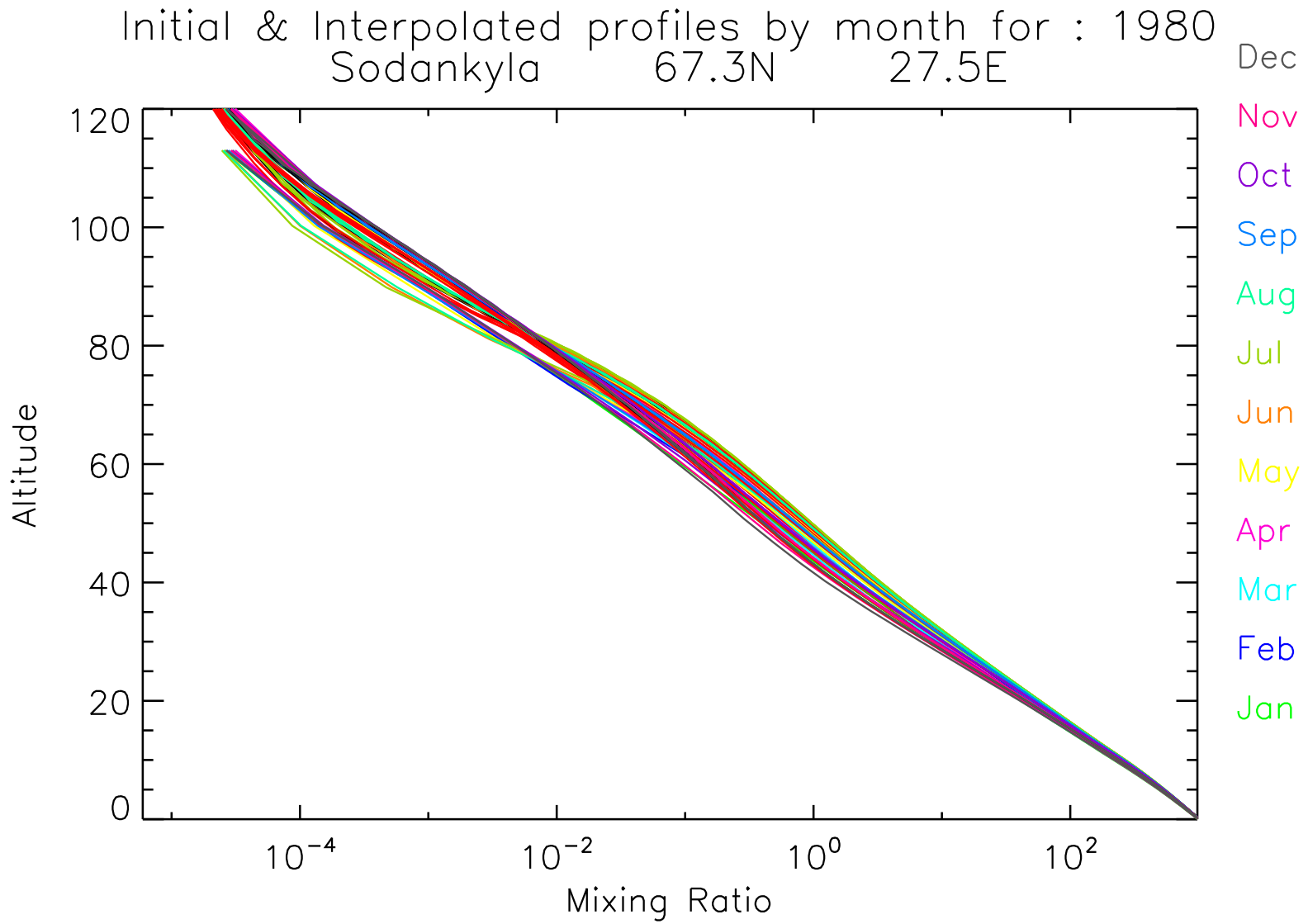
Initial & Interpolated profiles by month for : 1980
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Altitude
120
100
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0
10^{-4}
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Mixing Ratio
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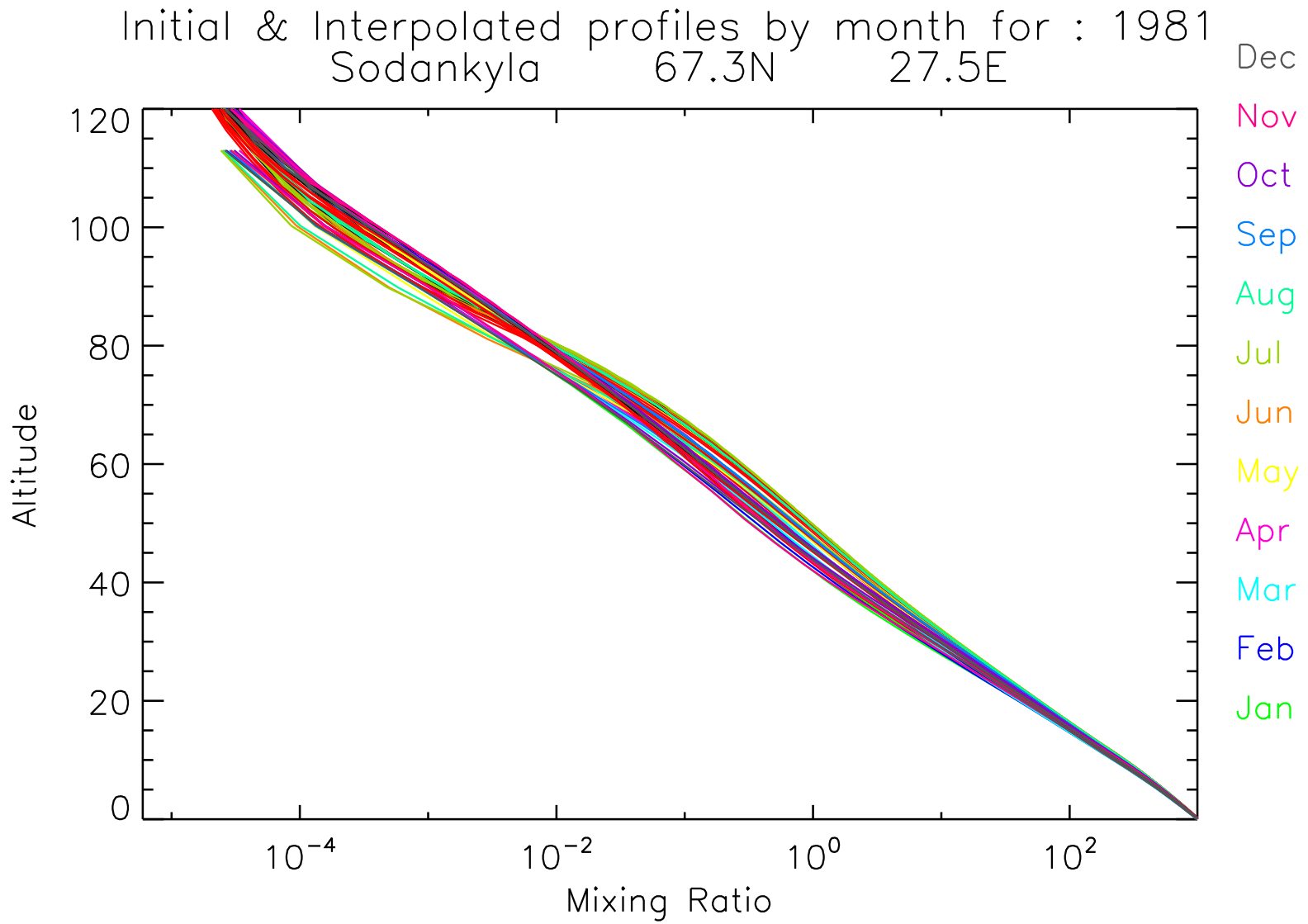
Initial & Interpolated profiles by month for : 1981
Sodankyla 67.3N 27.5E
Dec
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Altitude
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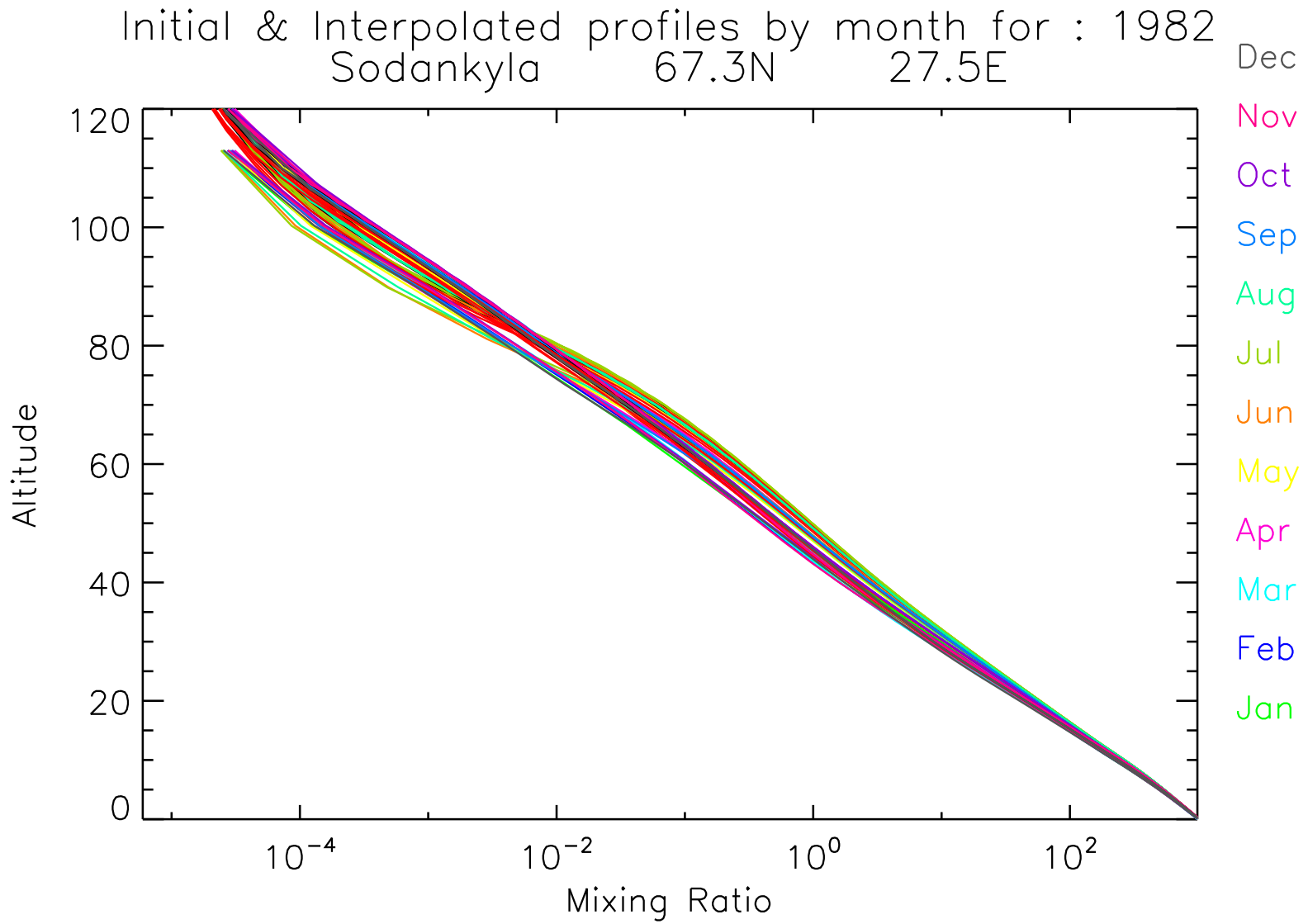
10^{0}
10^{2}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
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Altitude
120
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10^{-4}
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Mixing Ratio
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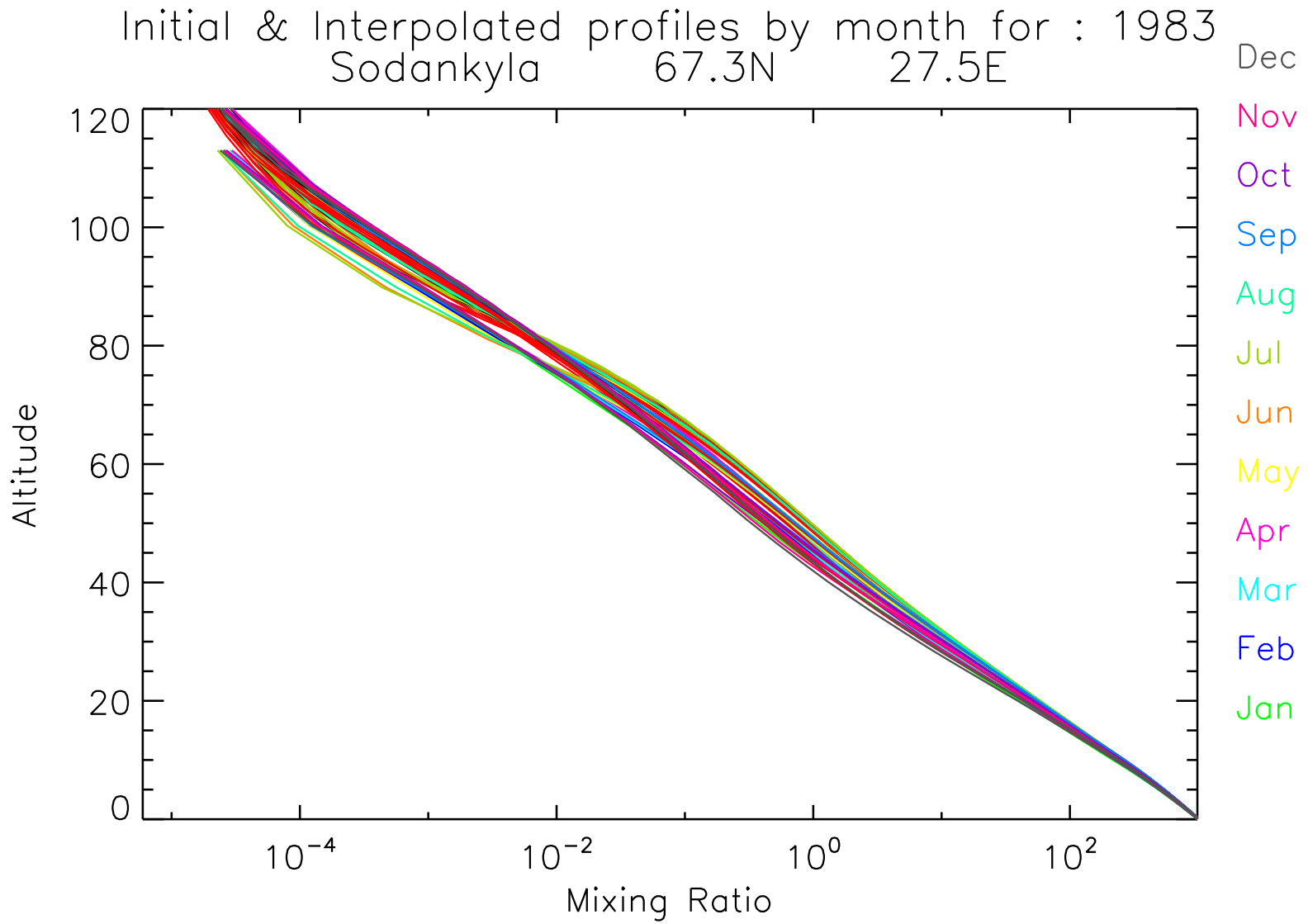
Initial & Interpolated profiles by month for : 1983
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Altitude
120
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Mixing Ratio
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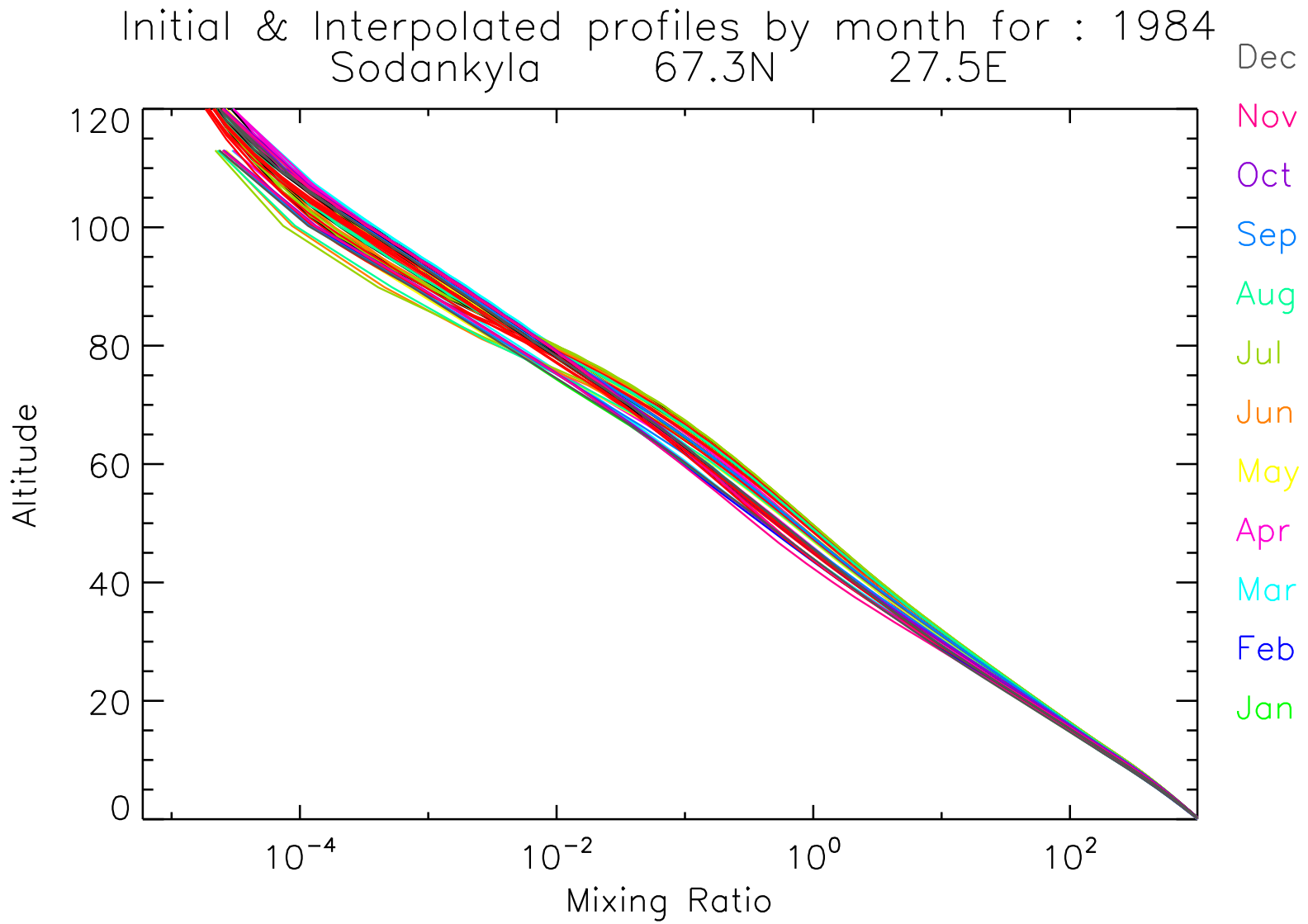
Initial & Interpolated profiles by month for : 1984
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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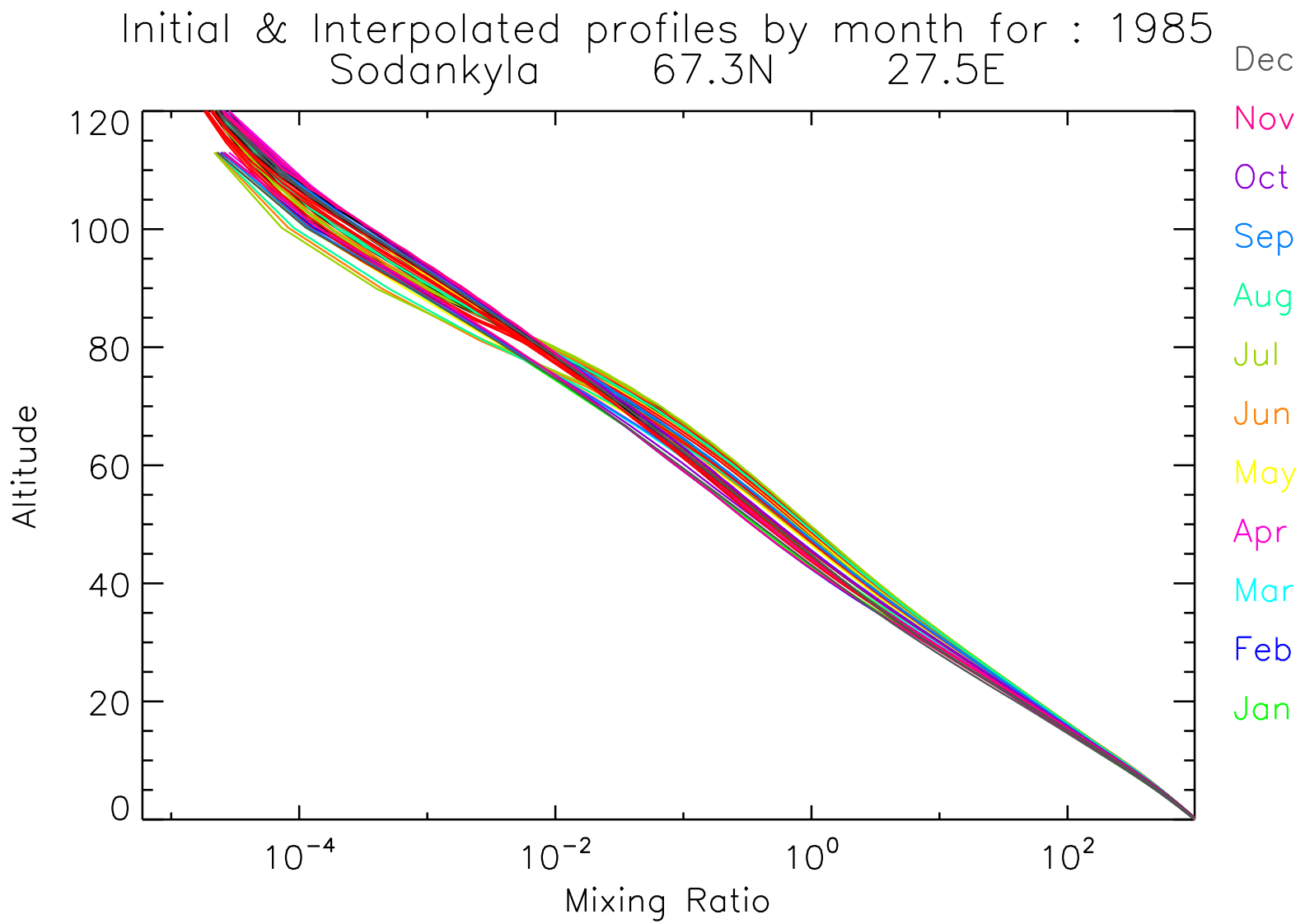
Initial & Interpolated profiles by month for : 1985
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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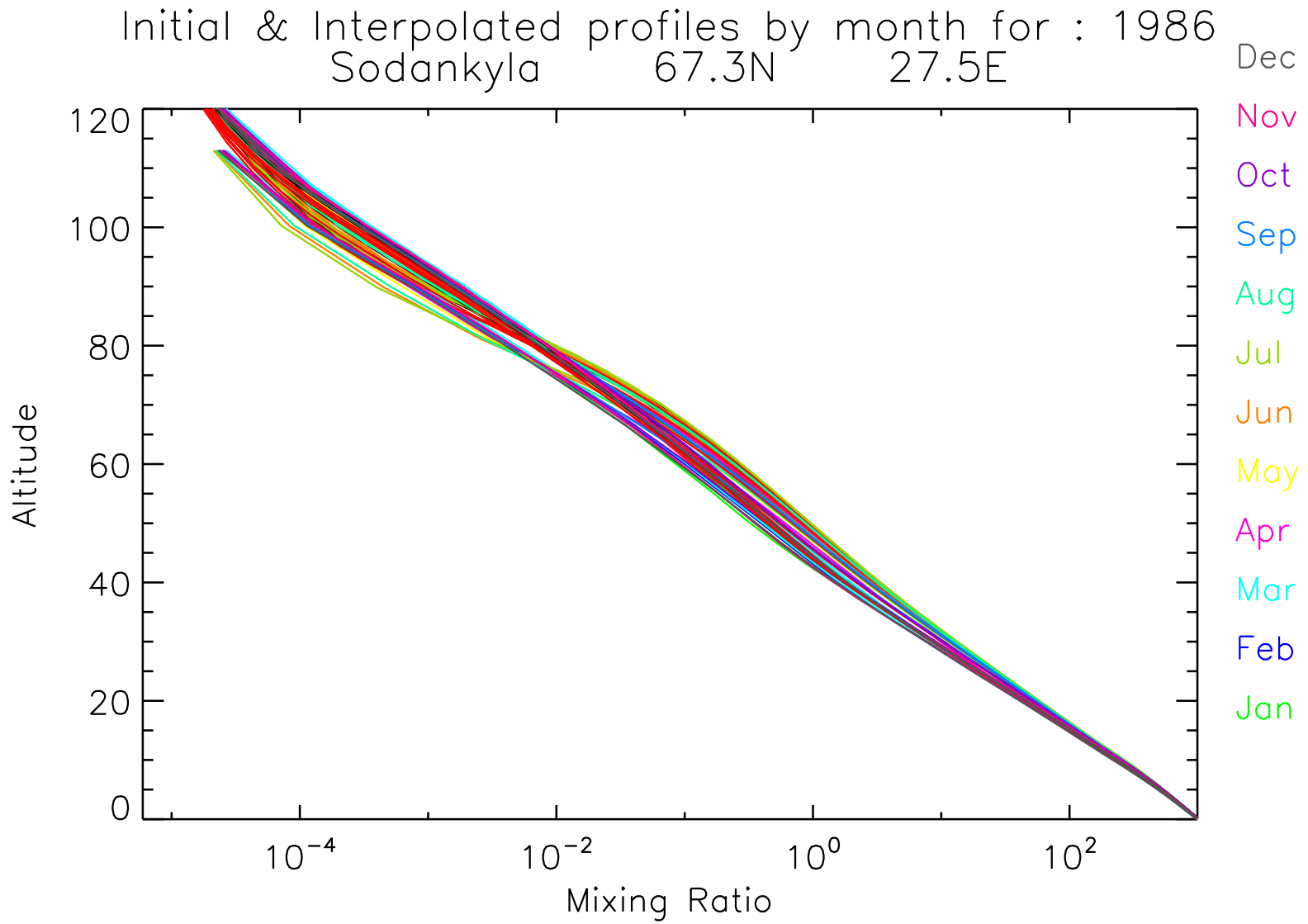
Initial & Interpolated profiles by month for : 1986
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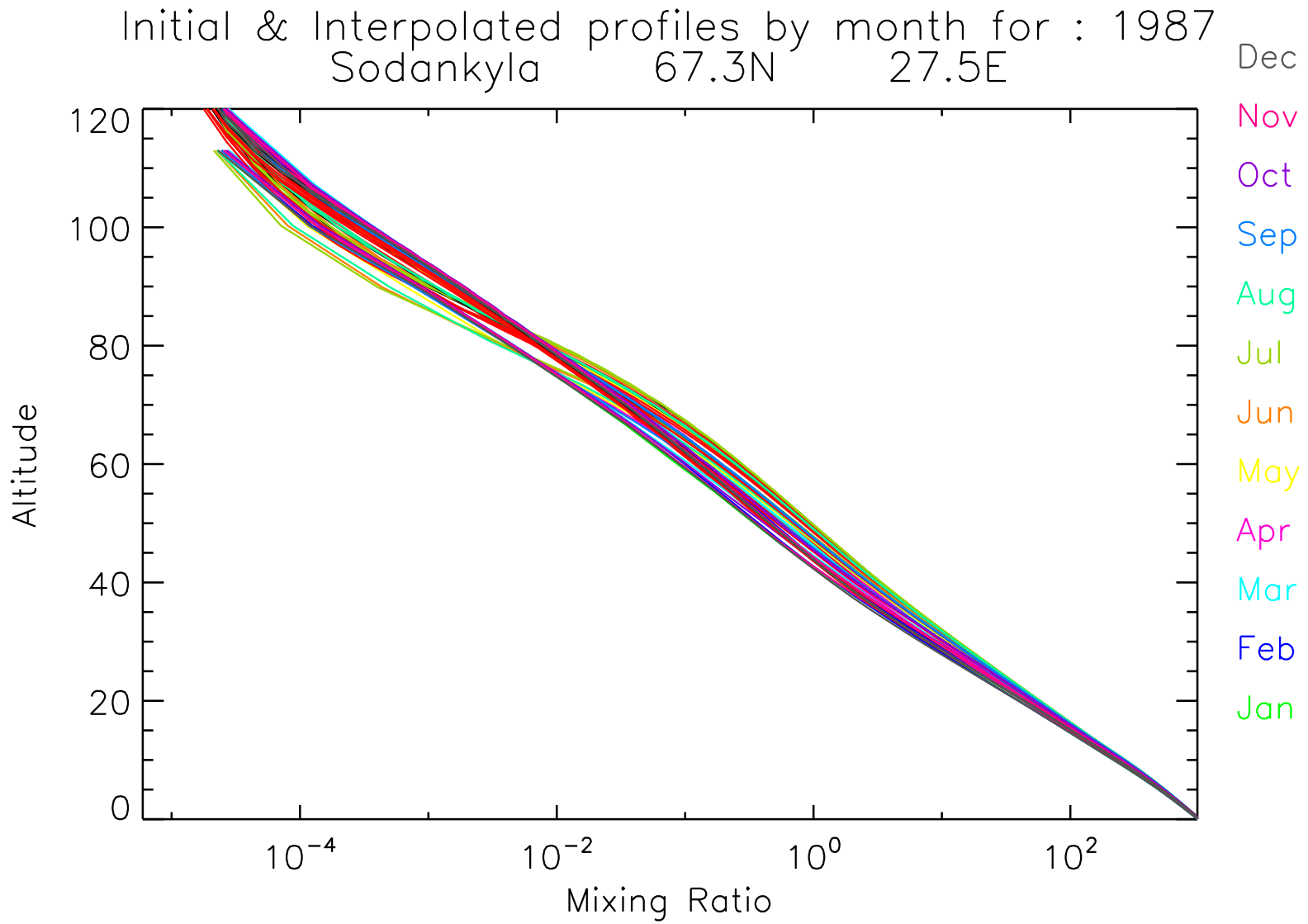
10^{2}
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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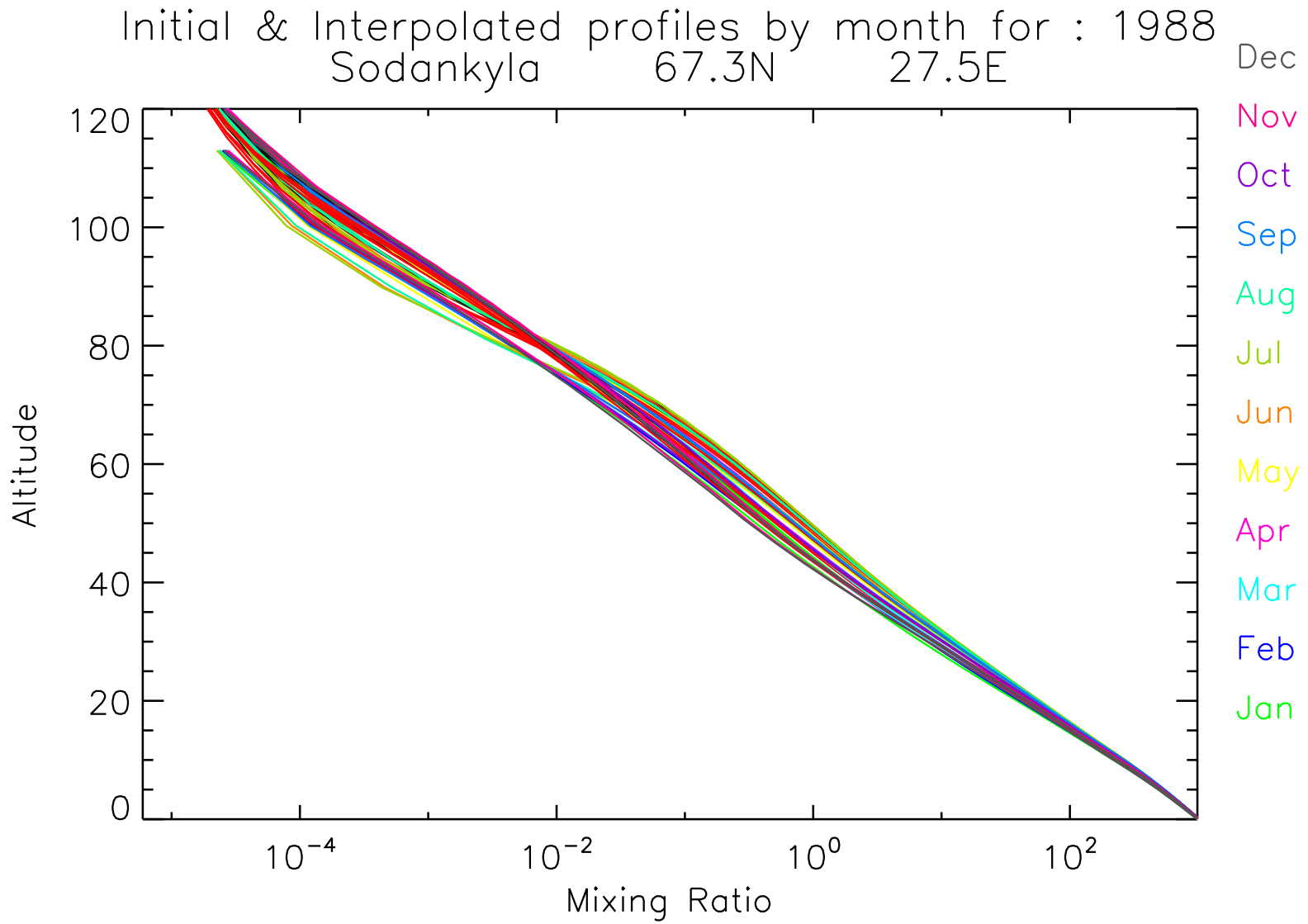
Initial & Interpolated profiles by month for : 1988
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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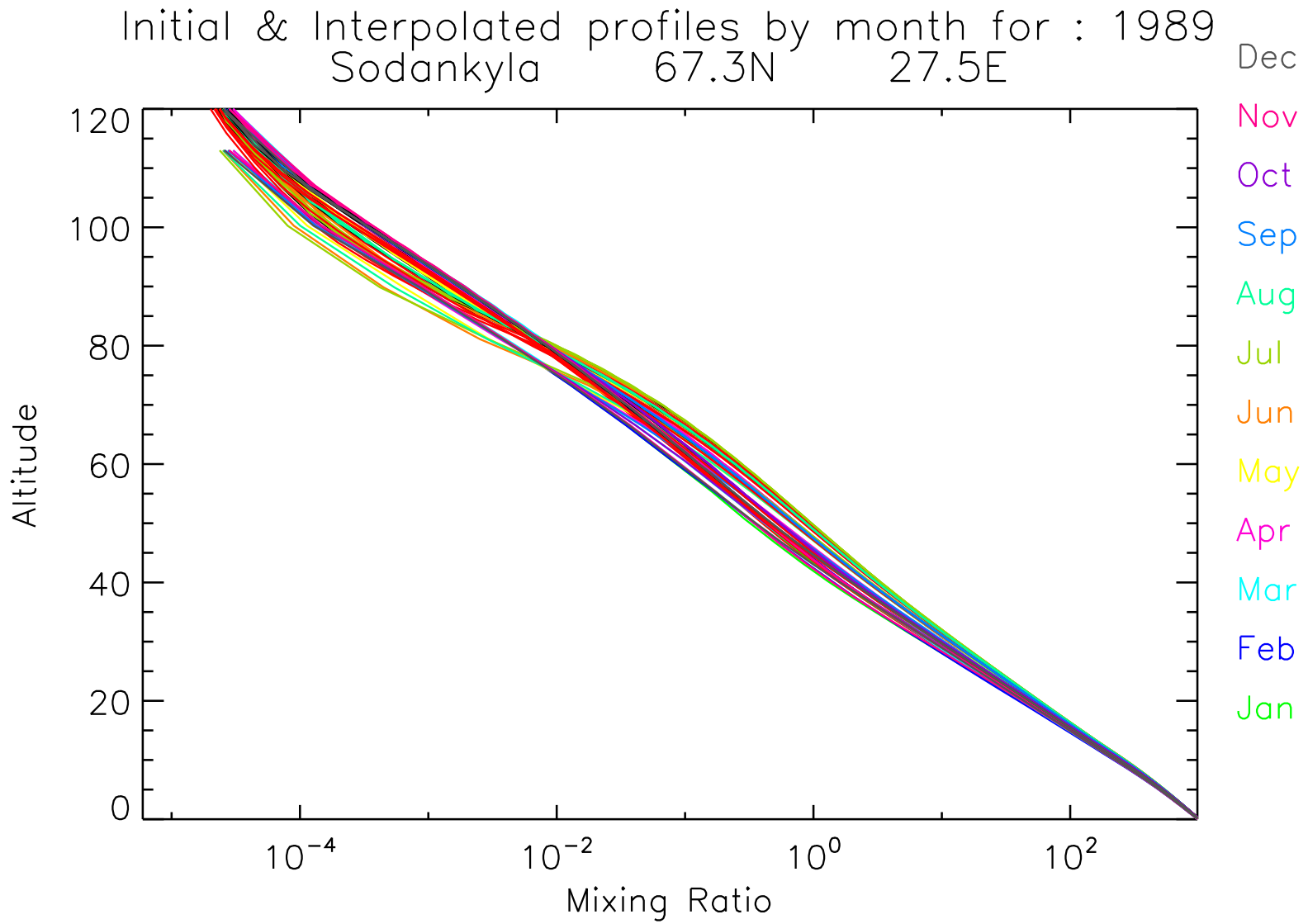
Initial & Interpolated profiles by month for : 1989
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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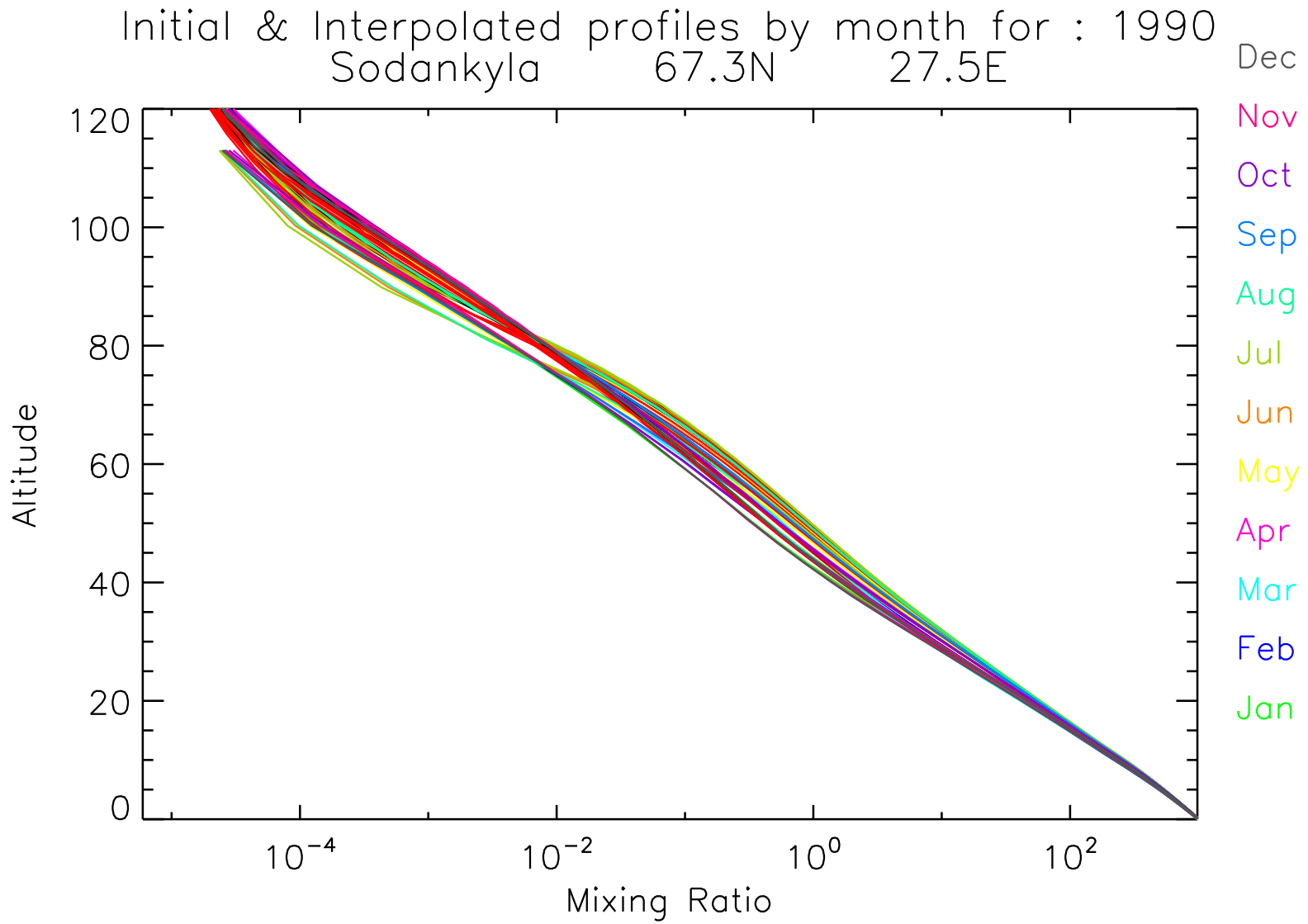
Initial & Interpolated profiles by month for : 1990
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Altitude
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Mixing Ratio
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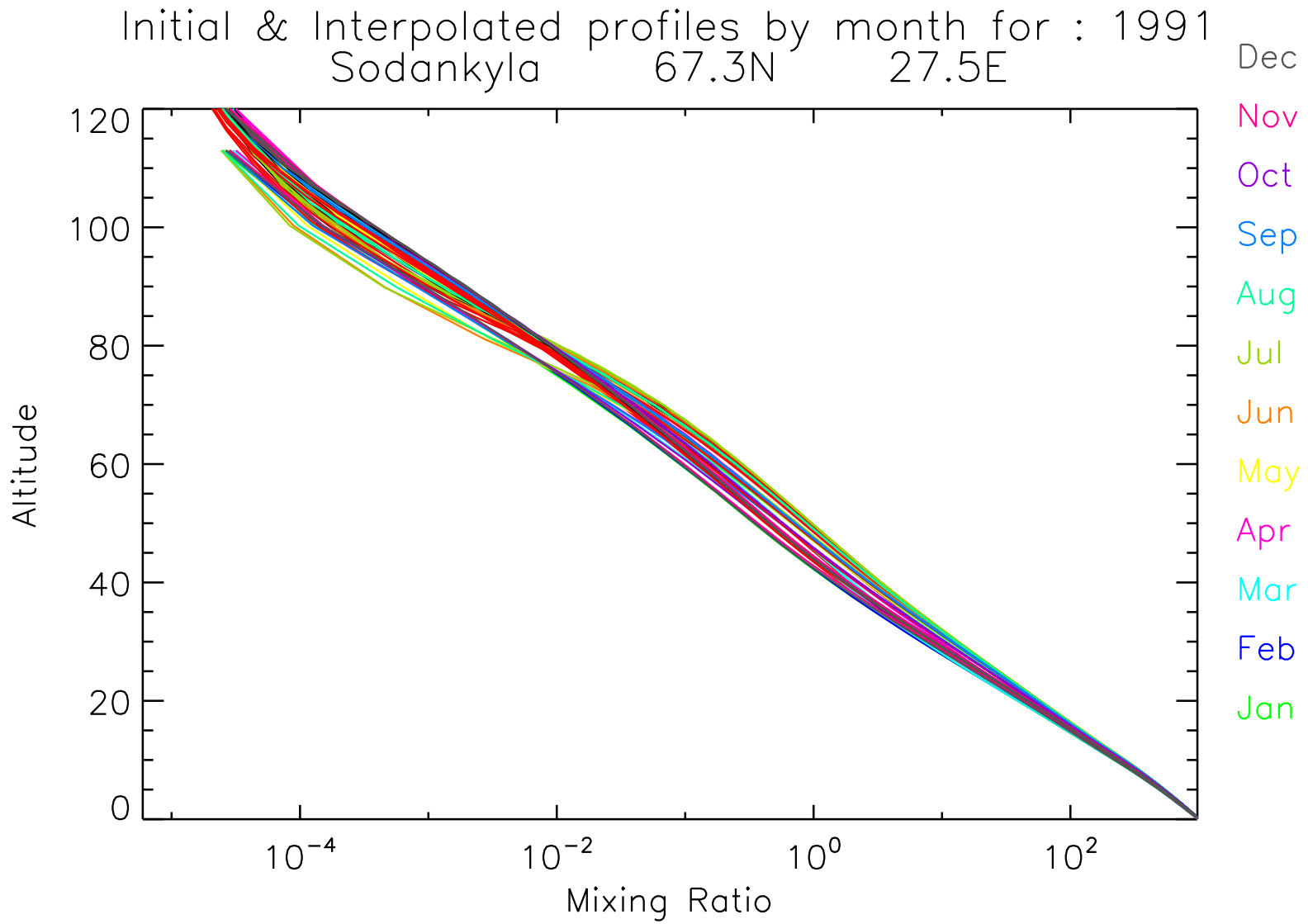
Initial & Interpolated profiles by month for : 1991
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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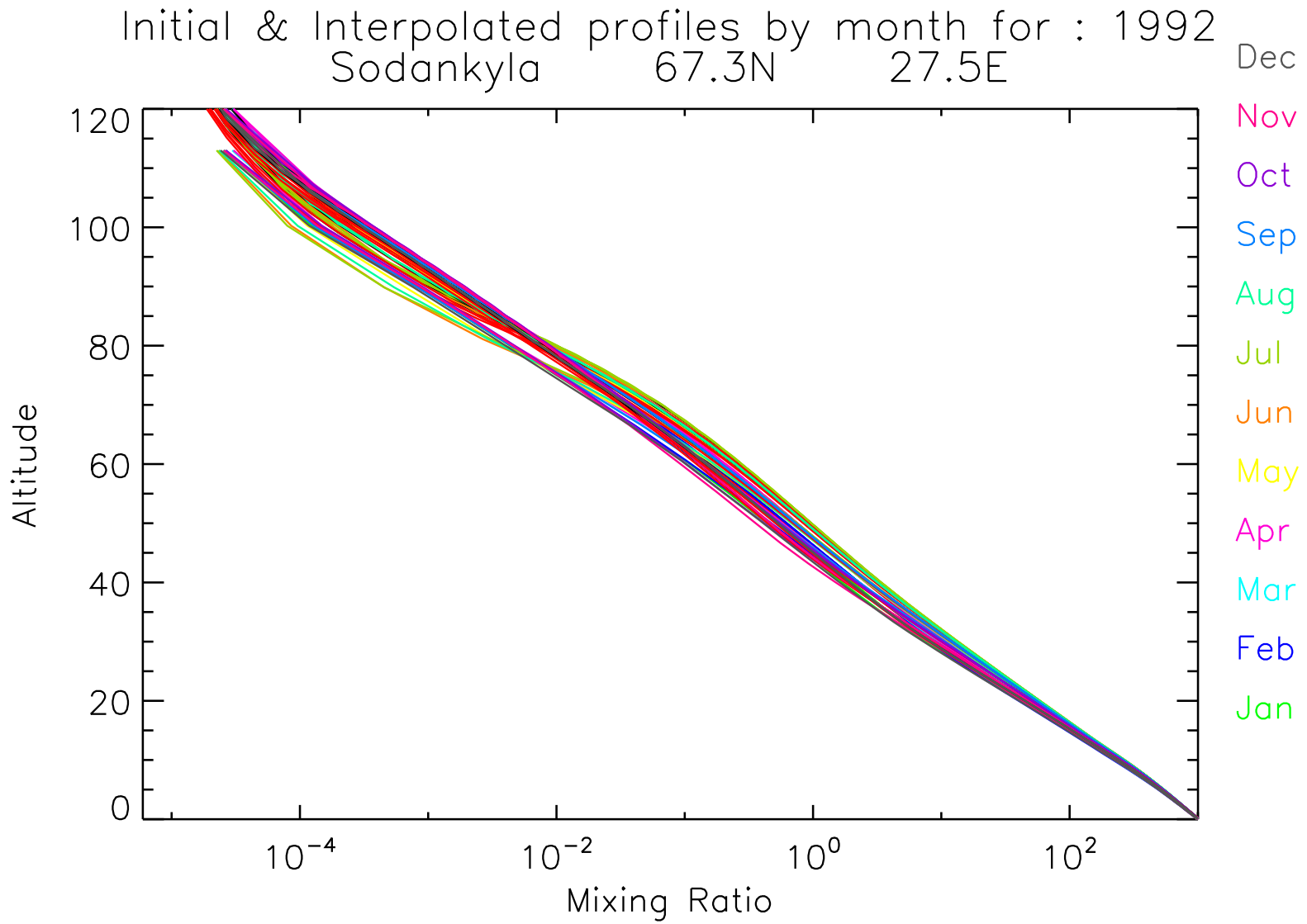
Initial & Interpolated profiles by month for : 1992
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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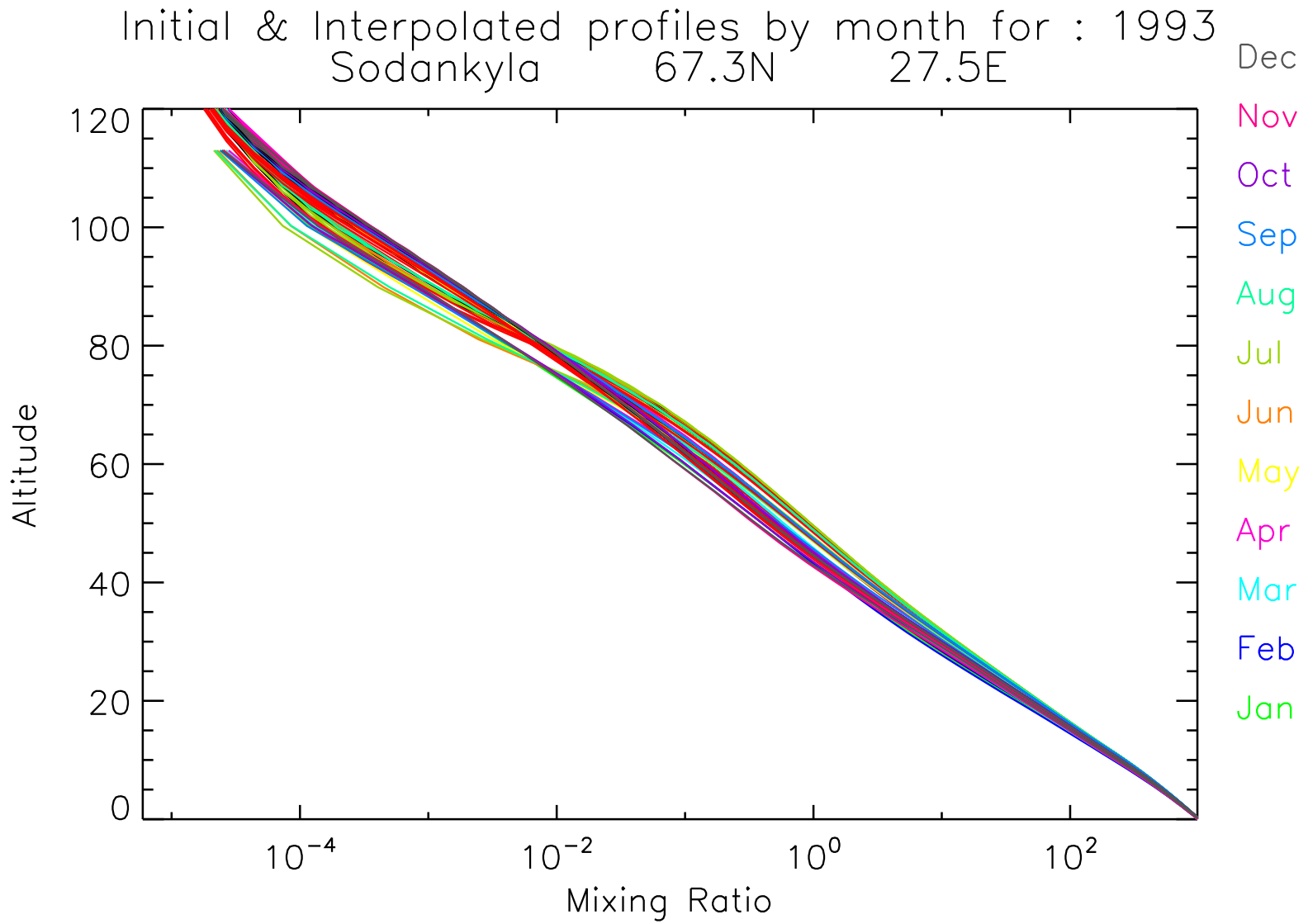
Initial & Interpolated profiles by month for : 1993
Sodankyla 67.3N 27.5E
Altitude
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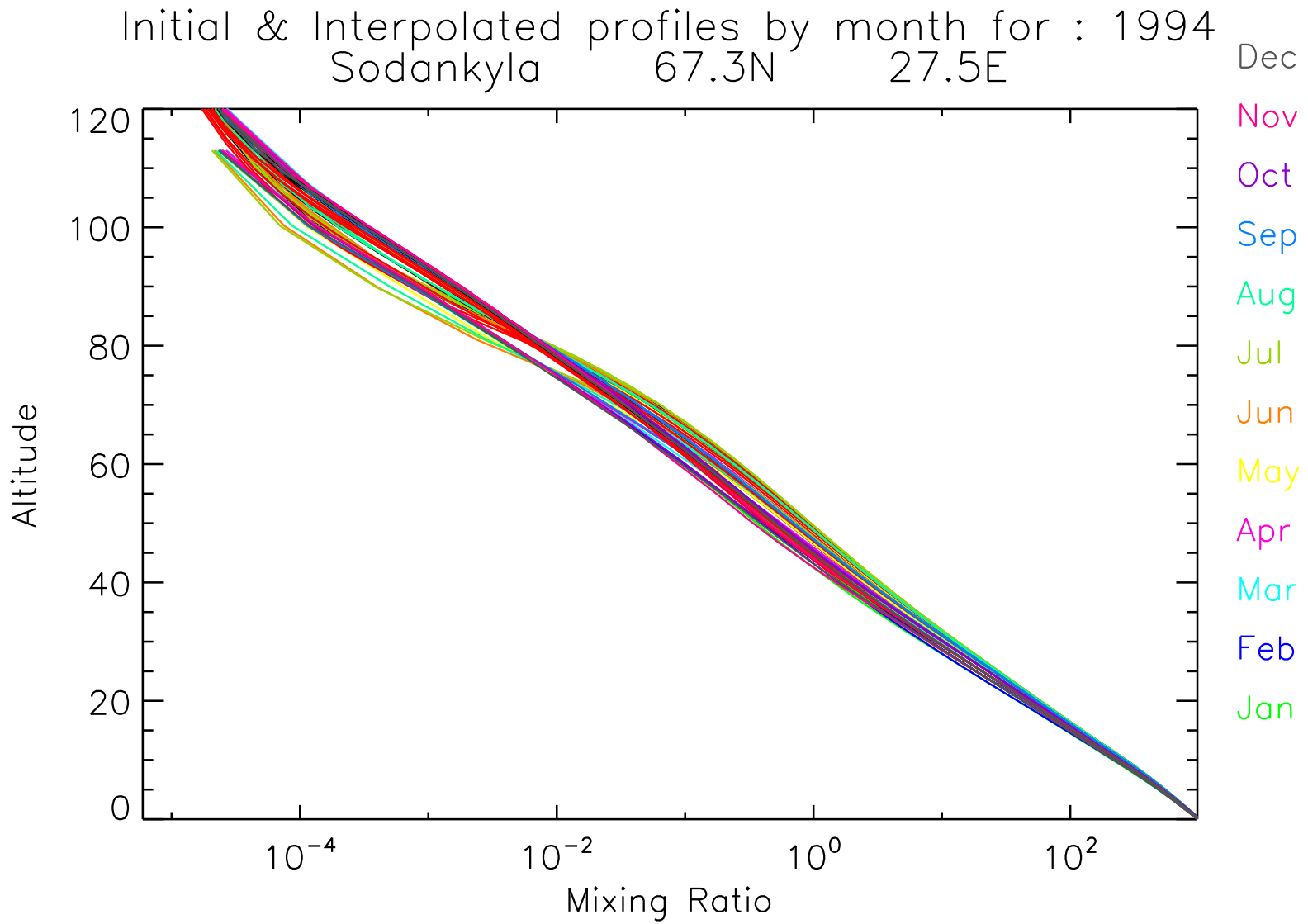
Initial & Interpolated profiles by month for : 1994
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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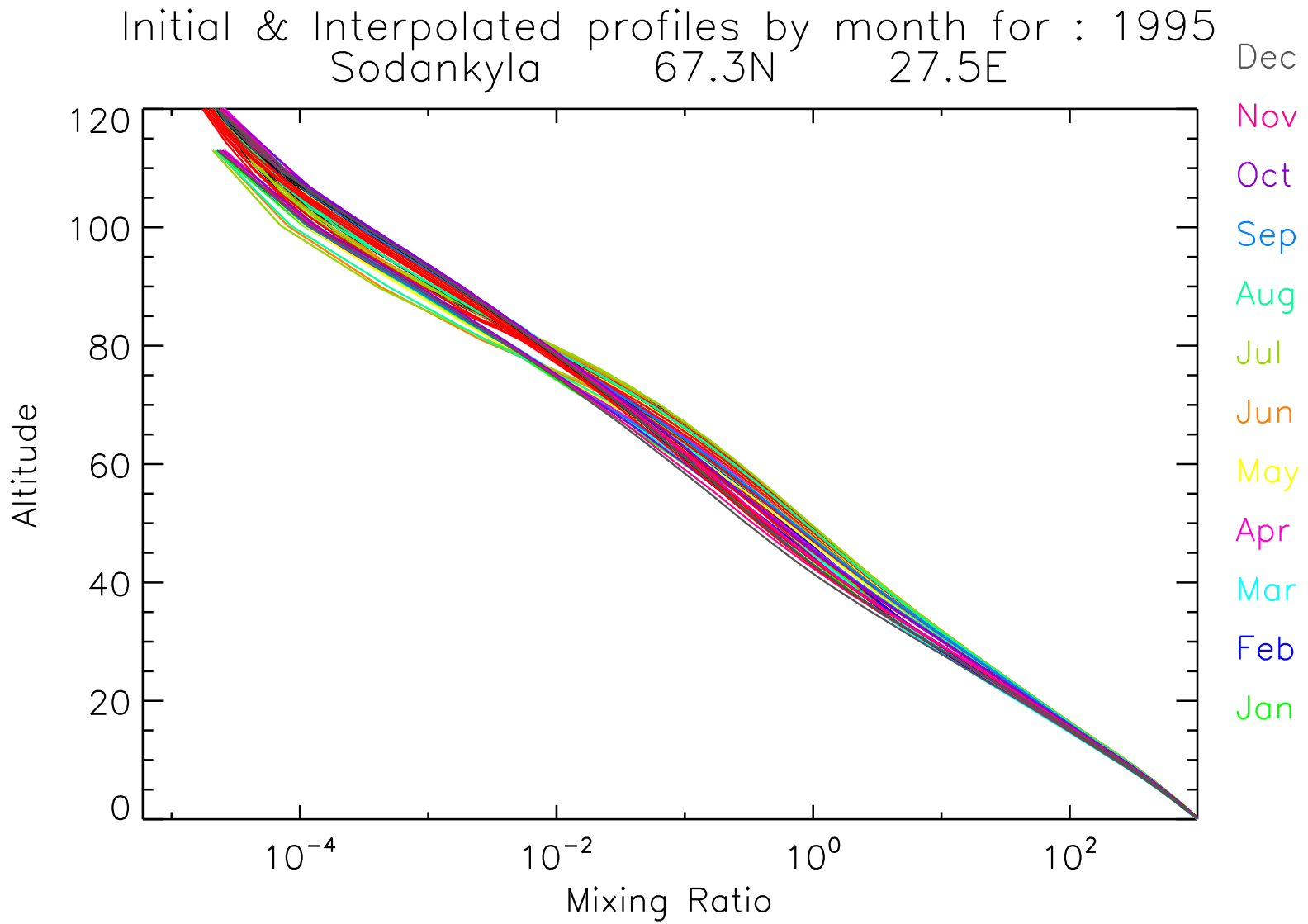
Initial & Interpolated profiles by month for : 1995
Sodankyla 67.3N 27.5E
Altitude
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10^{-4}
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Mixing Ratio
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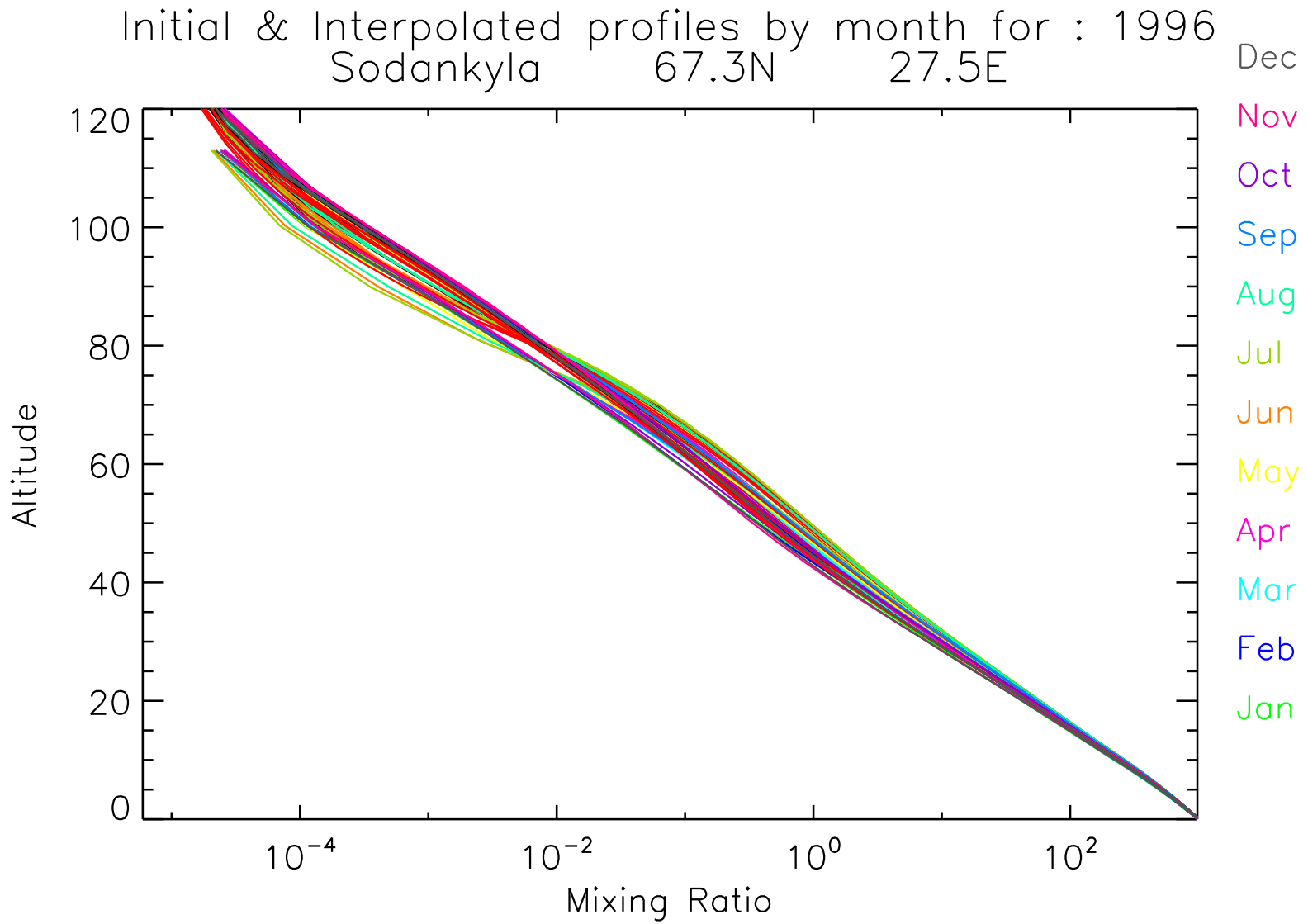
Initial & Interpolated profiles by month for : 1996
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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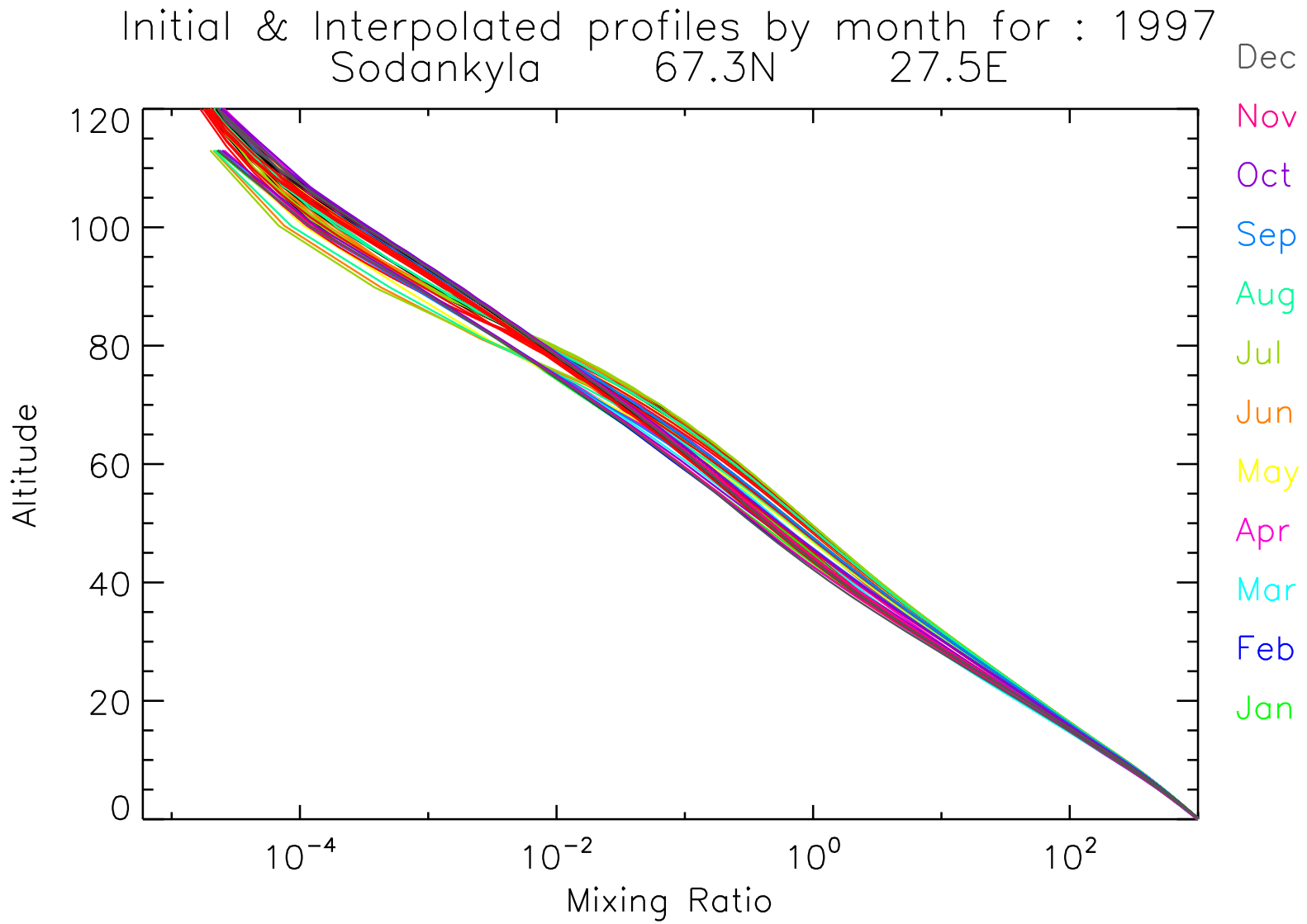
Initial & Interpolated profiles by month for : 1997
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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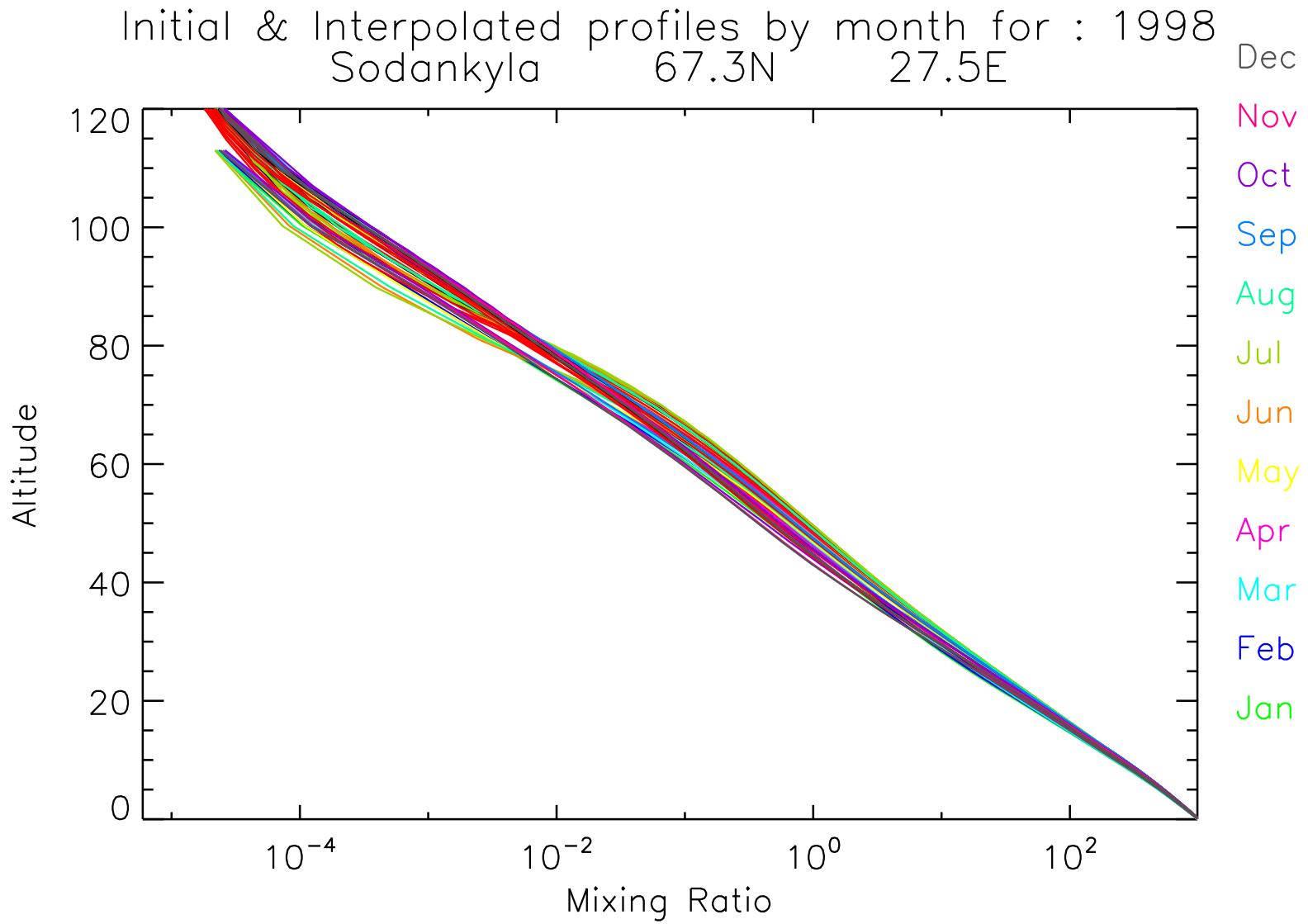
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Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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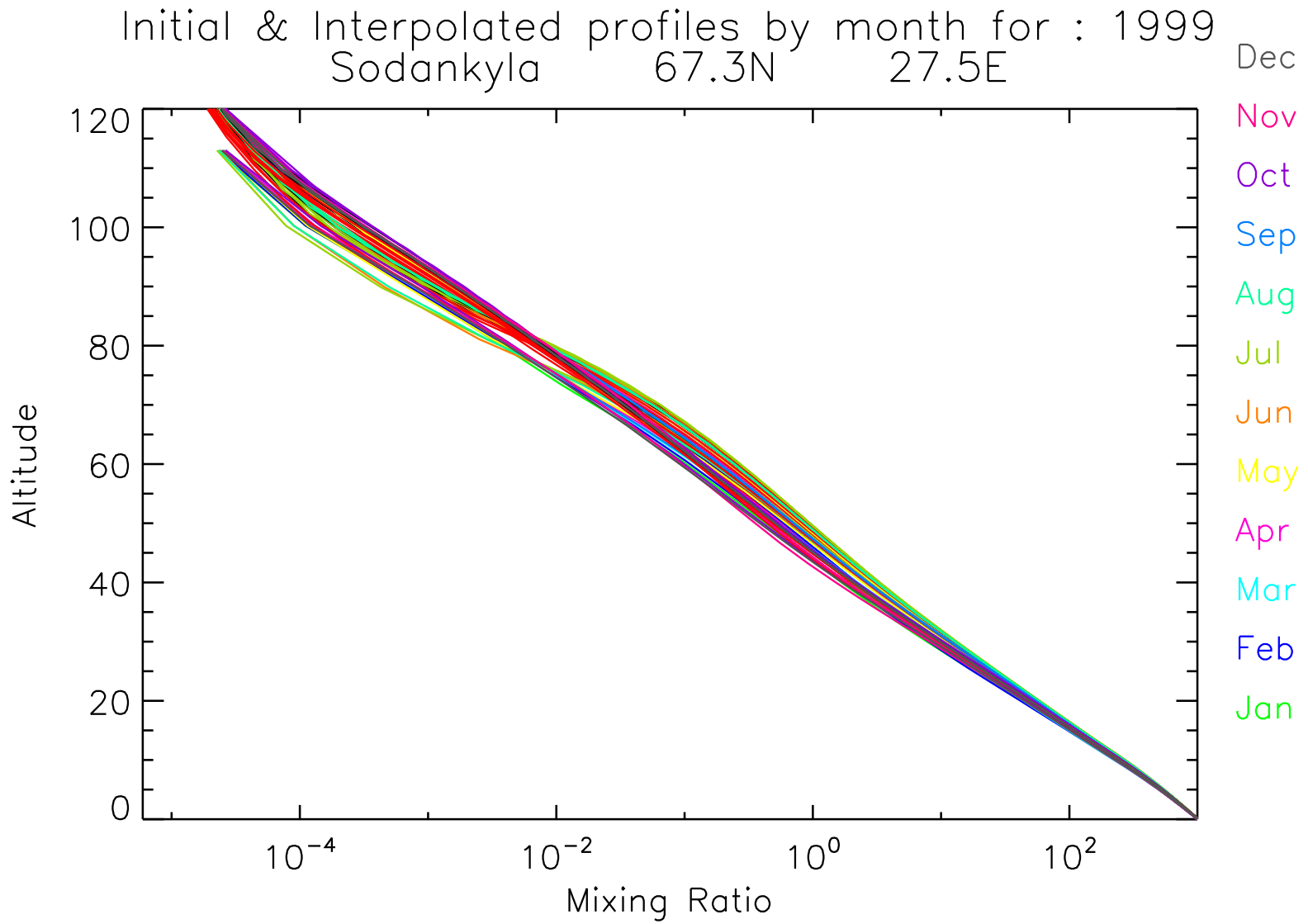
Initial & Interpolated profiles by month for : 1999
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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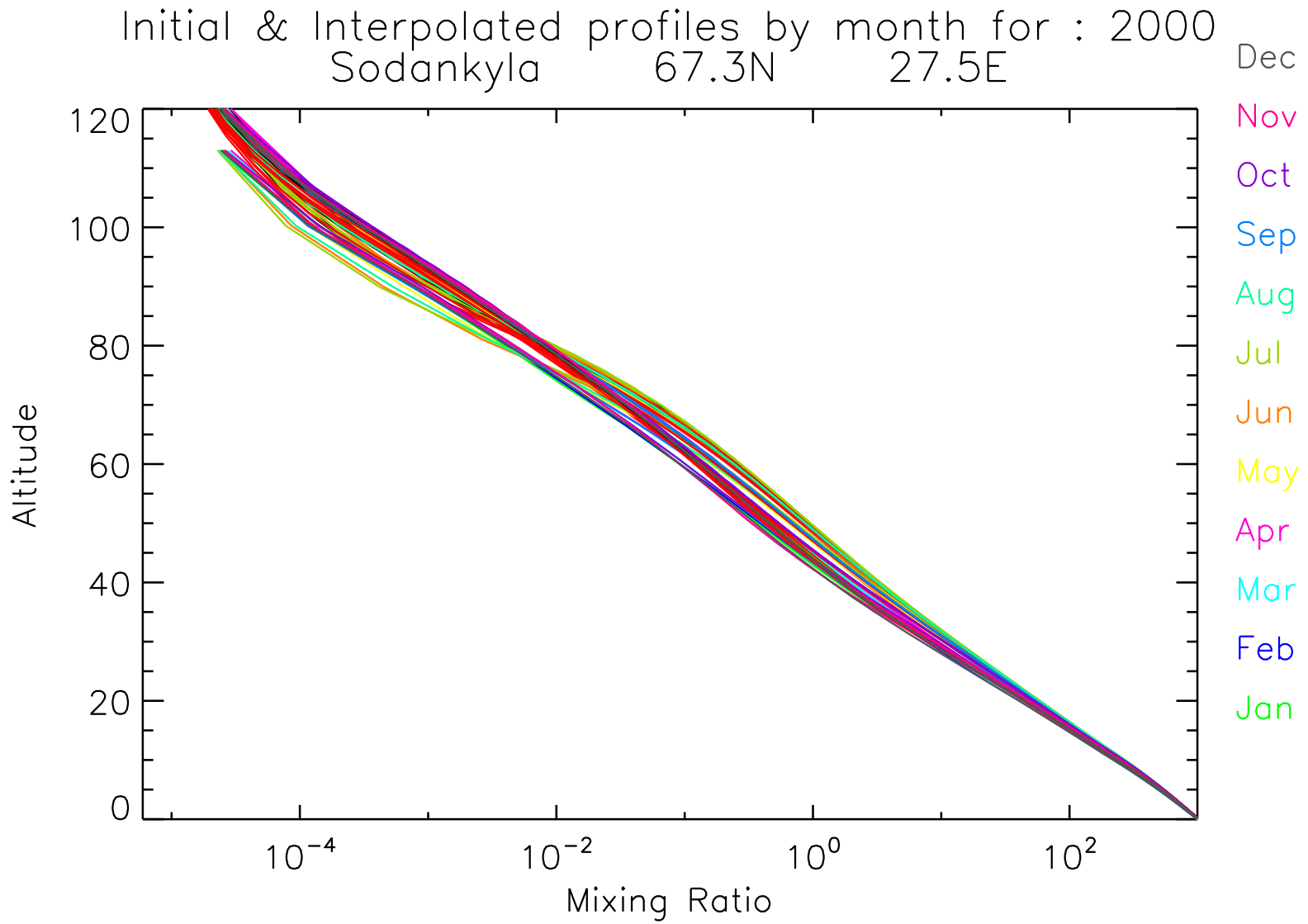
Initial & Interpolated profiles by month for : 2000
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Altitude
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Mixing Ratio
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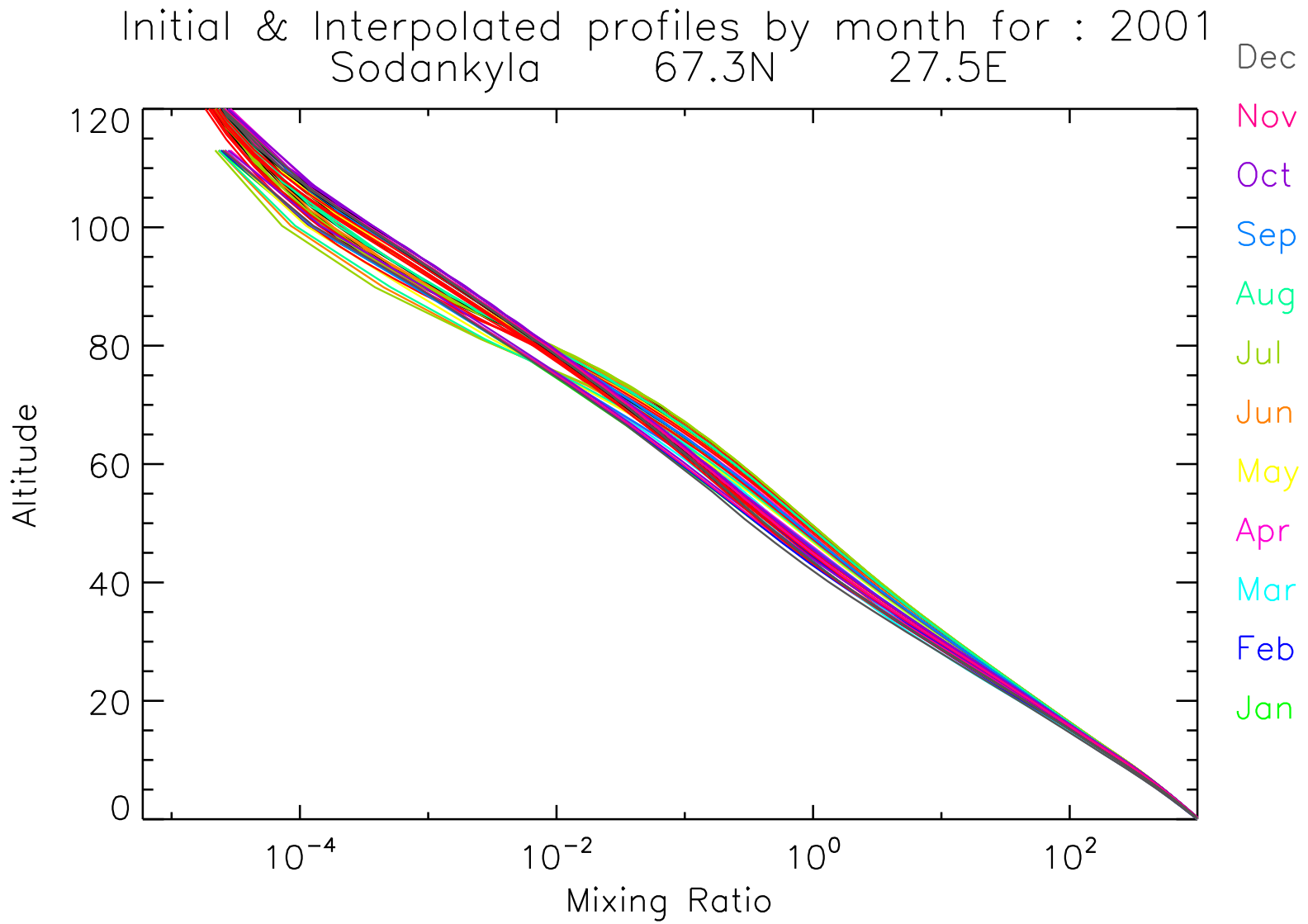
Initial & Interpolated profiles by month for : 2001
Sodankyla 67.3N 27.5E
Altitude
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10^{-4}
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10^{2}
Mixing Ratio
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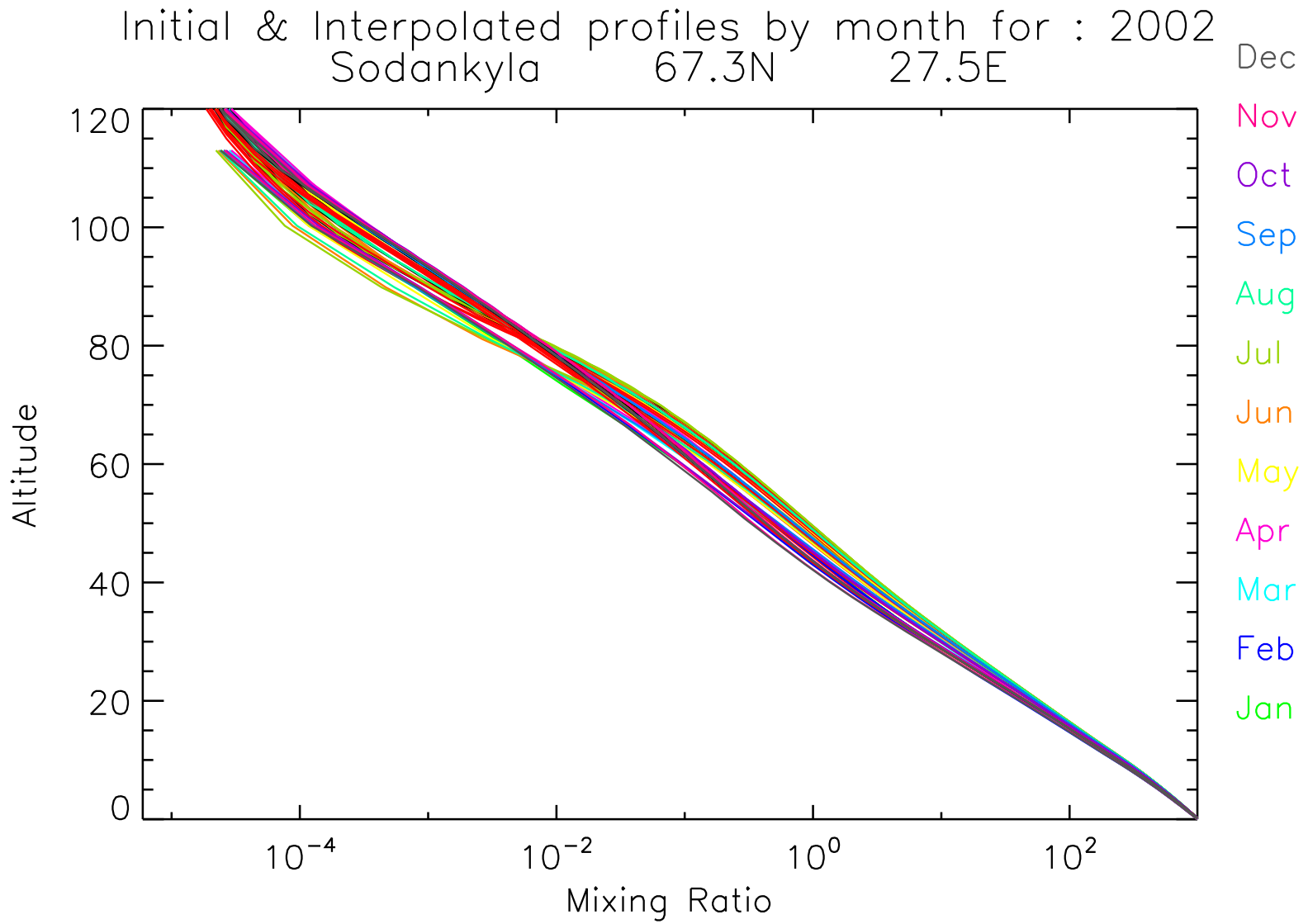
Initial & Interpolated profiles by month for : 2002
Sodankyla 67.3N 27.5E
Altitude
120
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10^{-4}
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10^{2}
Mixing Ratio
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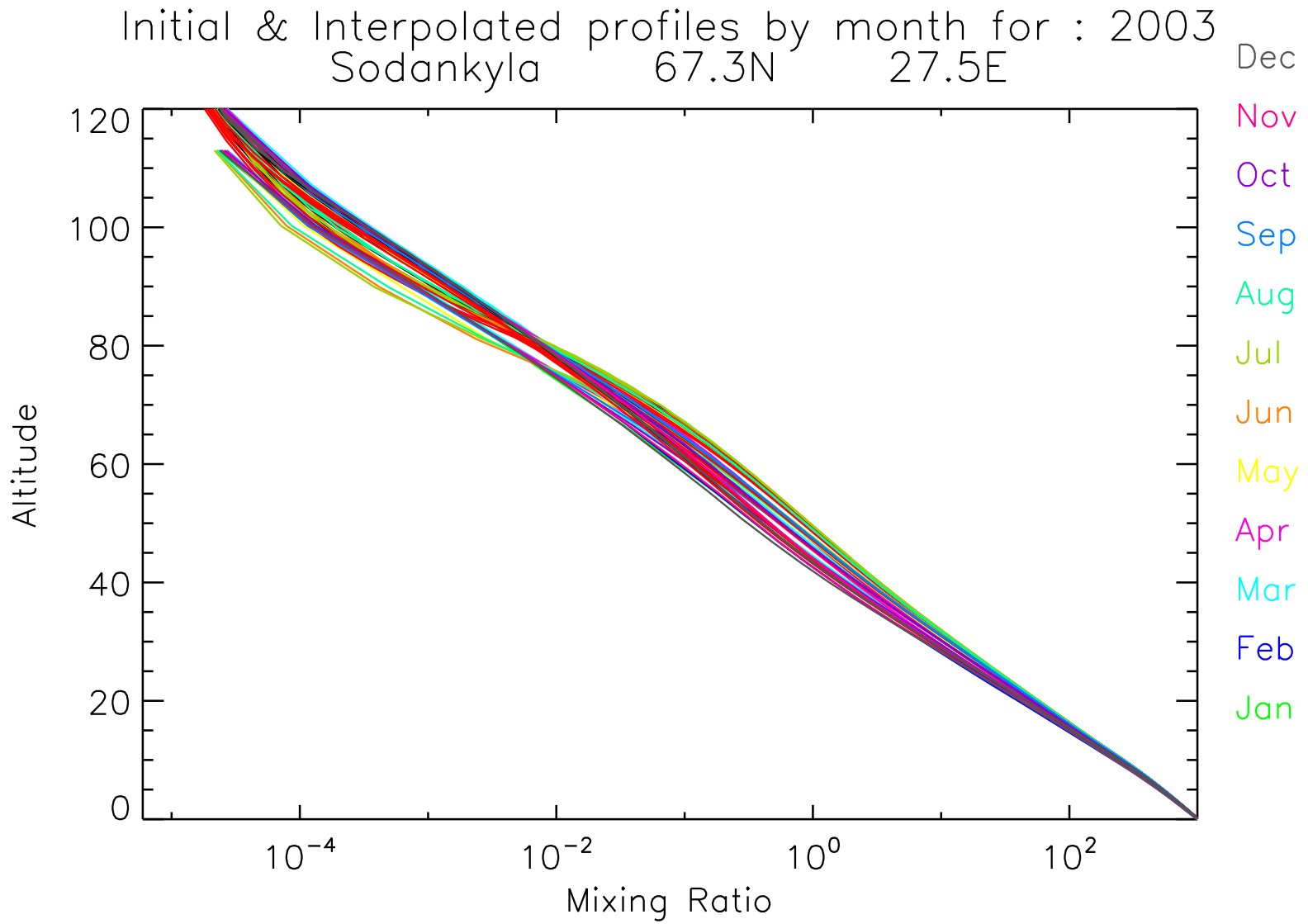
Initial & Interpolated profiles by month for : 2003
Sodankyla 67.3N 27.5E
Dec
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Jan
120
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Altitude
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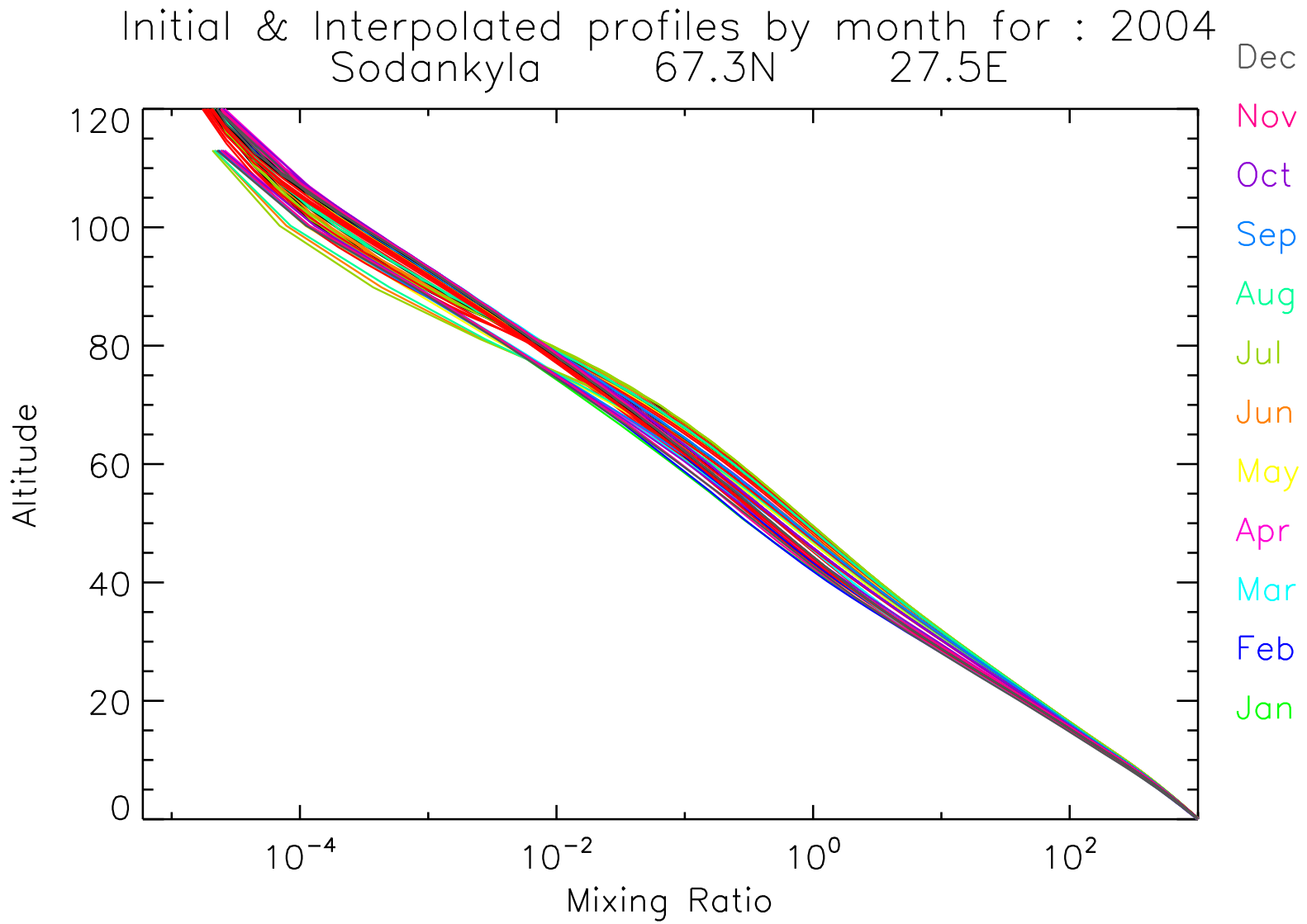
10^{0}
10^{2}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Sodankyla 67.3N 27.5E
Altitude
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10^{-4}
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Mixing Ratio
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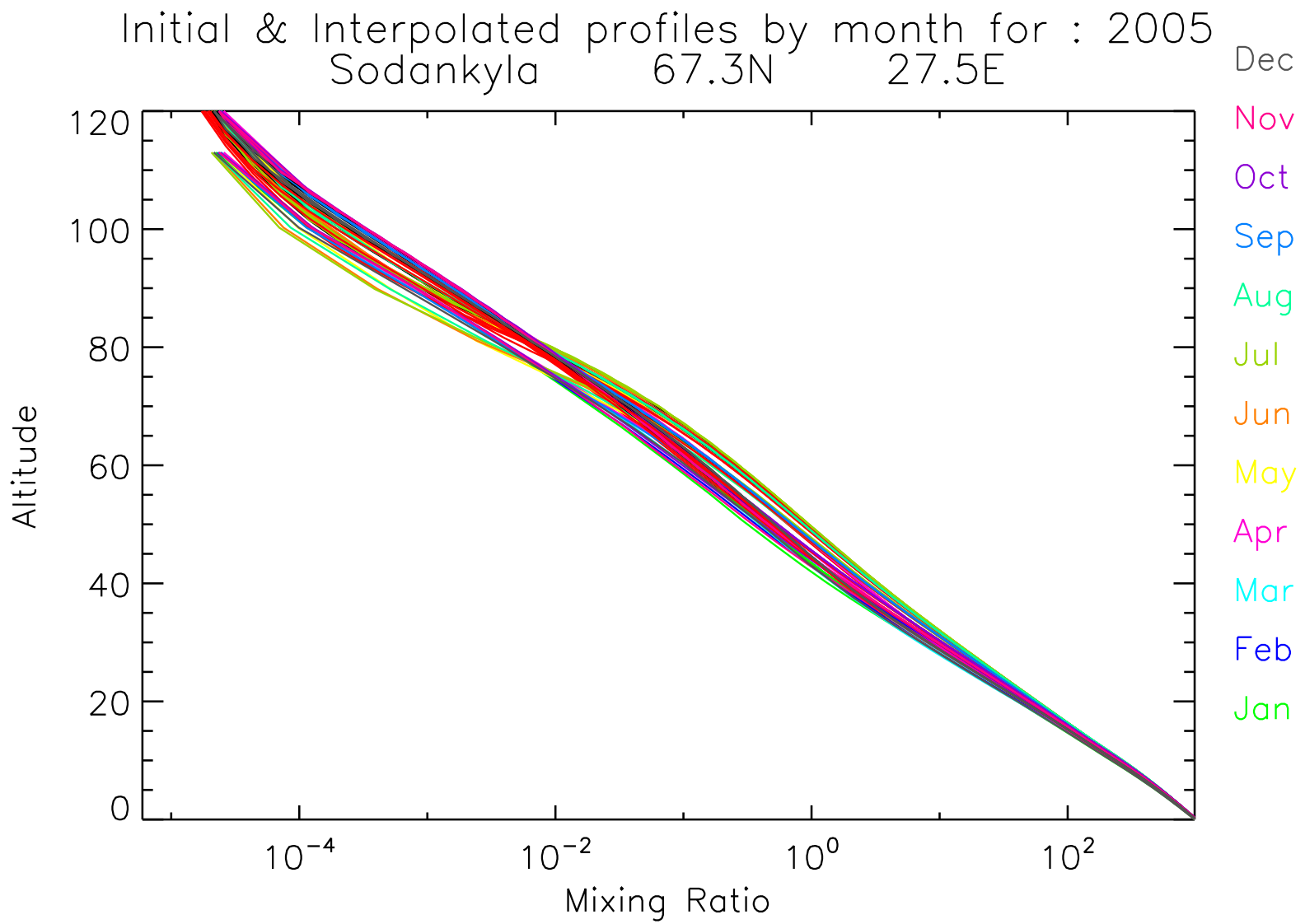
Initial & Interpolated profiles by month for : 2005
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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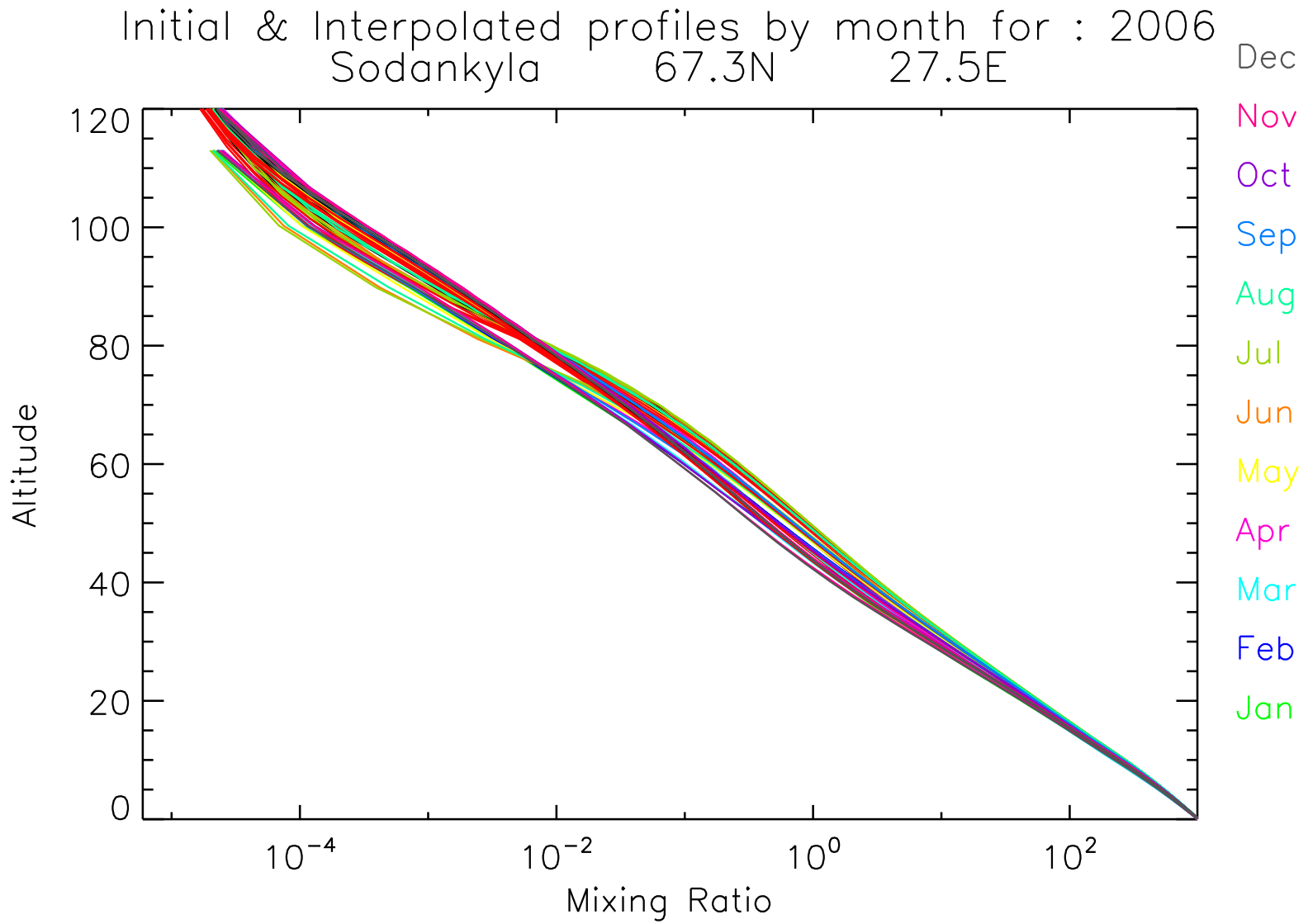
Initial & Interpolated profiles by month for : 2006
Sodankyla 67.3N 27.5E
Altitude
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10^{-4}
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Mixing Ratio
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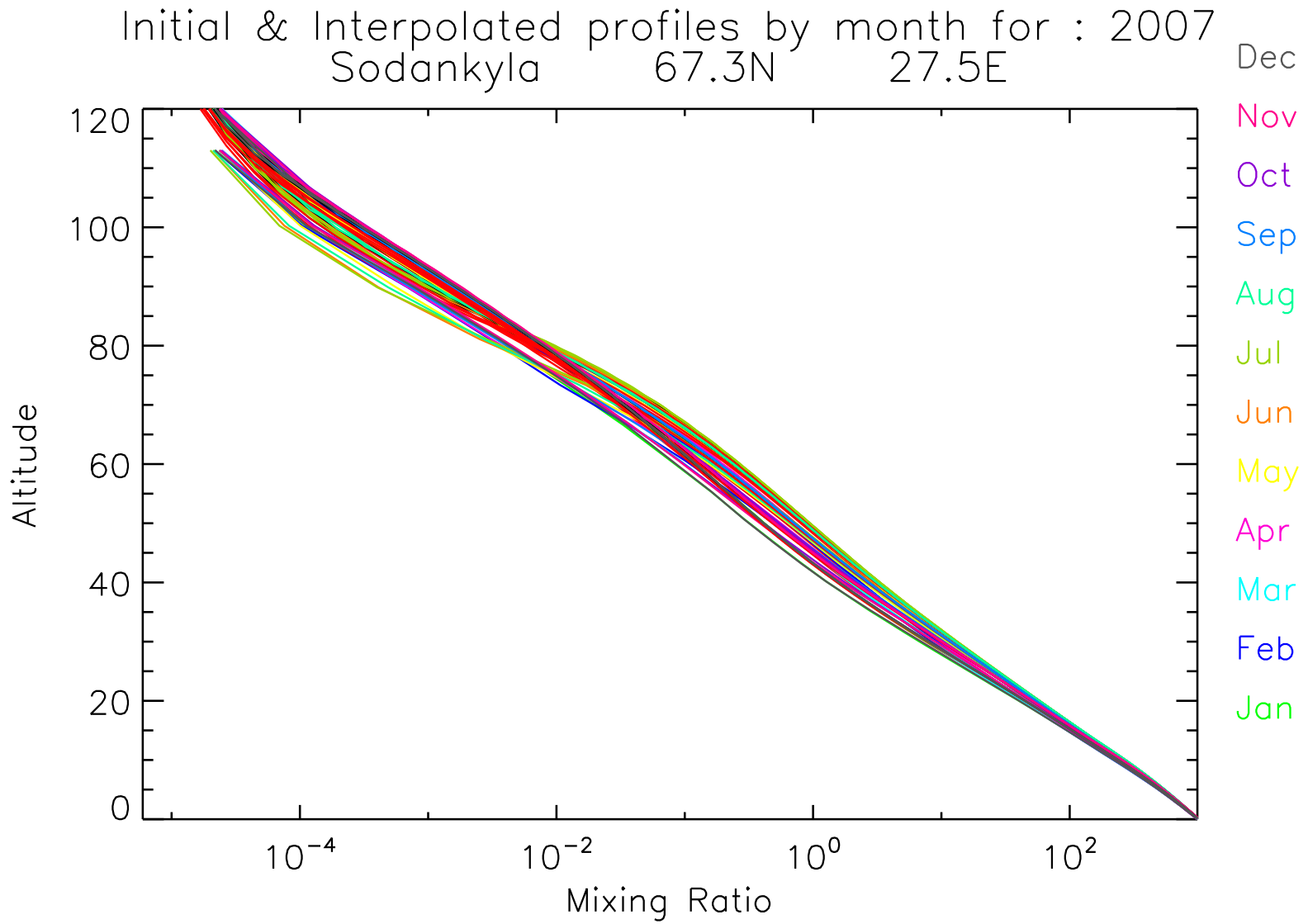
Initial & Interpolated profiles by month for : 2007
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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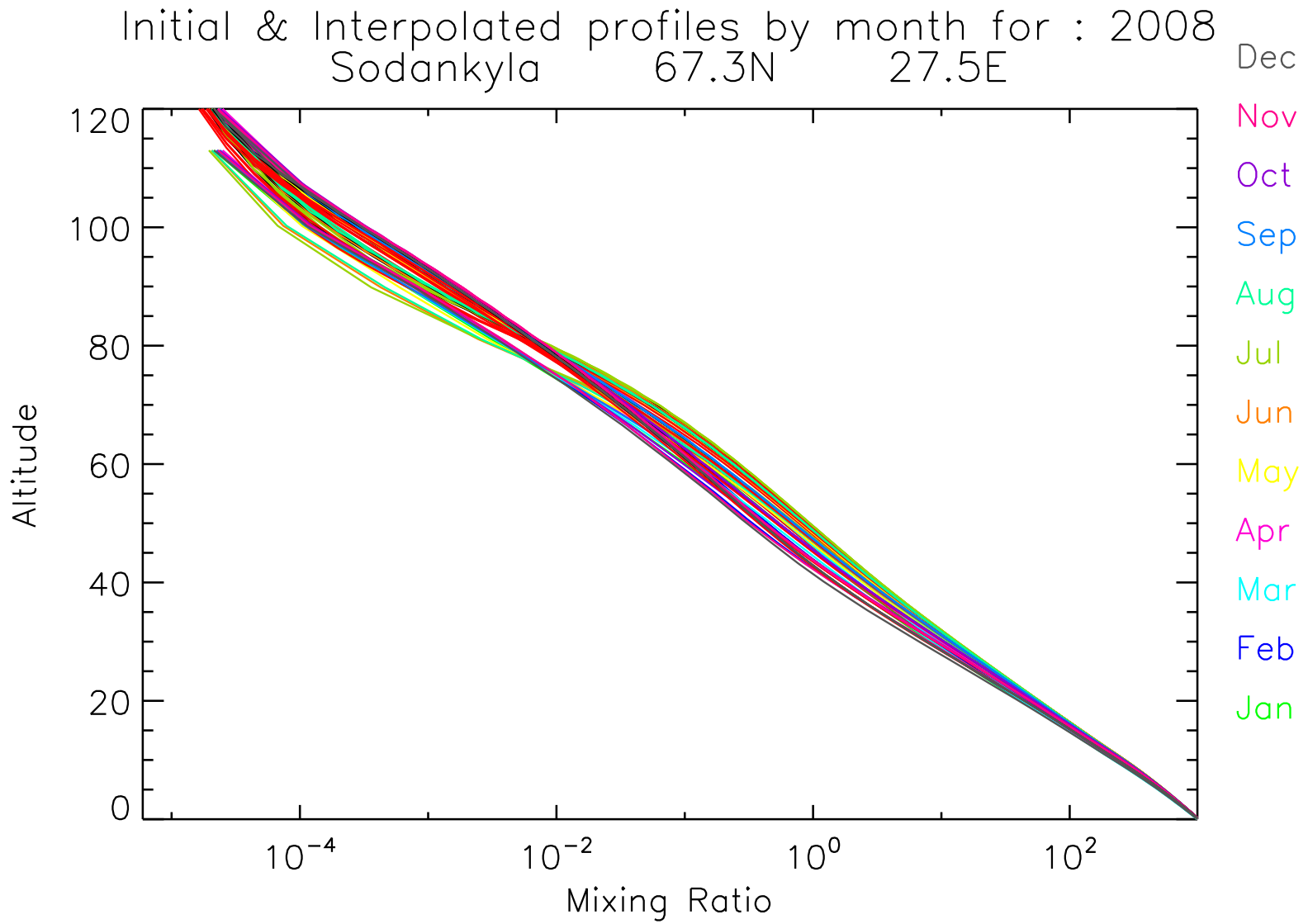
Initial & Interpolated profiles by month for : 2008
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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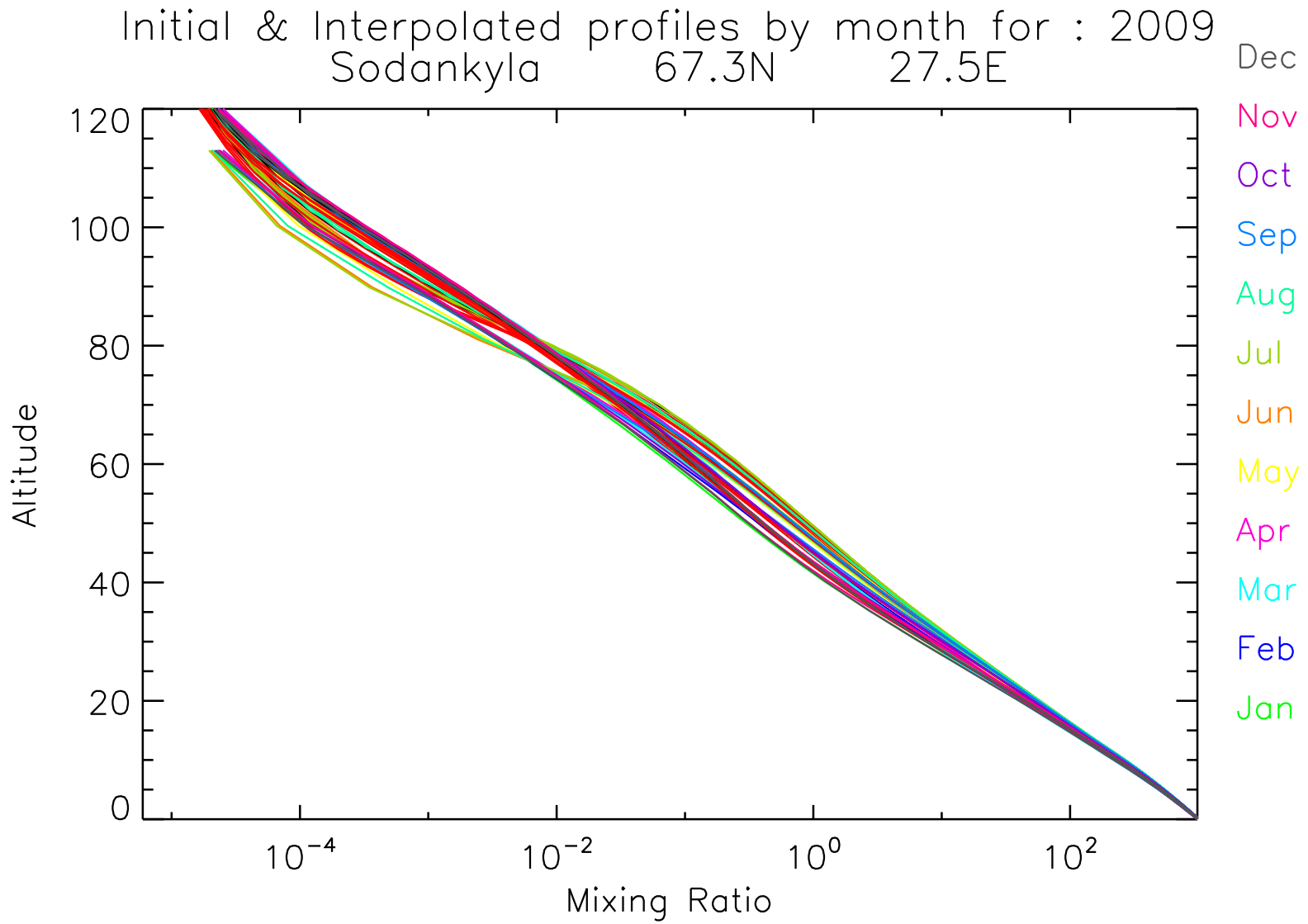
Initial & Interpolated profiles by month for : 2009
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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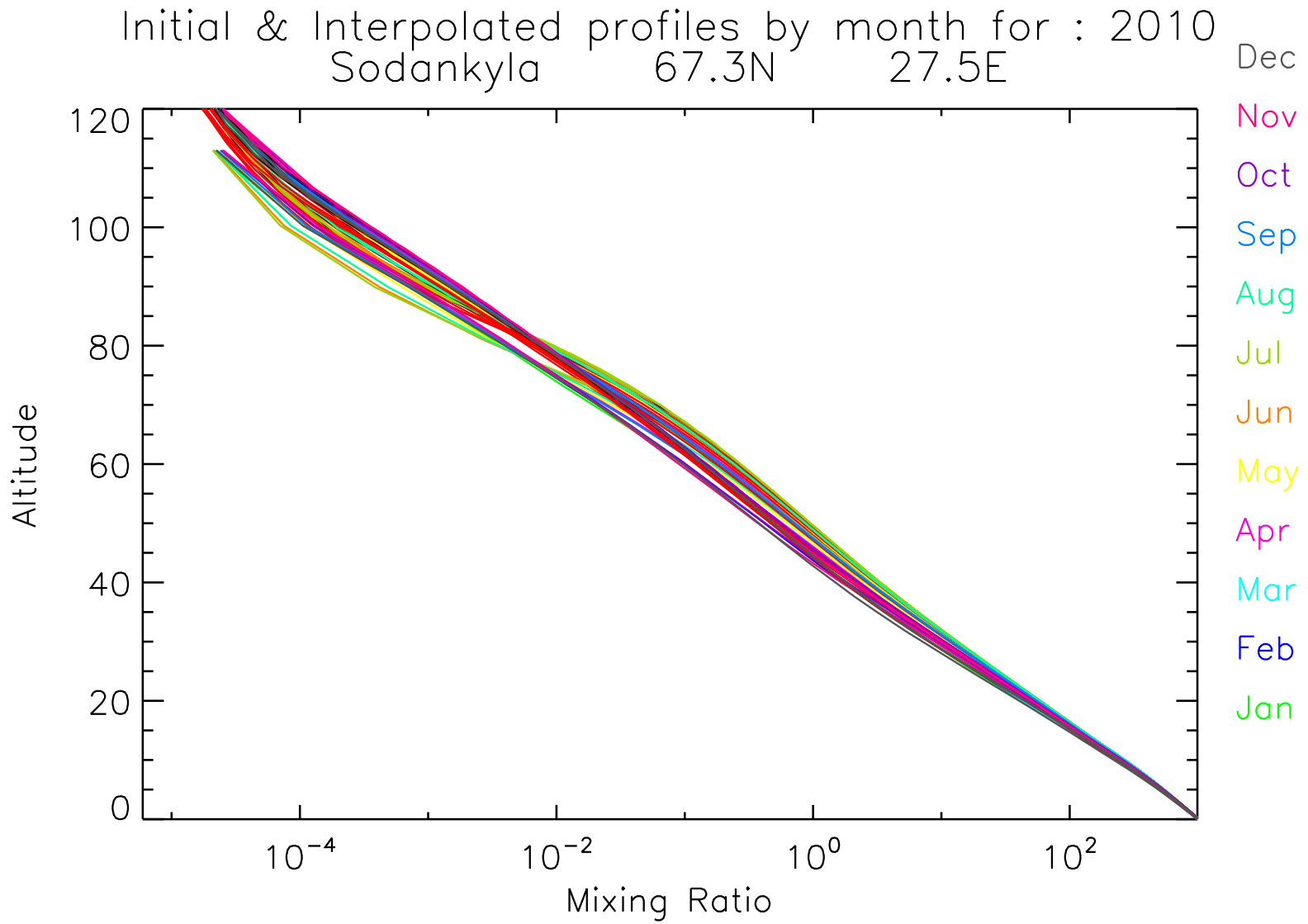
Initial & Interpolated profiles by month for : 2010
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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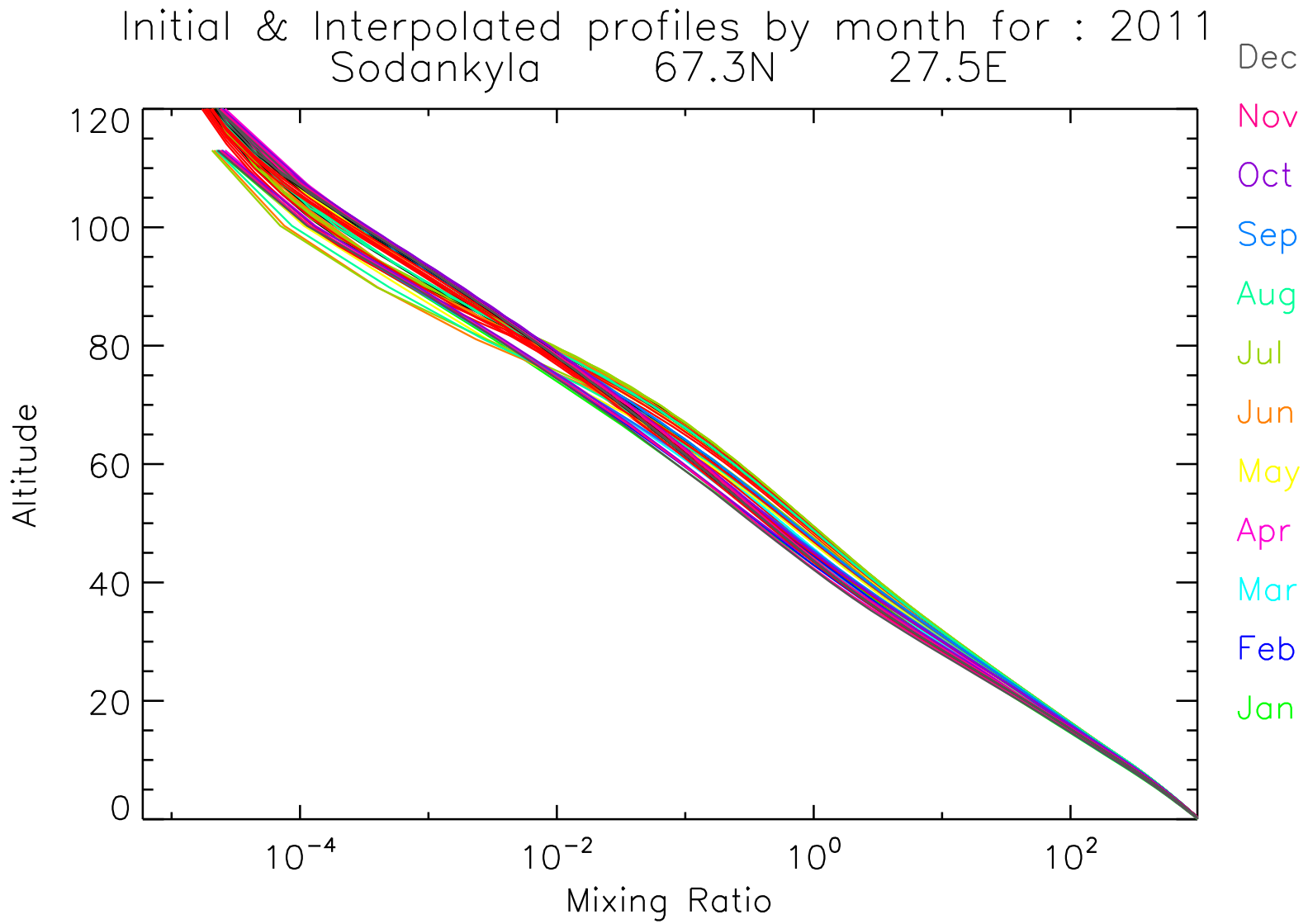
Initial & Interpolated profiles by month for : 2011
Sodankyla 67.3N 27.5E
Altitude
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Mixing Ratio
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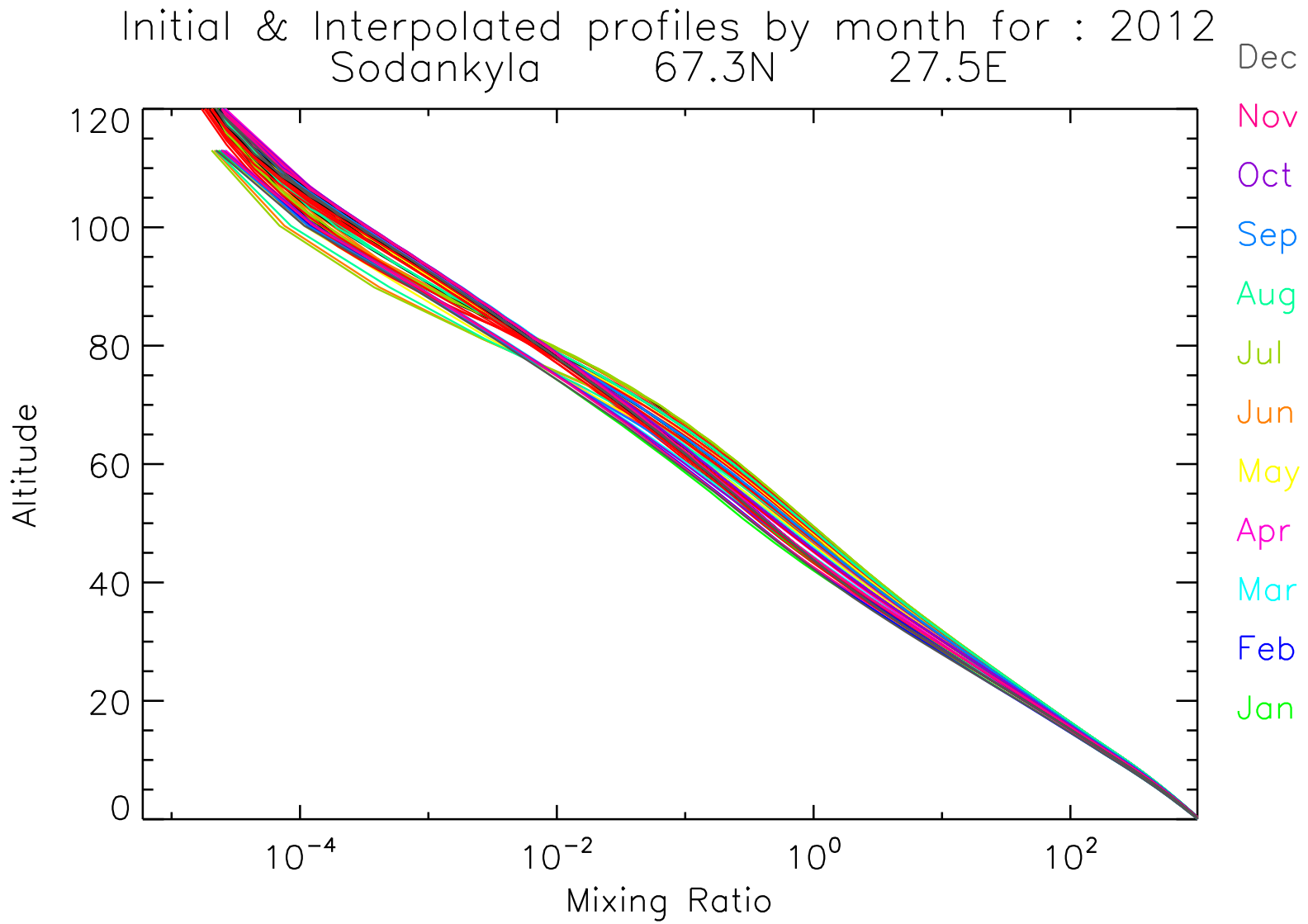
Initial & Interpolated profiles by month for : 2012
Sodankyla 67.3N 27.5E
Altitude
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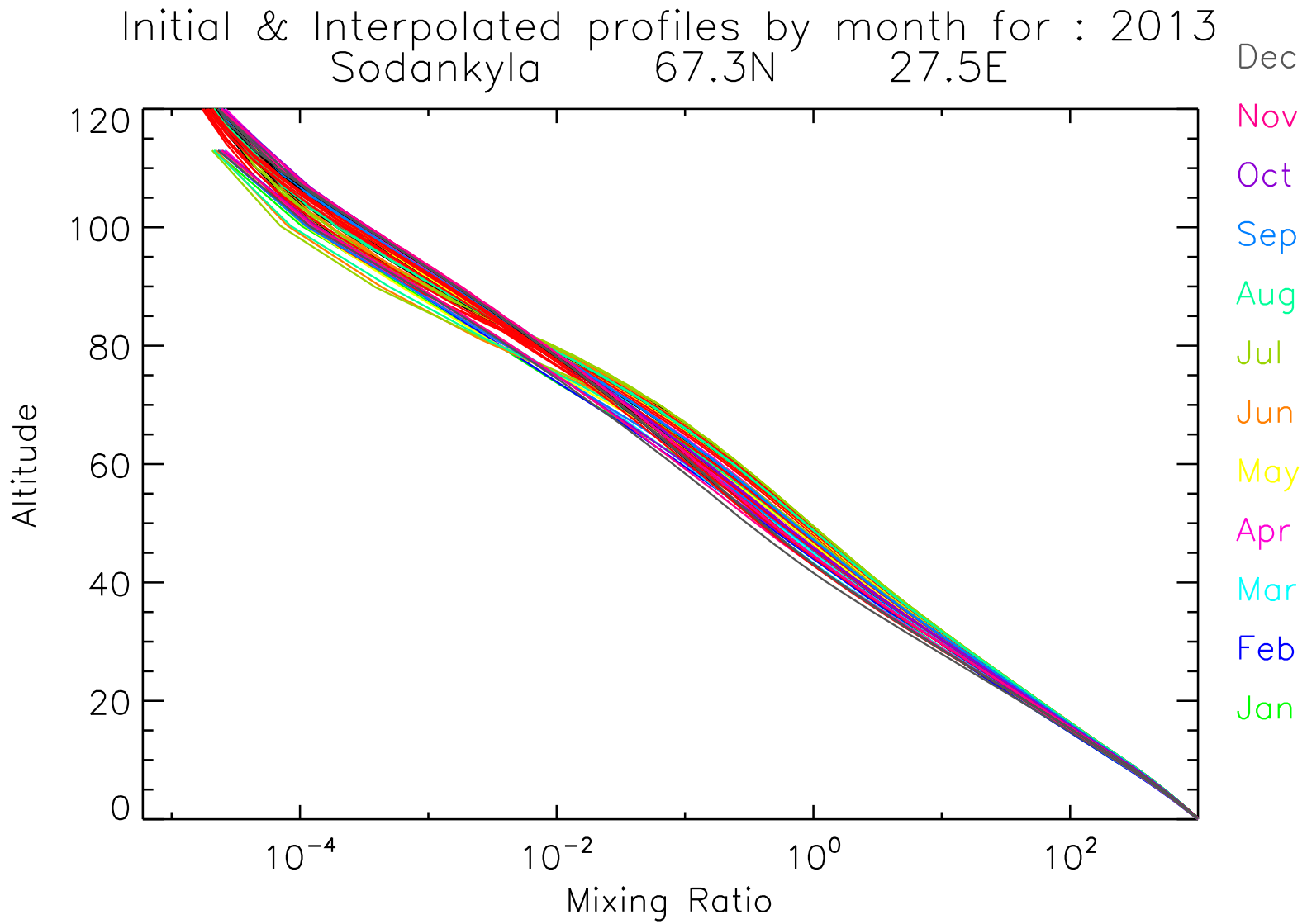
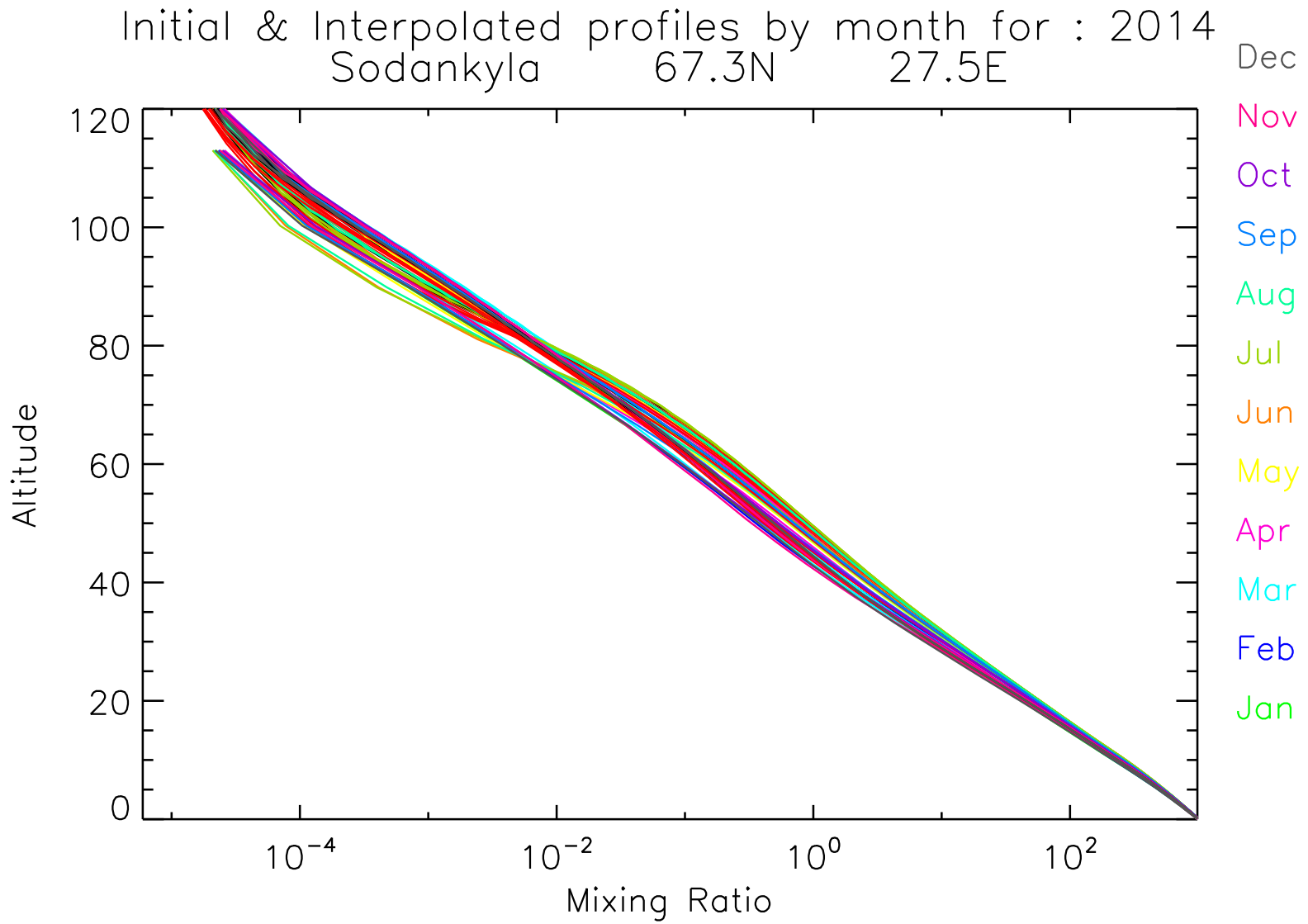
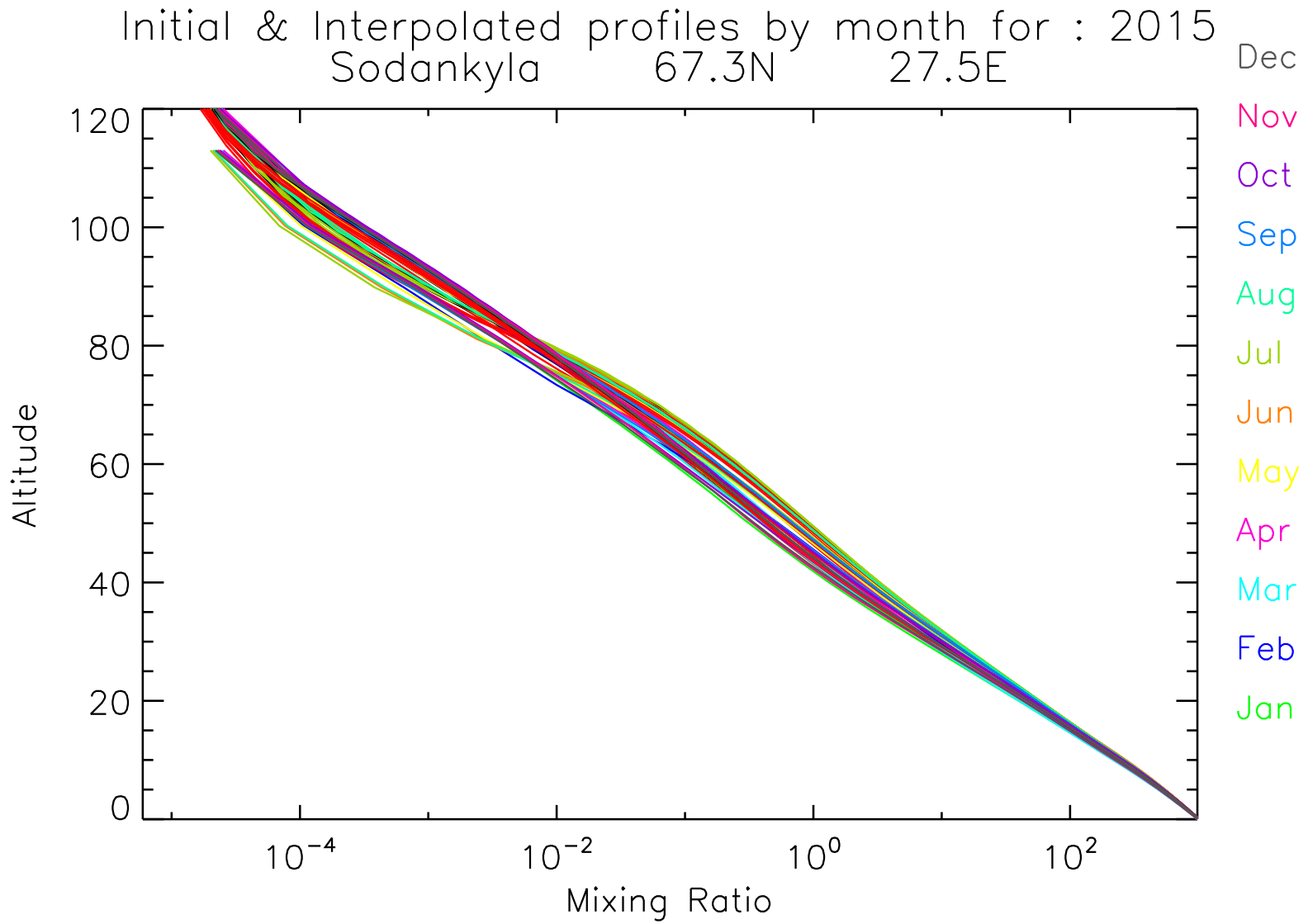
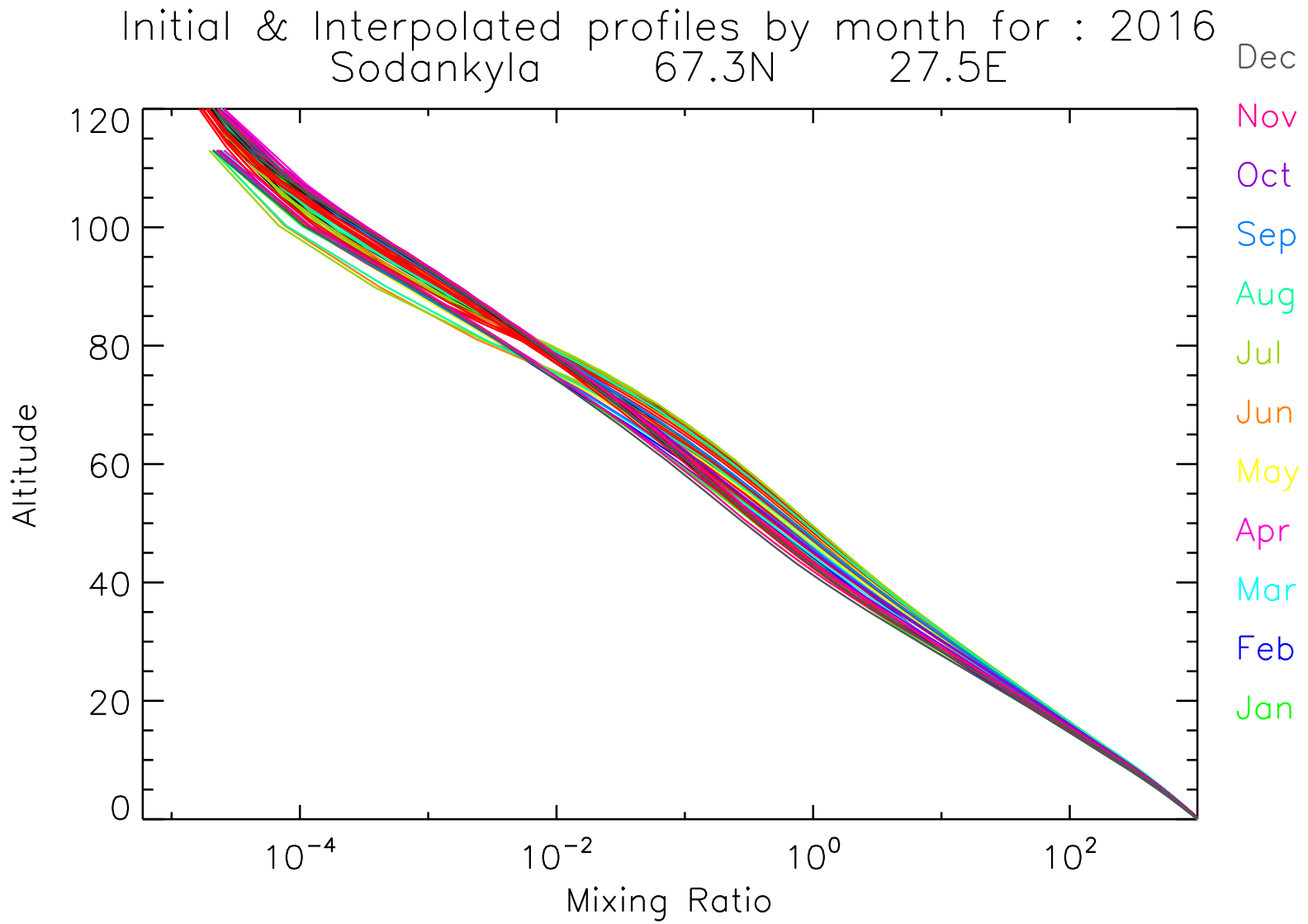
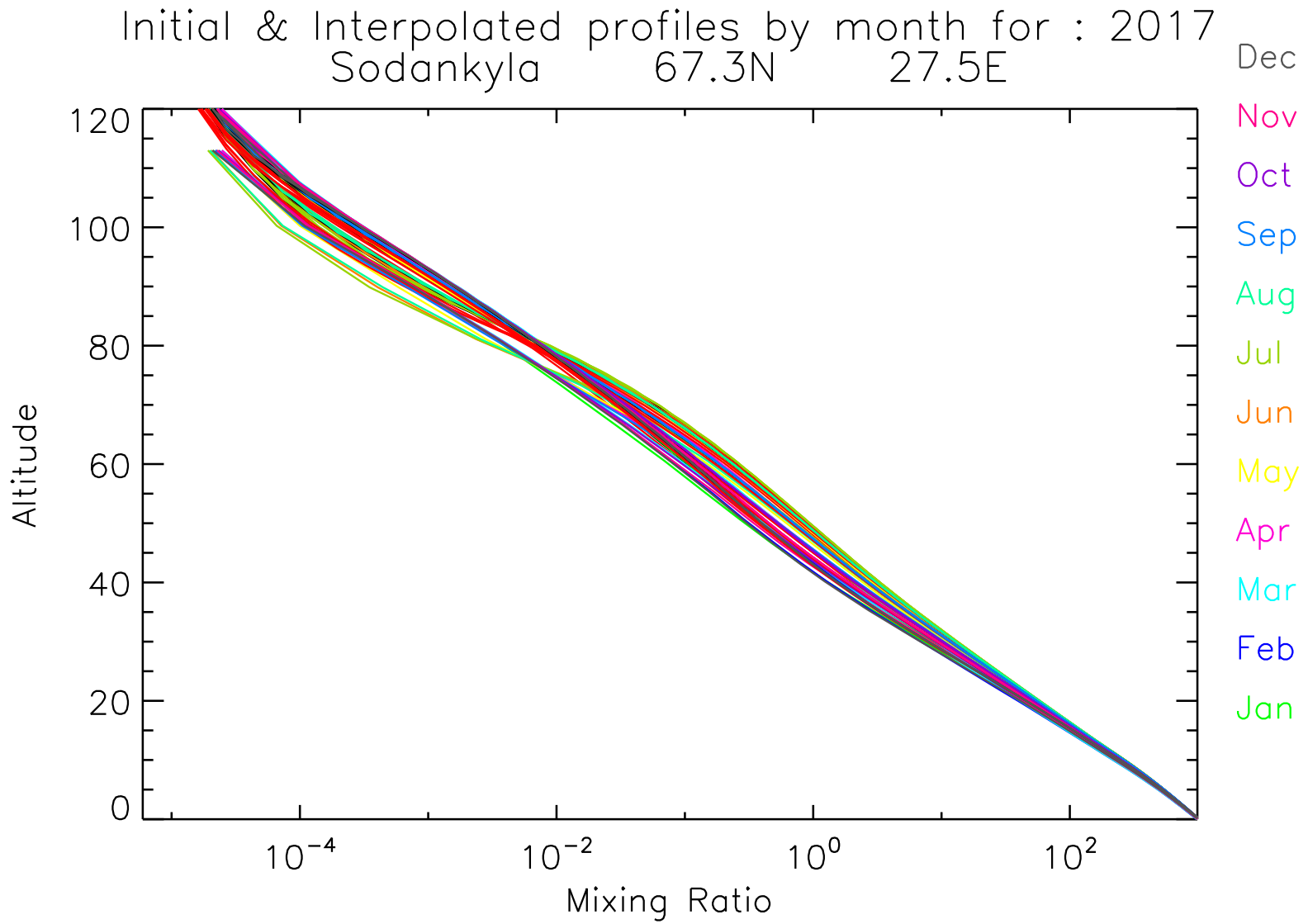
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

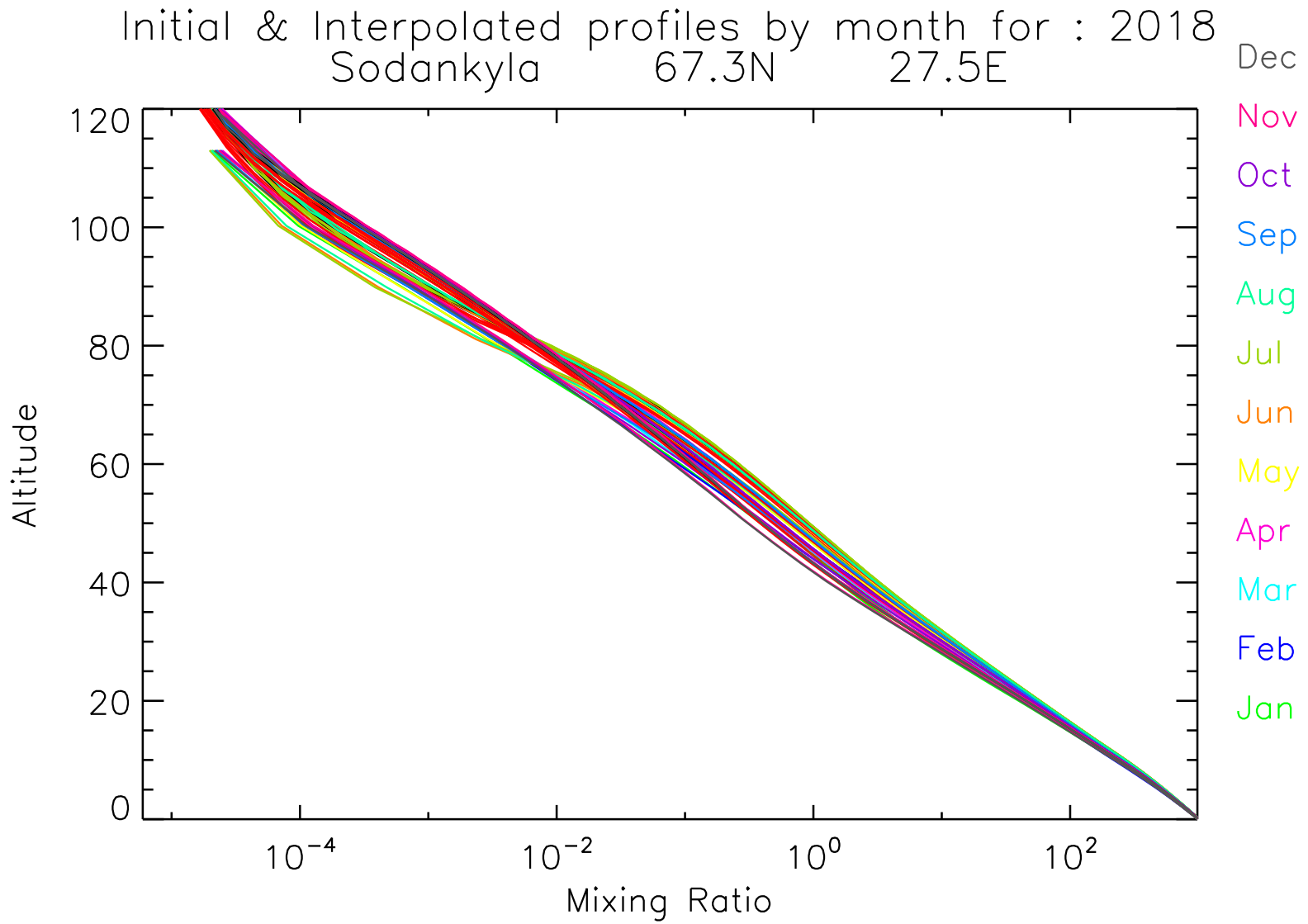

Initial & Interpolated profiles by month for : 2013
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

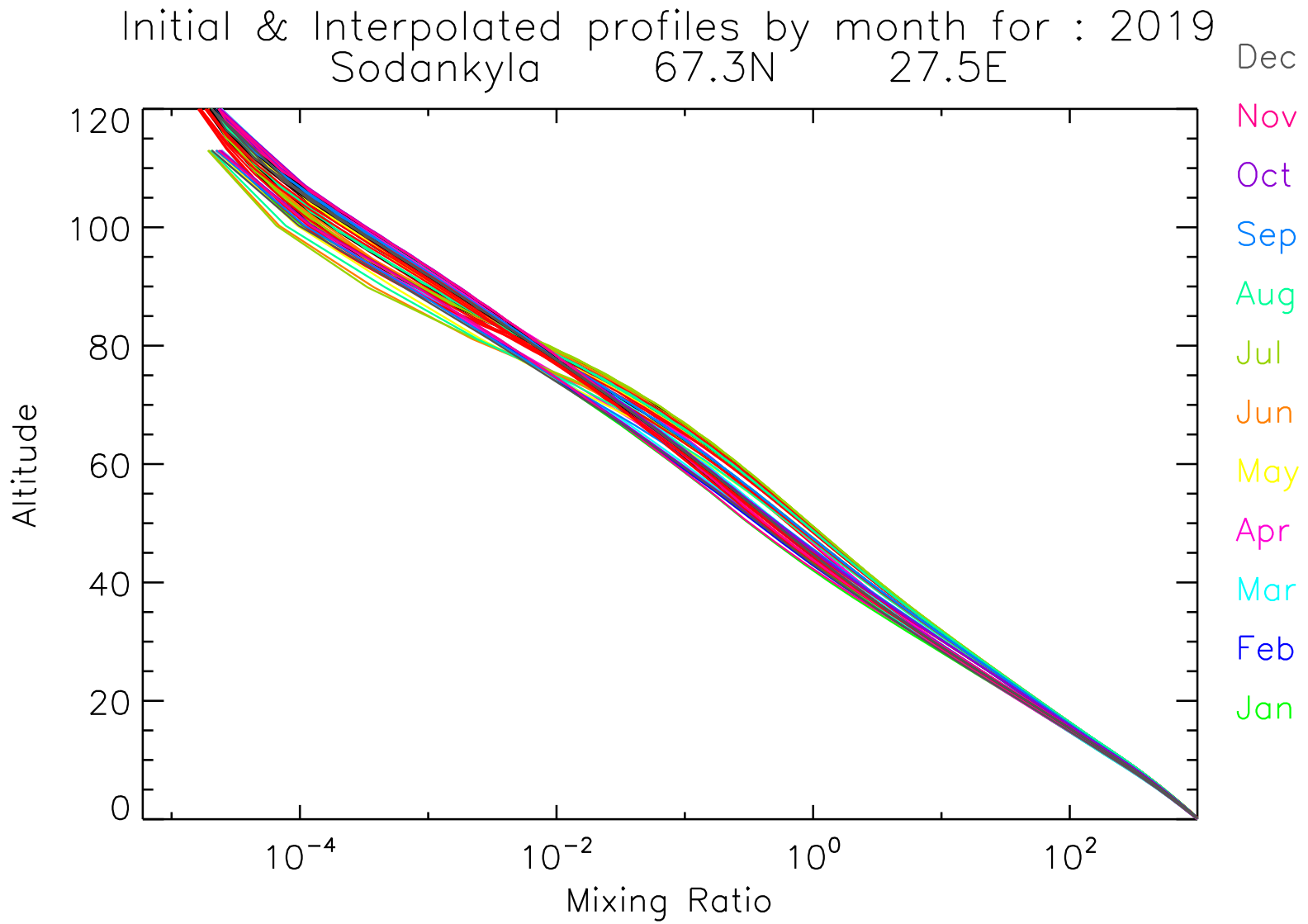

Initial & Interpolated profiles by month for : 2014
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

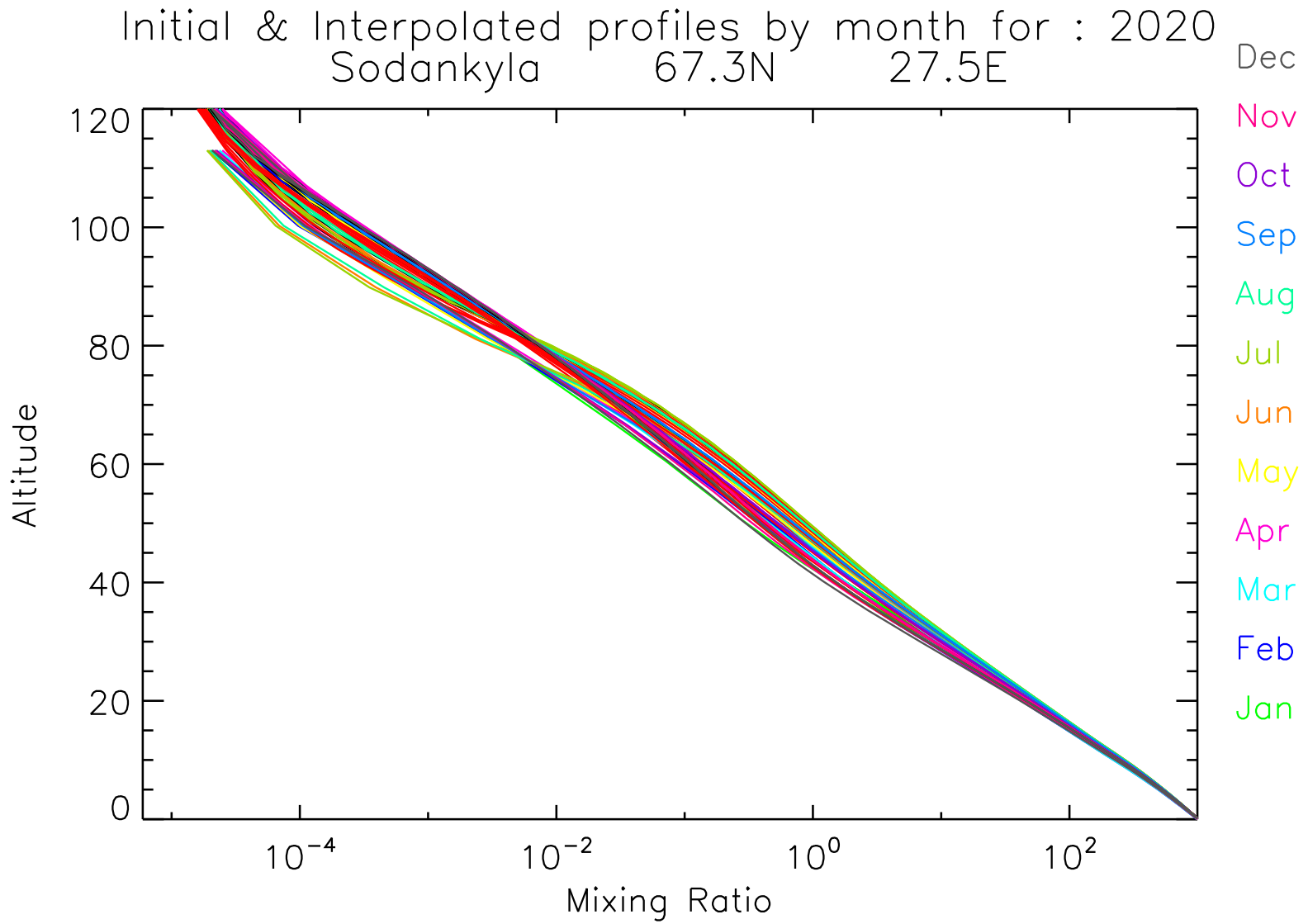

Initial & Interpolated profiles by month for : 2015
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

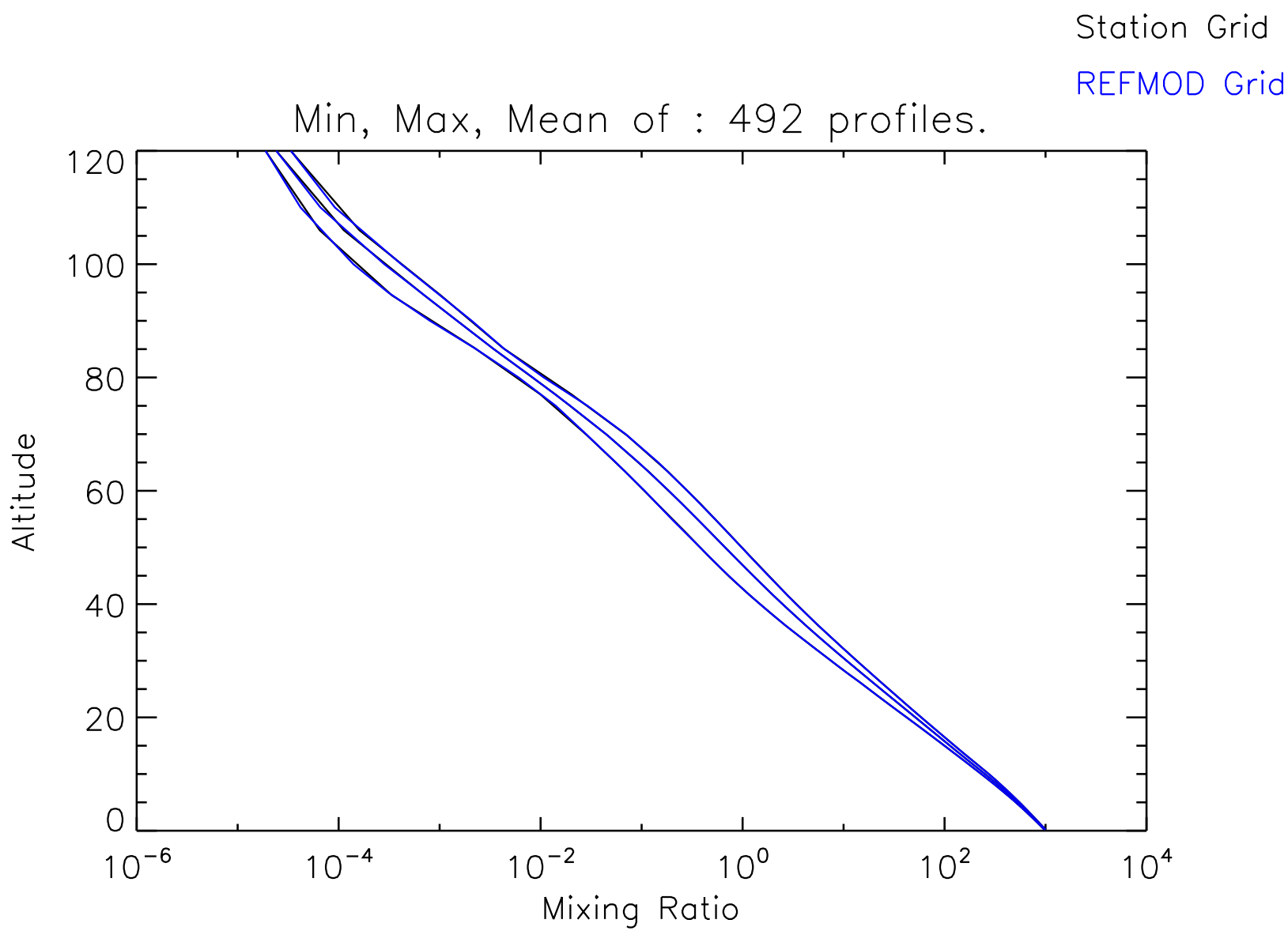

Initial & Interpolated profiles by month for : 2016
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

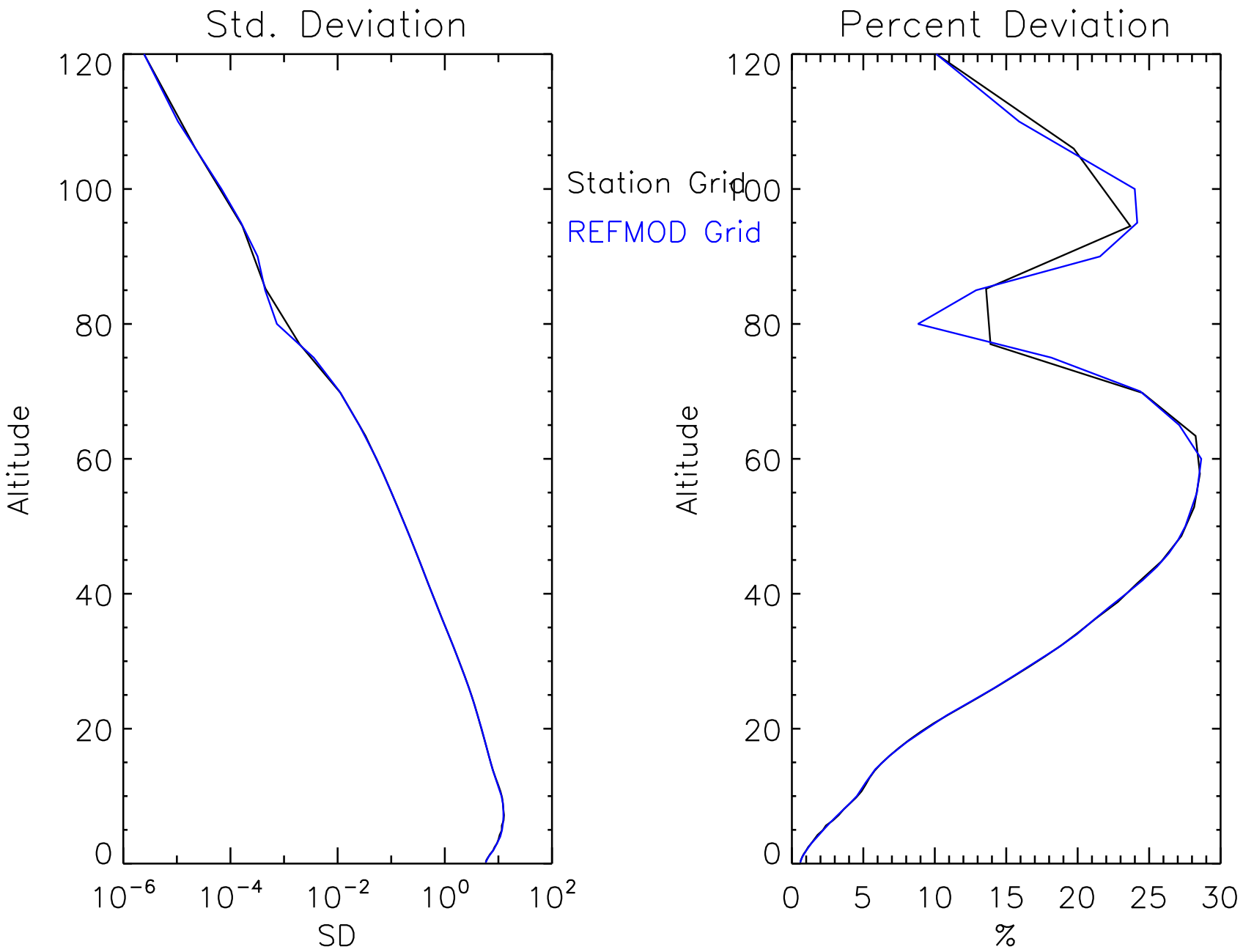

Initial & Interpolated profiles by month for : 2017
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

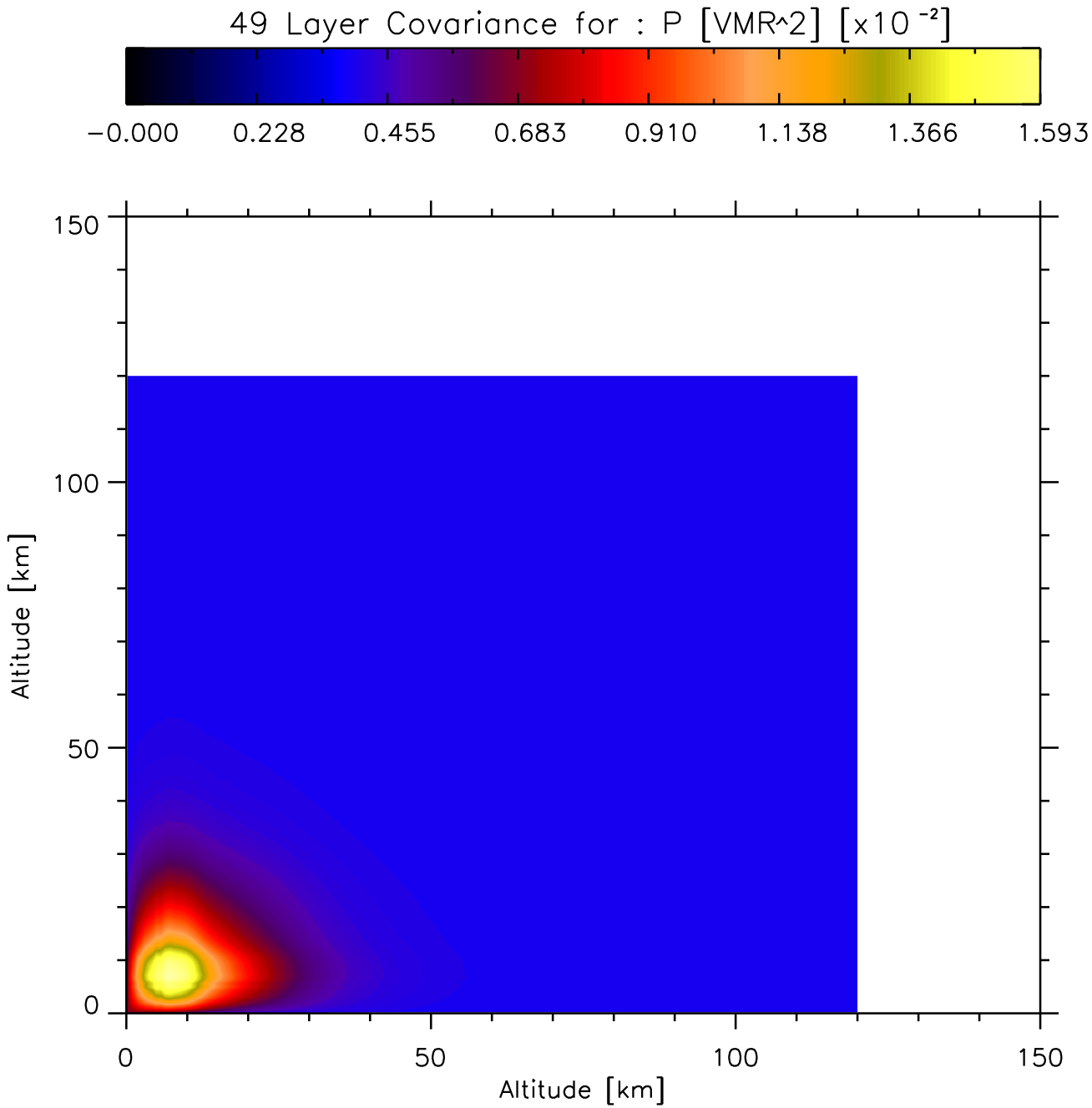

Initial & Interpolated profiles by month for : 2018
Sodankyla 67.3N 27.5E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2019
Sodankyla 67.3N 27.5E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio

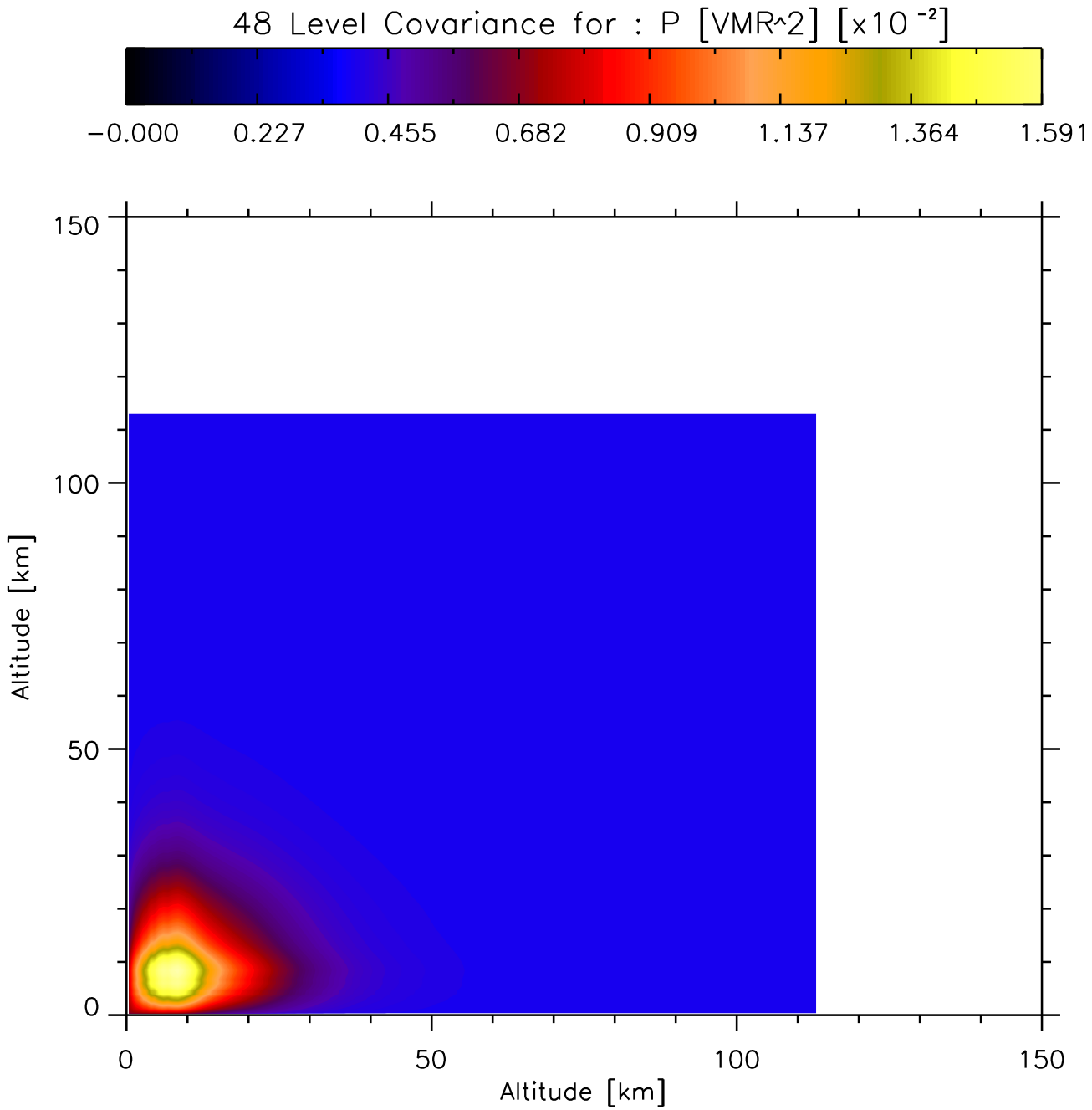

Initial & Interpolated profiles by month for : 2020
Sodankyla 67.3N 27.5E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio


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
25
30
%


49 Layer Covariance for : P [VMR^2] [x10 -2]
−0.000
0.228
0.455
0.683
0.910
1.138
1.366
1.593
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : P [VMR^2] [x10^-7]
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
30
60
90
X Altitude
0
50
100
150


48 Level Covariance for : P [VMR^2] [x10 -2]
−0.000
0.227
0.455
0.682
0.909
1.137
1.364
1.591
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : P [VMR^2] [x10^-2]
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
50
100
150
X Altitude
0
50
100
150