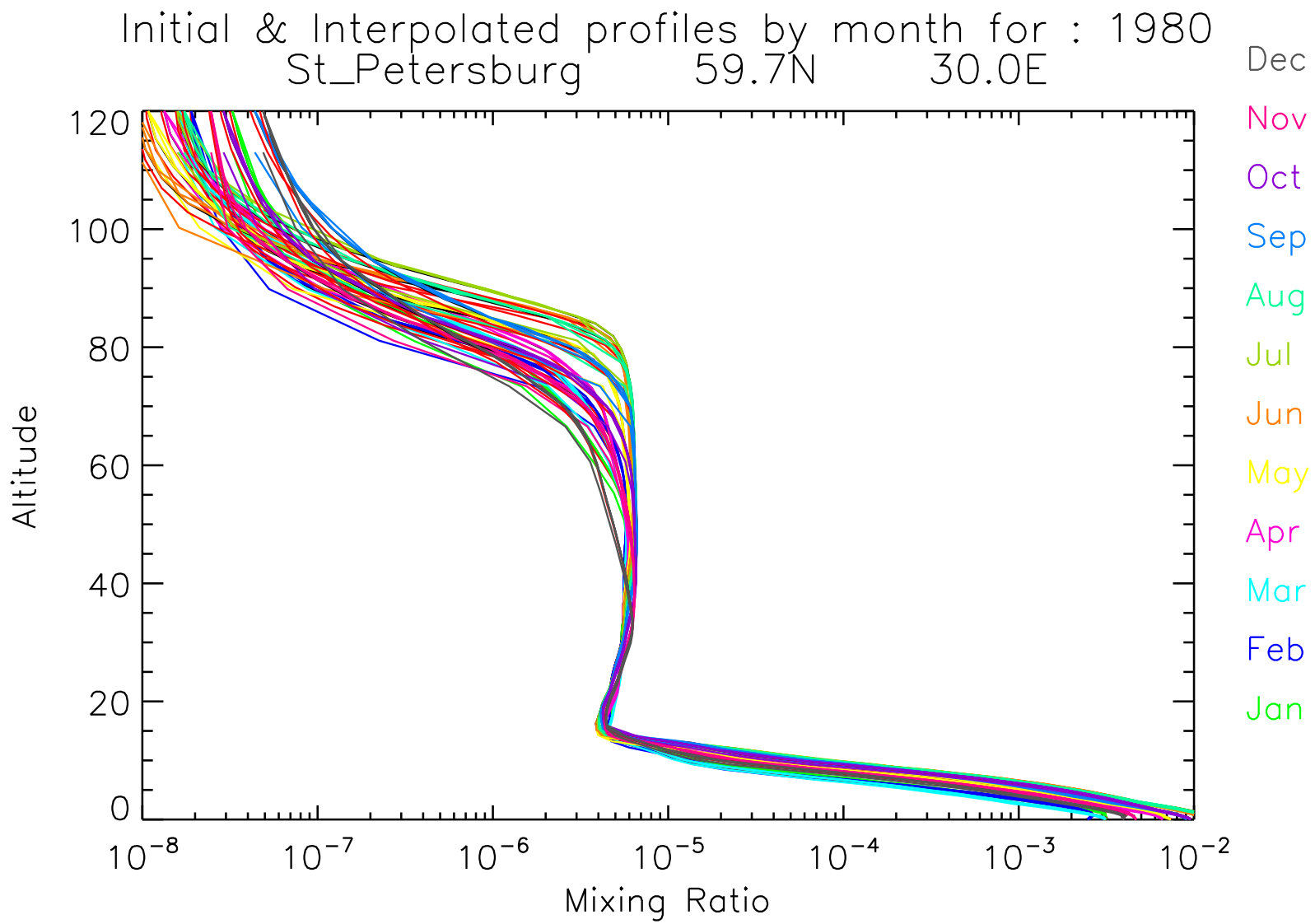
Initial & Interpolated profiles by month for : 1980
St_Petersburg 59.7N 30.0E
Altitude
120
100
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Mixing Ratio
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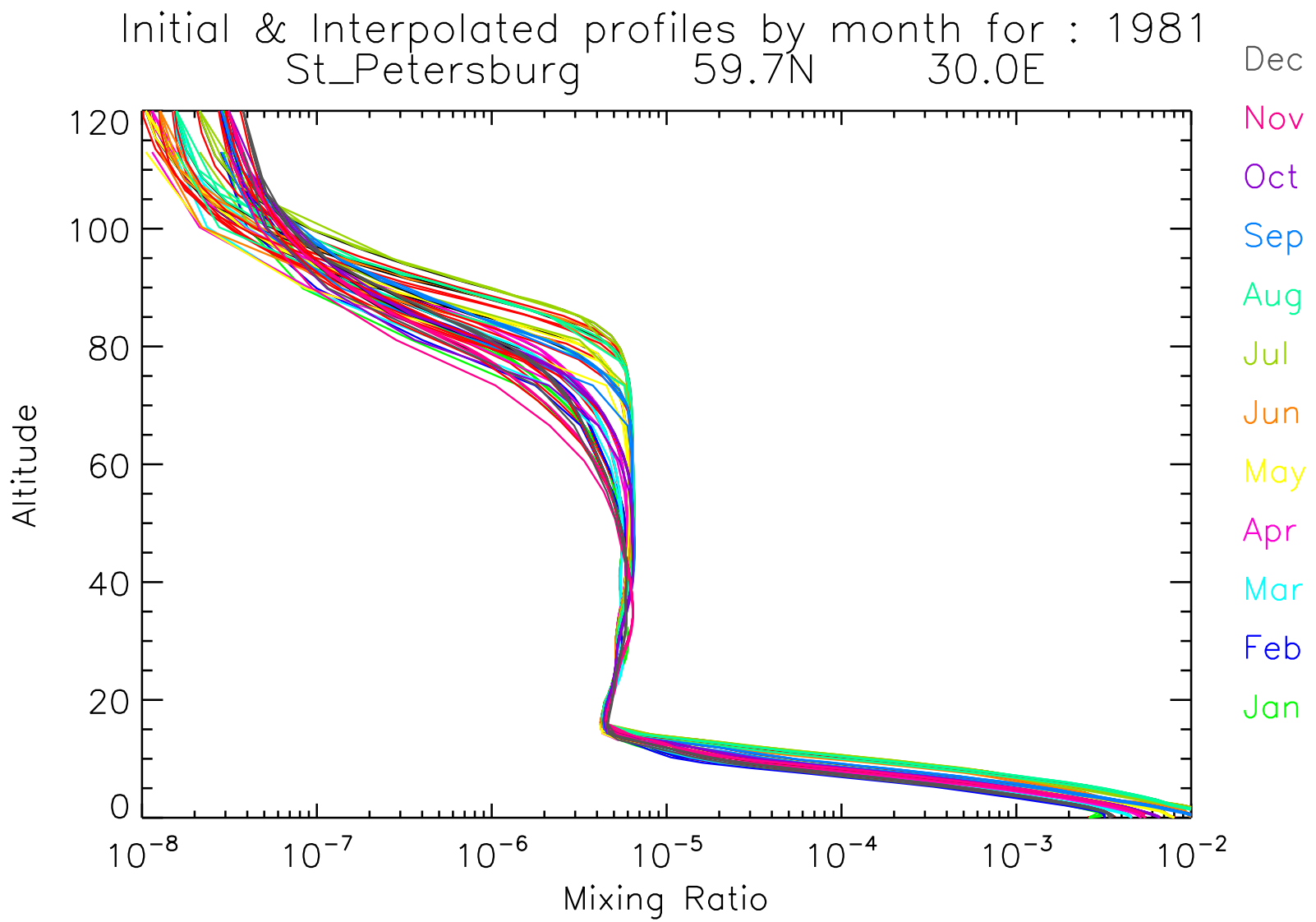
Initial & Interpolated profiles by month for : 1981
St_Petersburg 59.7N 30.0E
Altitude
120
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Mixing Ratio
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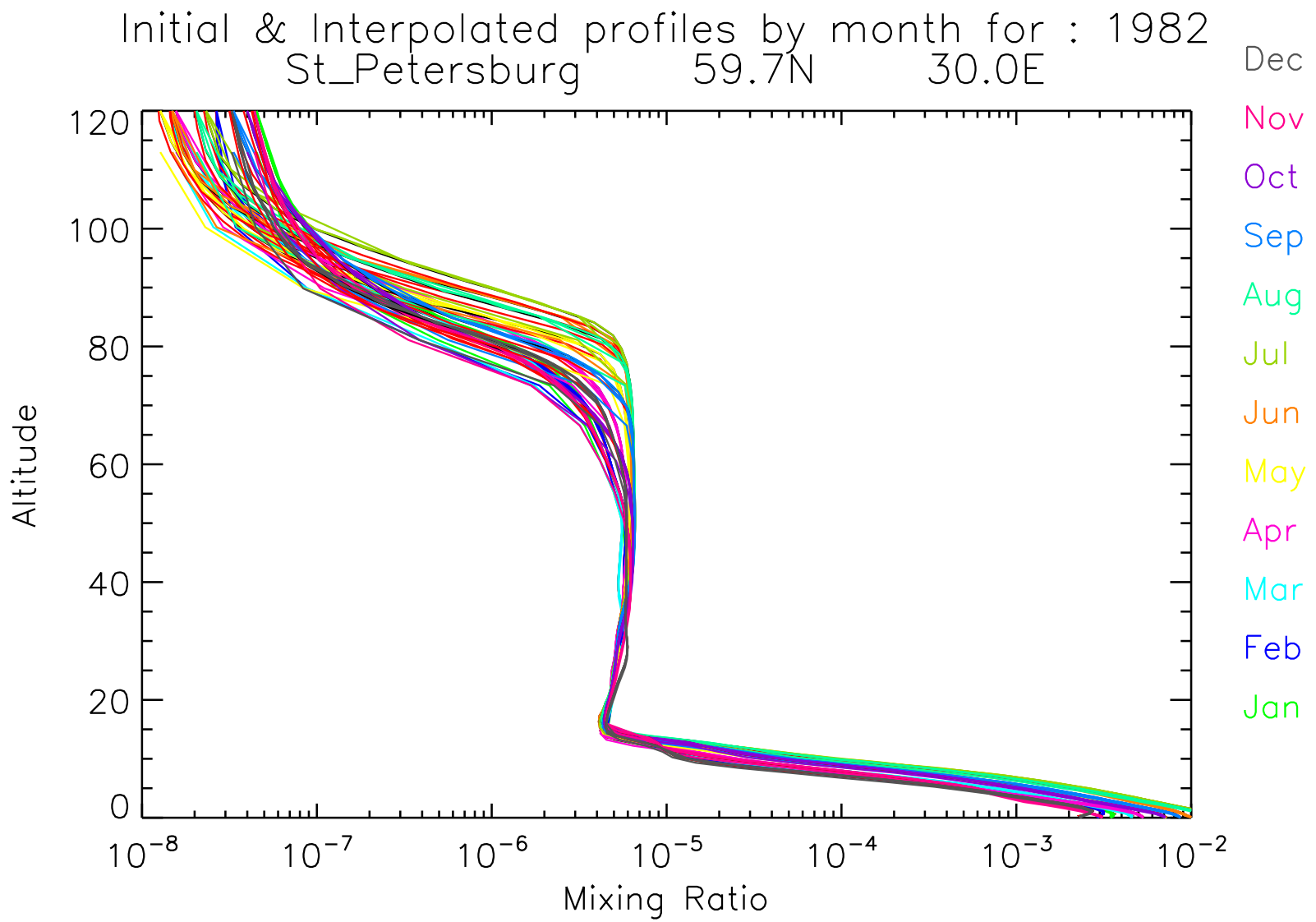
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Altitude
120
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Mixing Ratio
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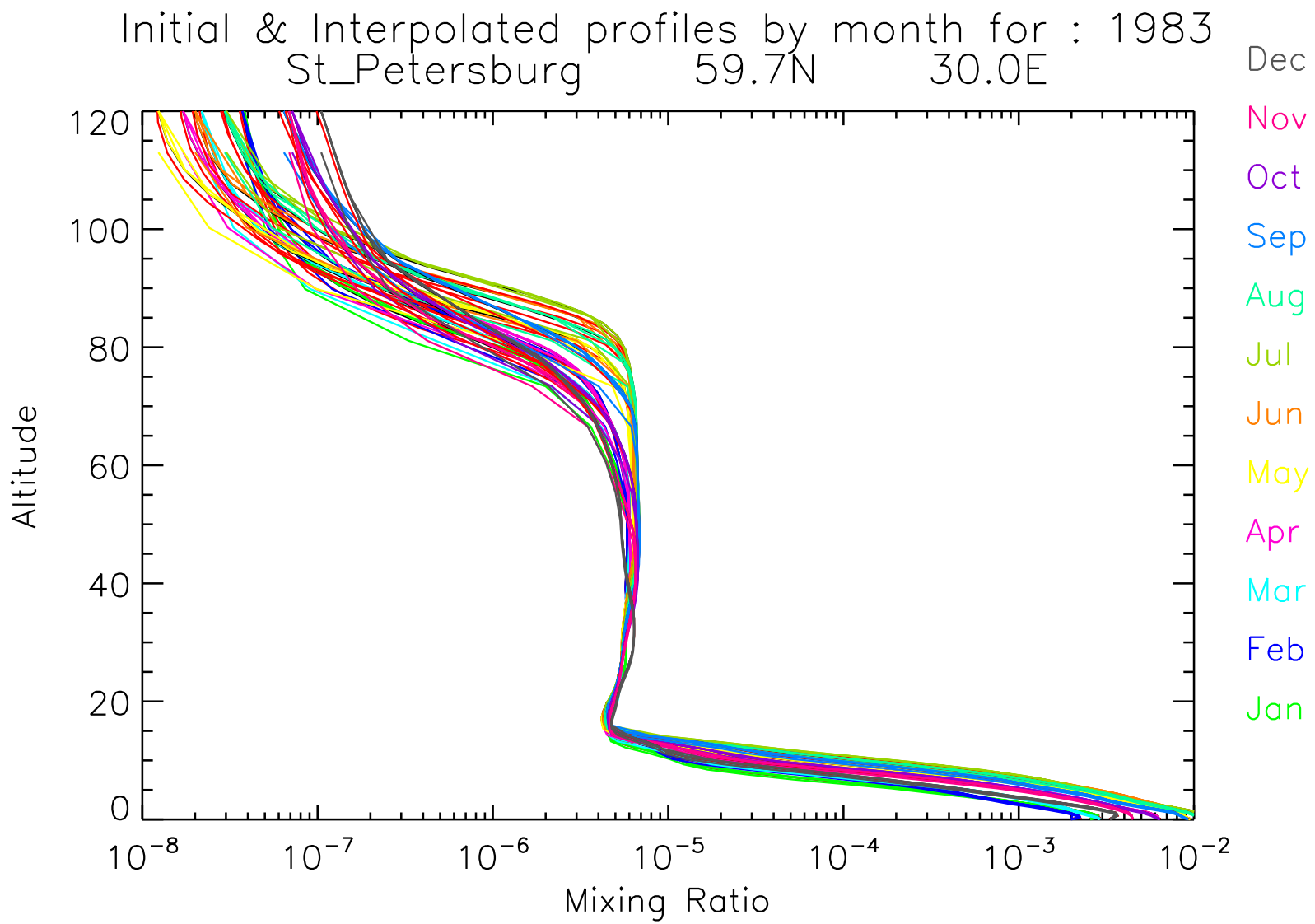
Initial & Interpolated profiles by month for : 1983
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Altitude
120
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Mixing Ratio
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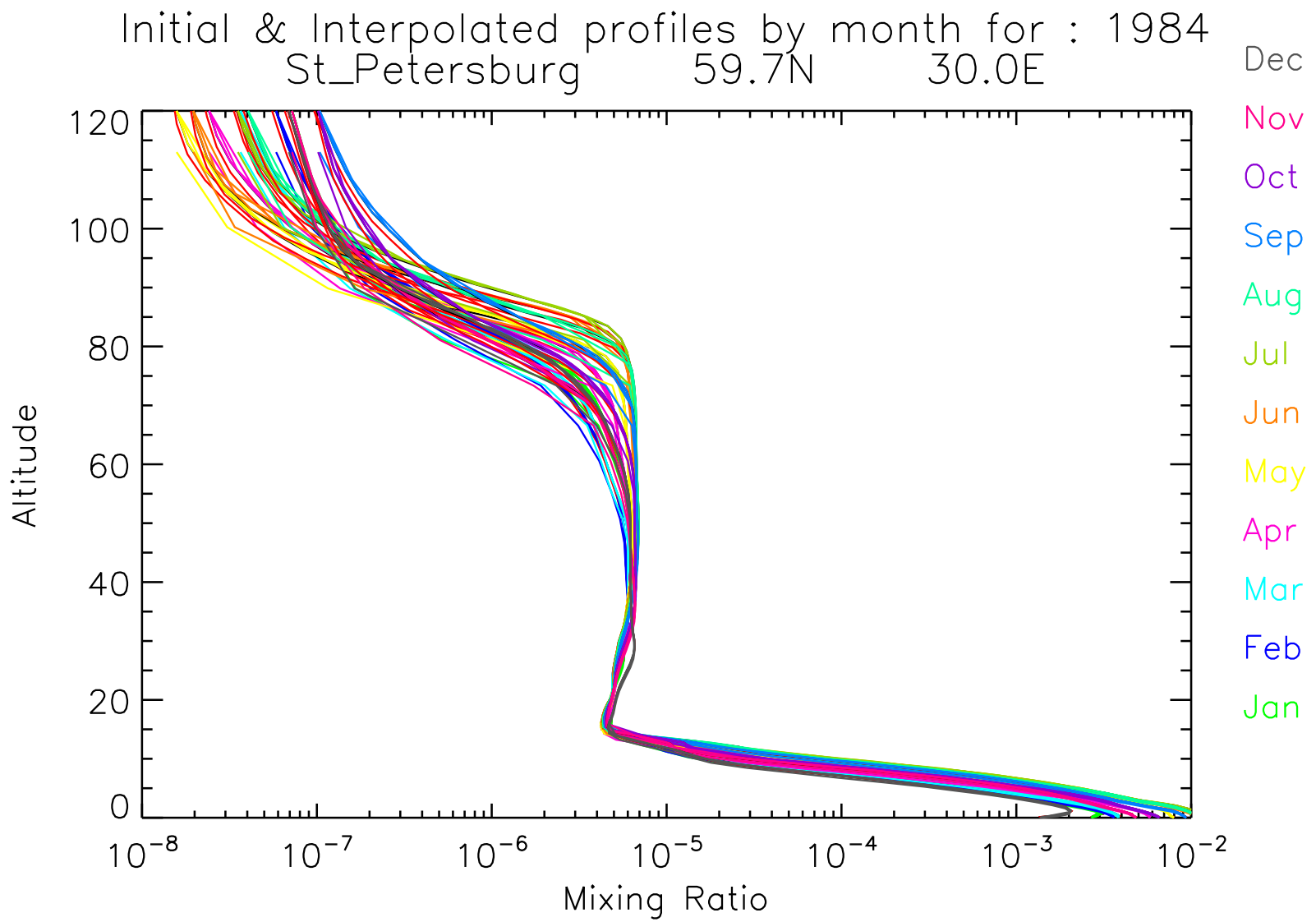
Initial & Interpolated profiles by month for : 1984
St_Petersburg 59.7N 30.0E
Altitude
120
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Mixing Ratio
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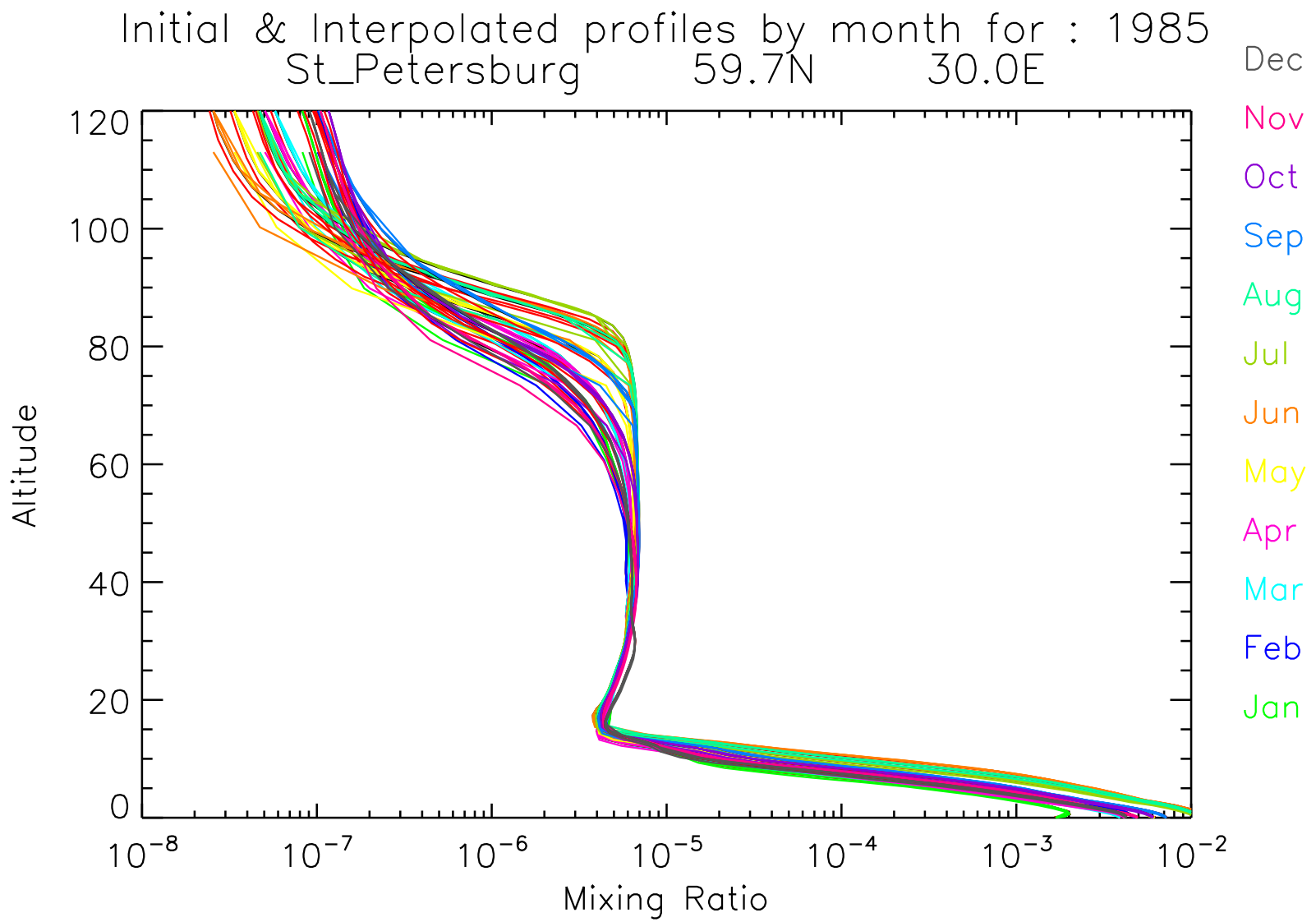
Initial & Interpolated profiles by month for : 1985
St_Petersburg 59.7N 30.0E
Altitude
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10^{-8}
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Mixing Ratio
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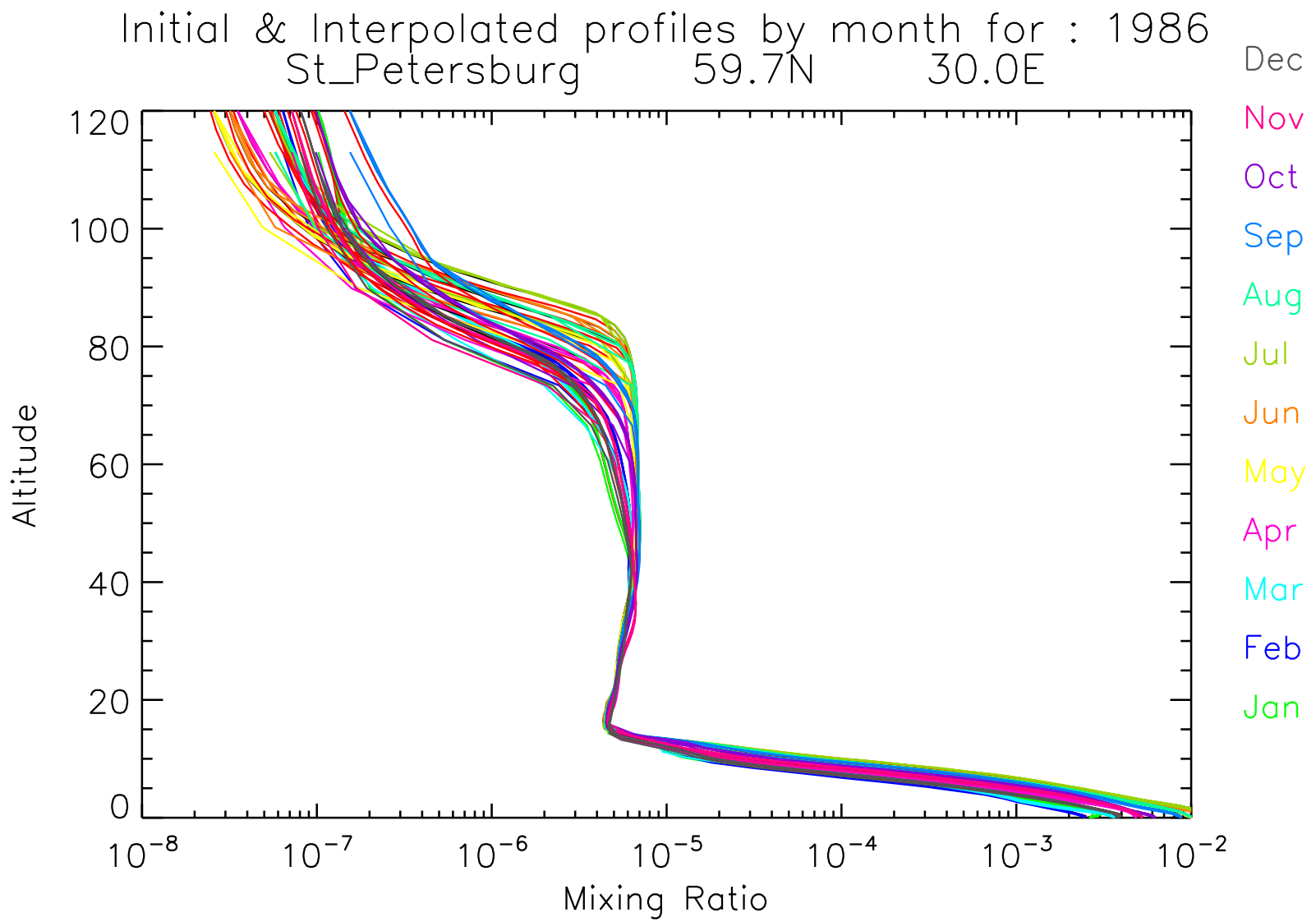
Initial & Interpolated profiles by month for : 1986
St_Petersburg 59.7N 30.0E
Altitude
120
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Mixing Ratio
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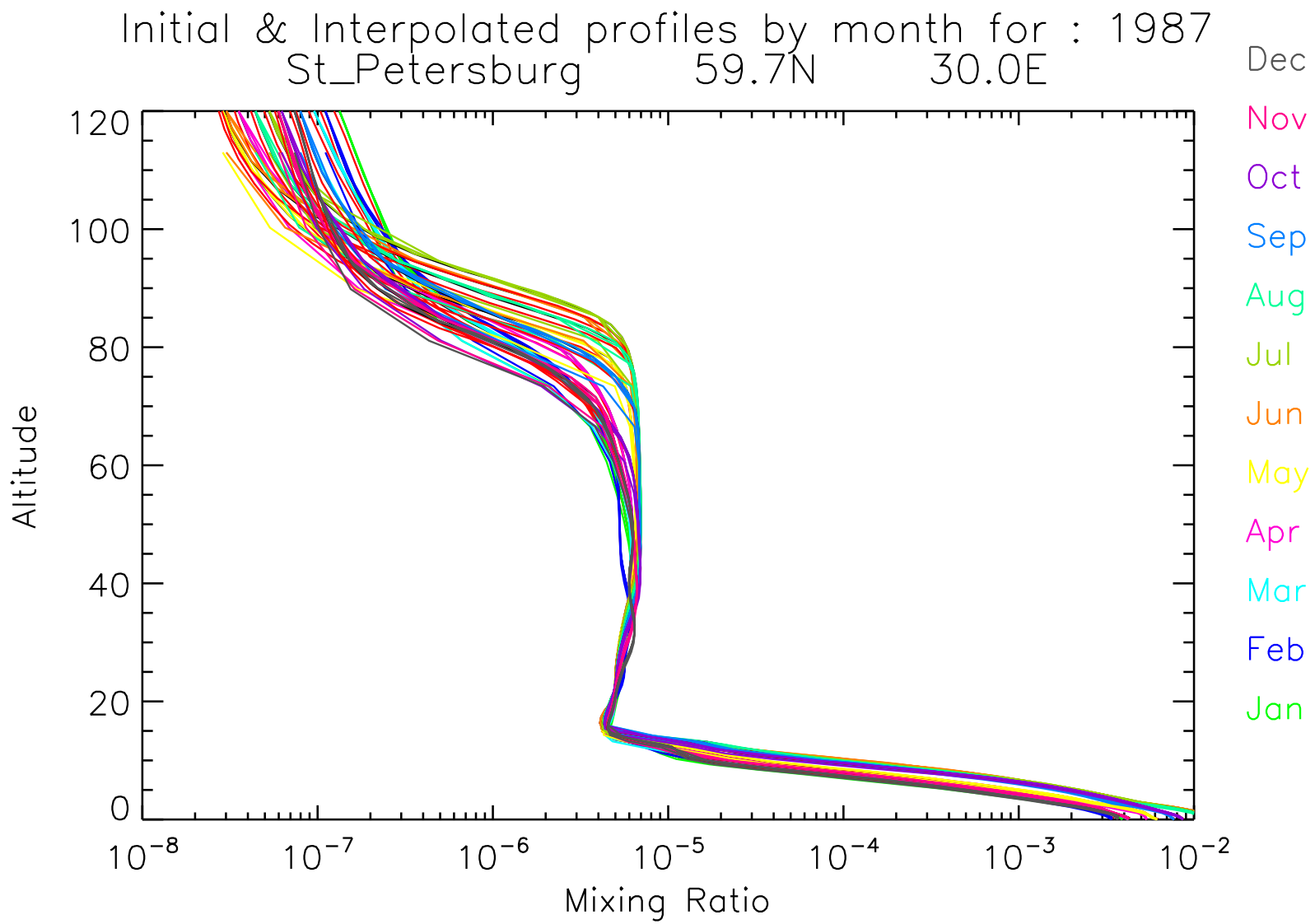
Initial & Interpolated profiles by month for : 1987
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Altitude
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Mixing Ratio
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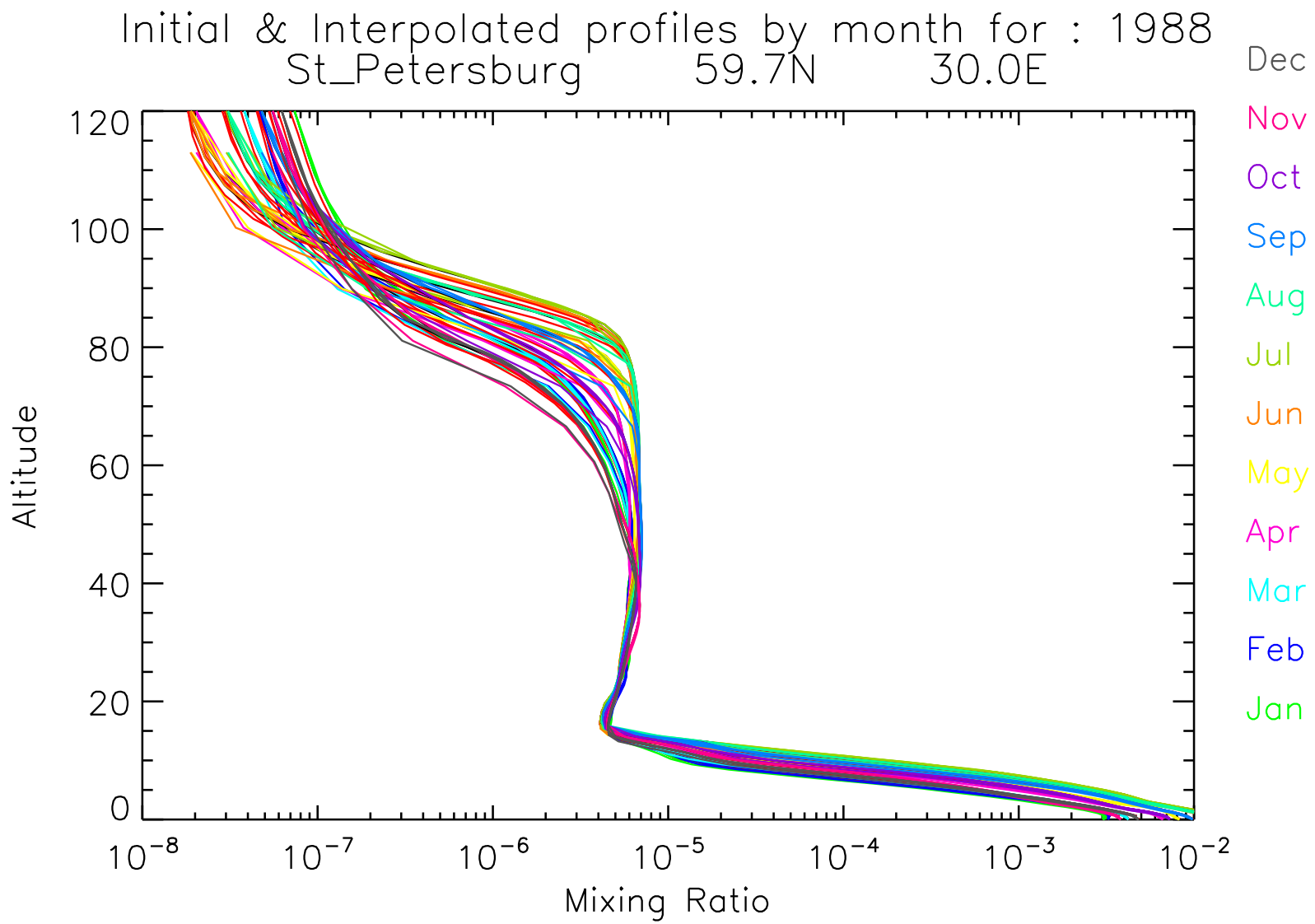
Initial & Interpolated profiles by month for : 1988
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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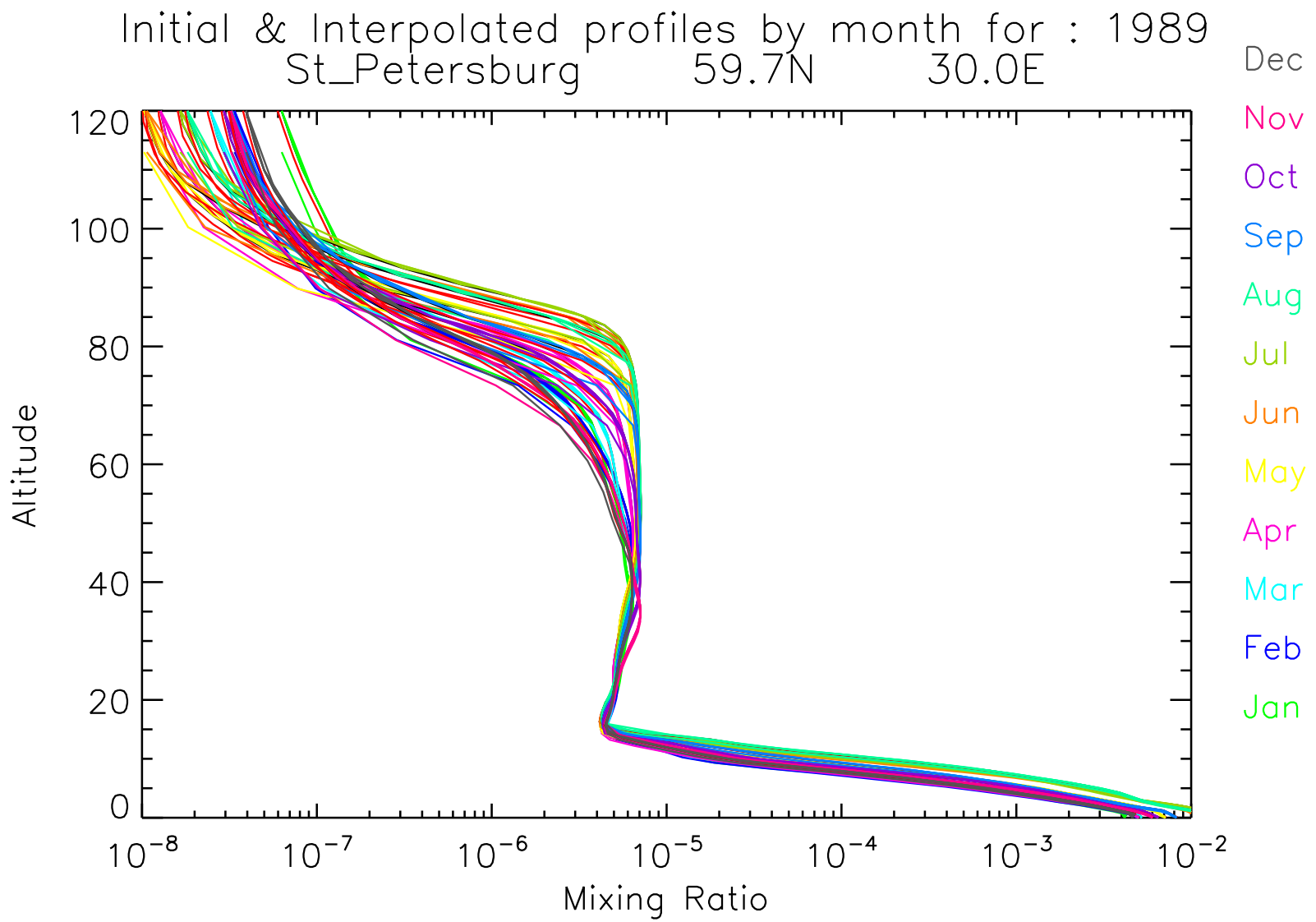
Initial & Interpolated profiles by month for : 1989
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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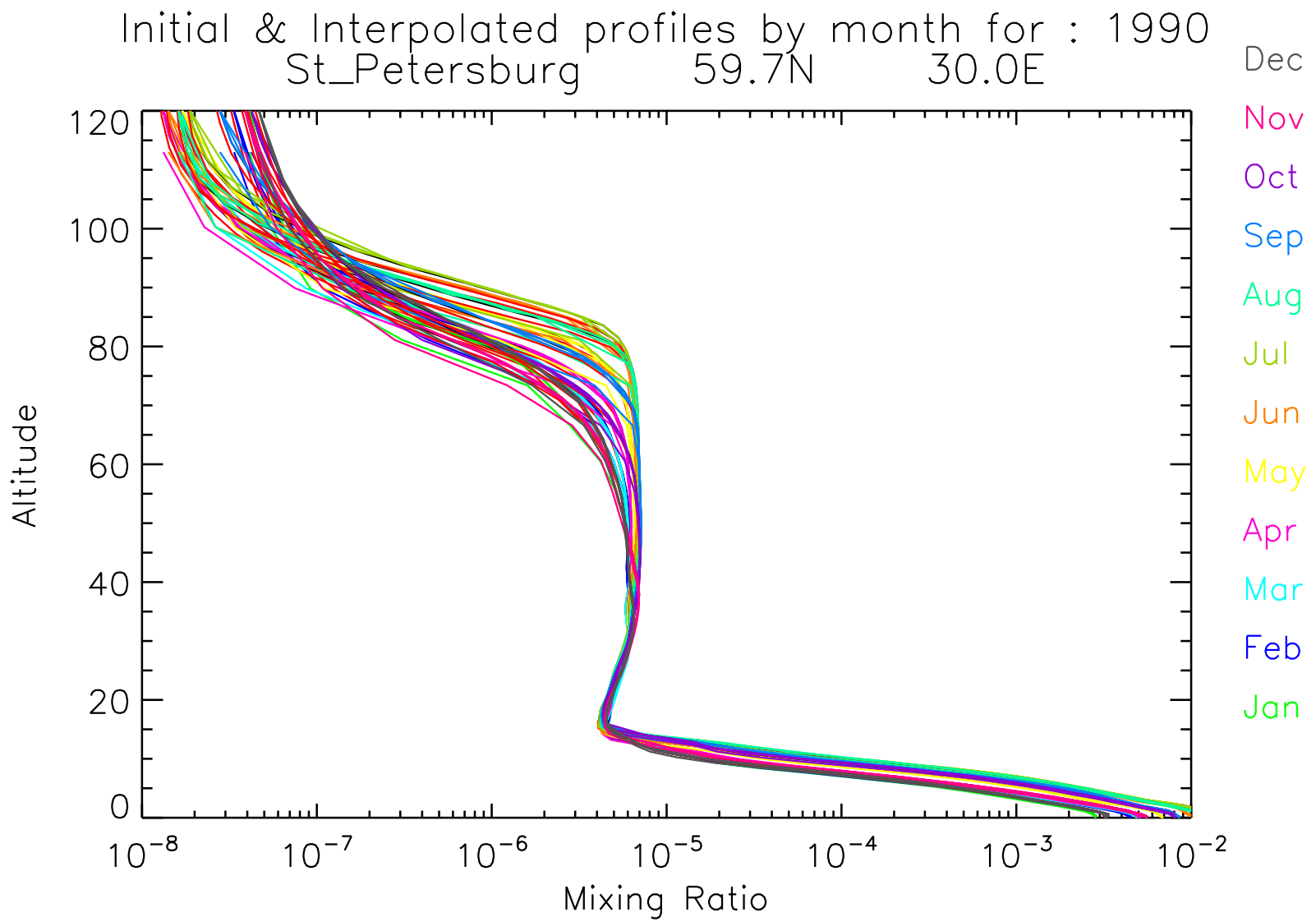
Initial & Interpolated profiles by month for : 1990
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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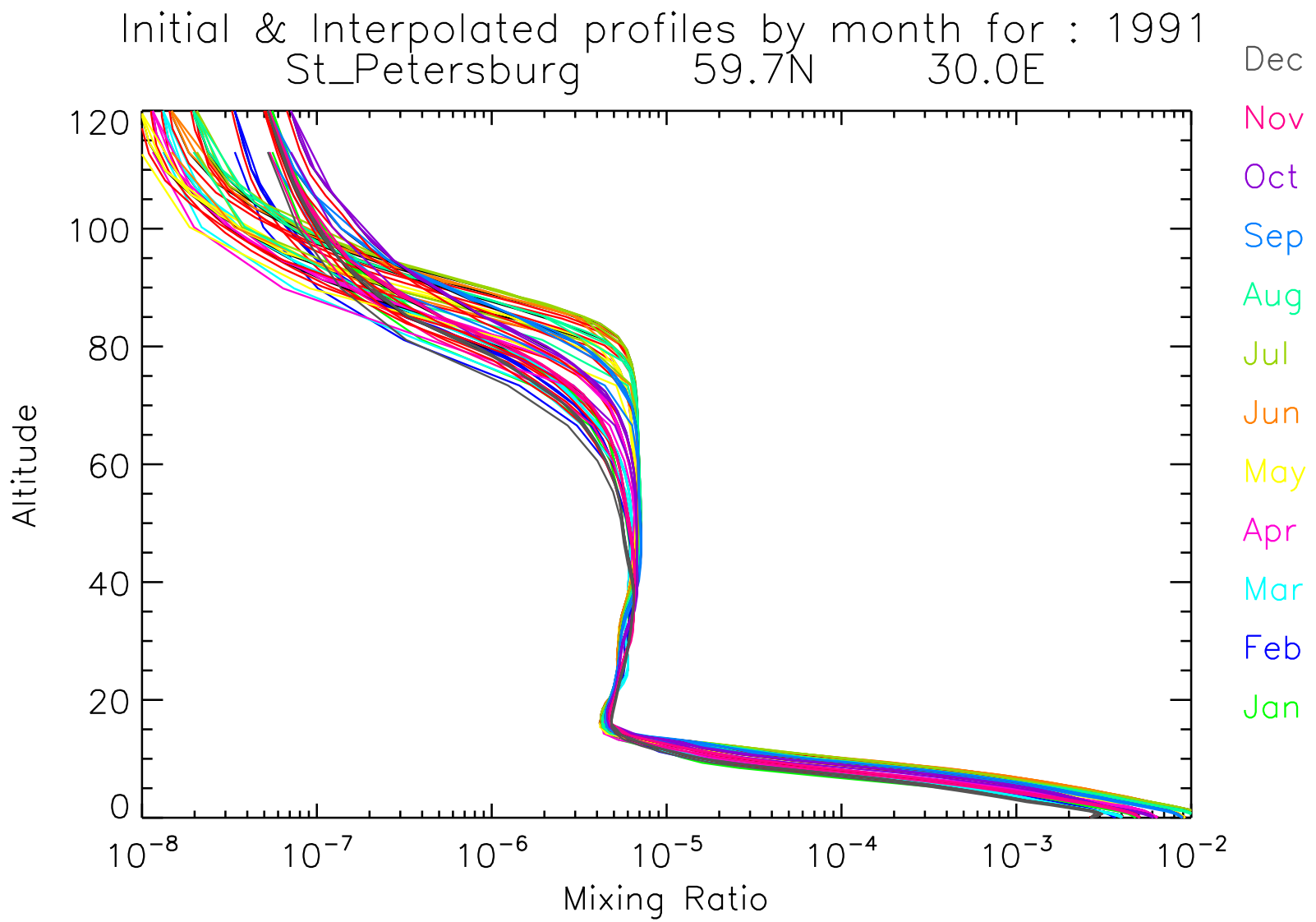
Initial & Interpolated profiles by month for : 1991
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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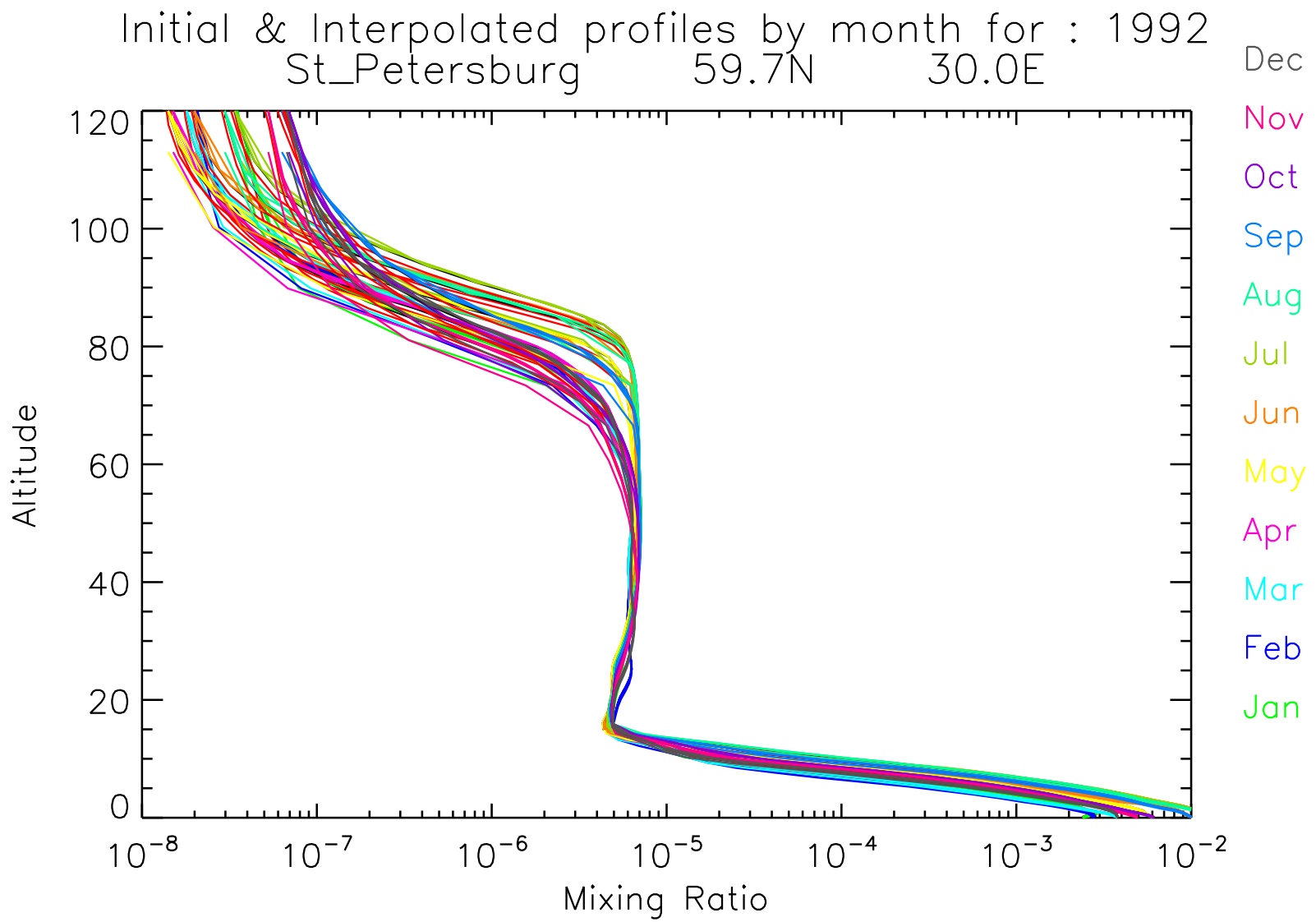
Initial & Interpolated profiles by month for : 1992
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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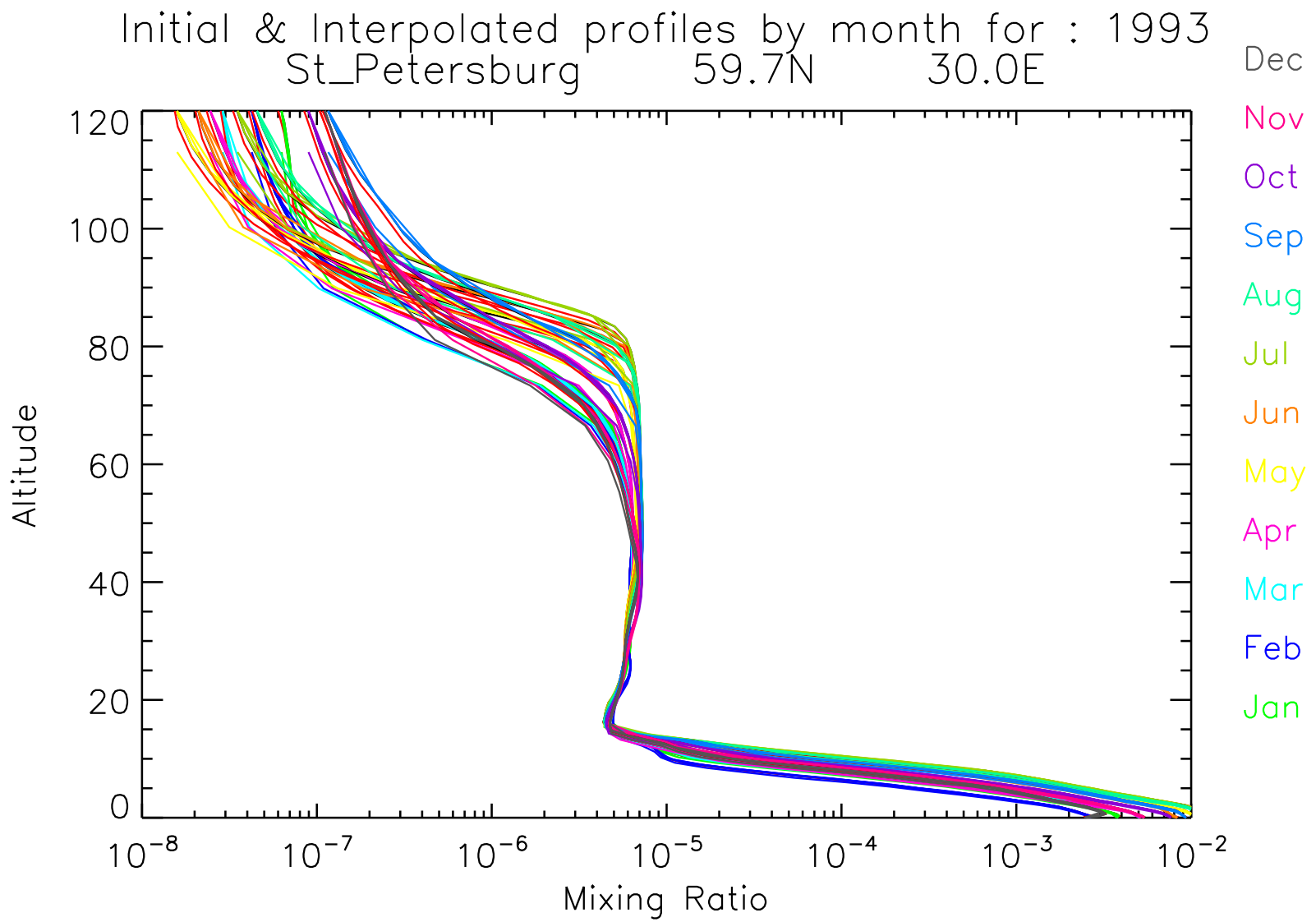
Initial & Interpolated profiles by month for : 1993
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Altitude
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Mixing Ratio
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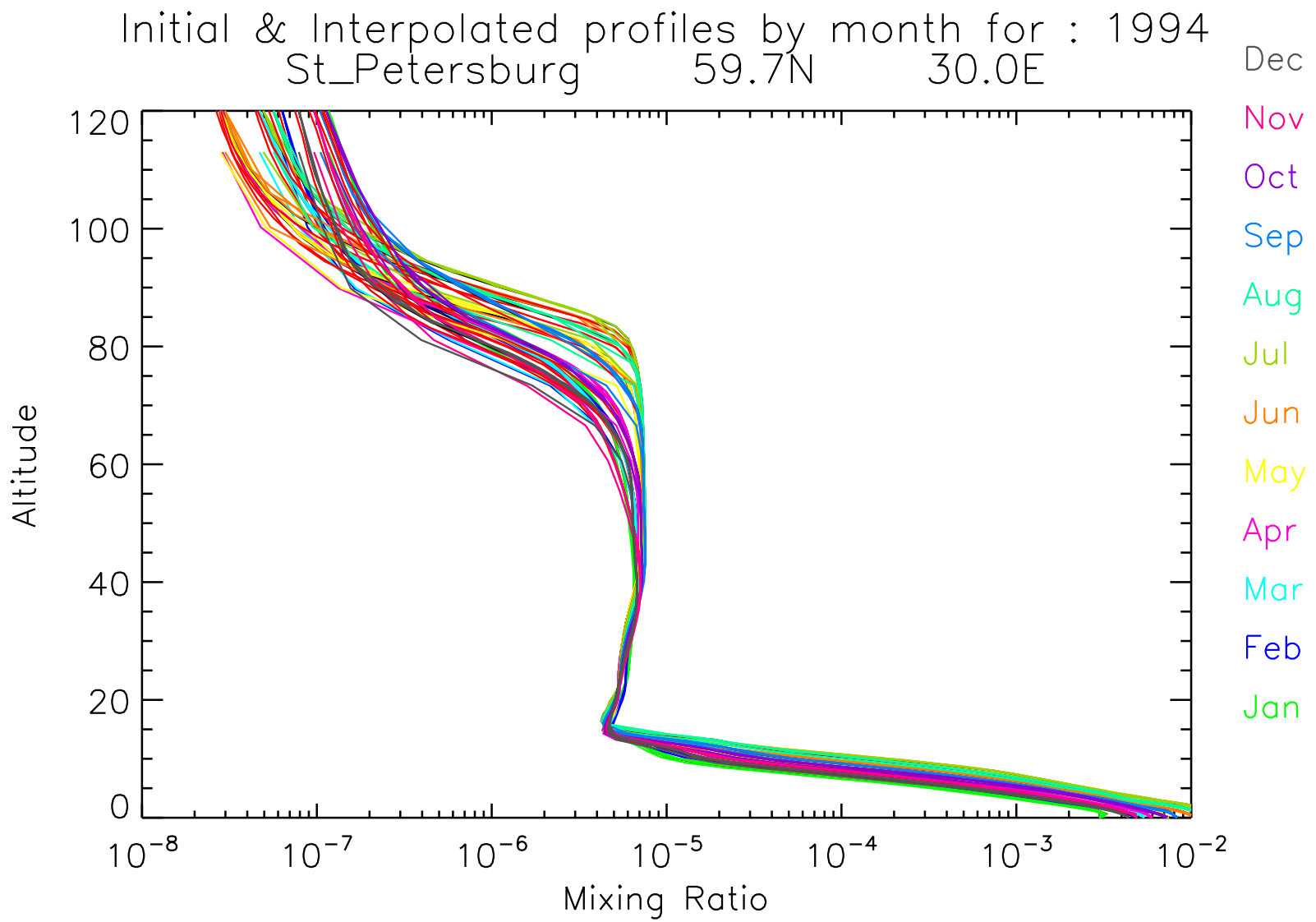
Initial & Interpolated profiles by month for : 1994
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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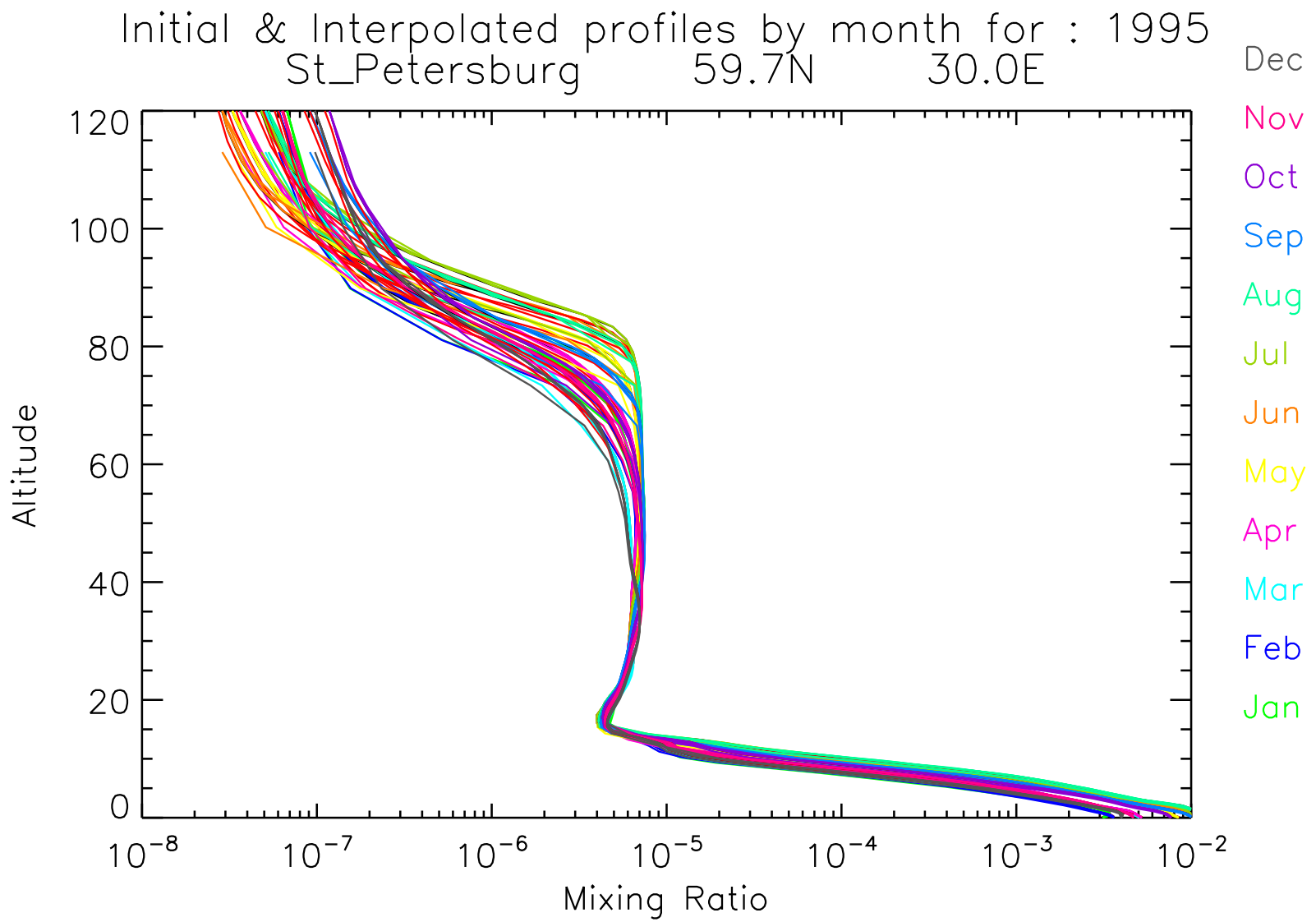
Initial & Interpolated profiles by month for : 1995
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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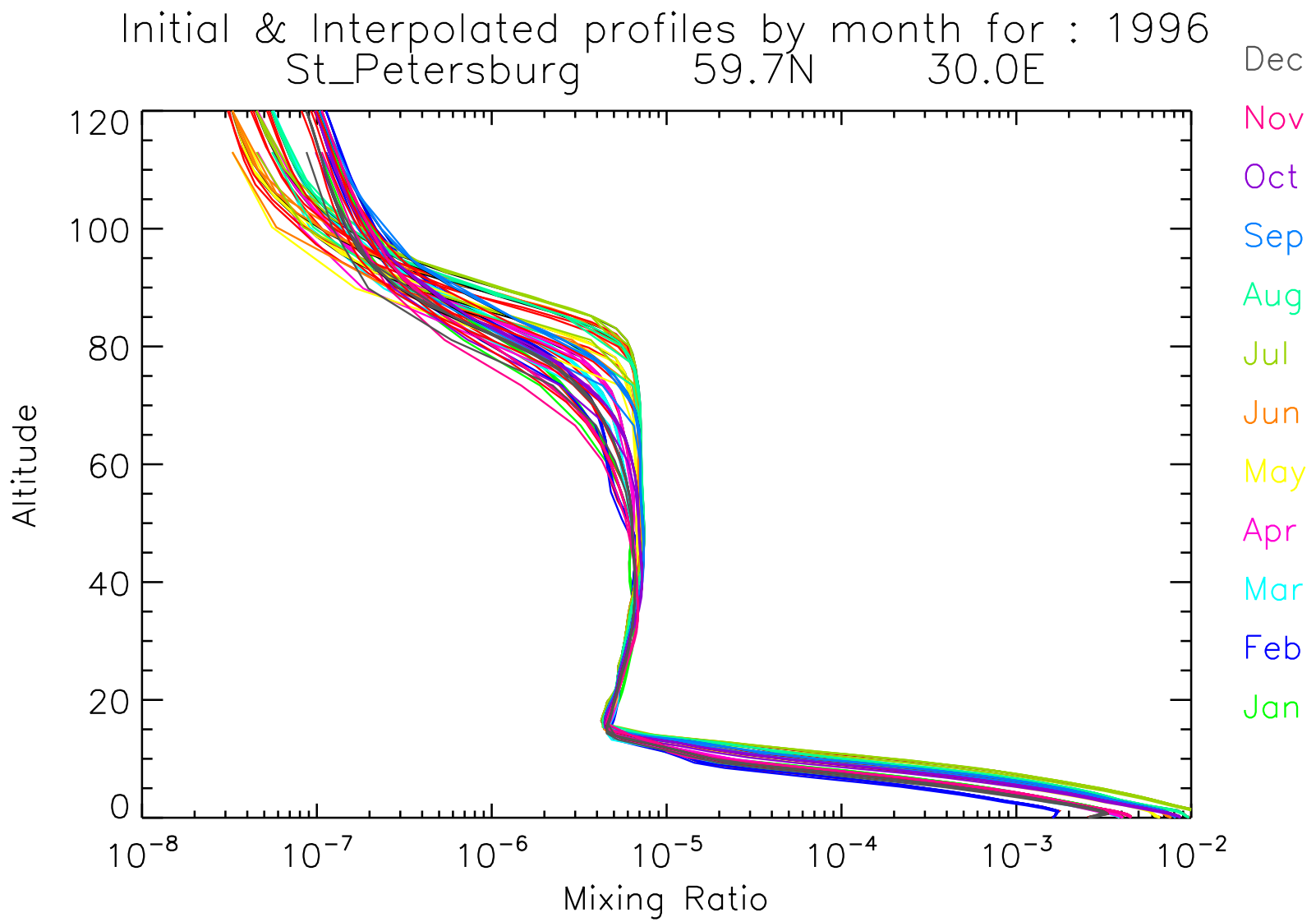
Initial & Interpolated profiles by month for : 1996
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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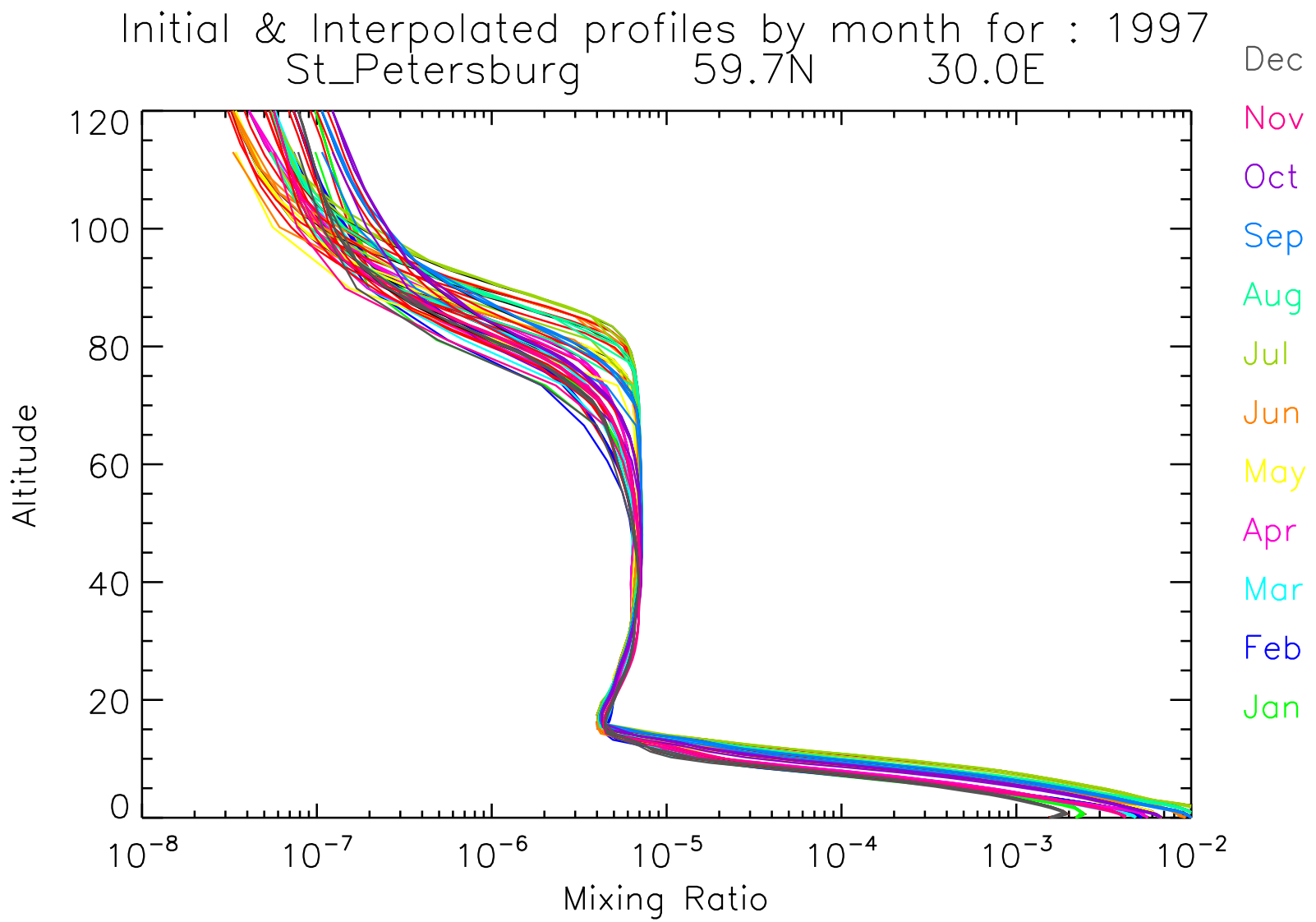
Initial & Interpolated profiles by month for : 1997
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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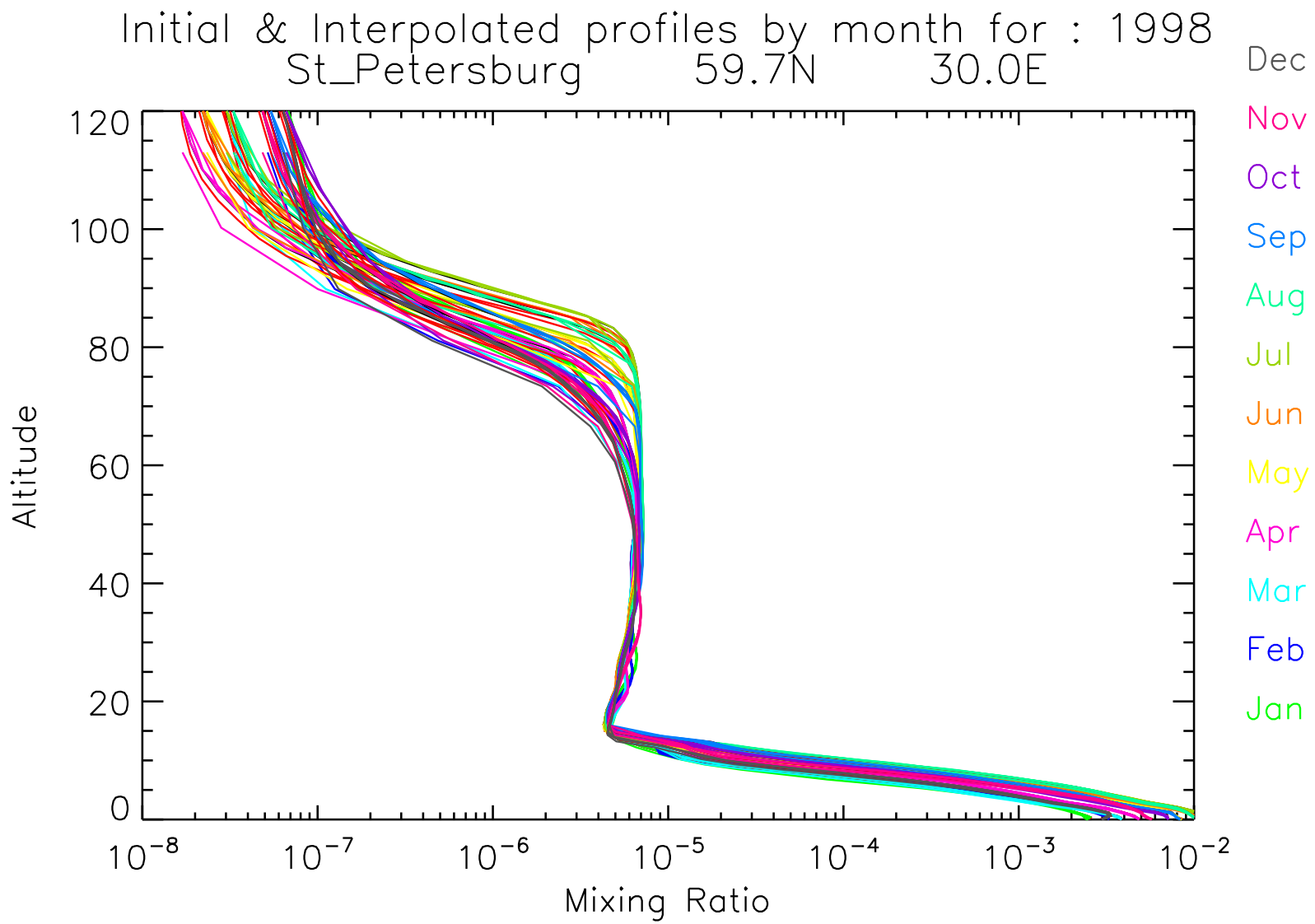
Initial & Interpolated profiles by month for : 1998
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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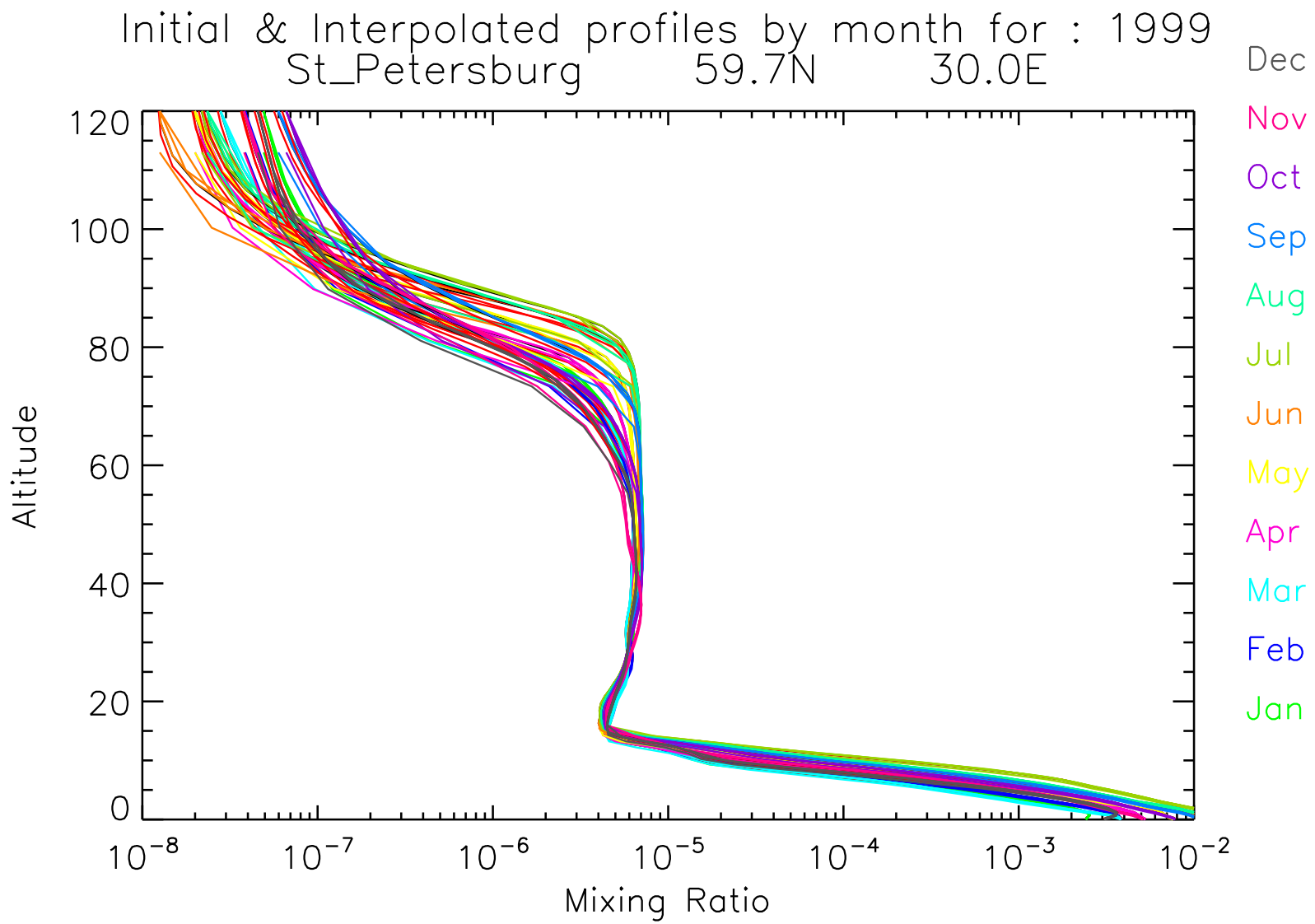
Initial & Interpolated profiles by month for : 1999
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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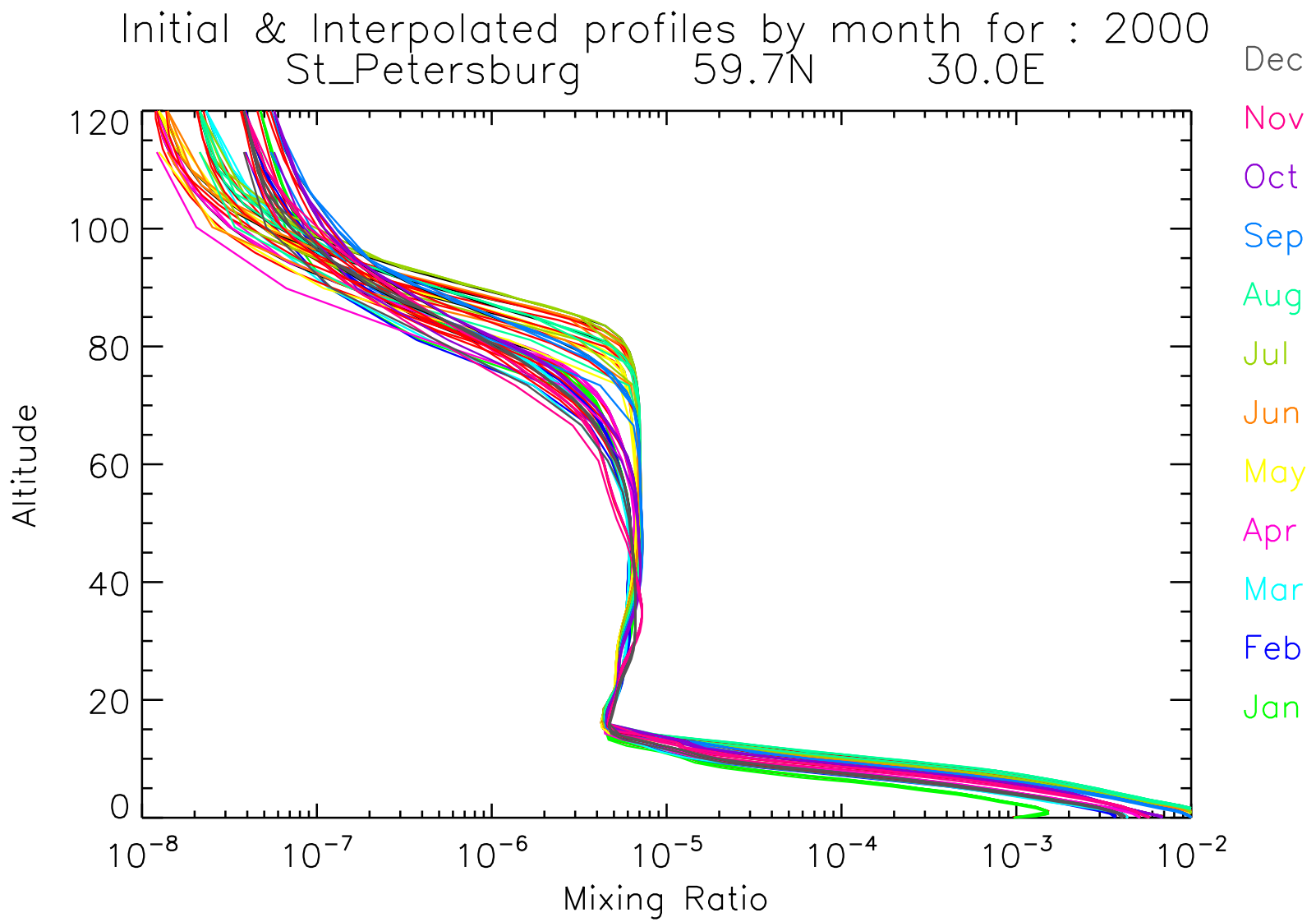
Initial & Interpolated profiles by month for : 2000
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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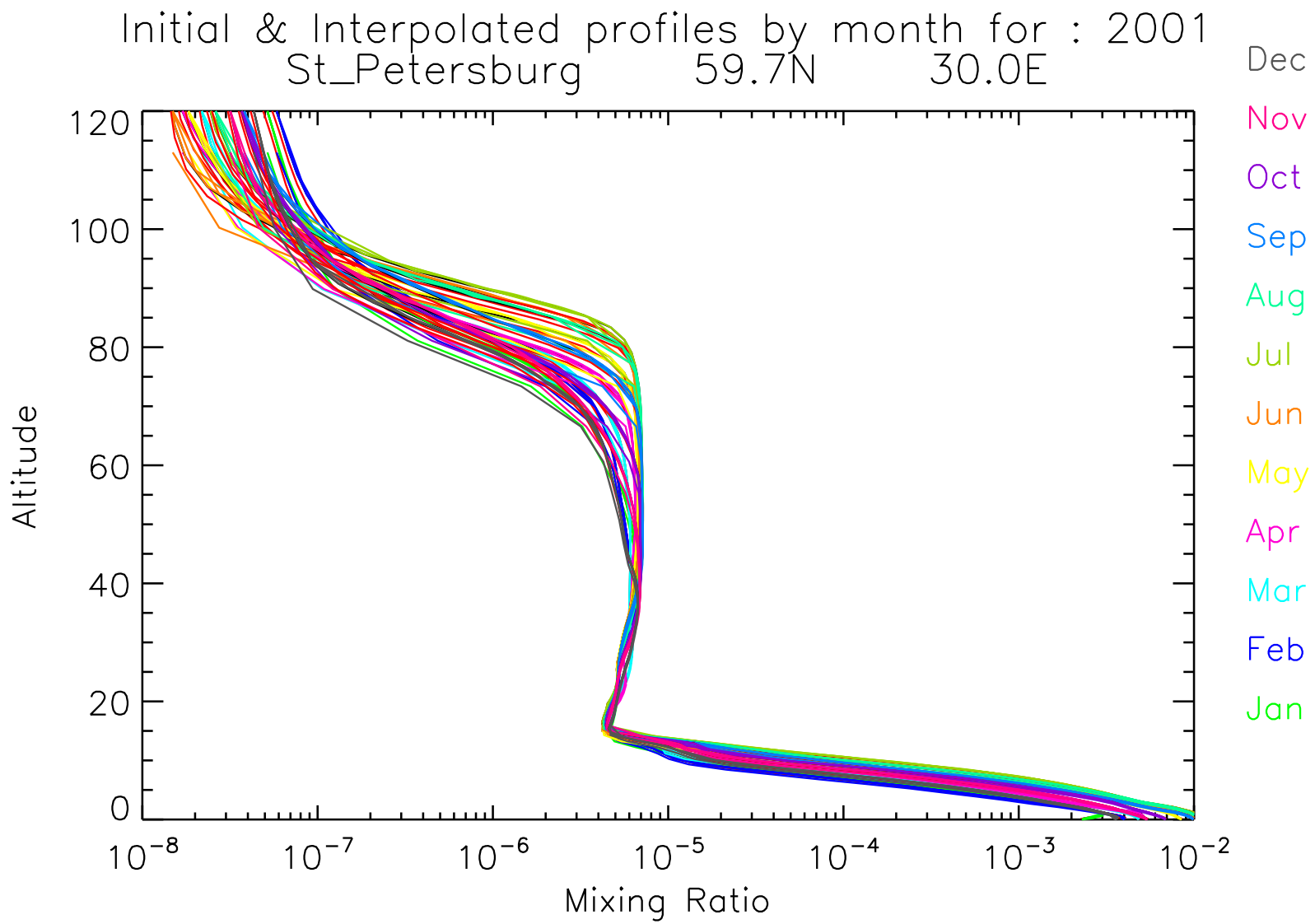
Initial & Interpolated profiles by month for : 2001
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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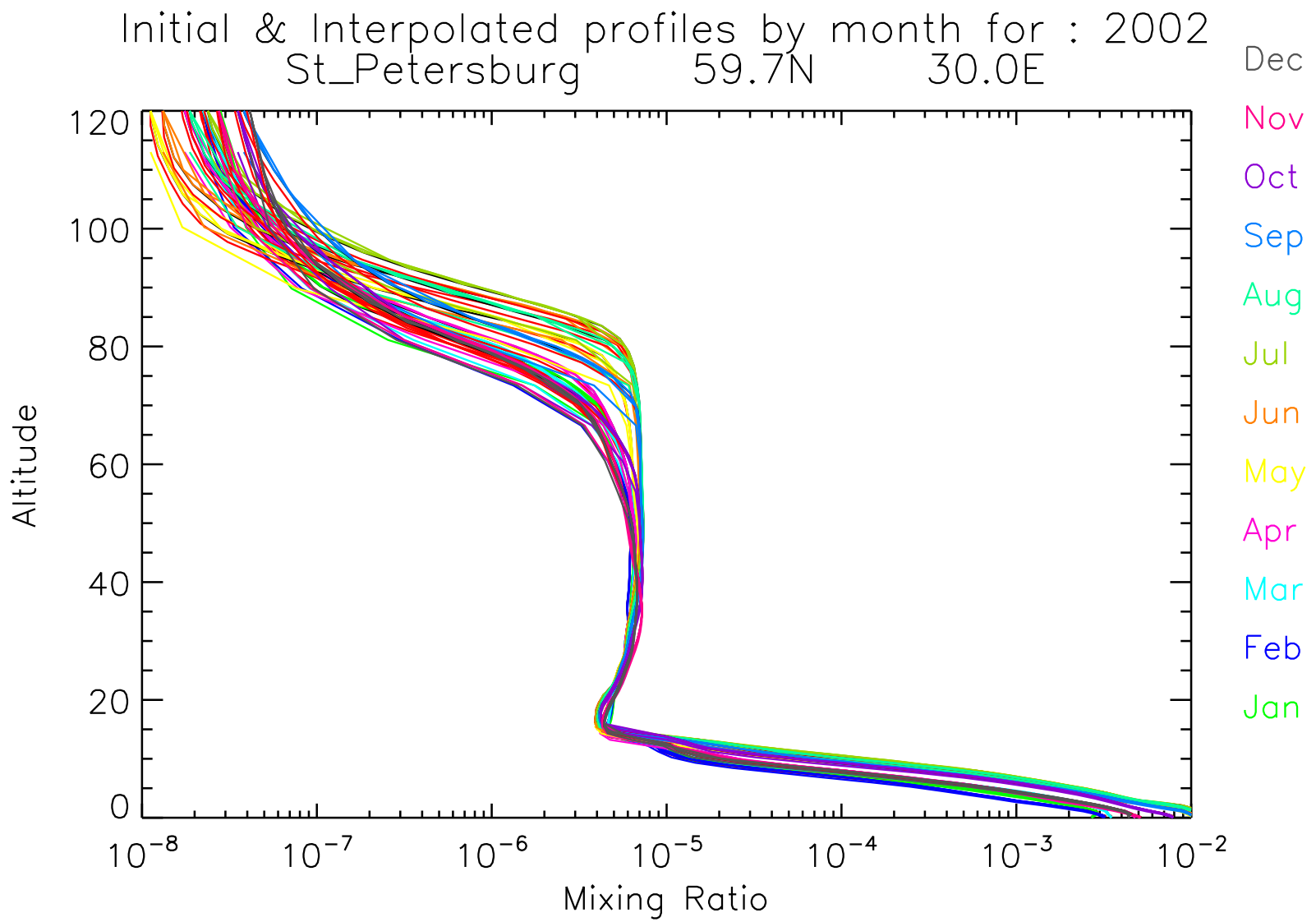
Initial & Interpolated profiles by month for : 2002
St_Petersburg 59.7N 30.0E
Altitude
120
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Mixing Ratio
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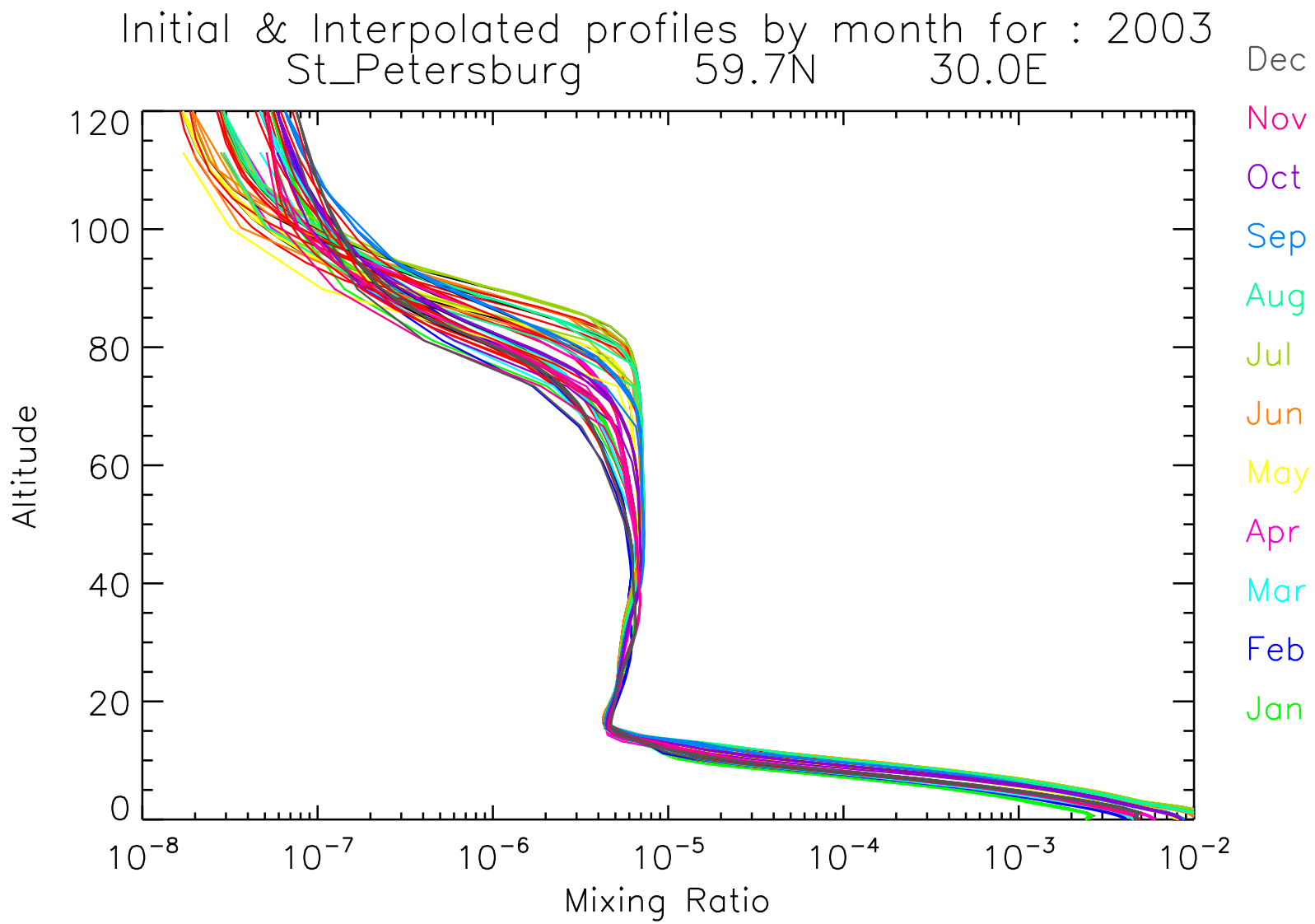
Initial & Interpolated profiles by month for : 2003
St_Petersburg 59.7N 30.0E
Altitude
120
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Mixing Ratio
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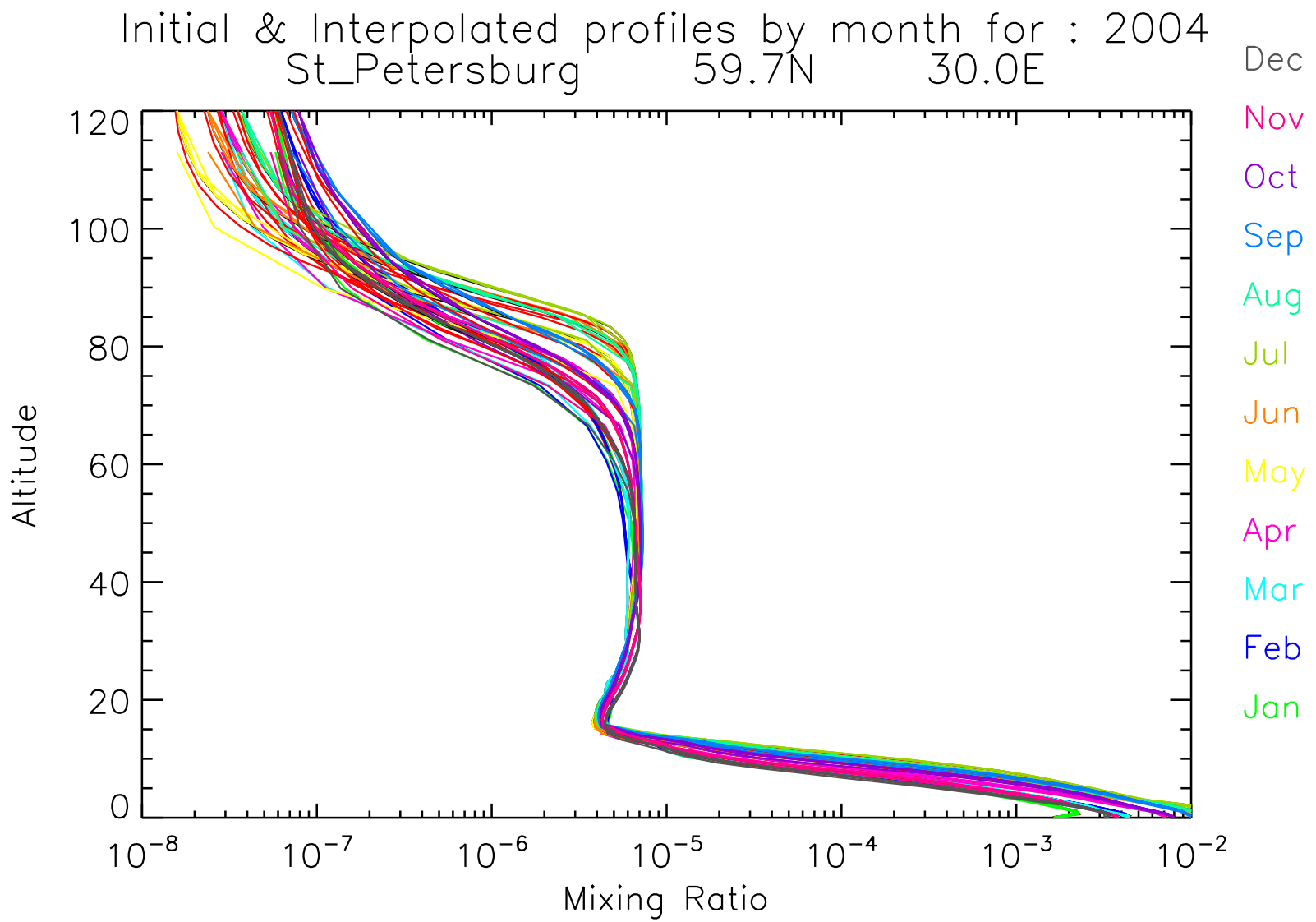
Initial & Interpolated profiles by month for : 2004
St_Petersburg 59.7N 30.0E
Altitude
120
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Mixing Ratio
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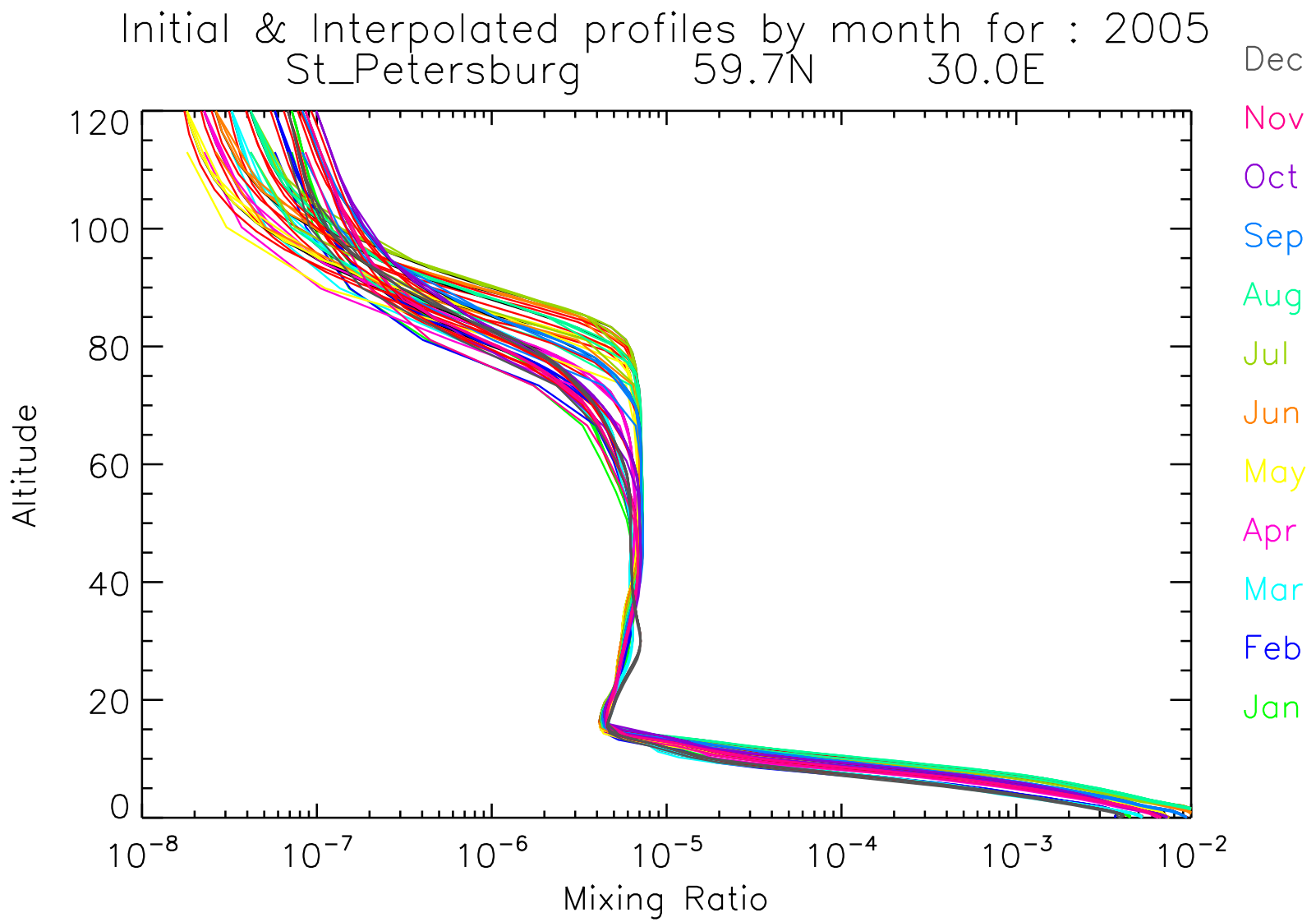
Initial & Interpolated profiles by month for : 2005
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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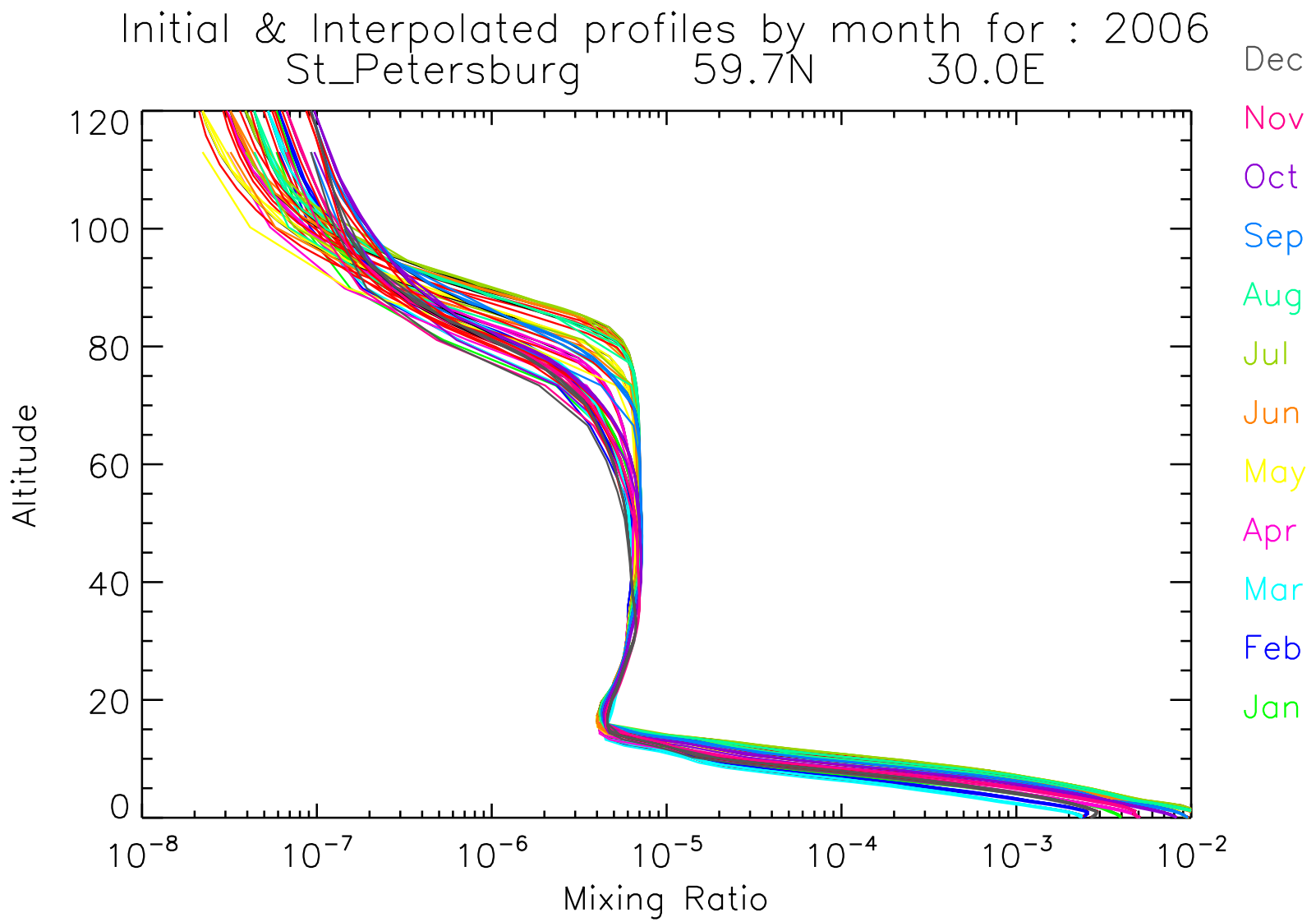
Initial & Interpolated profiles by month for : 2006
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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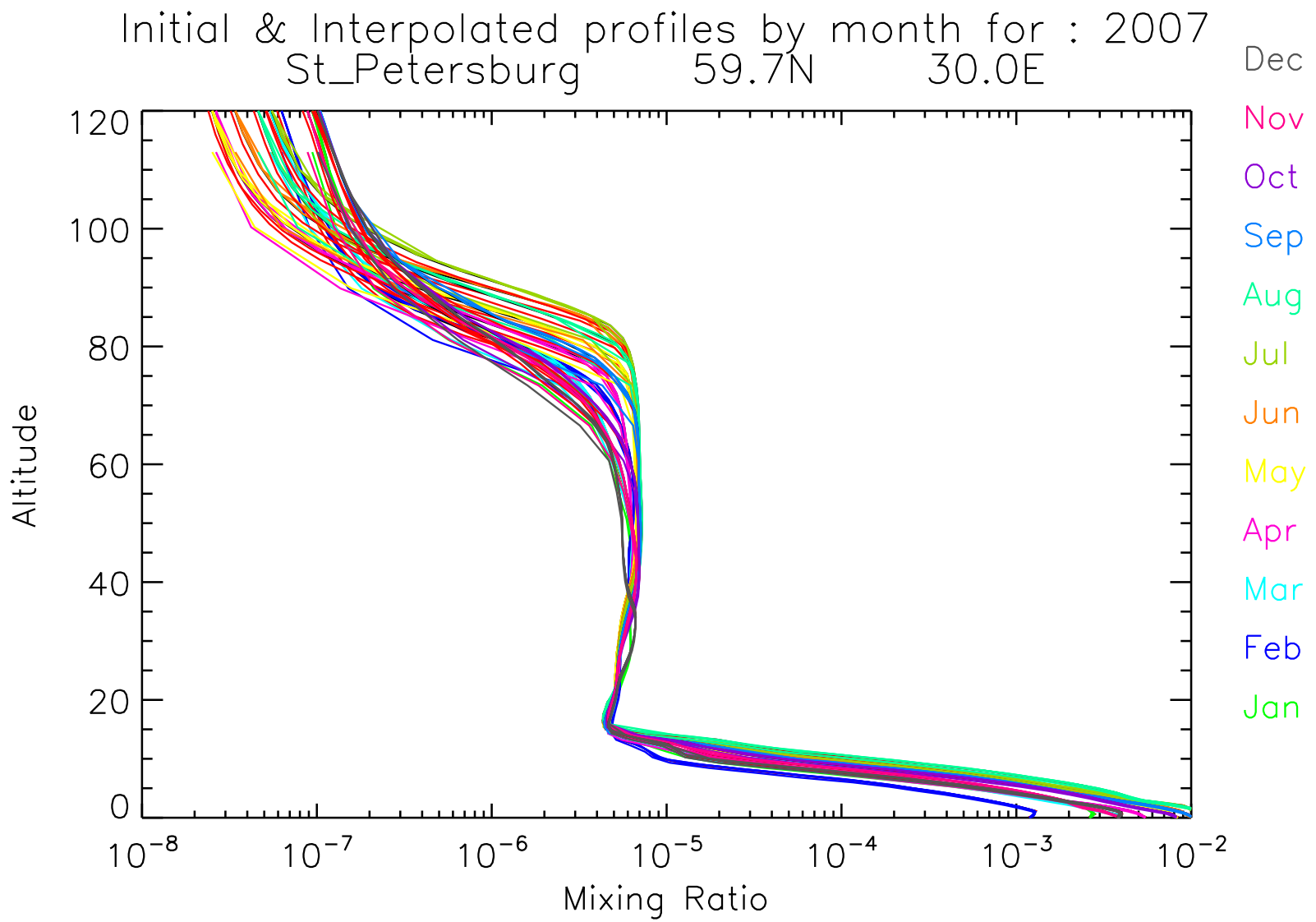
Initial & Interpolated profiles by month for : 2007
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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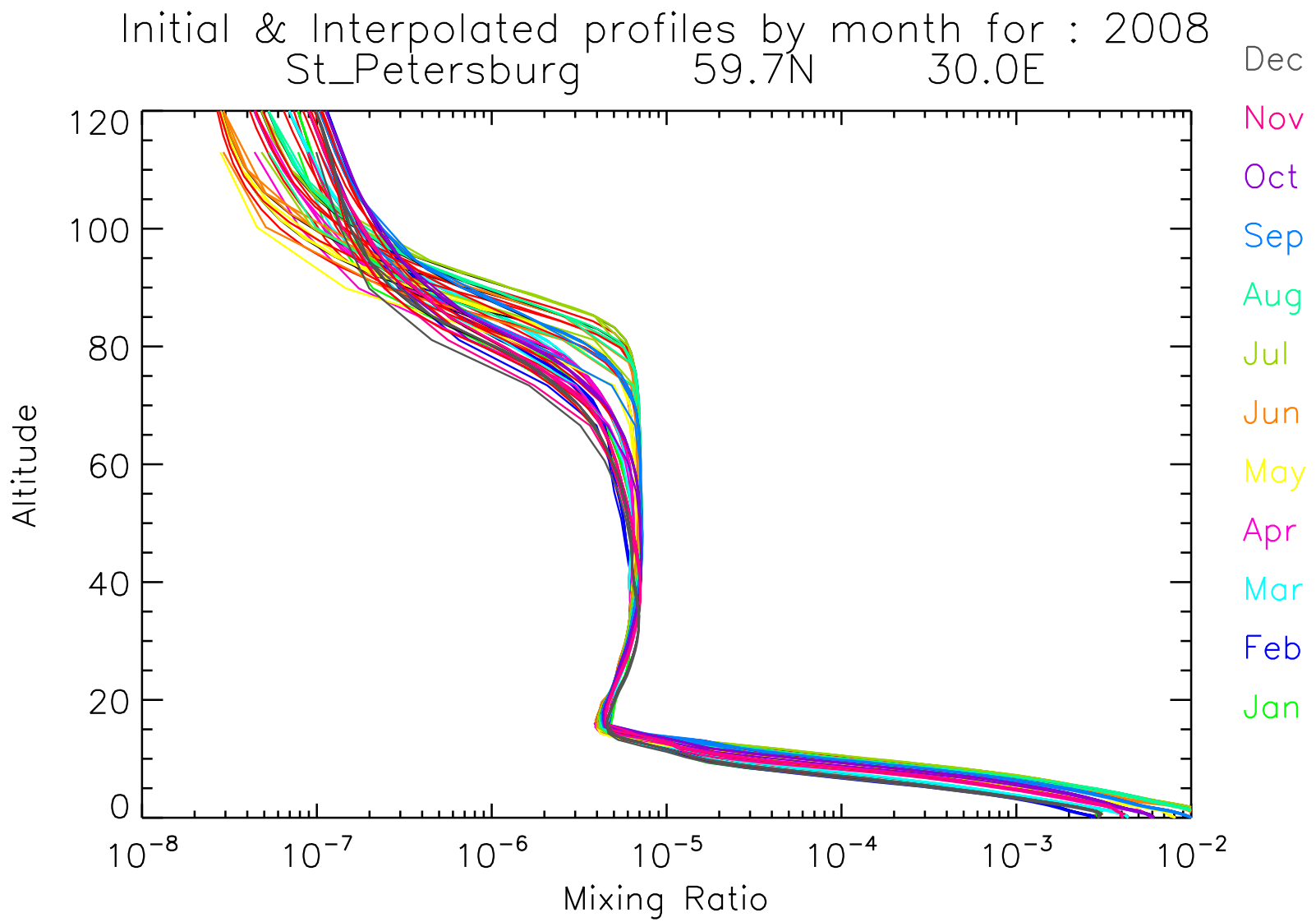
Initial & Interpolated profiles by month for : 2008
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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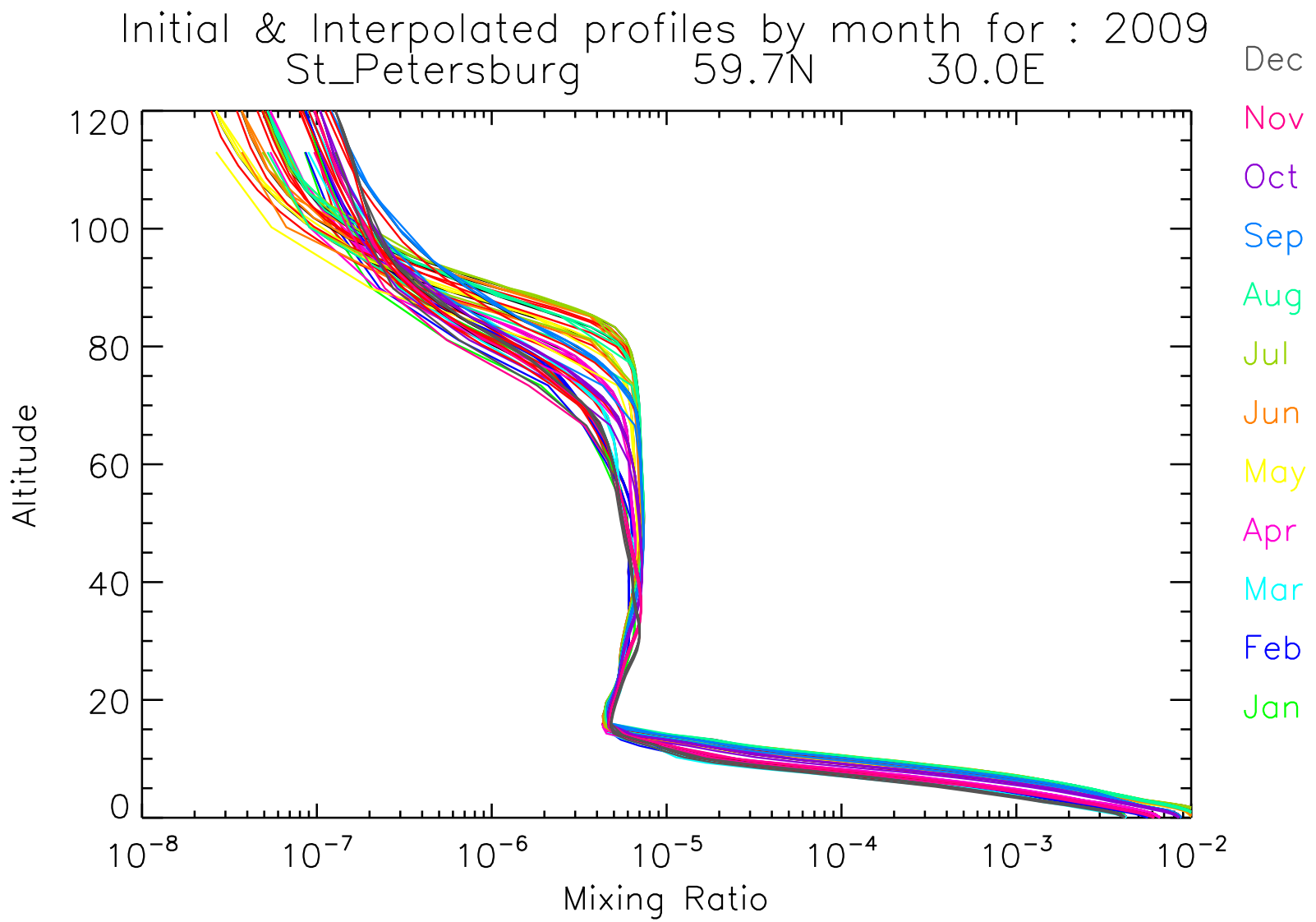
Initial & Interpolated profiles by month for : 2009
St_Petersburg 59.7N 30.0E
Altitude
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Mixing Ratio
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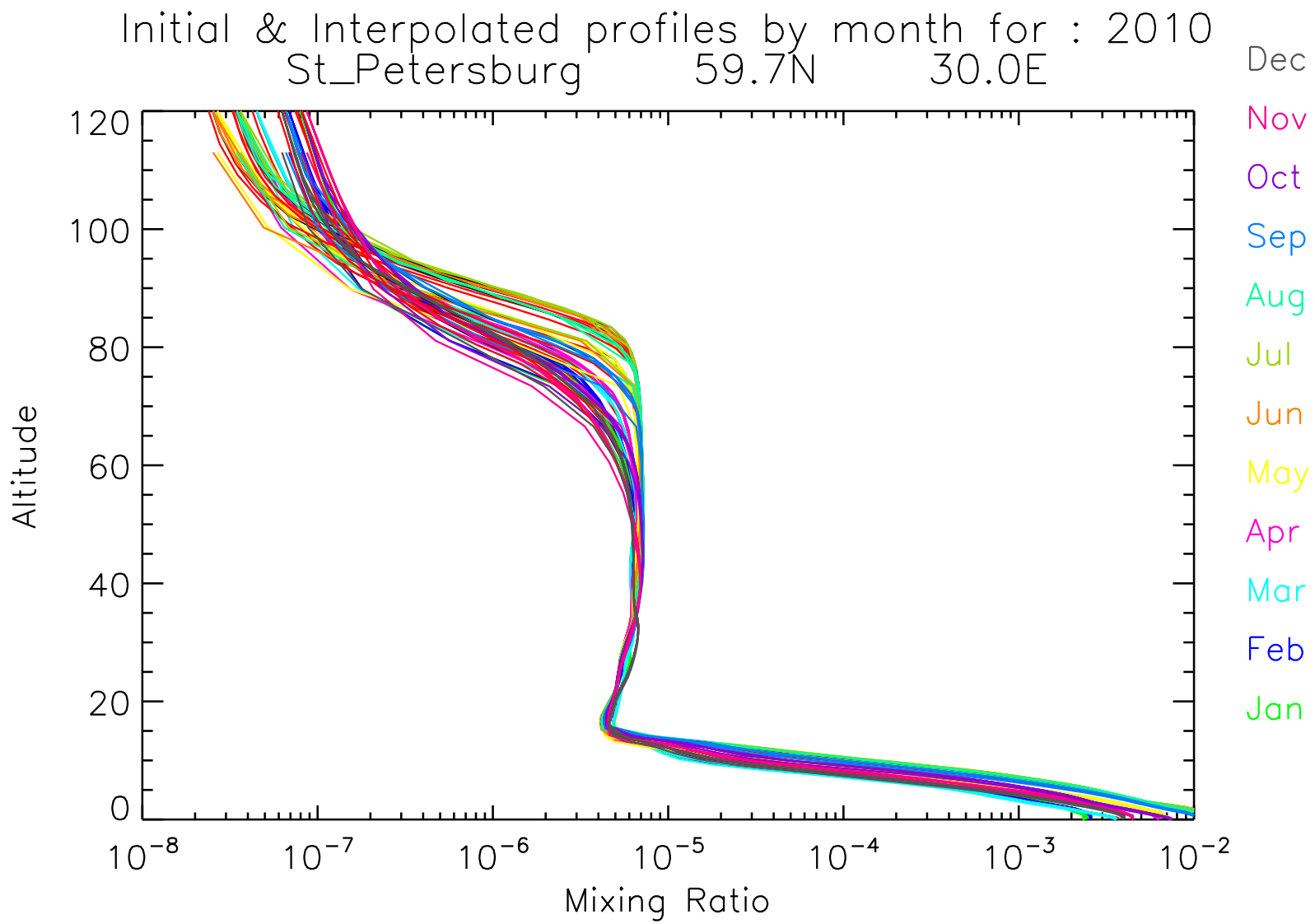
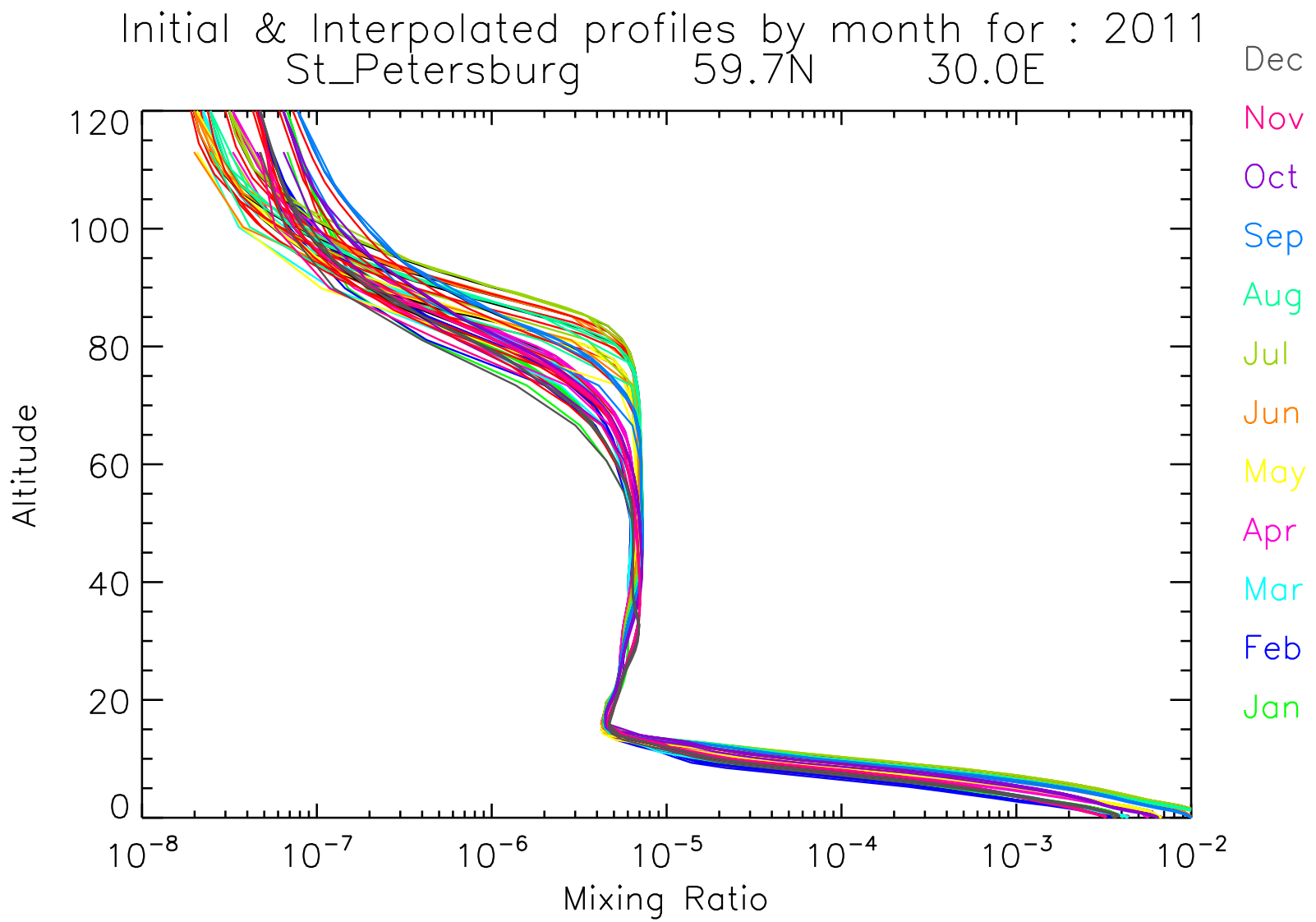
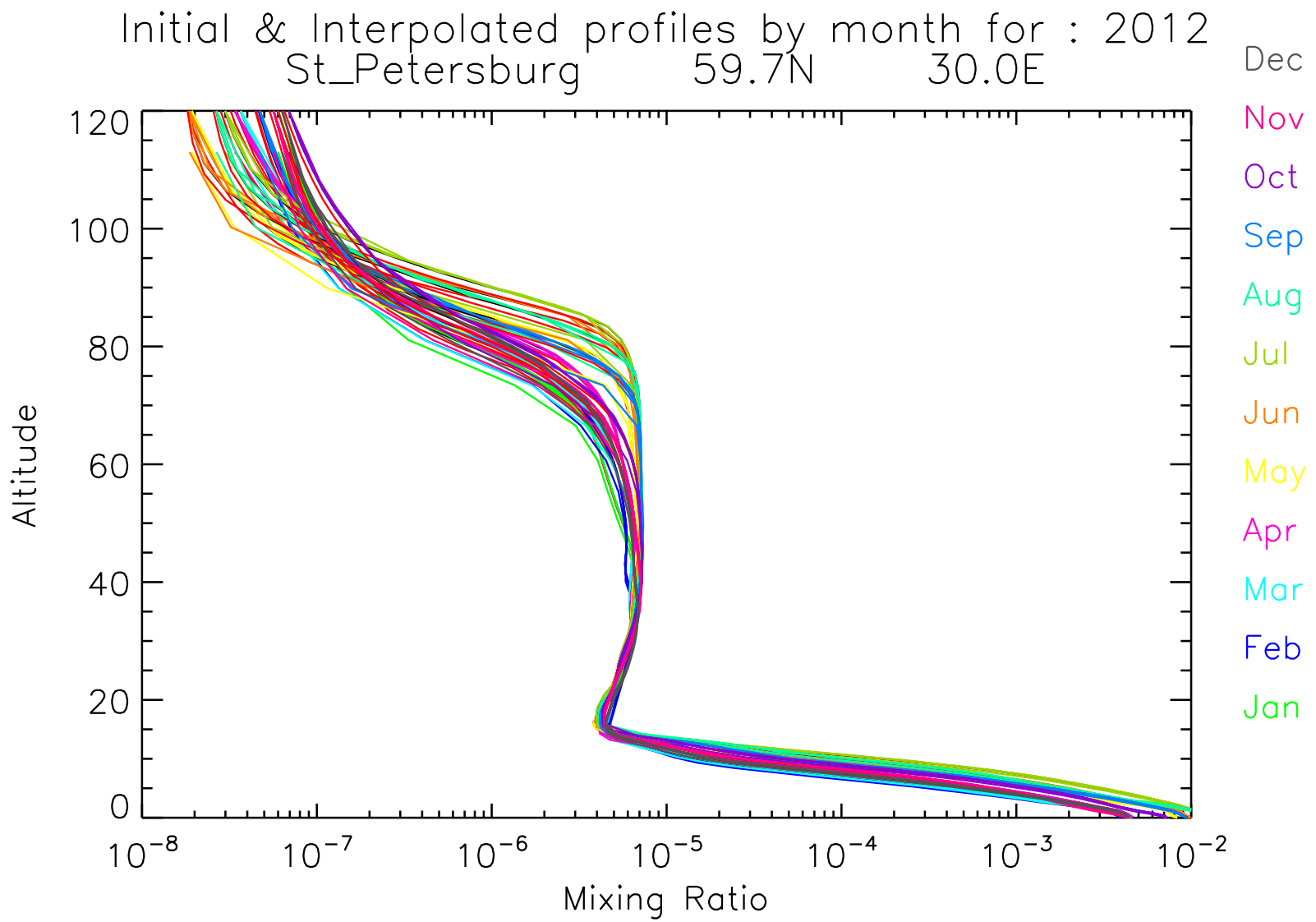
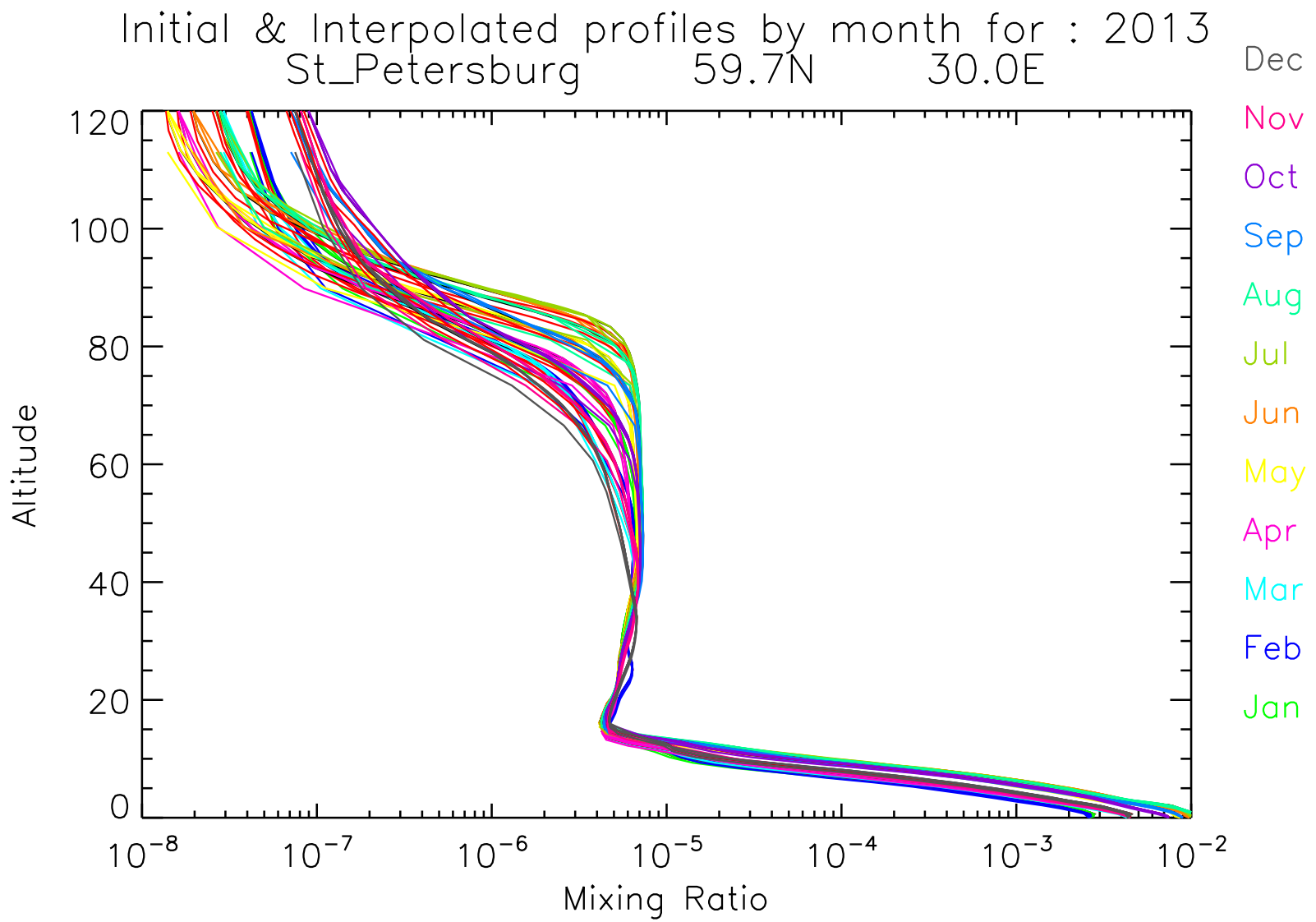
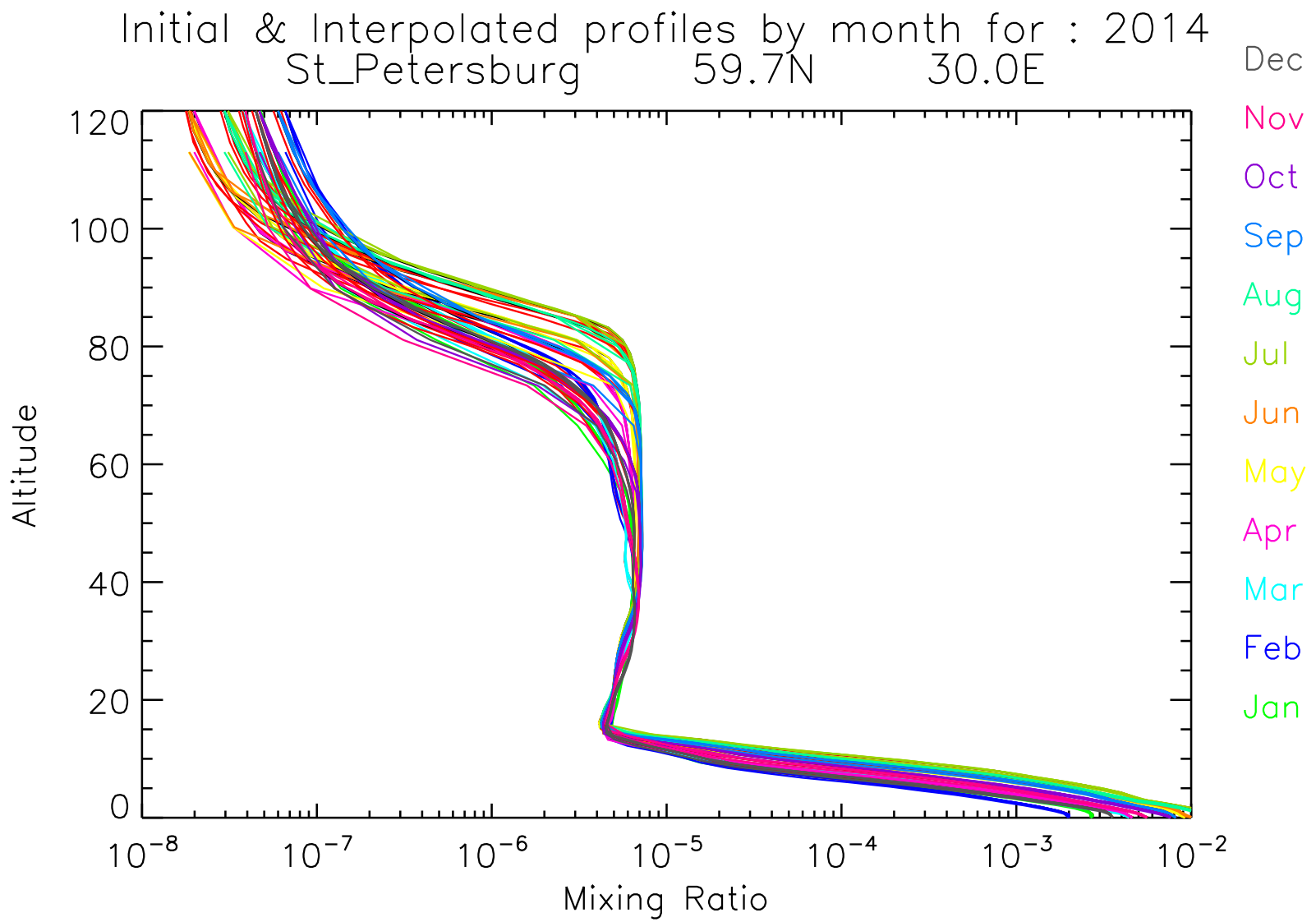
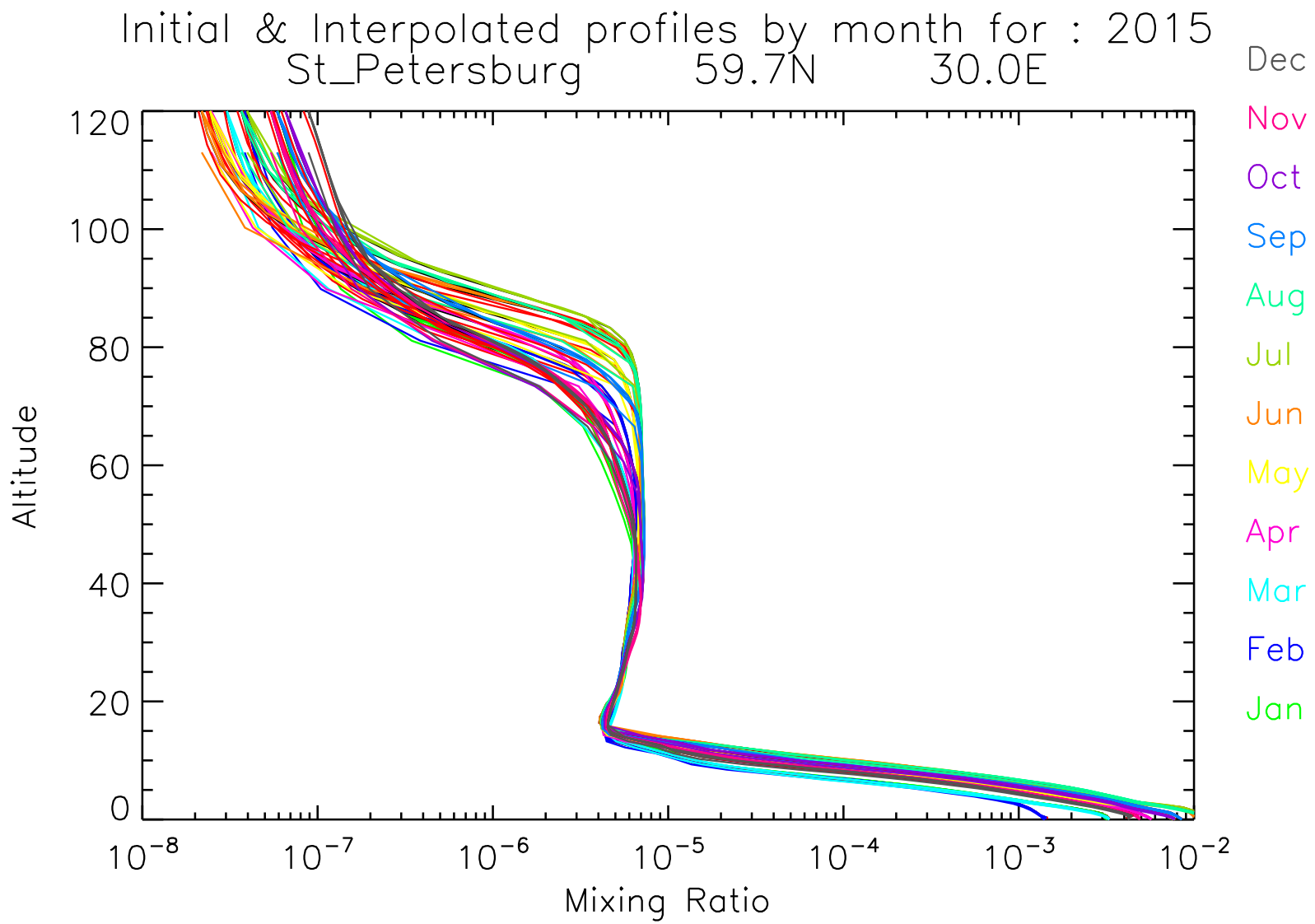

Initial & Interpolated profiles by month for : 2010
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

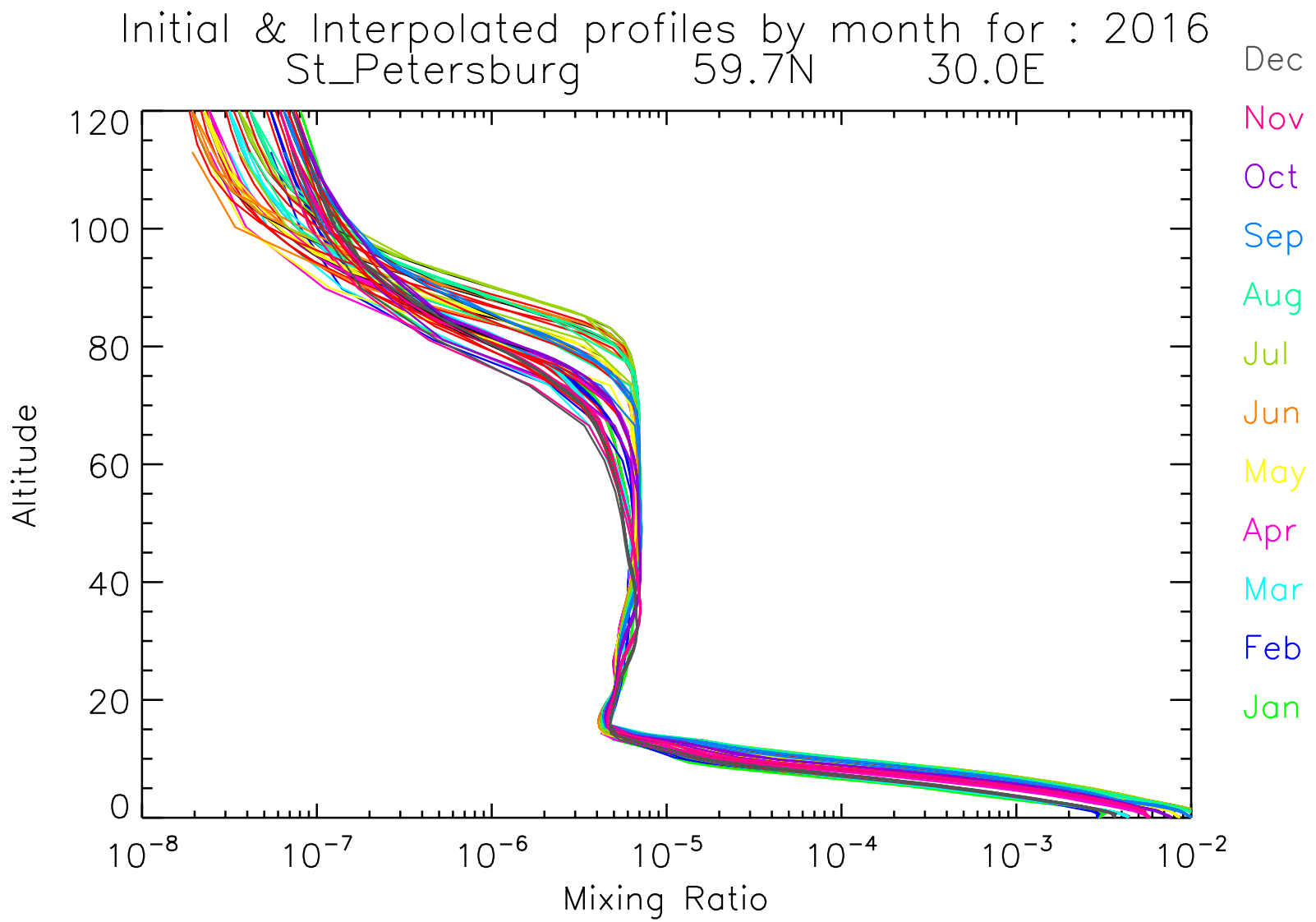

Initial & Interpolated profiles by month for : 2011
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

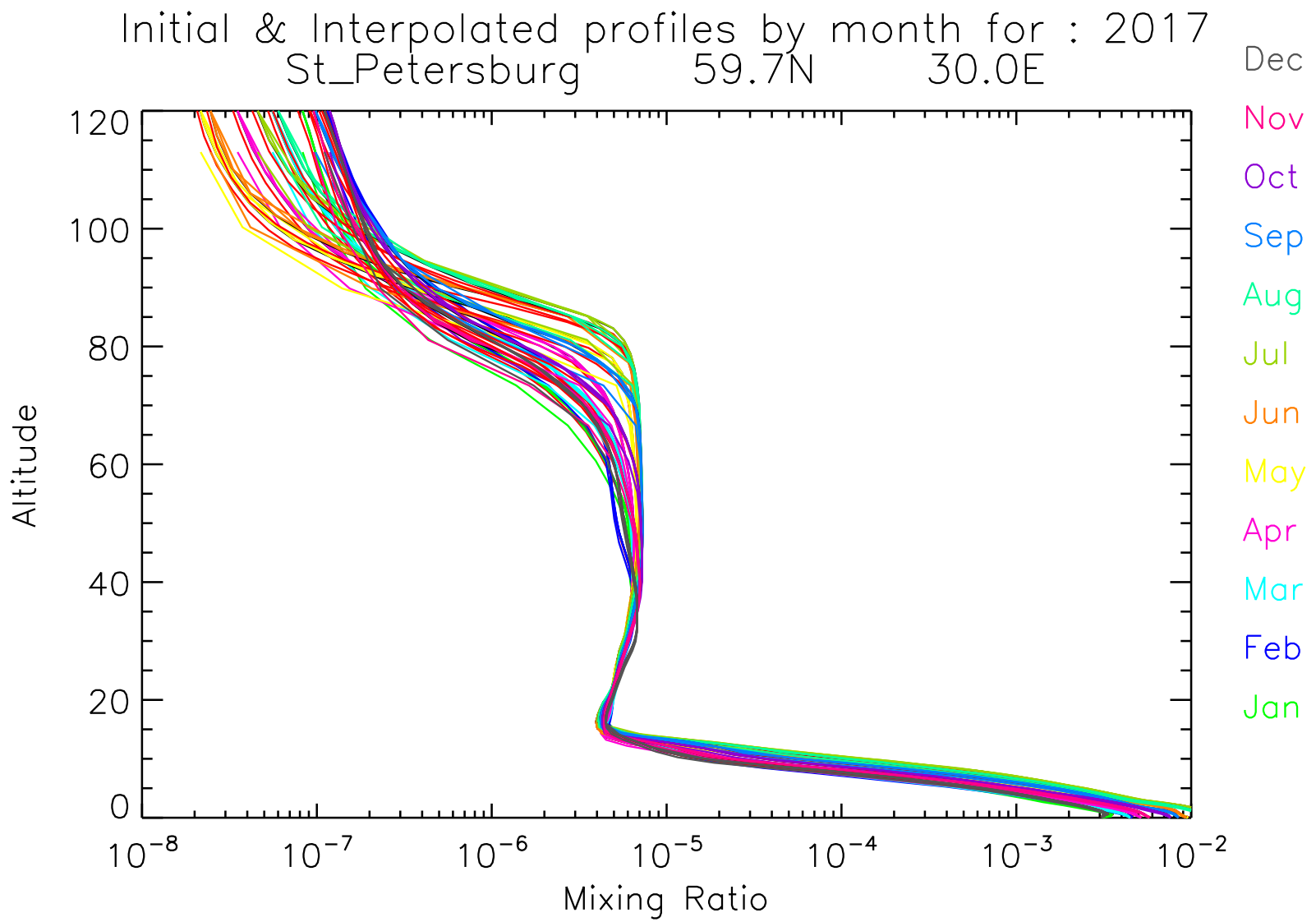

Initial & Interpolated profiles by month for : 2012
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

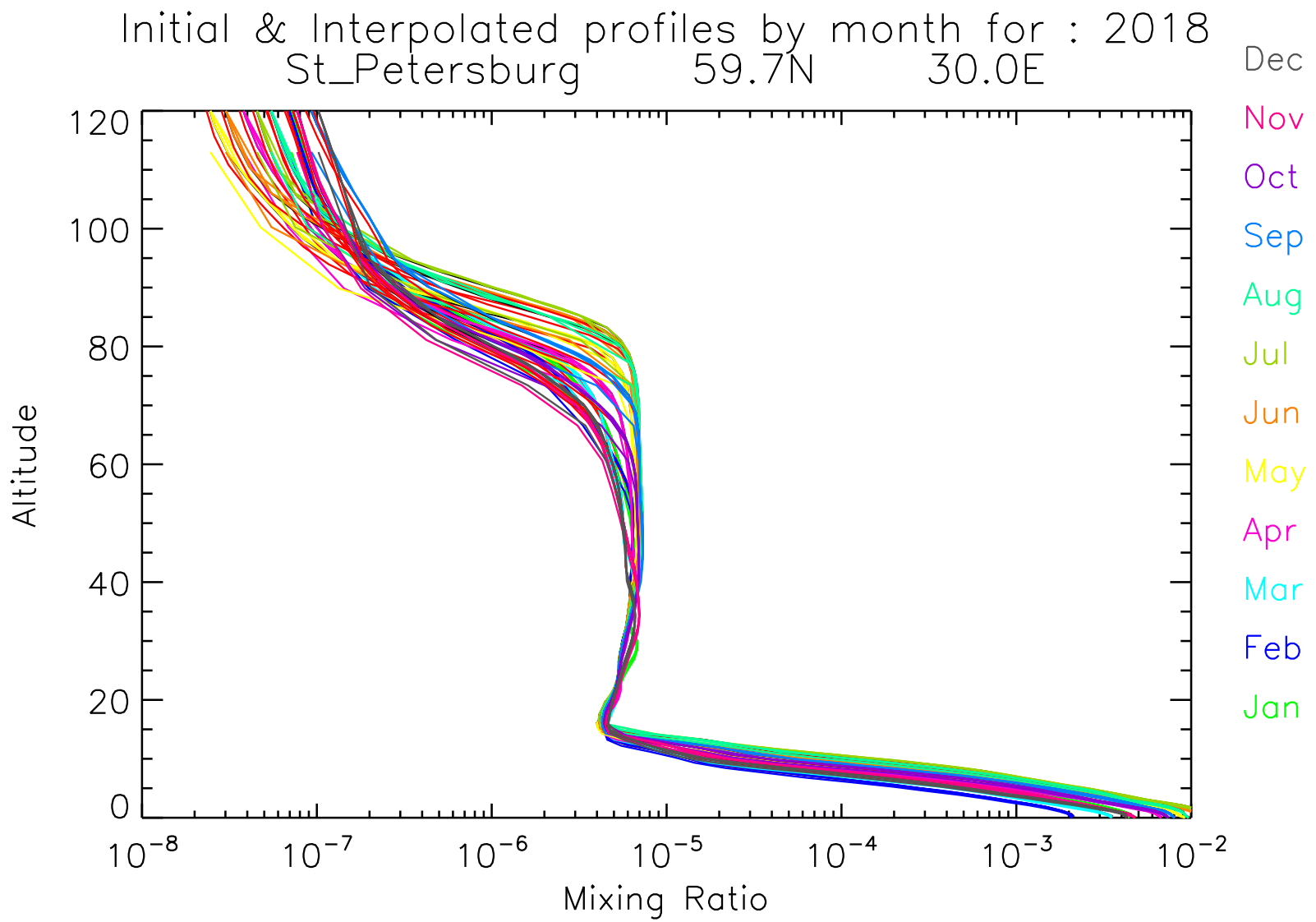

Initial & Interpolated profiles by month for : 2013
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

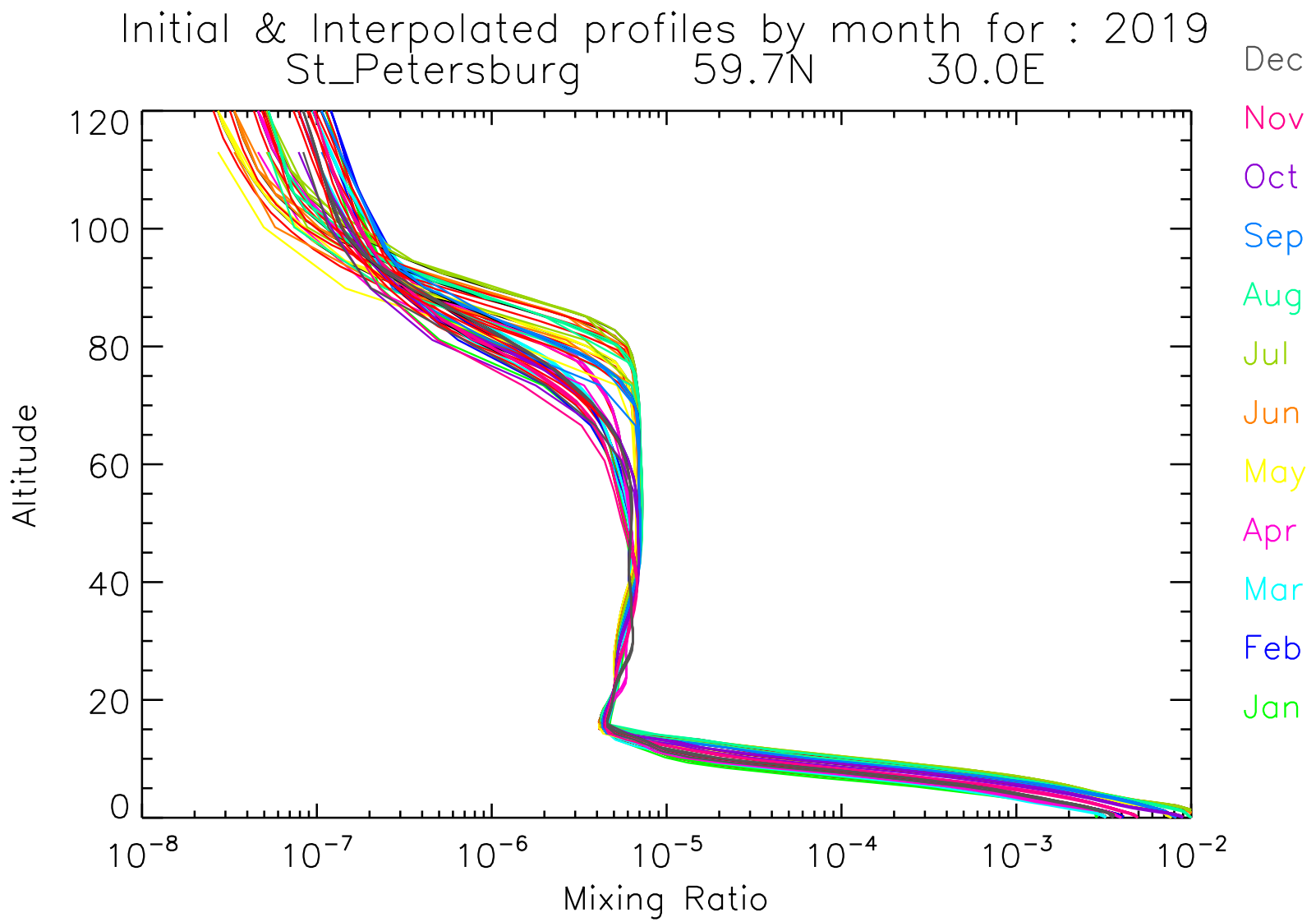

Initial & Interpolated profiles by month for : 2014
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

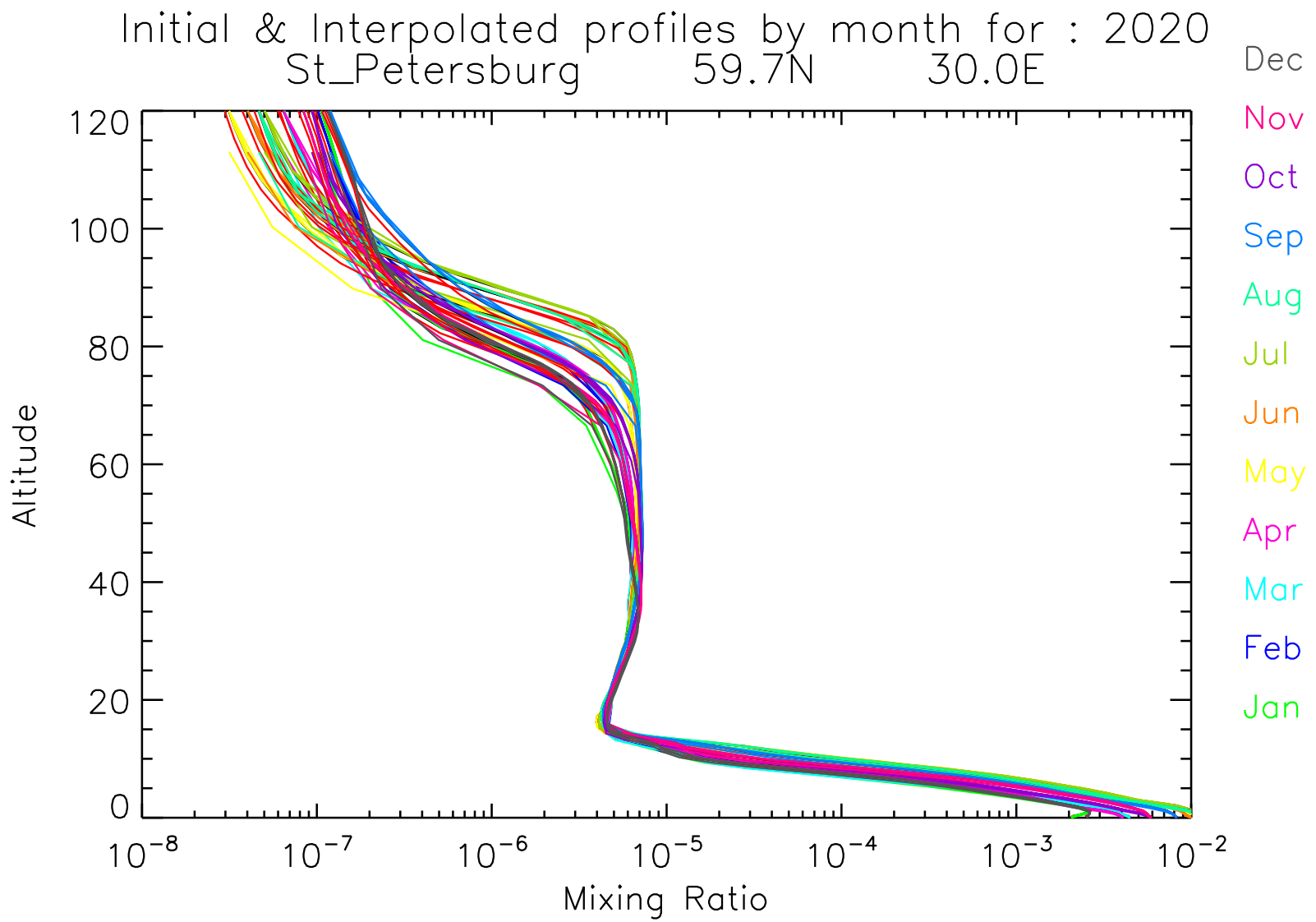

Initial & Interpolated profiles by month for : 2015
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

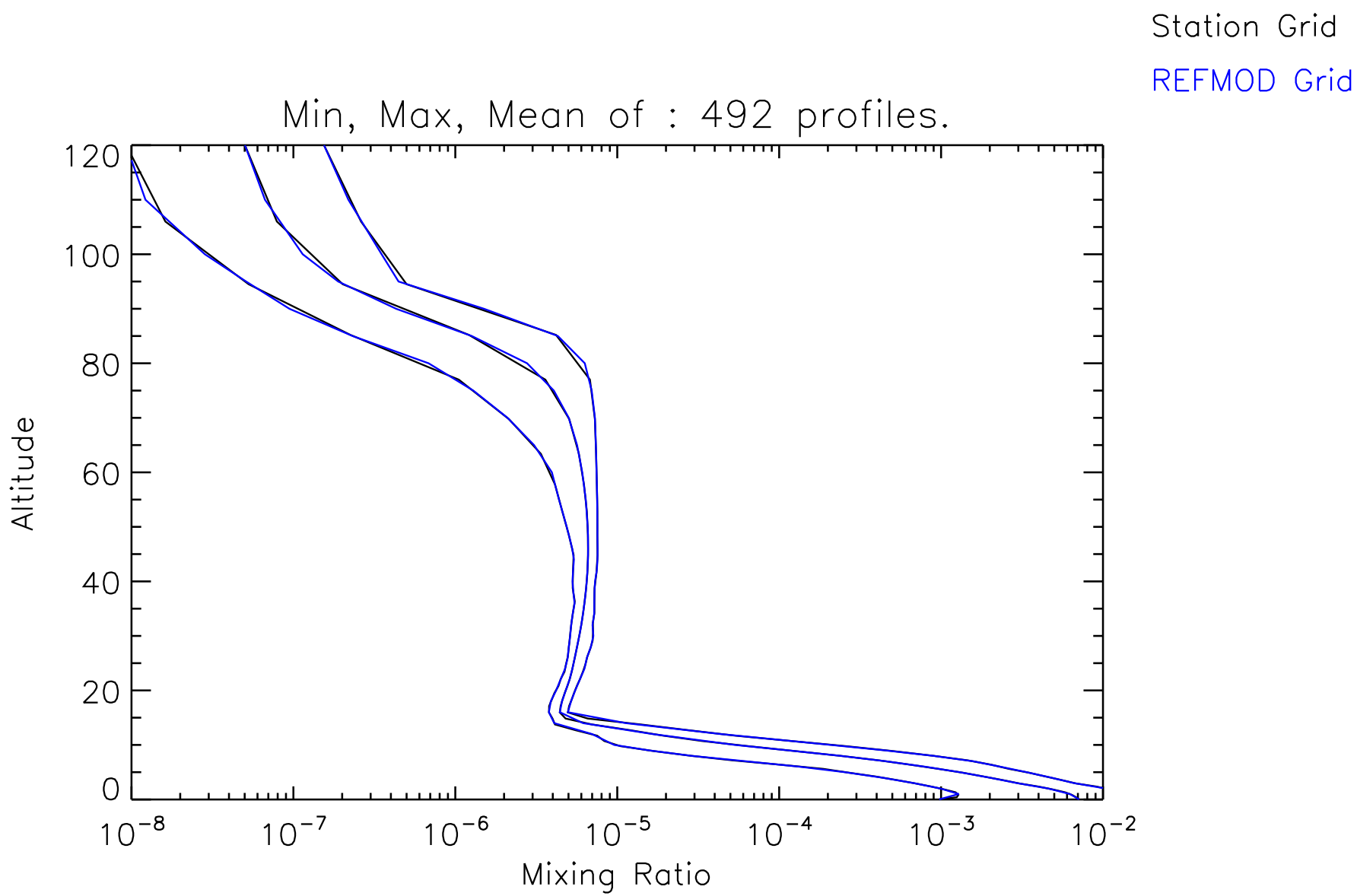

Initial & Interpolated profiles by month for : 2016
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

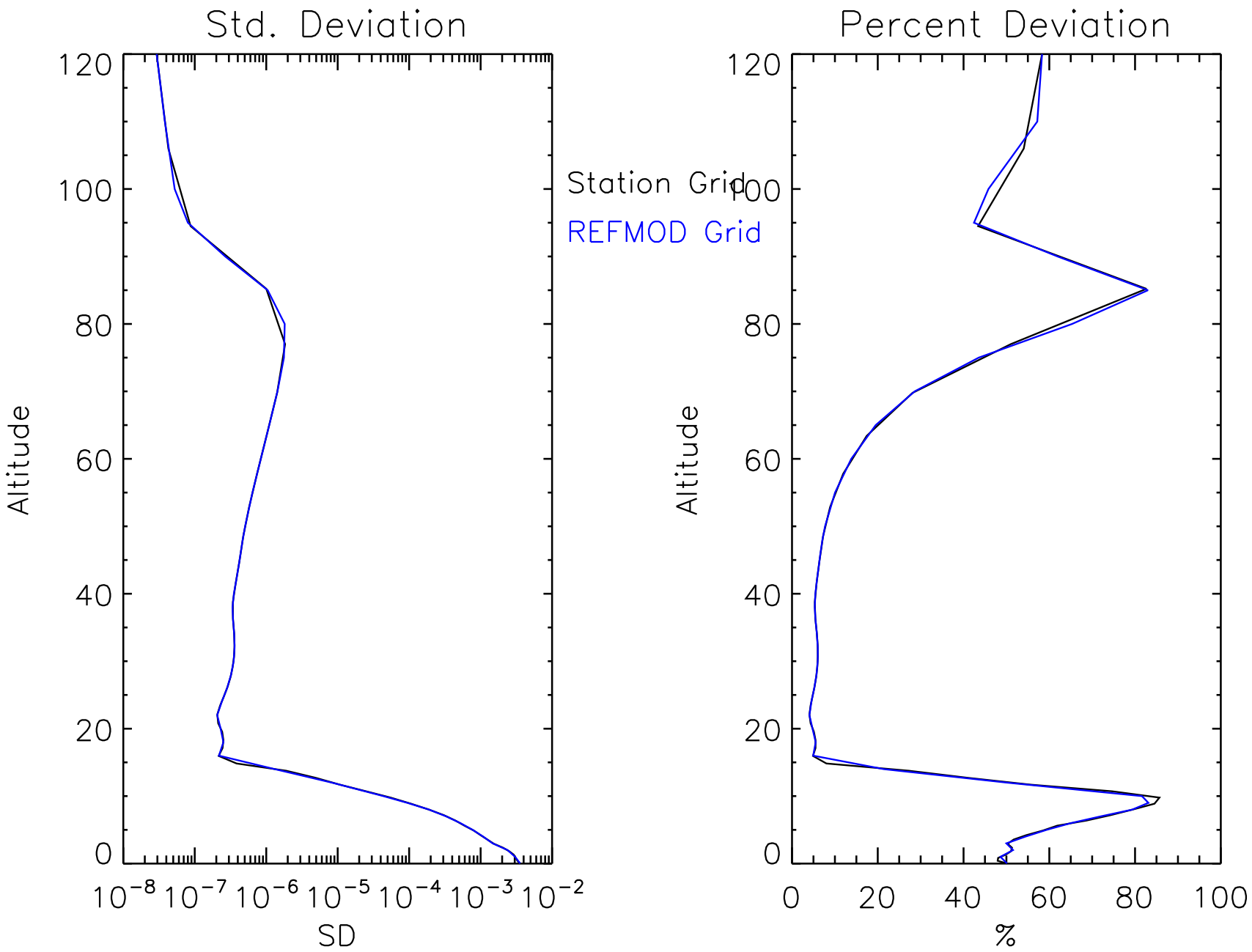

Initial & Interpolated profiles by month for : 2017
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

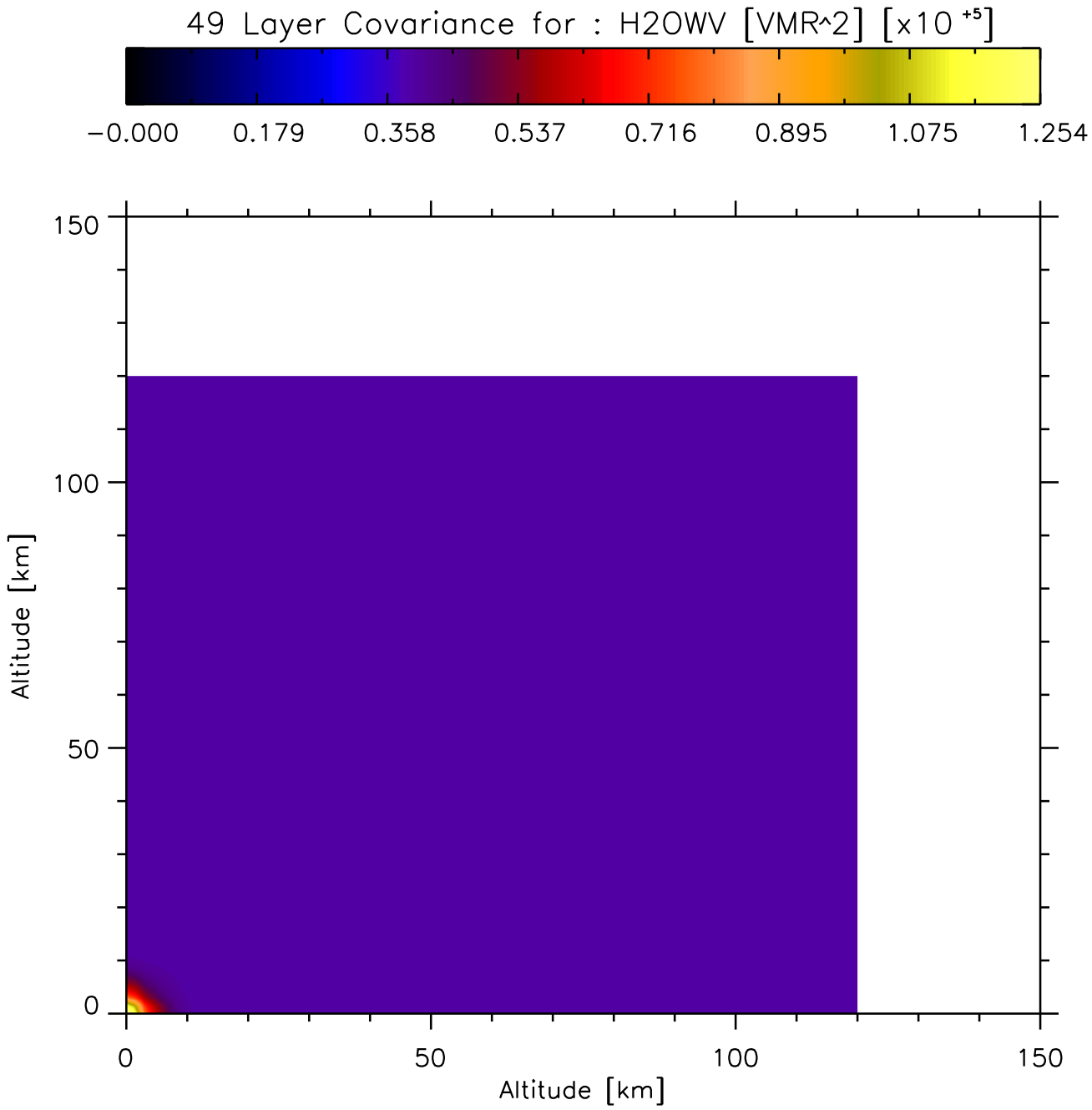

Initial & Interpolated profiles by month for : 2018
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

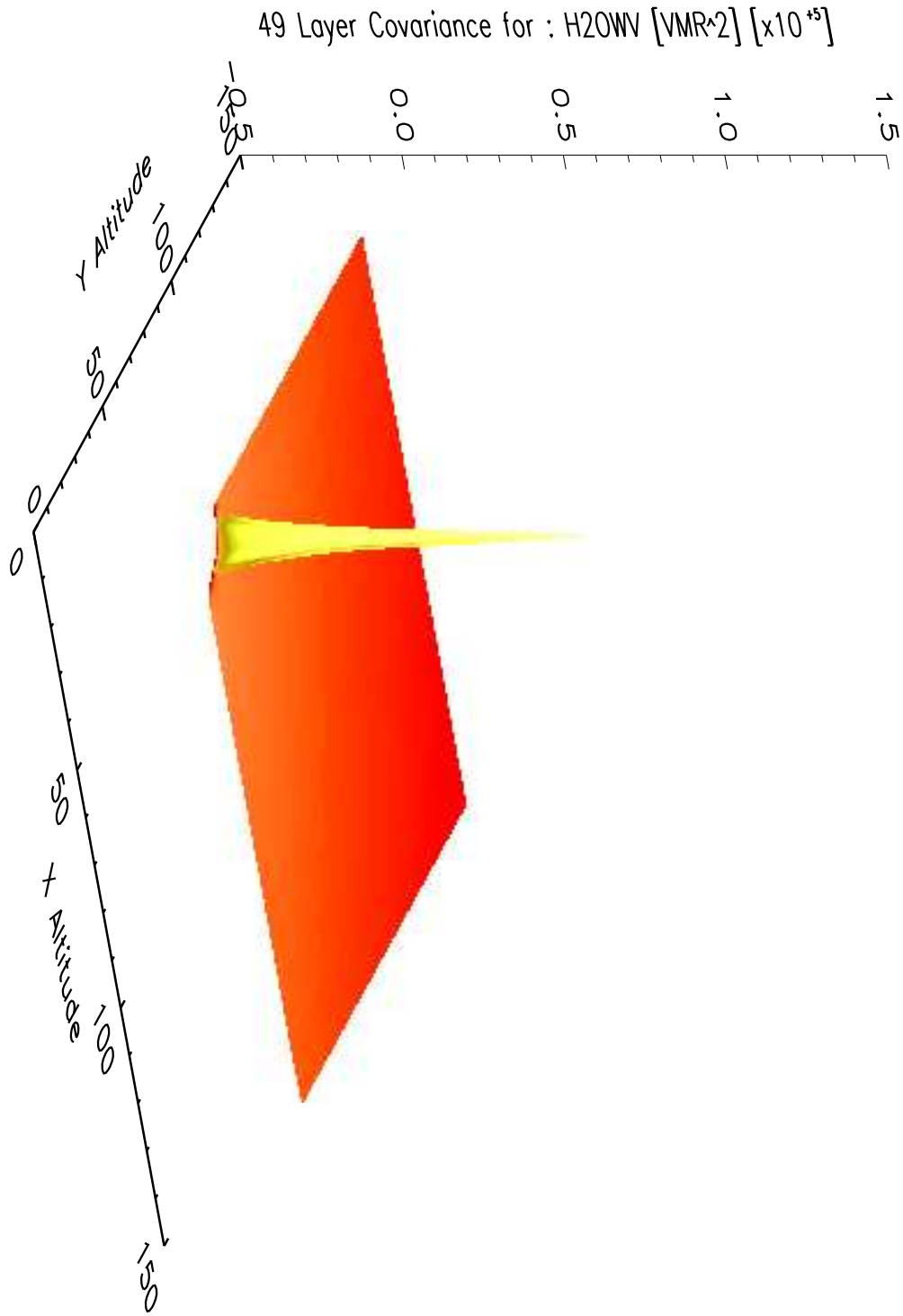

Initial & Interpolated profiles by month for : 2019
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

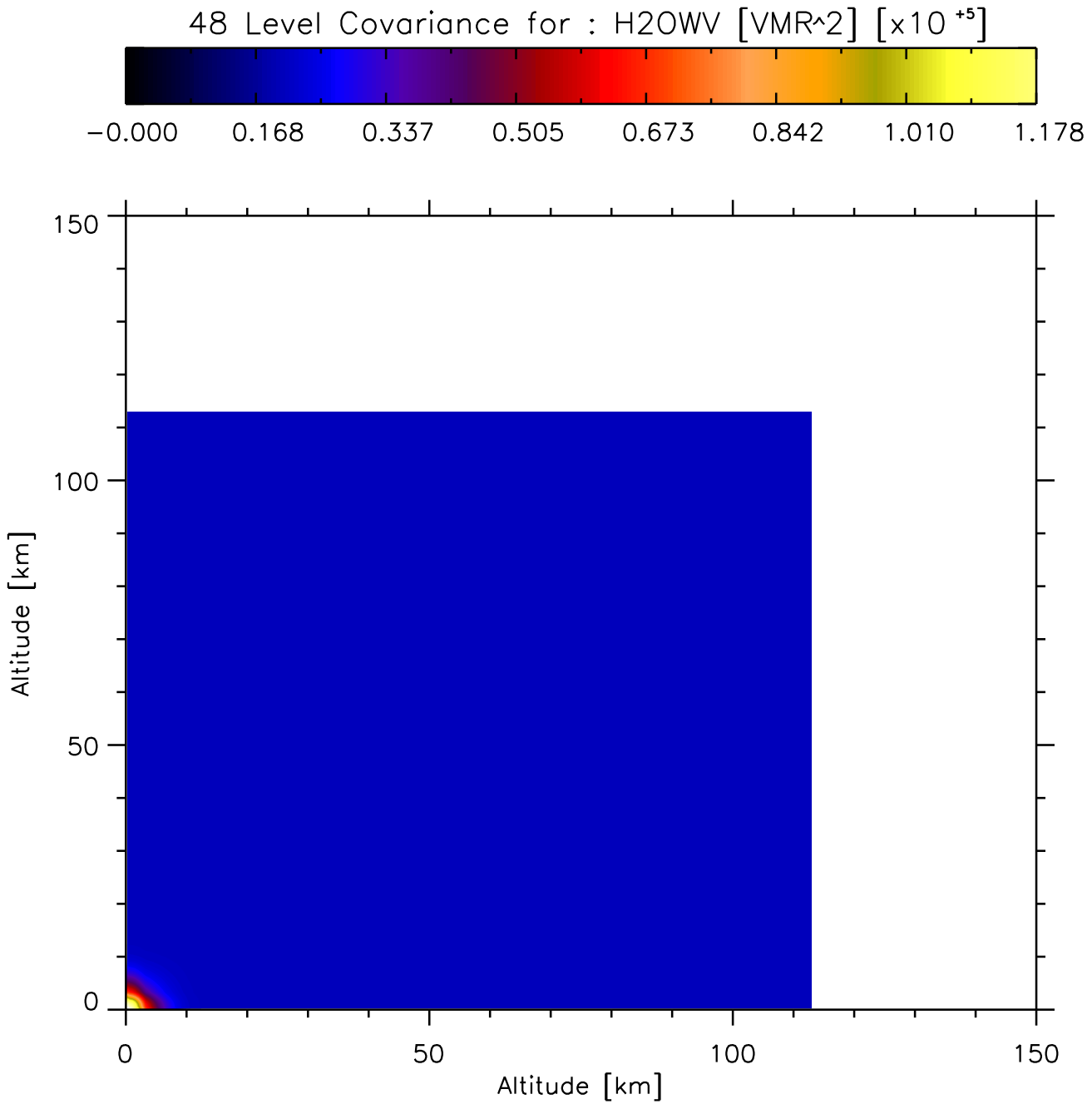

Initial & Interpolated profiles by month for : 2020
St_Petersburg 59.7N 30.0E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2}
SD
0 20 40 60 80 100
%


49 Layer Covariance for : H2OWV [VMR^2] [x10 +5]
−0.000
0.179
0.358
0.537
0.716
0.895
1.075
1.254
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


49 Layer Covariance for : H2OWV [VMR^2] [x10 +5]
-0.5
0.0
0.5
1.0
1.5
Y Altitude
150
100
50
0
X Altitude
0
50
100
150


48 Level Covariance for : H2OWV [VMR^2] [x10 +5]
−0.000
0.168
0.337
0.505
0.673
0.842
1.010
1.178
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : H2OWV [VMR^2] [x10^+5]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
30
60
90
X Altitude
0
50
100
150