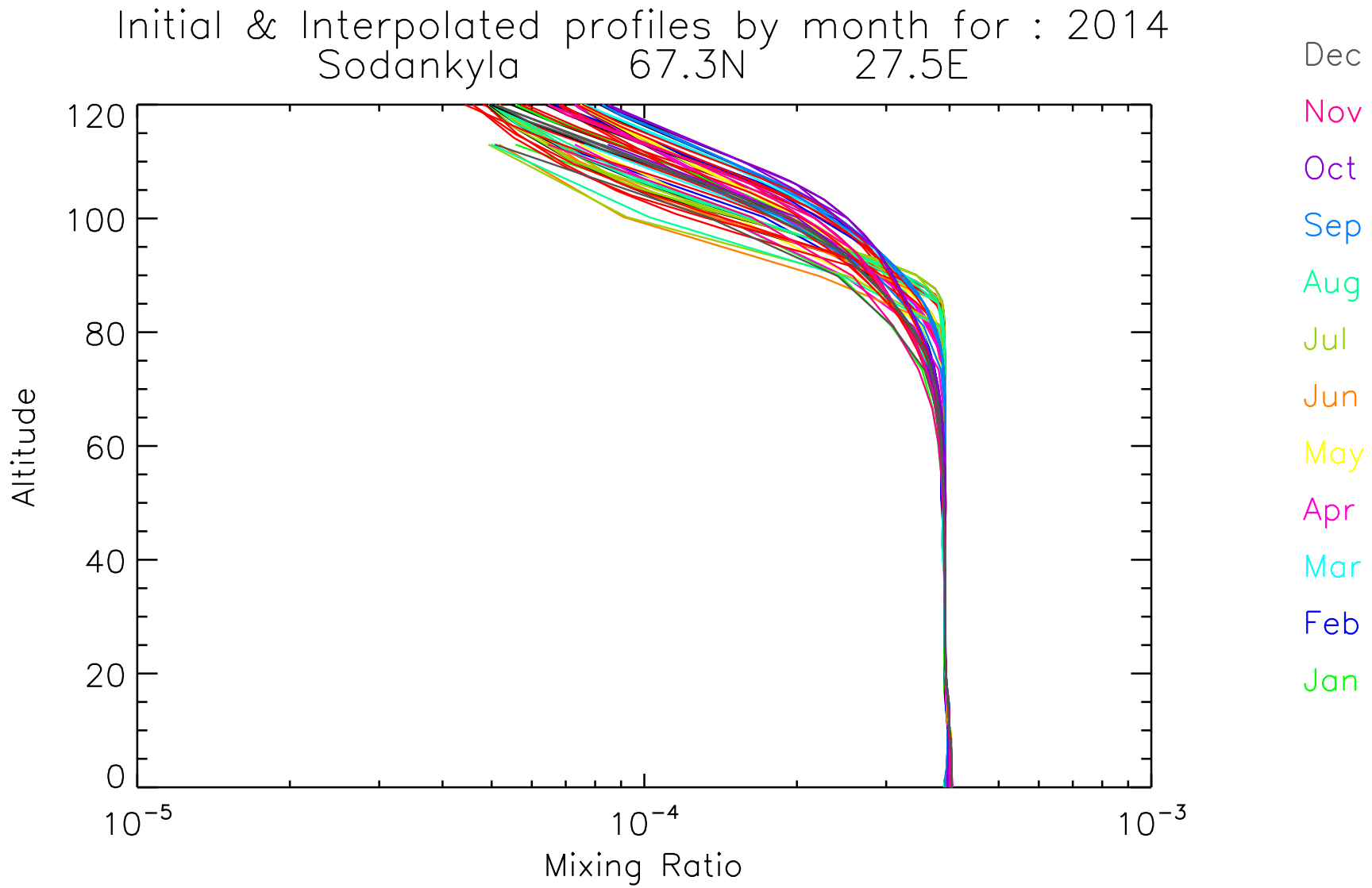
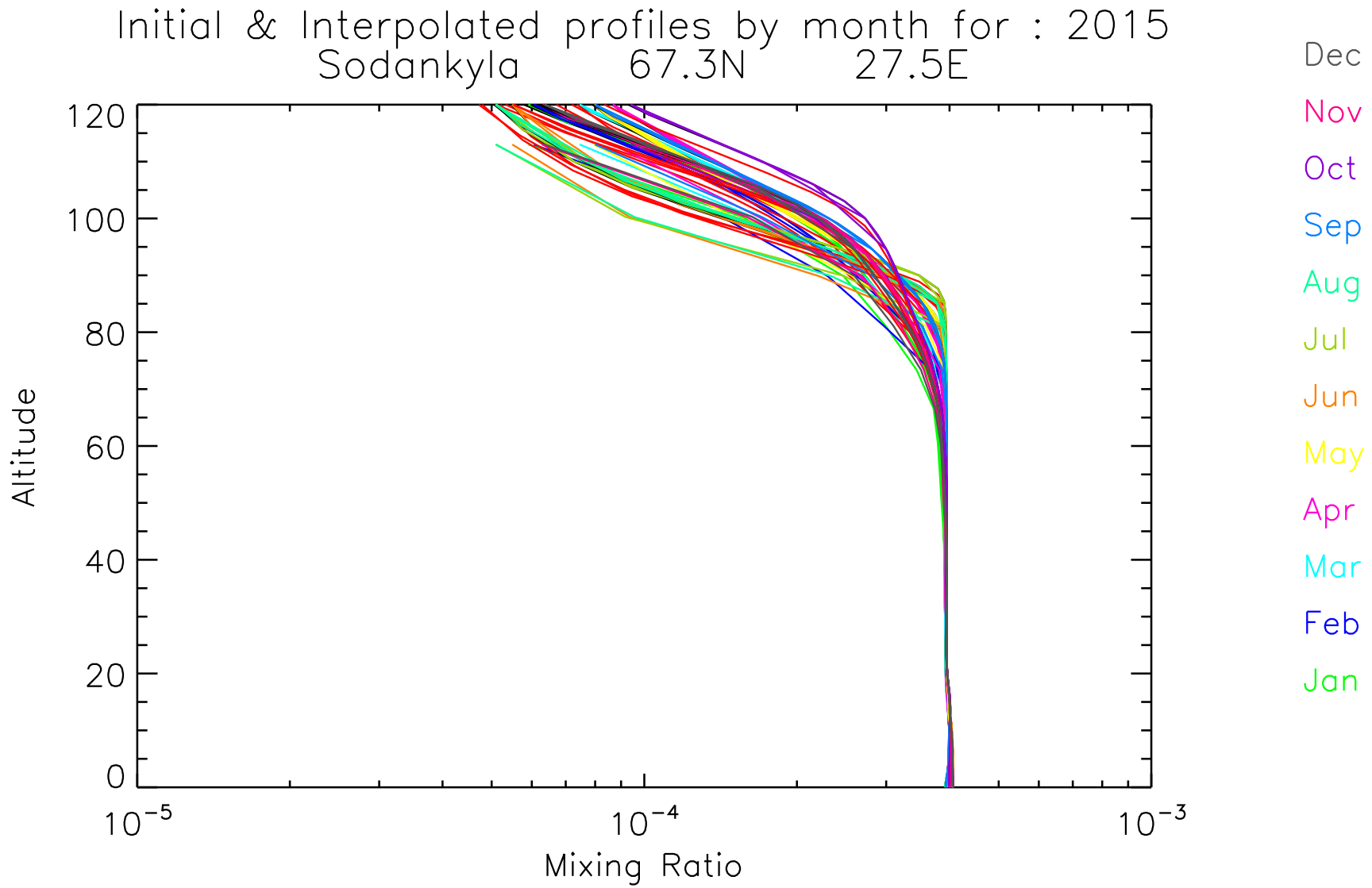
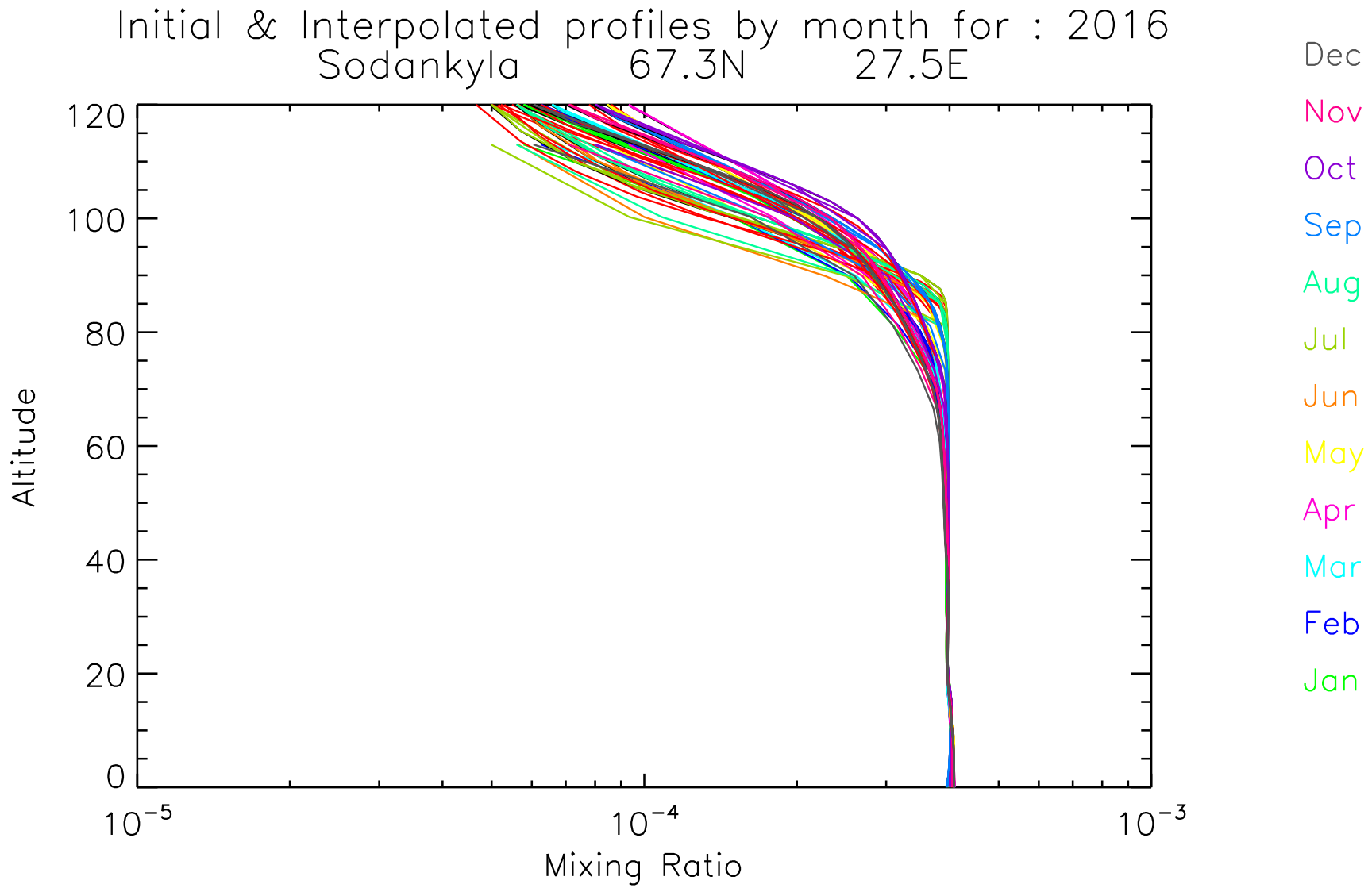
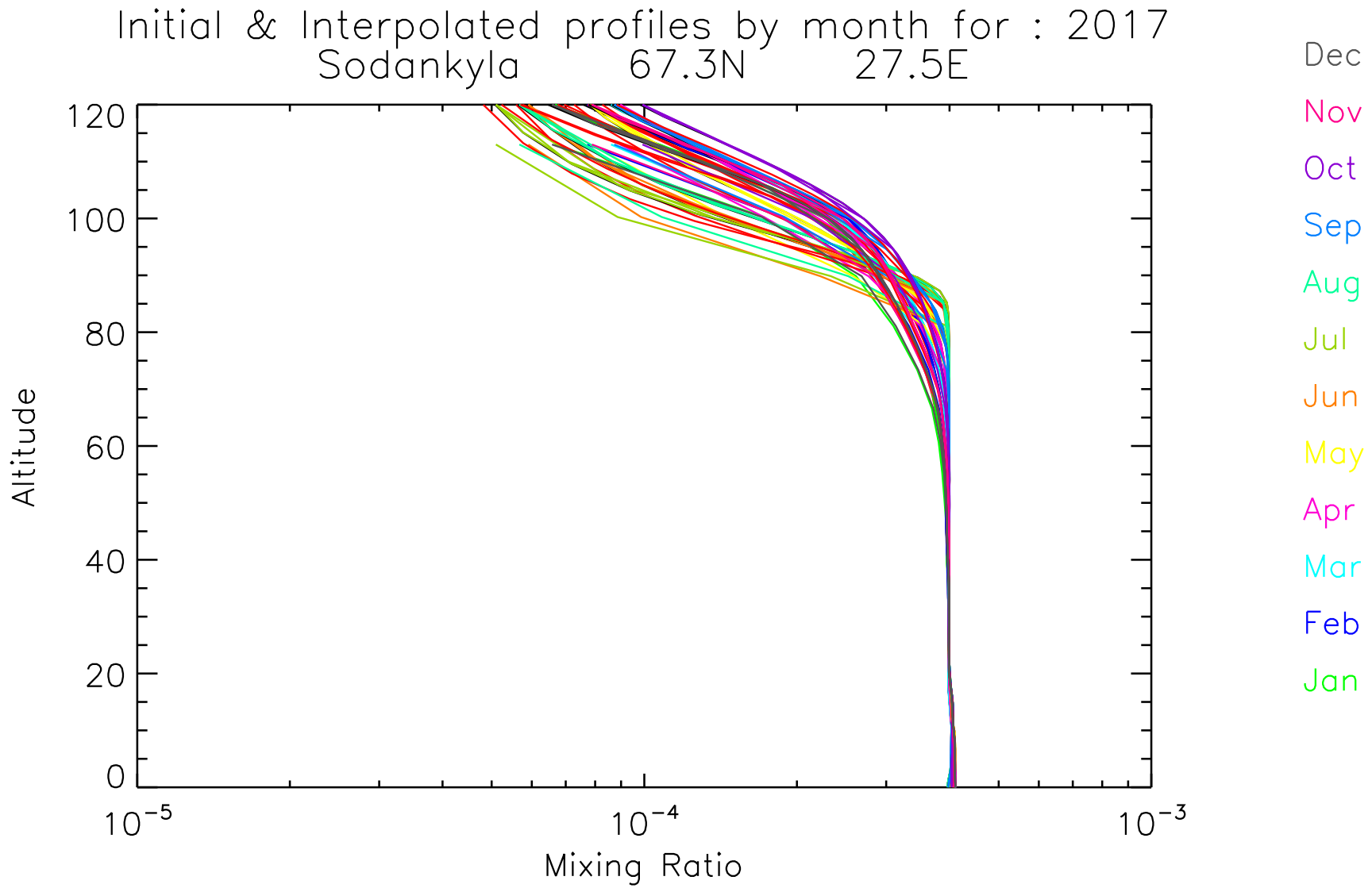
Jan

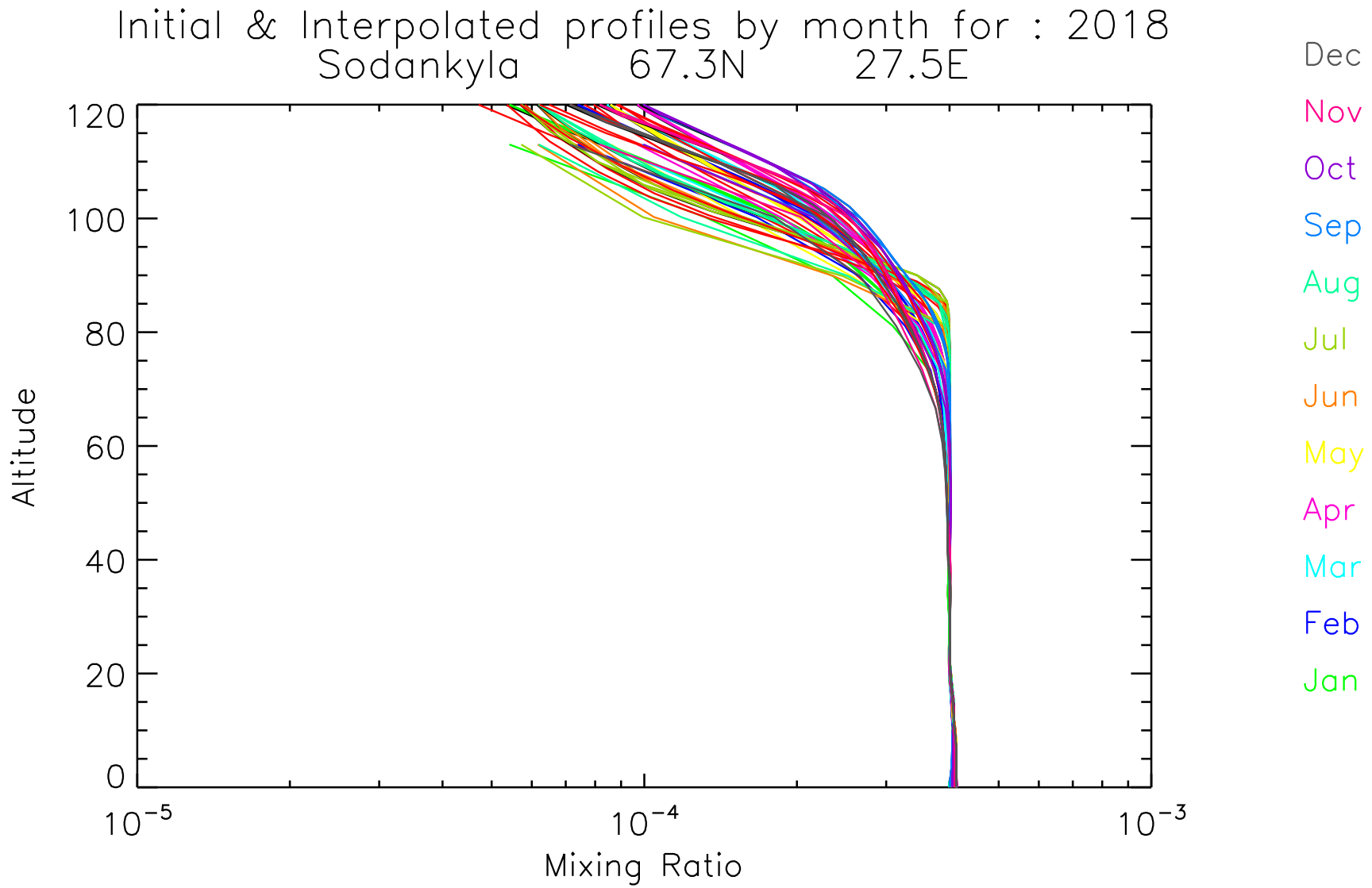

Initial & Interpolated profiles by month for : 2013
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

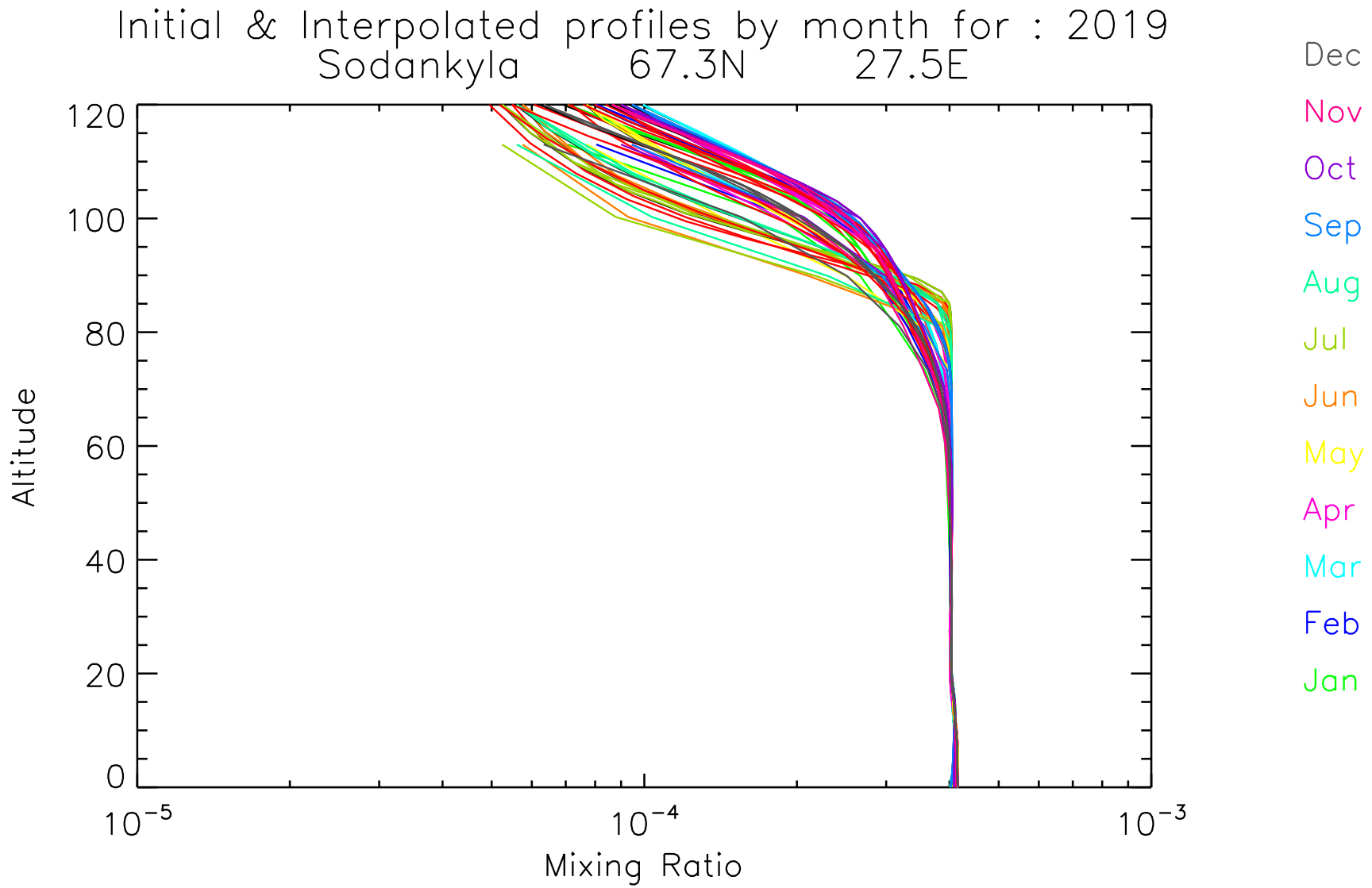

Initial & Interpolated profiles by month for : 2014
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

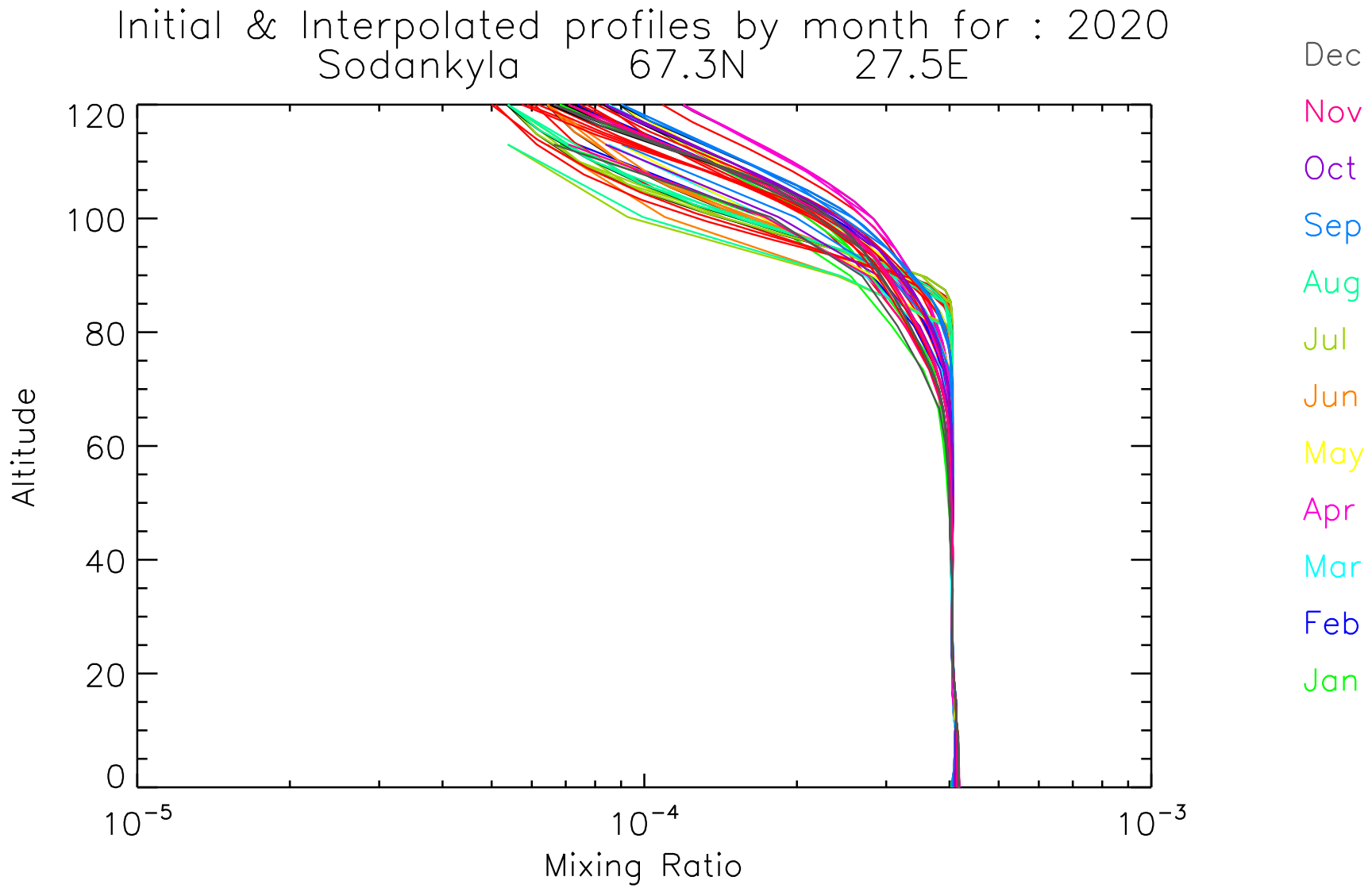

Initial & Interpolated profiles by month for : 2015
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

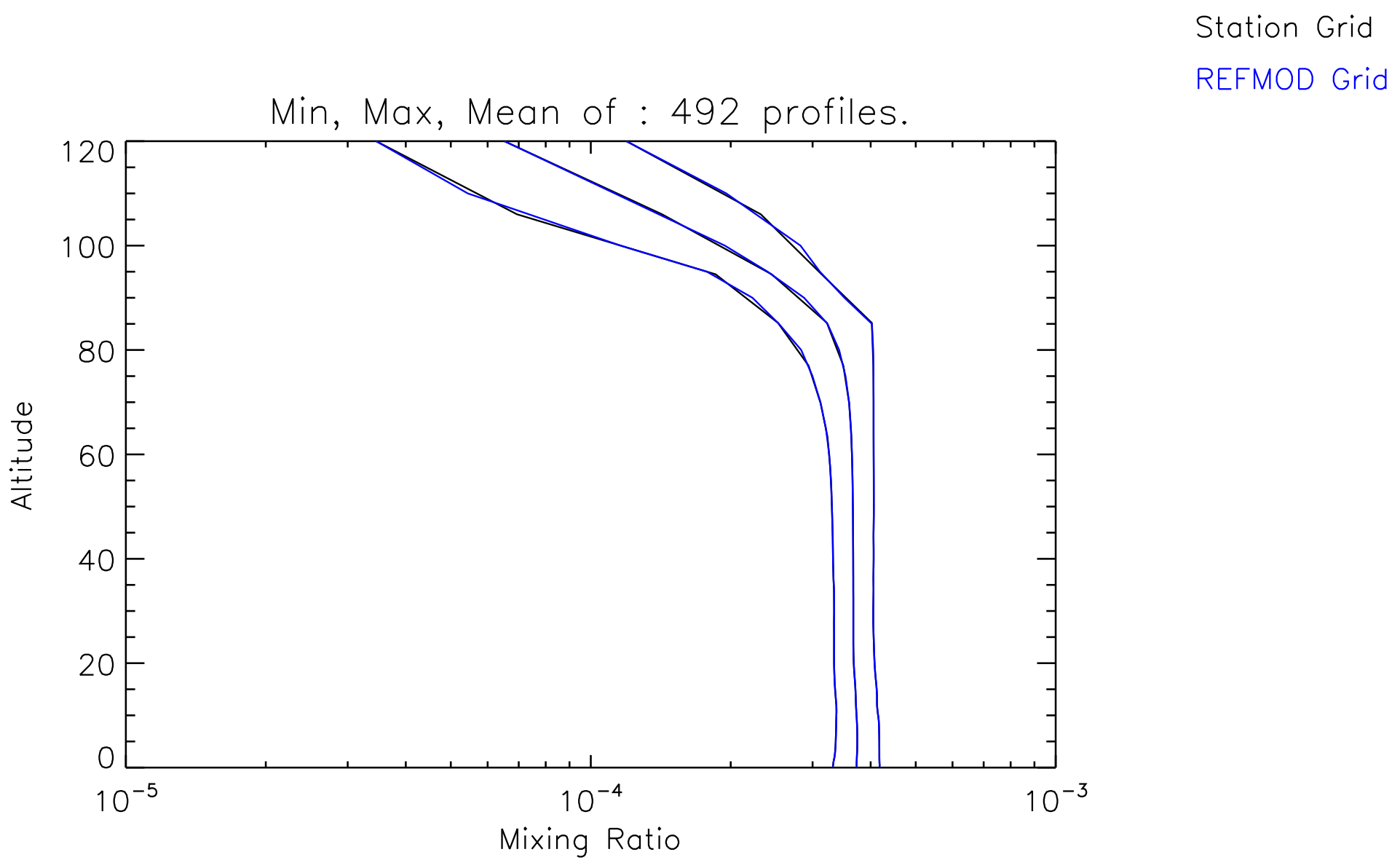

Initial & Interpolated profiles by month for : 2016
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

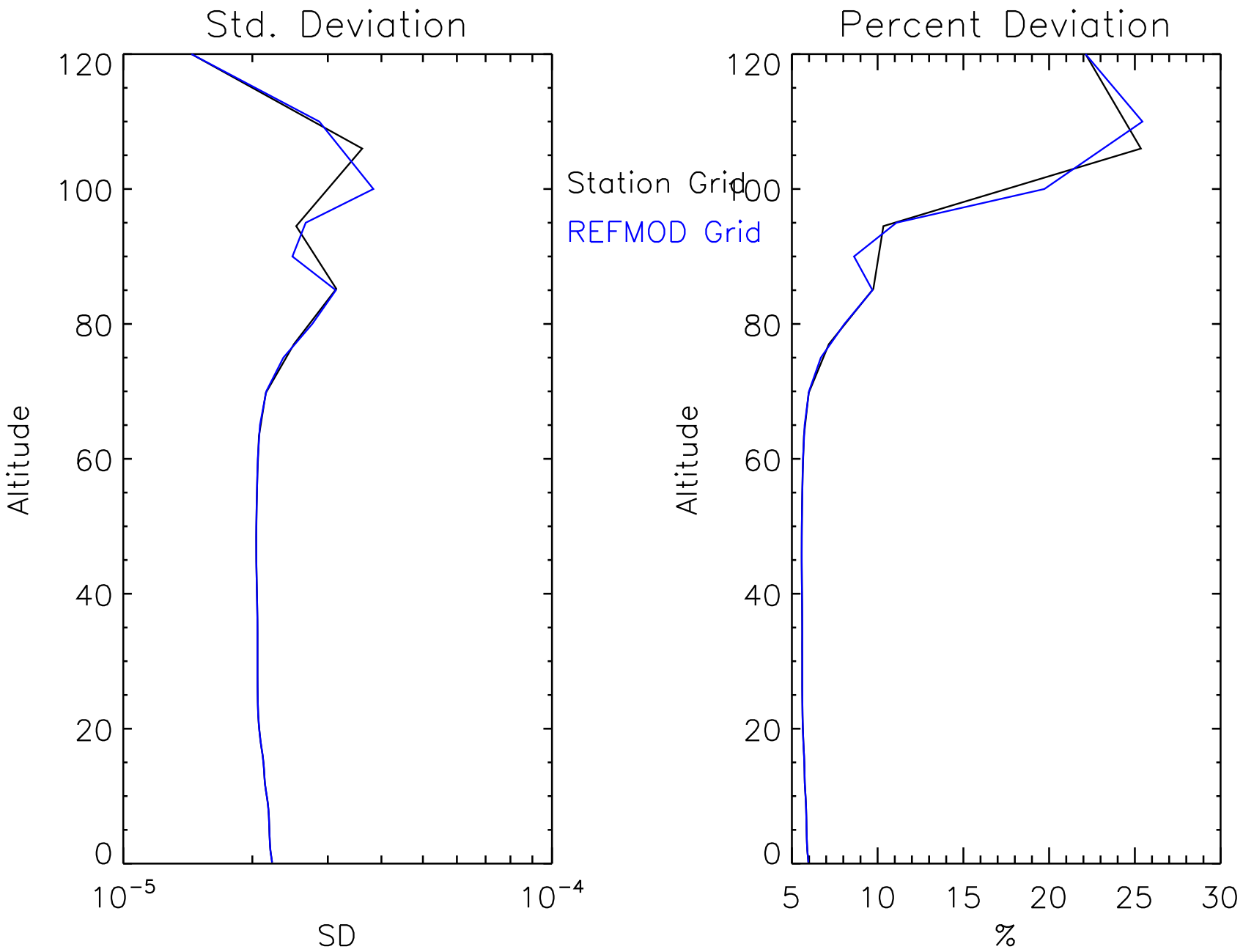

Initial & Interpolated profiles by month for : 2017
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

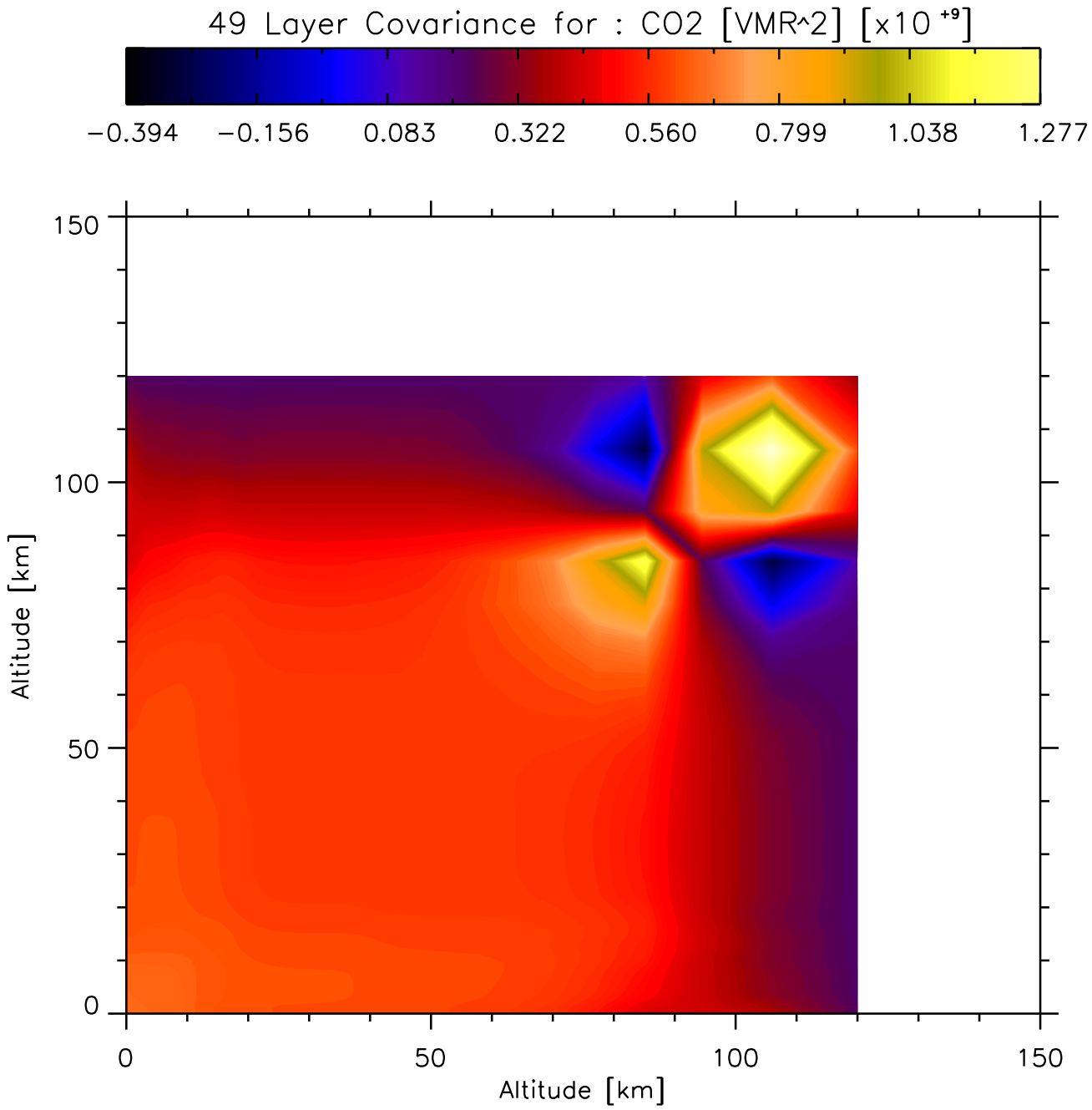

Initial & Interpolated profiles by month for : 2018
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2019
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

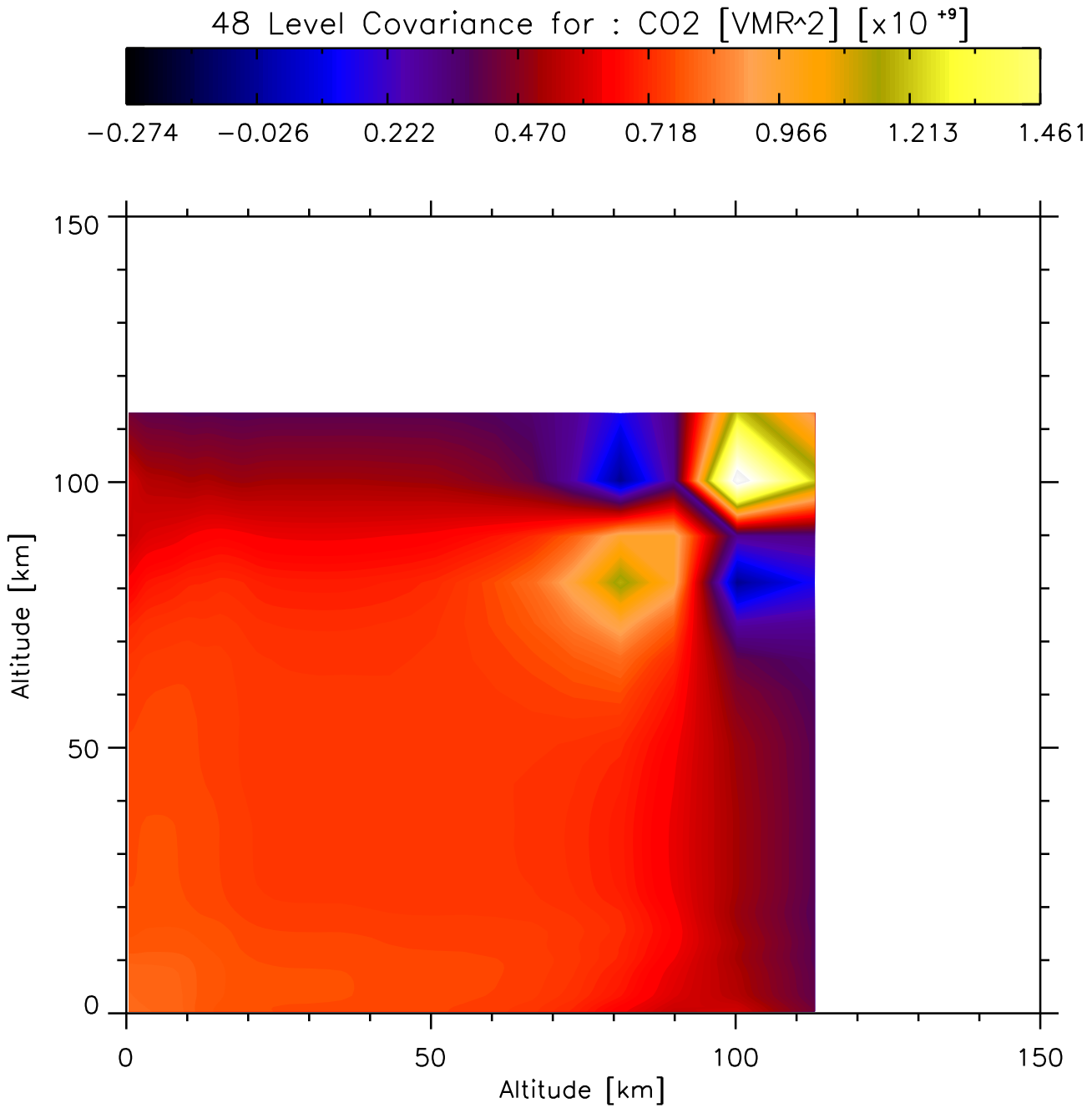

Initial & Interpolated profiles by month for : 2020
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
SD
5
10
15
20
25
30
%


49 Layer Covariance for : CO2 [VMR^2] [x10 +9]
−0.394
−0.156
0.083
0.322
0.560
0.799
1.038
1.277
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : CO2 [VMR^2] [x10^-9]
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Y Altitude
0
10
20
30
40
50
X Altitude
0
50
100
150


48 Level Covariance for : CO2 [VMR^2] [x10 +9]
−0.274
−0.026
0.222
0.470
0.718
0.966
1.213
1.461
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : CO2 [VMR^2] [x10^-9]
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Y Altitude
0
50
100
150
X Altitude
0
50
100
150