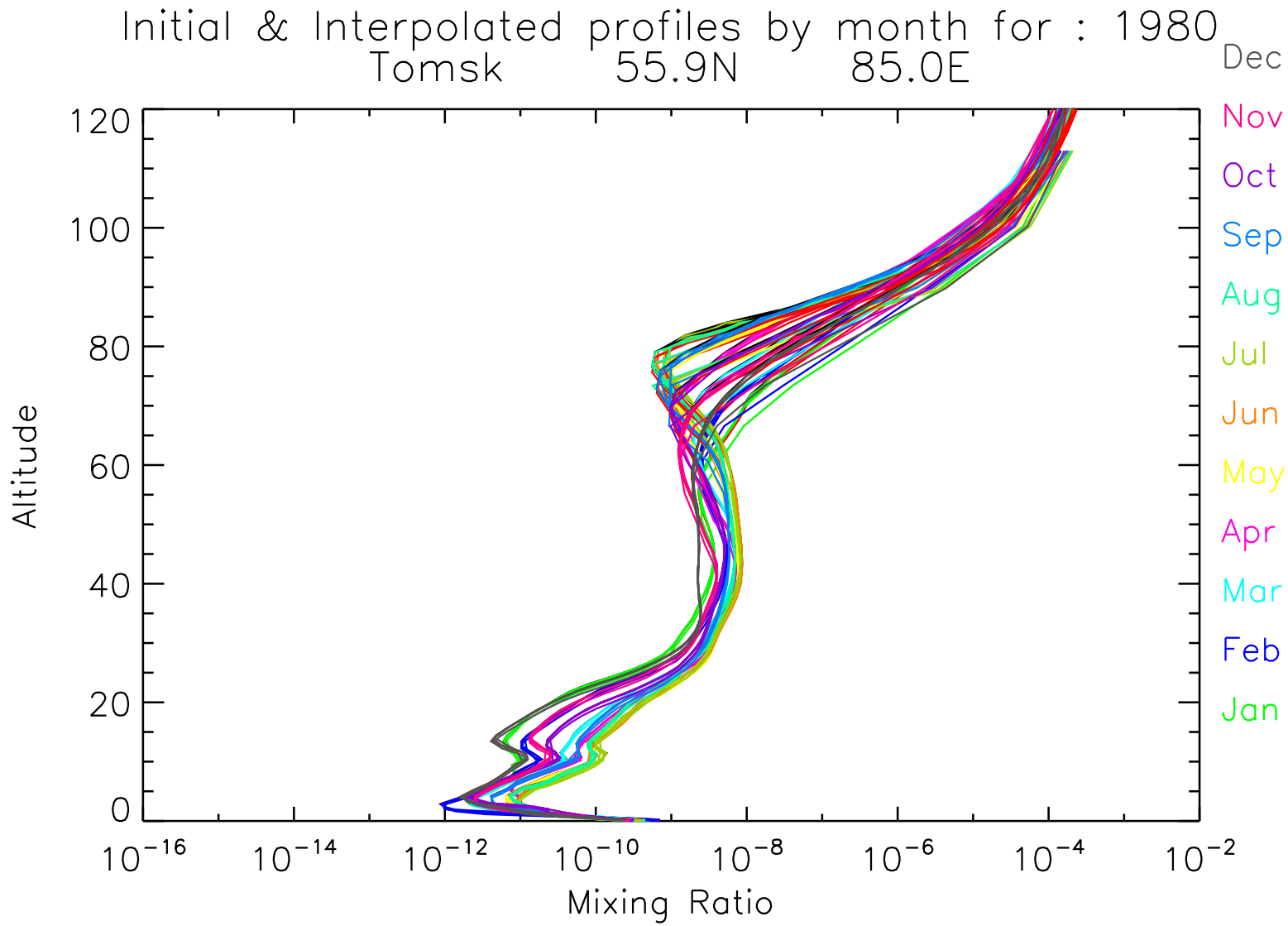
Initial & Interpolated profiles by month for : 1980
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120
100
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10^{-16}
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Mixing Ratio
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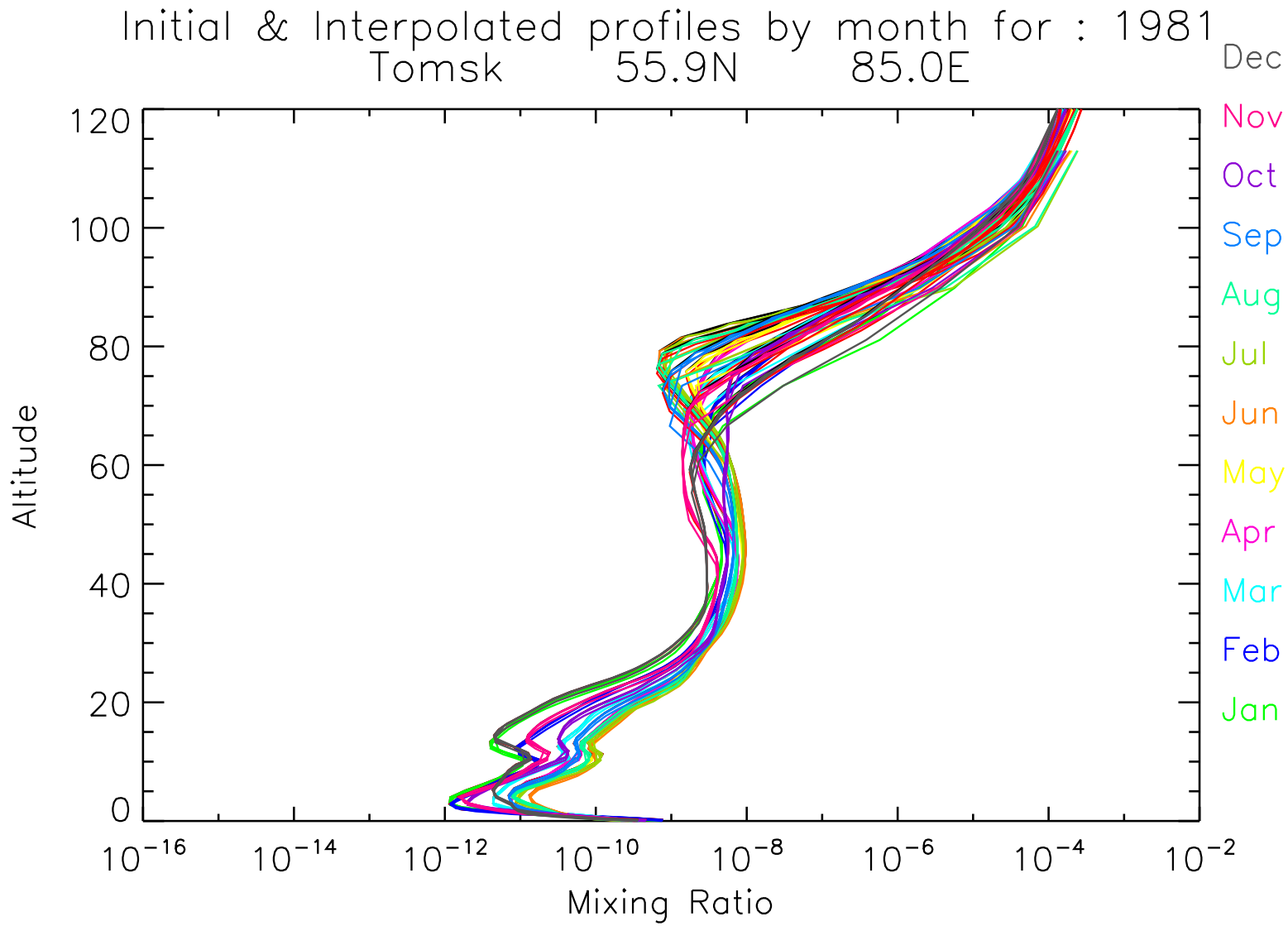
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Tomsk 55.9N 85.0E
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Mixing Ratio
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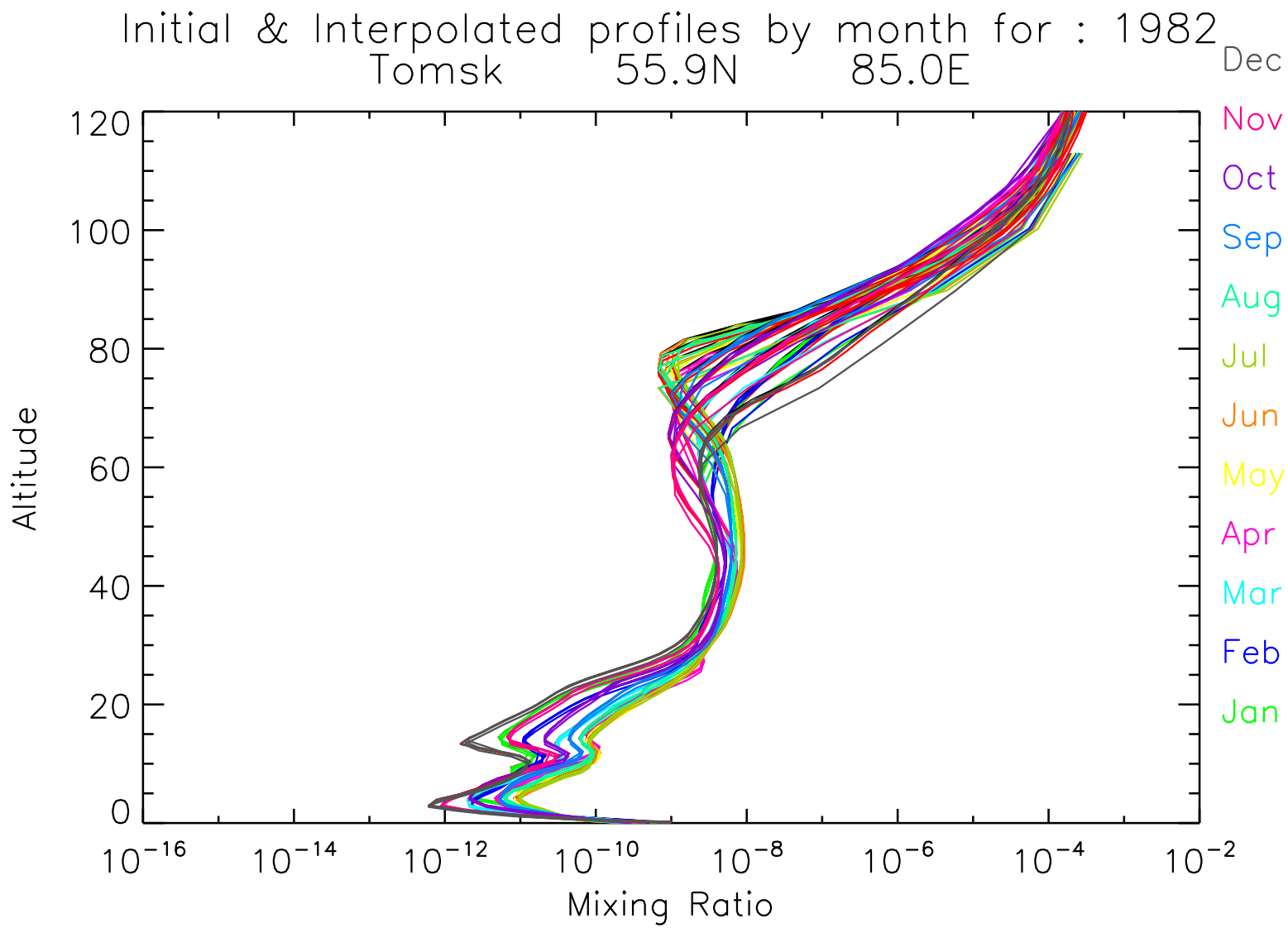
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Altitude
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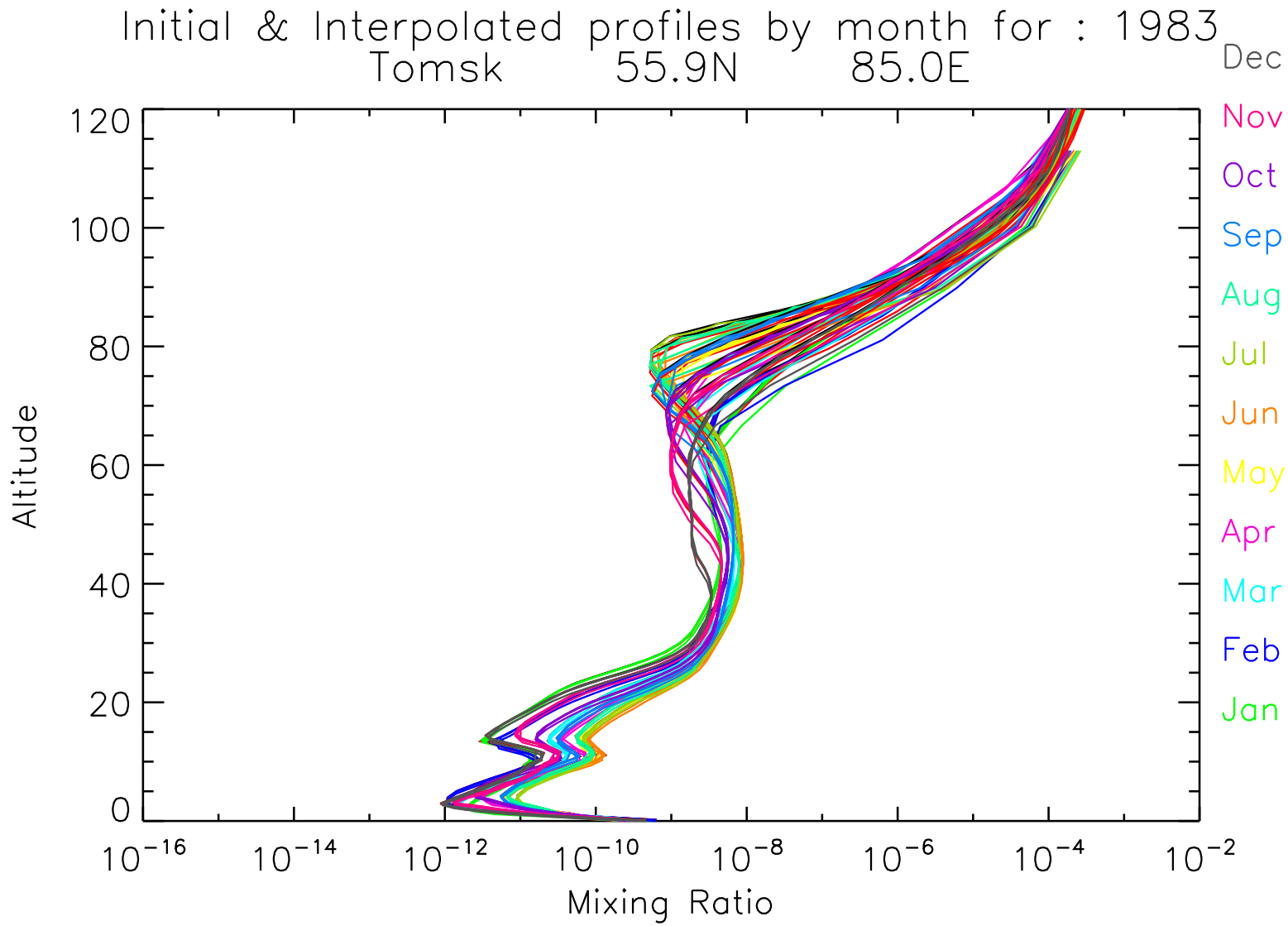
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
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Altitude
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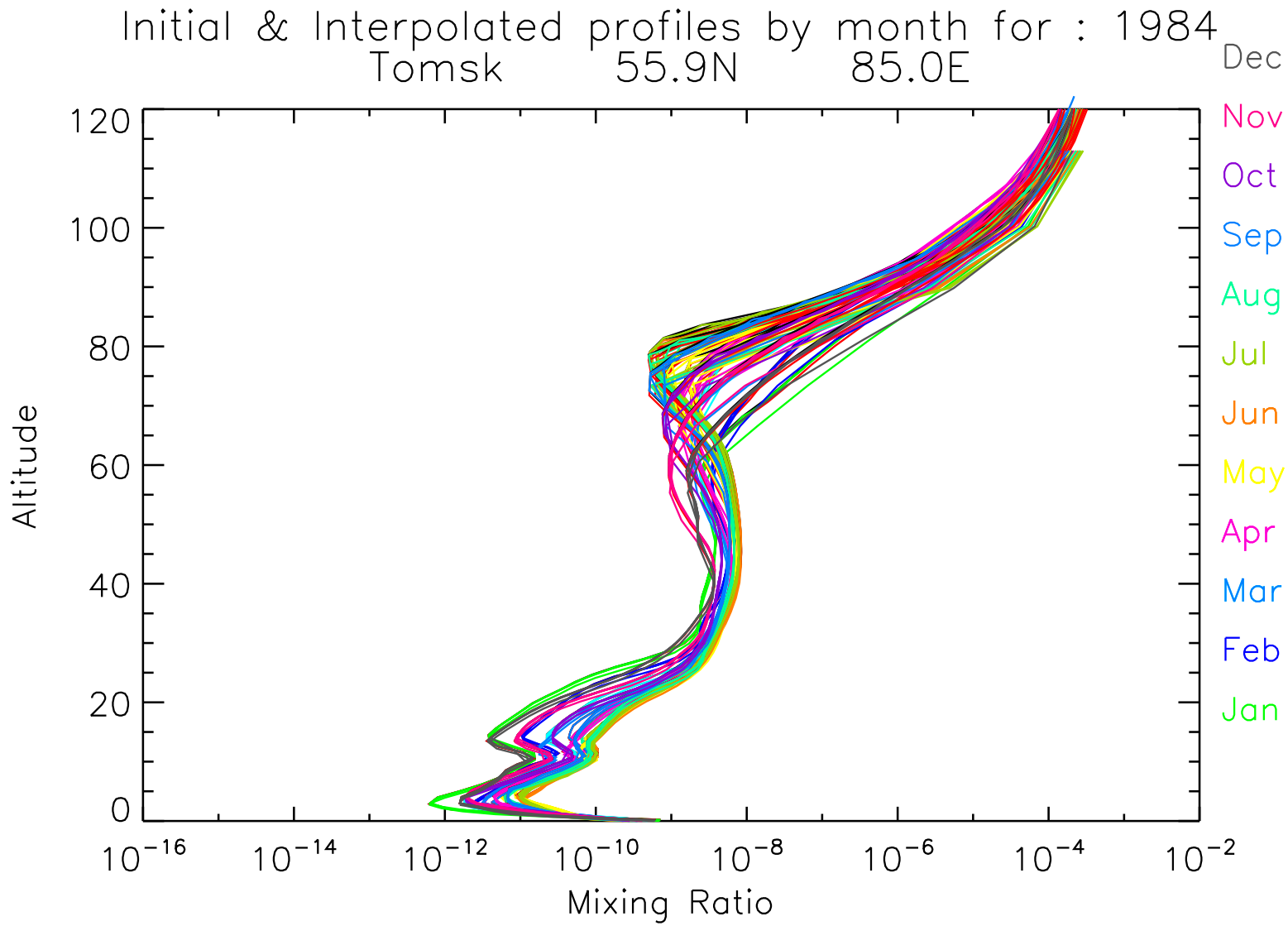
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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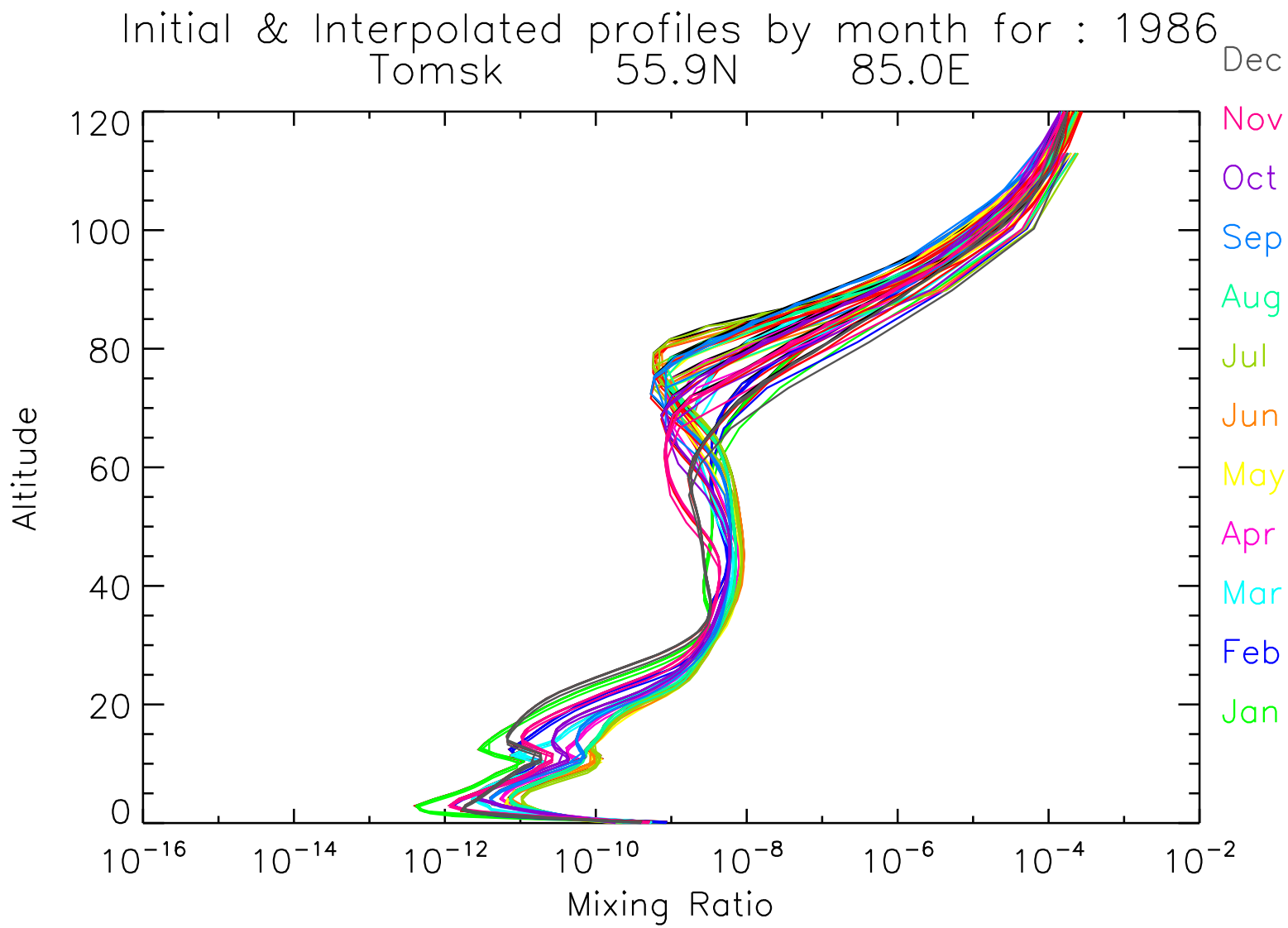
Initial & Interpolated profiles by month for : 1986
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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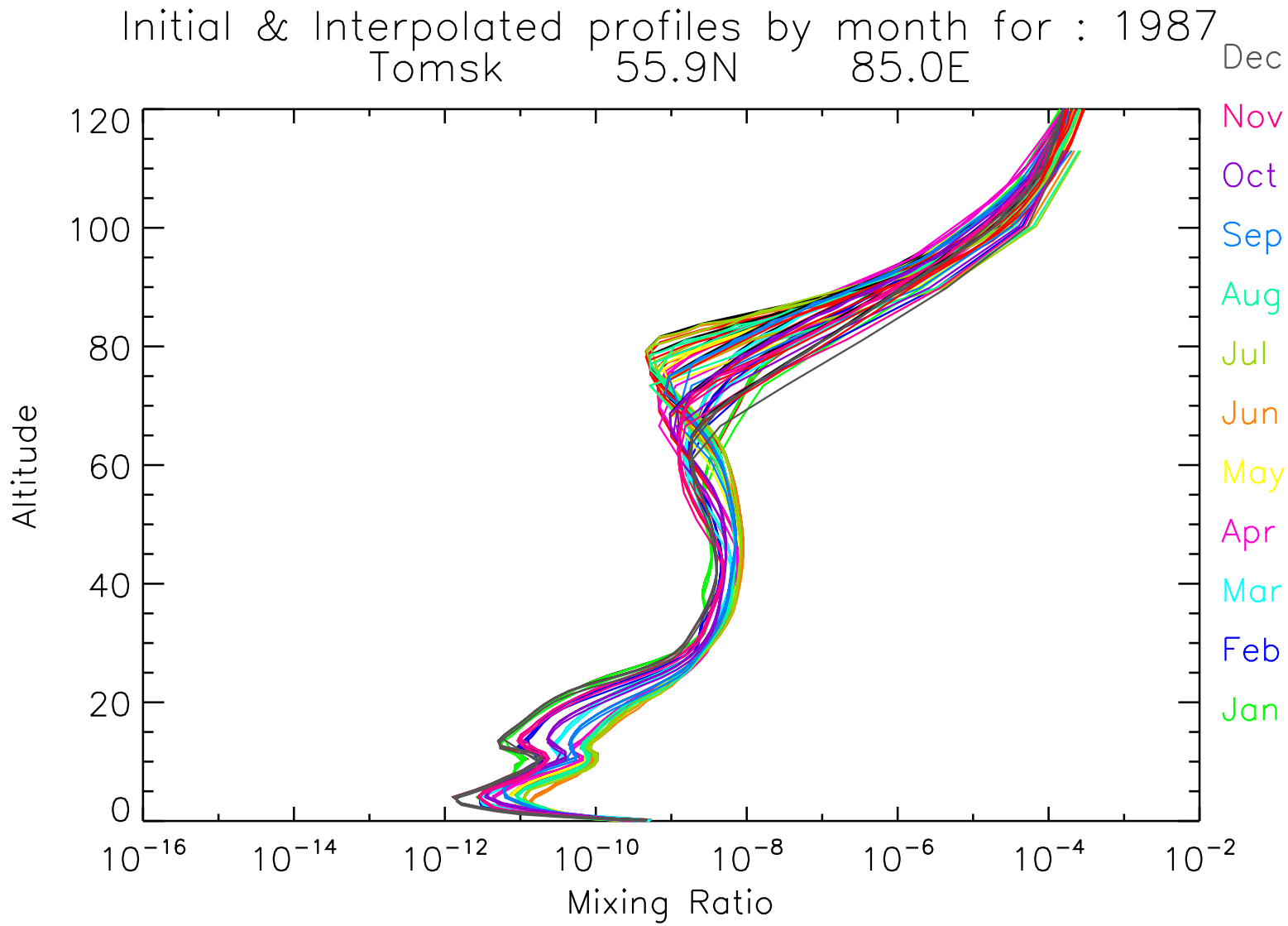
Initial & Interpolated profiles by month for : 1987
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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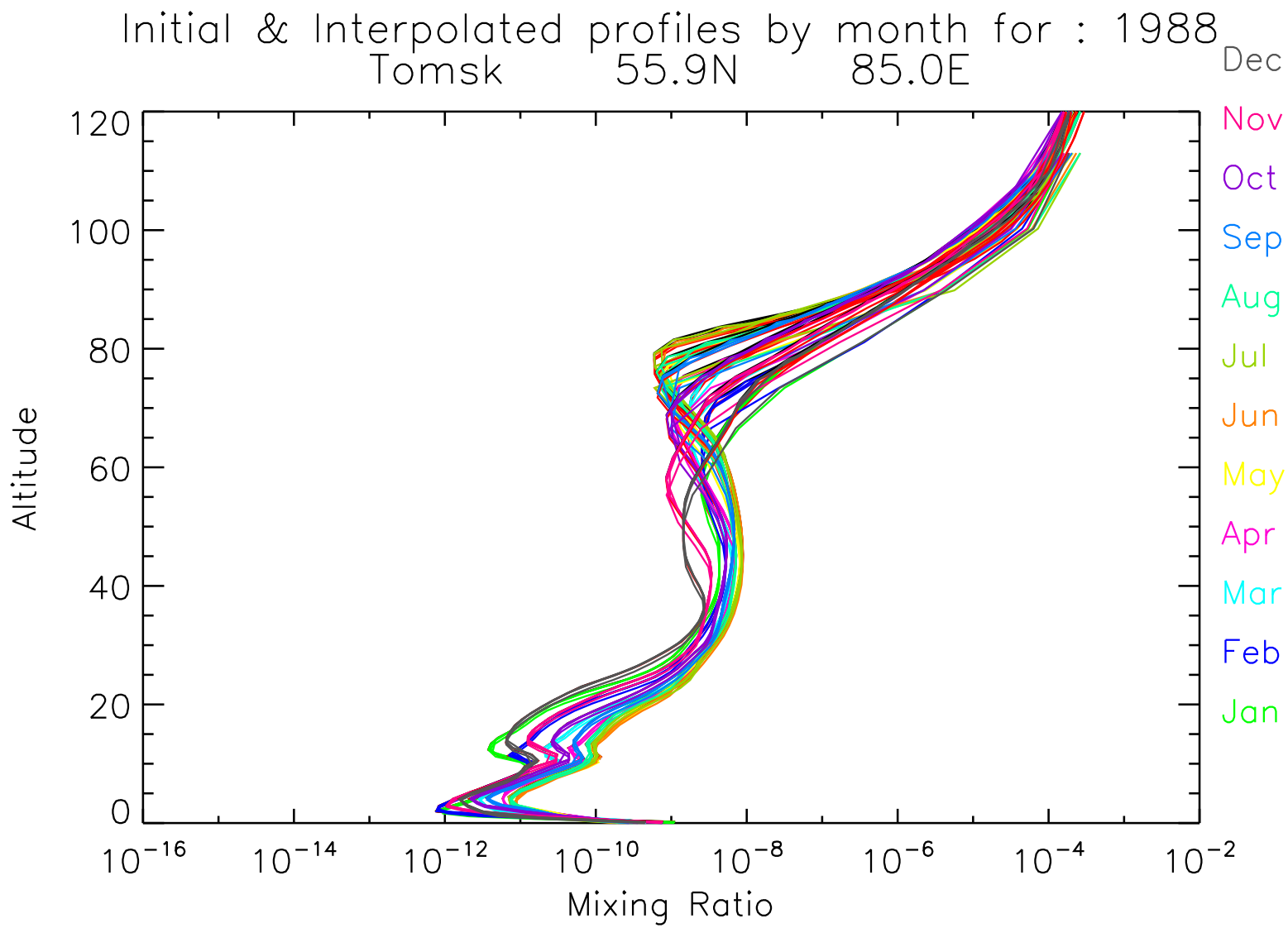
Initial & Interpolated profiles by month for : 1988
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Altitude
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Mixing Ratio
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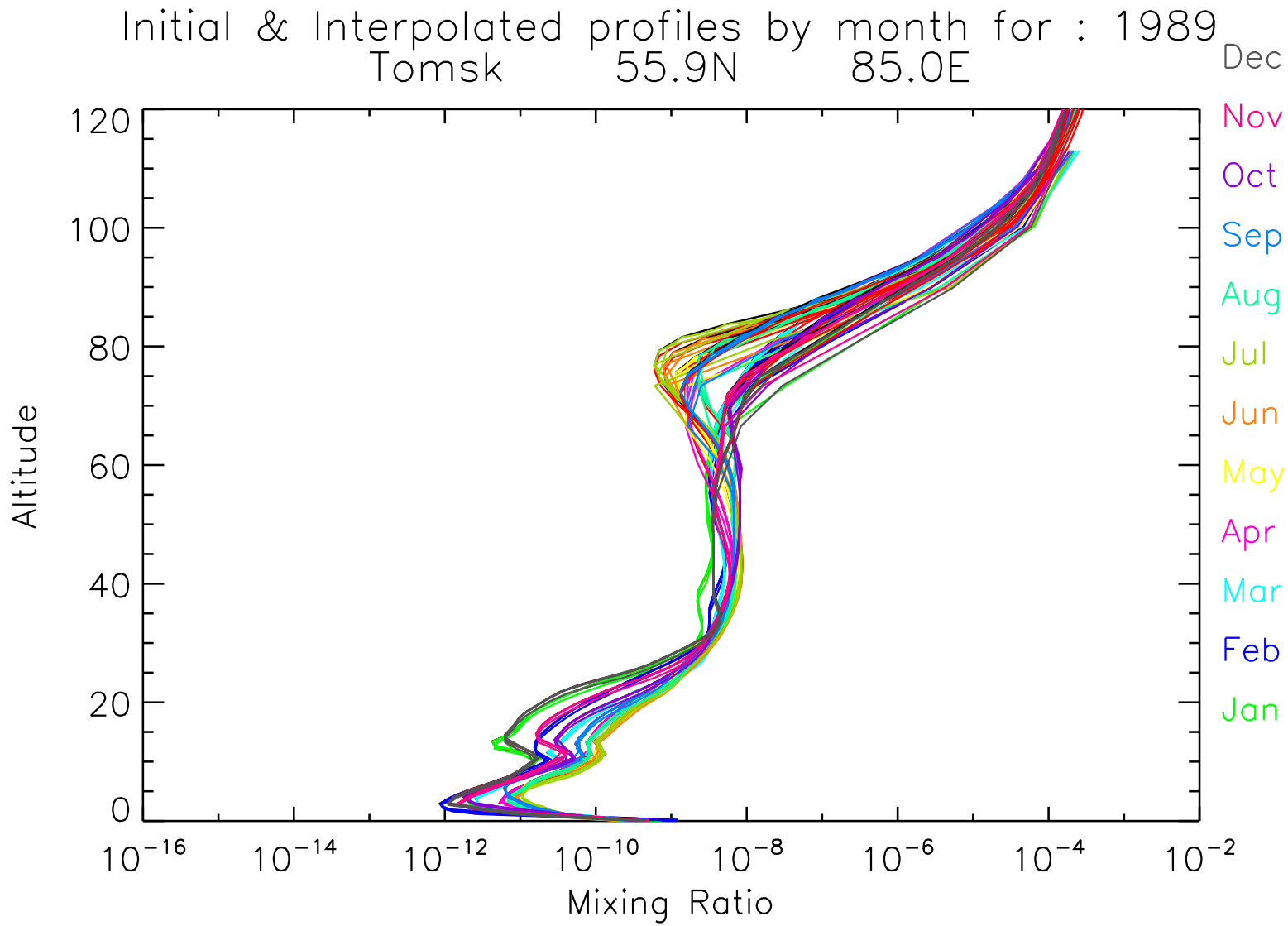
Initial & Interpolated profiles by month for : 1989
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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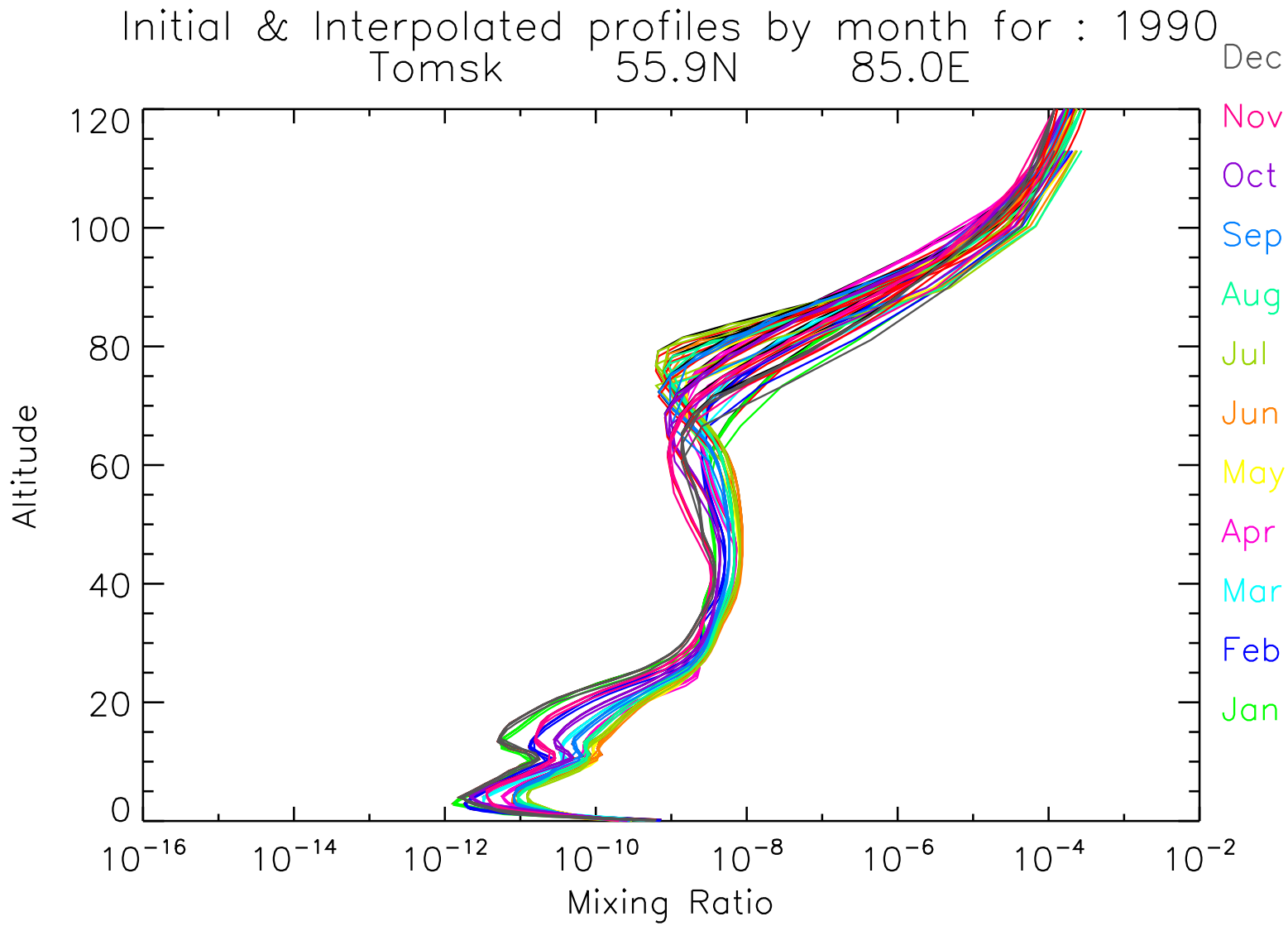
Initial & Interpolated profiles by month for : 1990
Tomsk 55.9N 85.0E
Altitude
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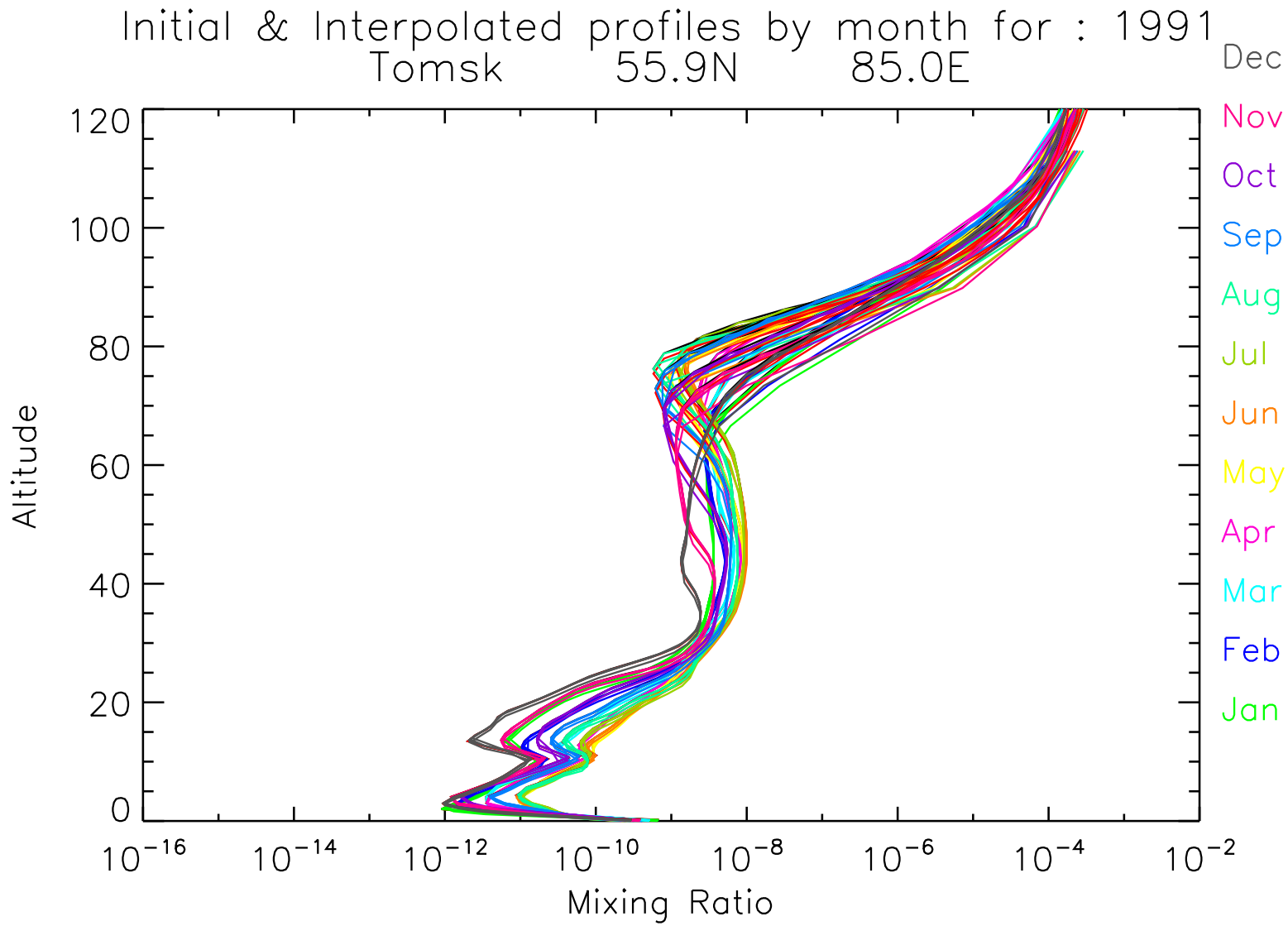
Initial & Interpolated profiles by month for : 1991
Tomsk 55.9N 85.0E
Altitude
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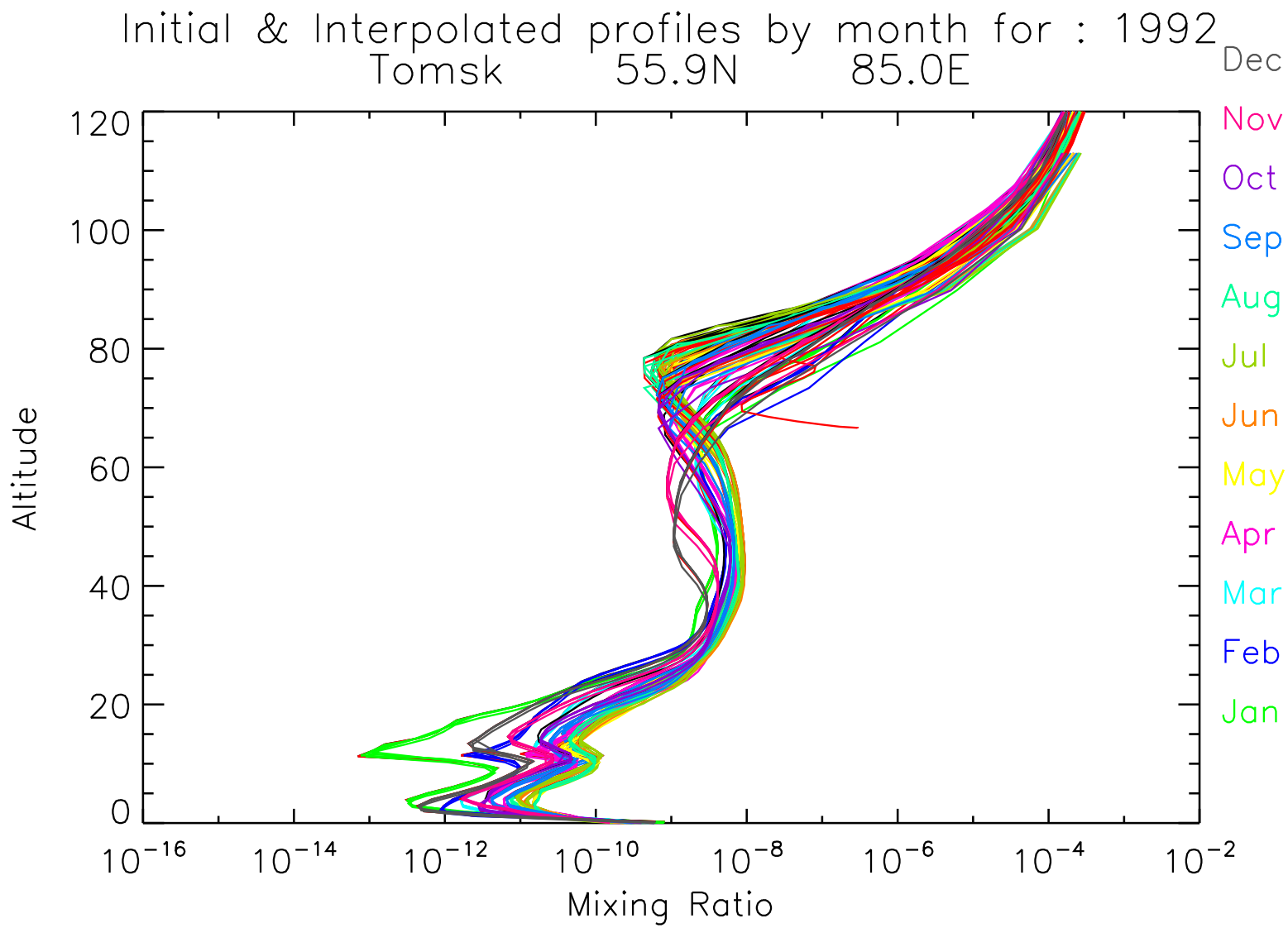
Initial & Interpolated profiles by month for : 1992
Tomsk 55.9N 85.0E
Altitude
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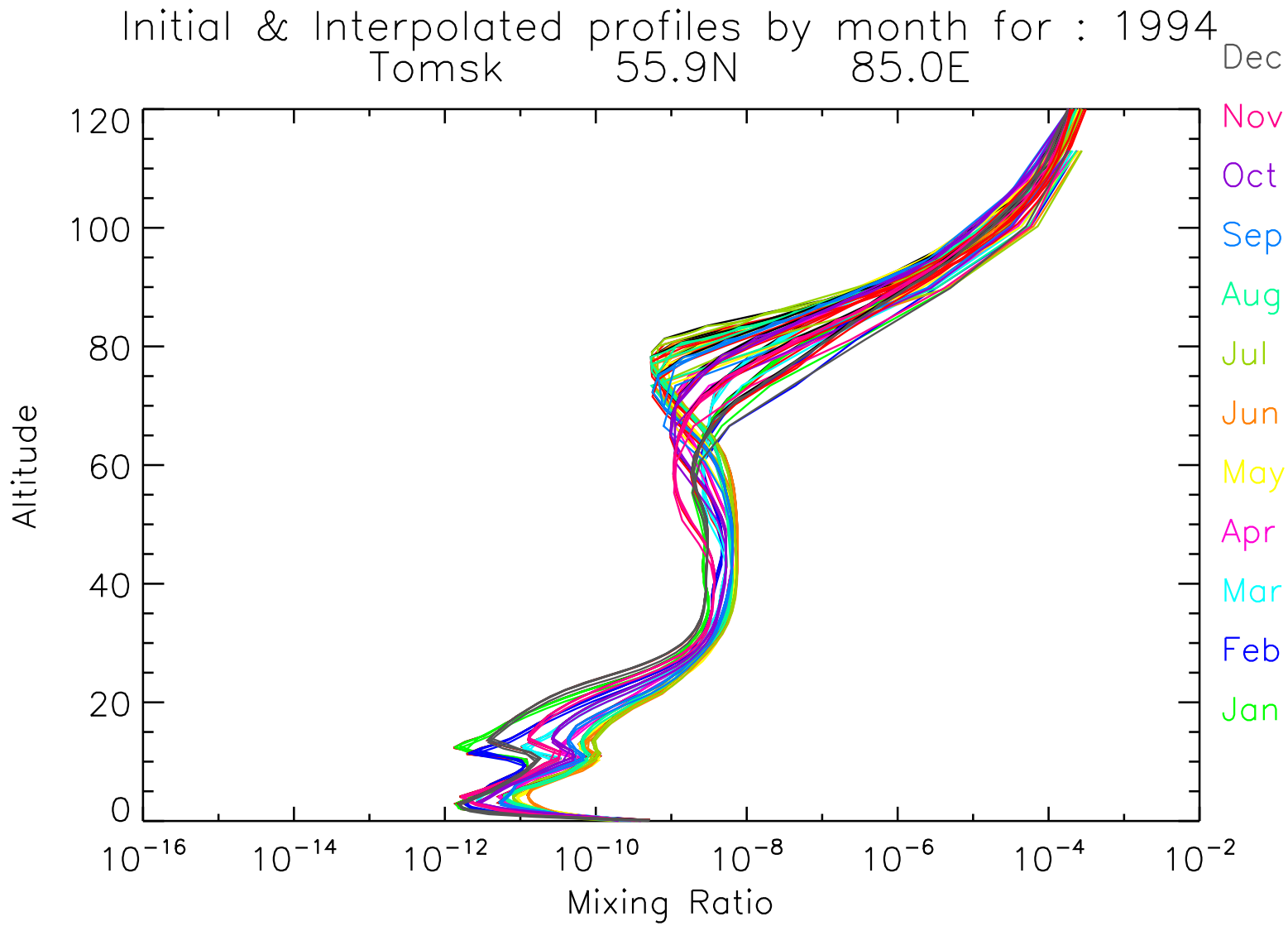
Initial & Interpolated profiles by month for : 1994
Tomsk 55.9N 85.0E
Altitude
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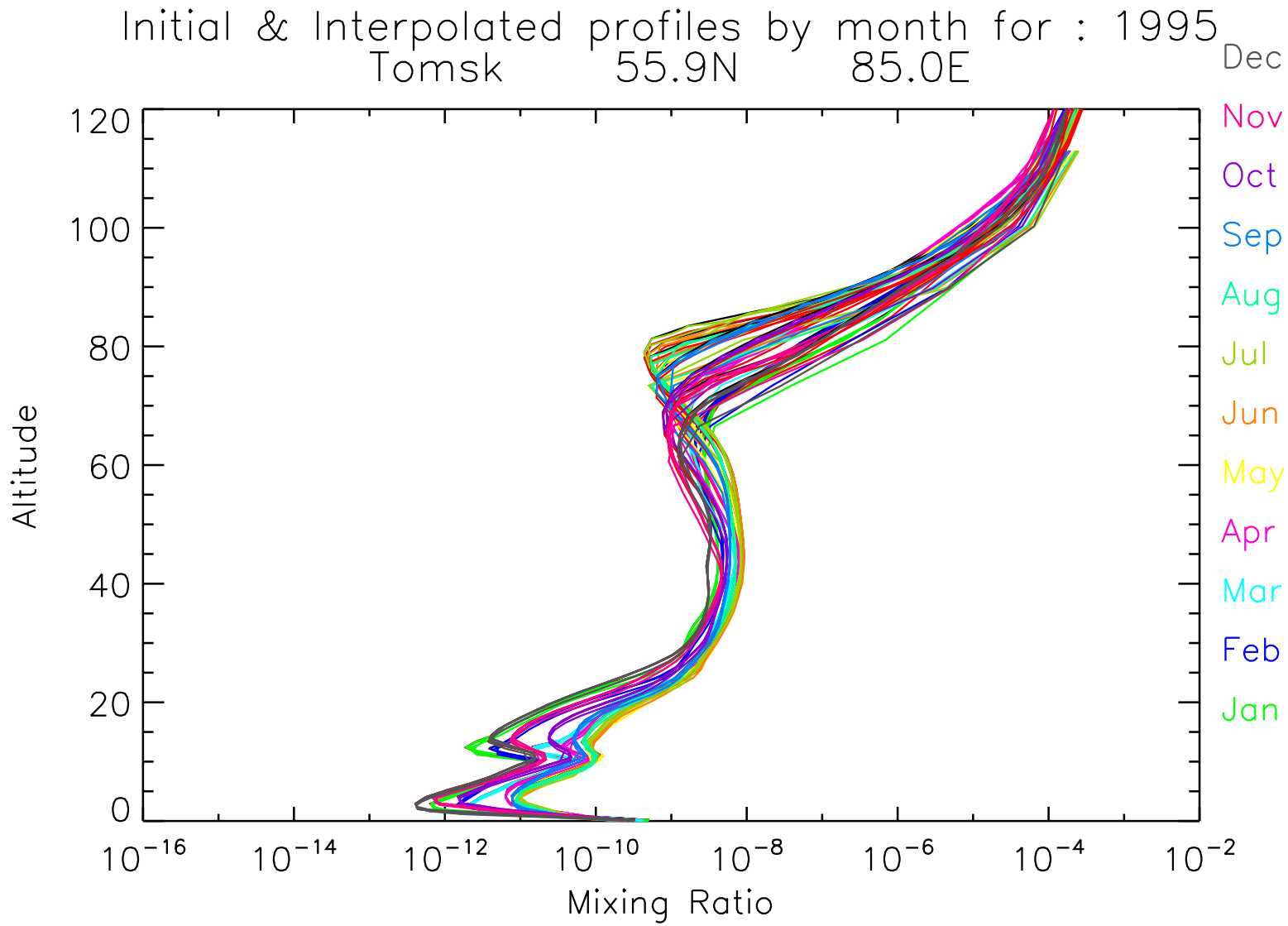
Initial & Interpolated profiles by month for : 1995
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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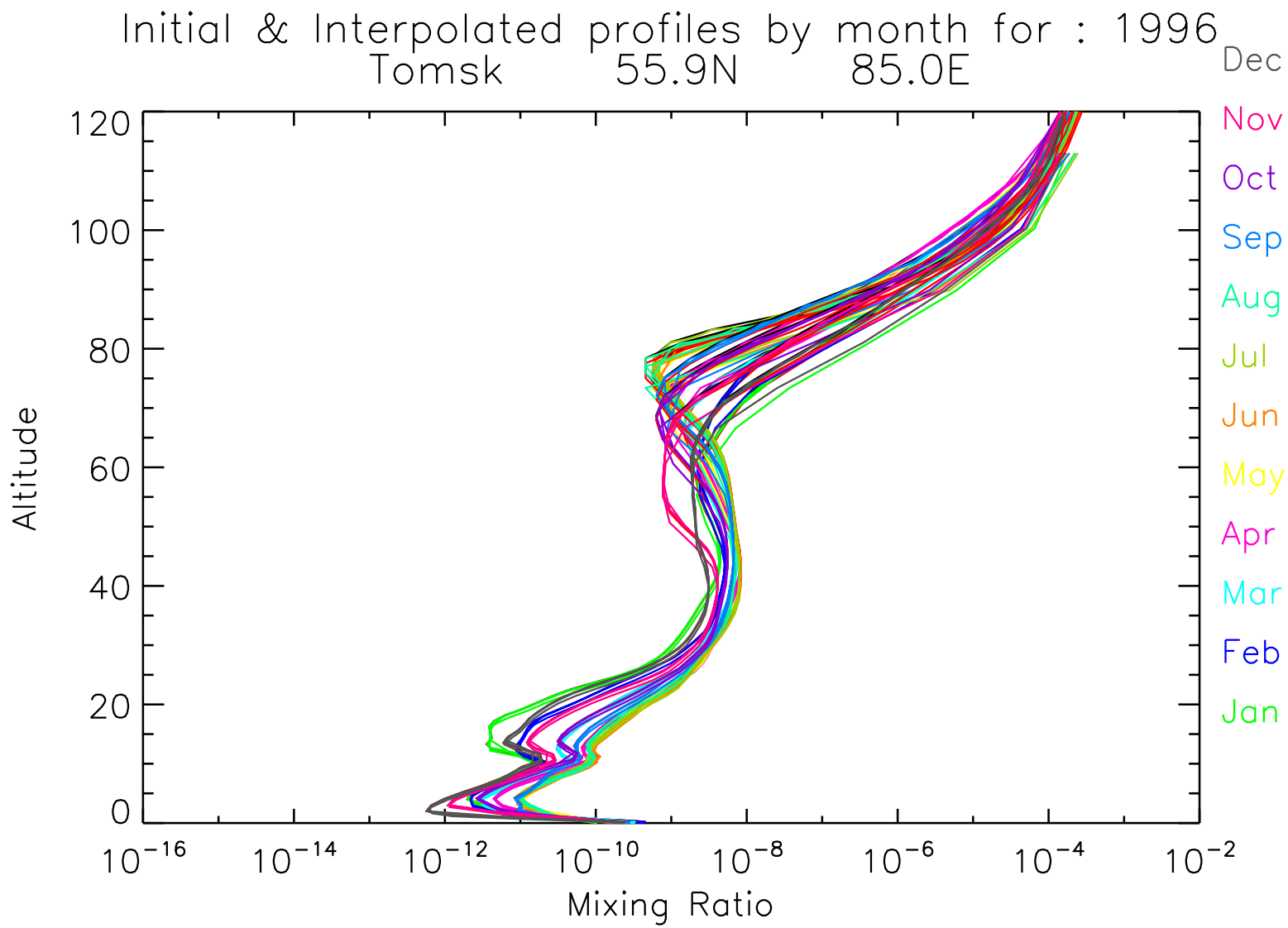
Initial & Interpolated profiles by month for : 1996
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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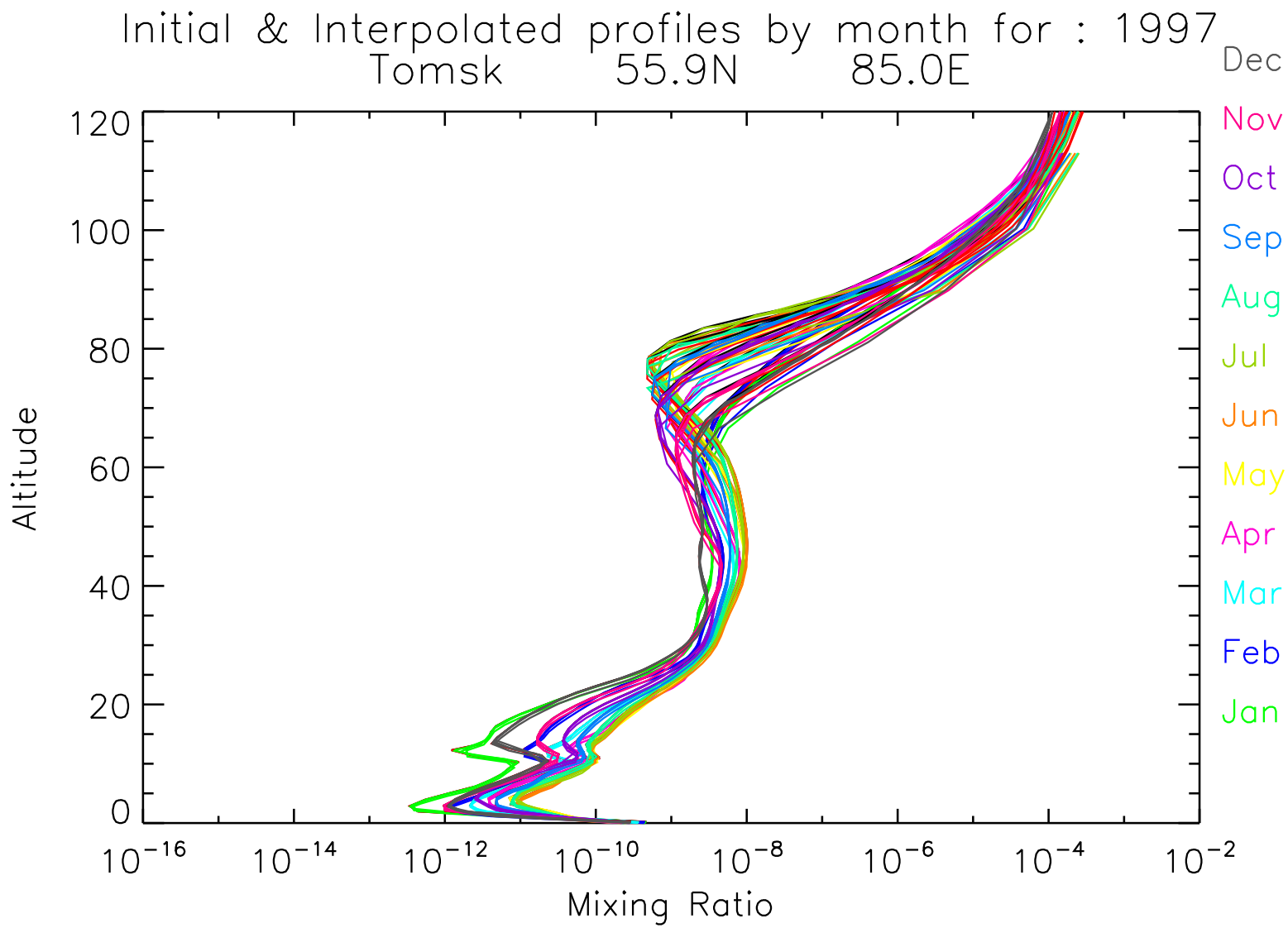
Initial & Interpolated profiles by month for : 1997
Tomsk 55.9N 85.0E
Altitude
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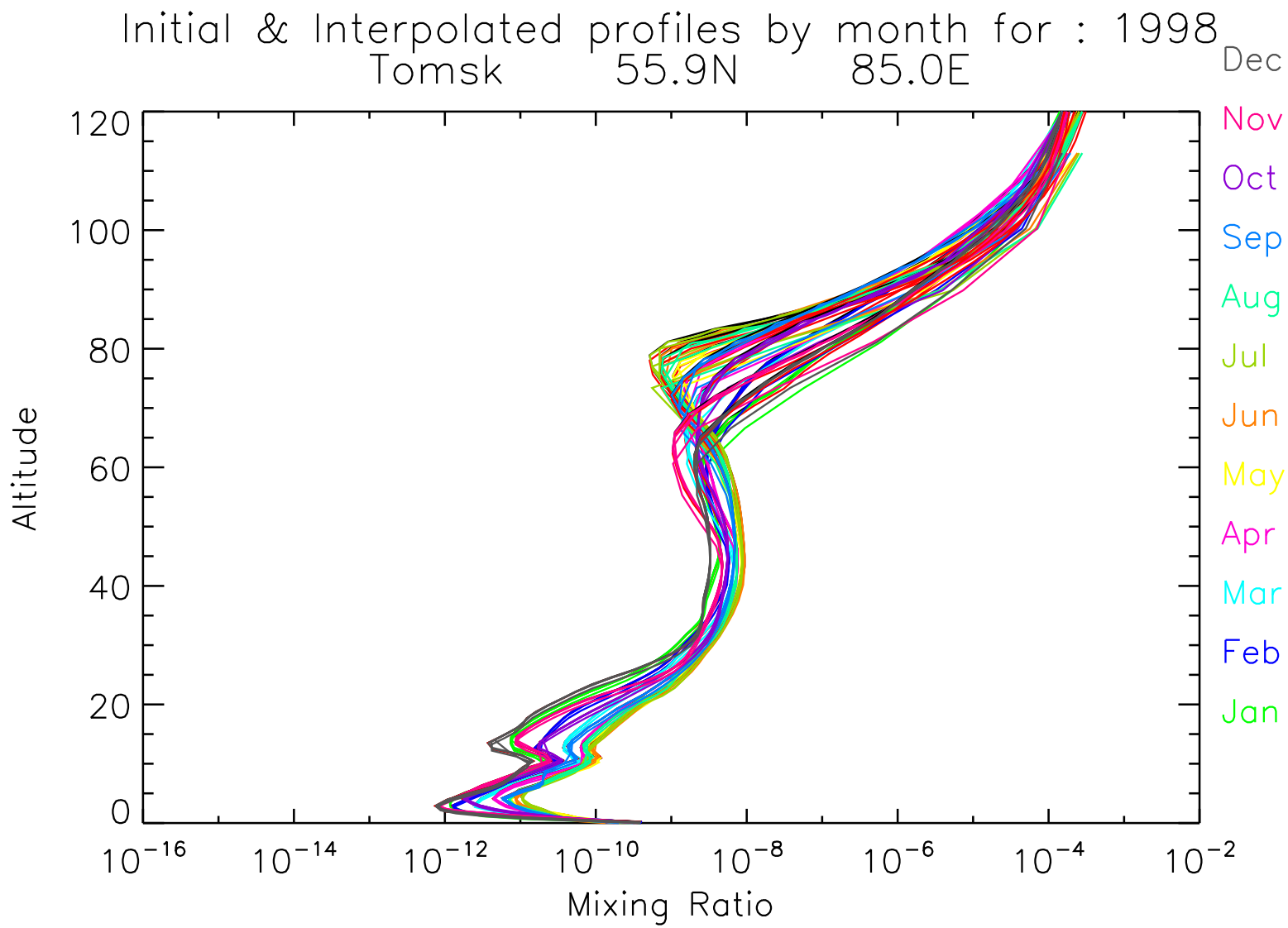
Initial & Interpolated profiles by month for : 1998
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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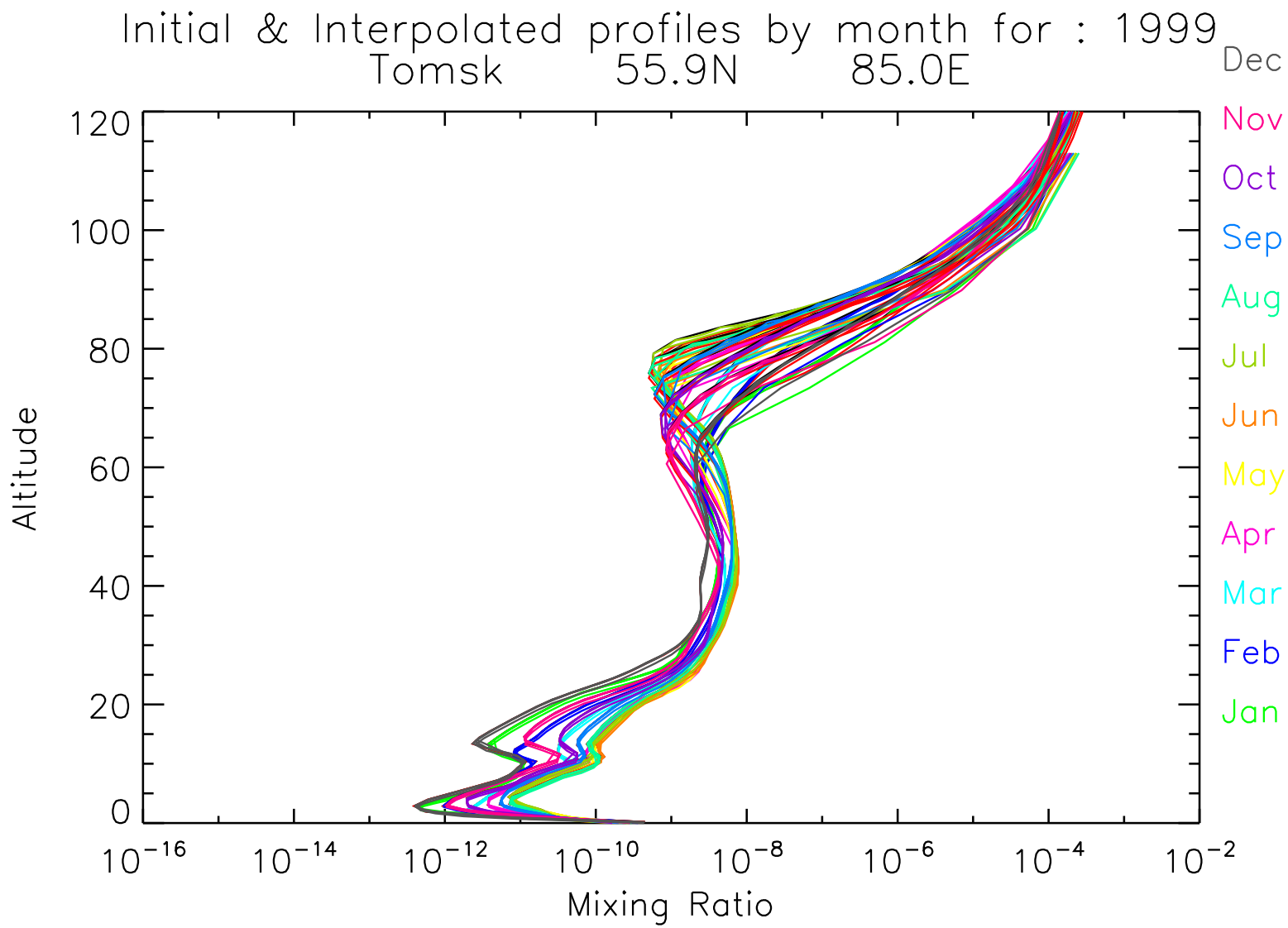
Initial & Interpolated profiles by month for : 1999
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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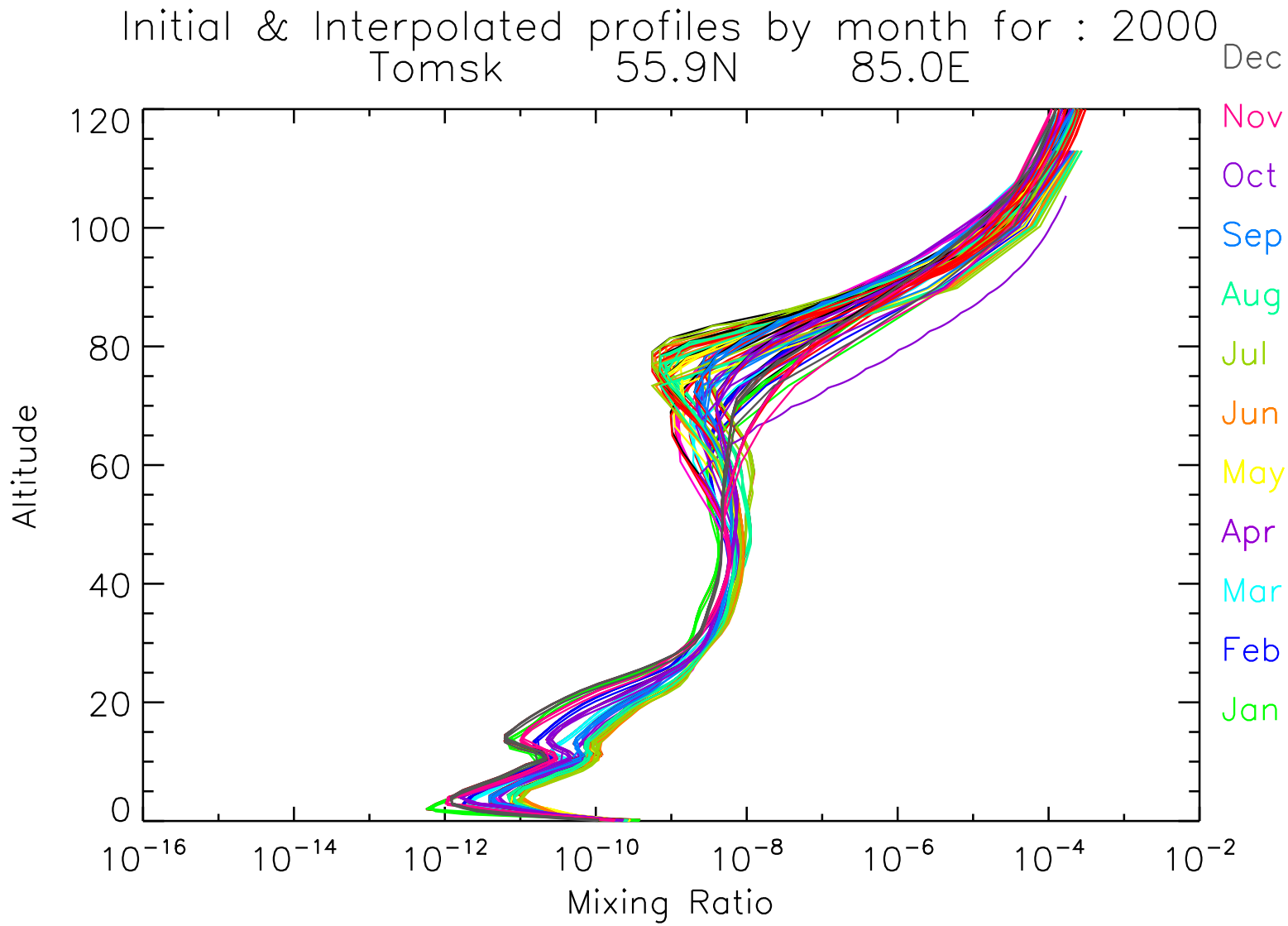
Initial & Interpolated profiles by month for : 2000
Tomsk 55.9N 85.0E
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Altitude
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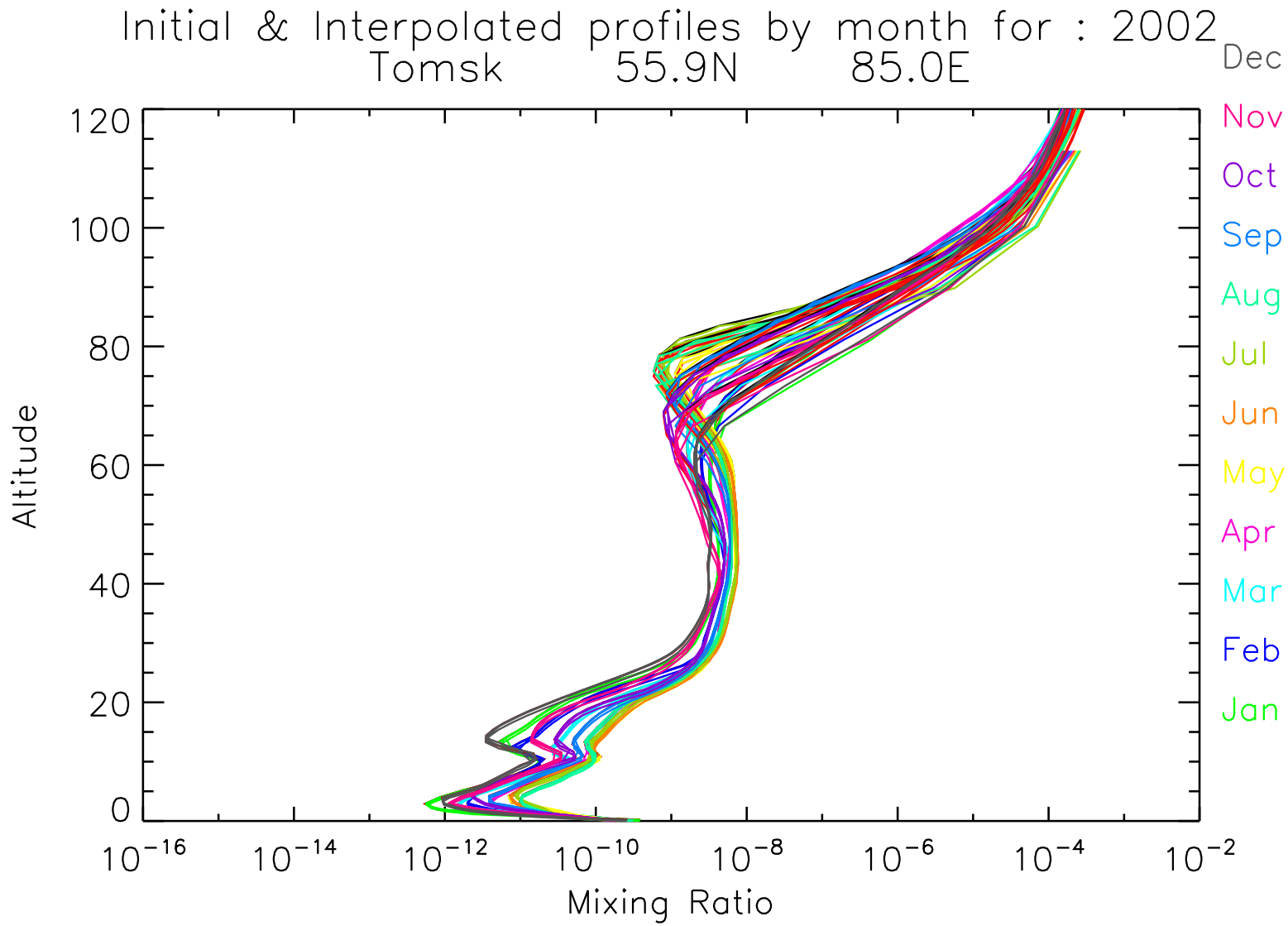
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Tomsk 55.9N 85.0E
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Altitude
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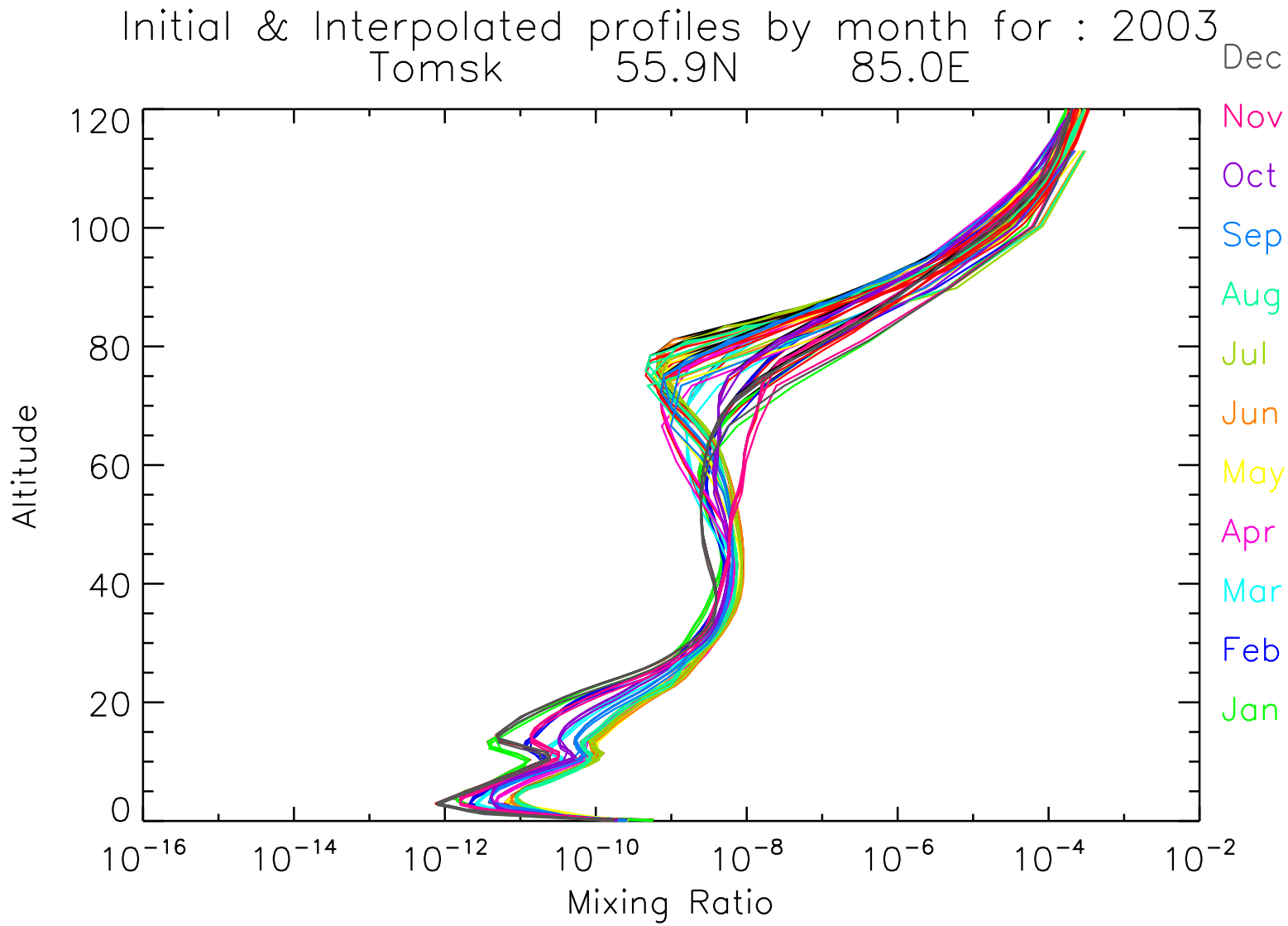
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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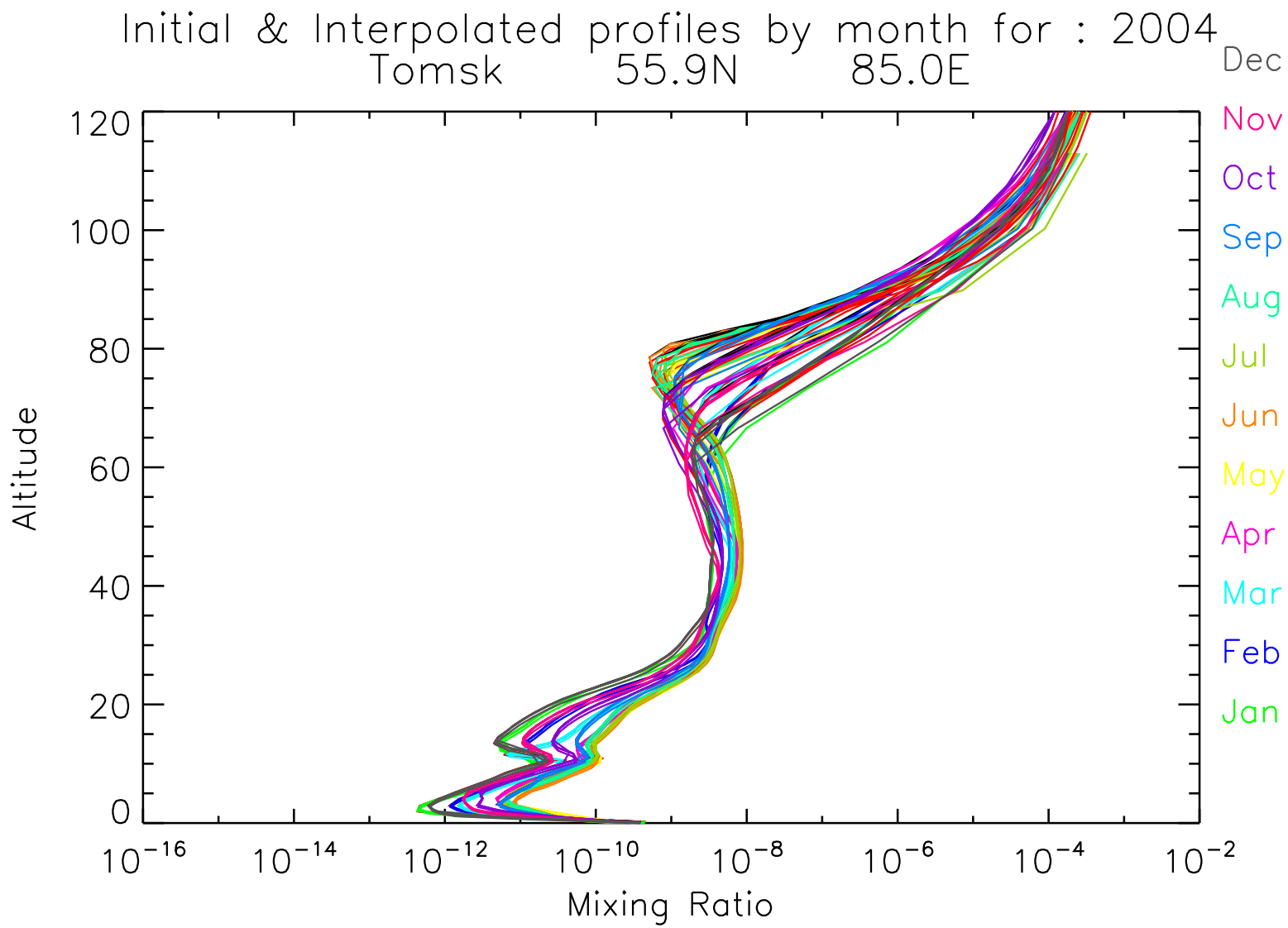
Initial & Interpolated profiles by month for : 2004
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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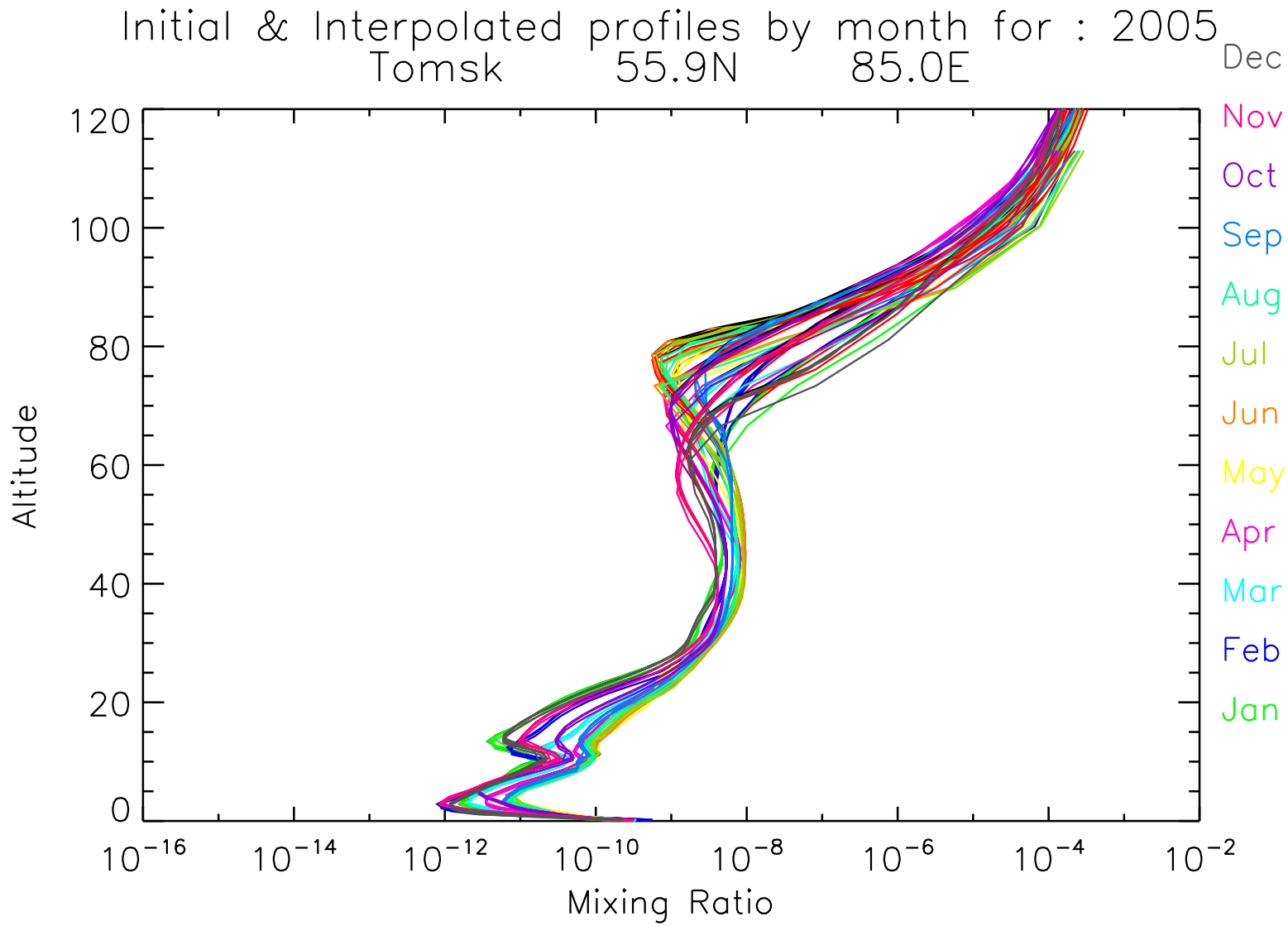
Initial & Interpolated profiles by month for : 2005
Tomsk 55.9N 85.0E
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Altitude
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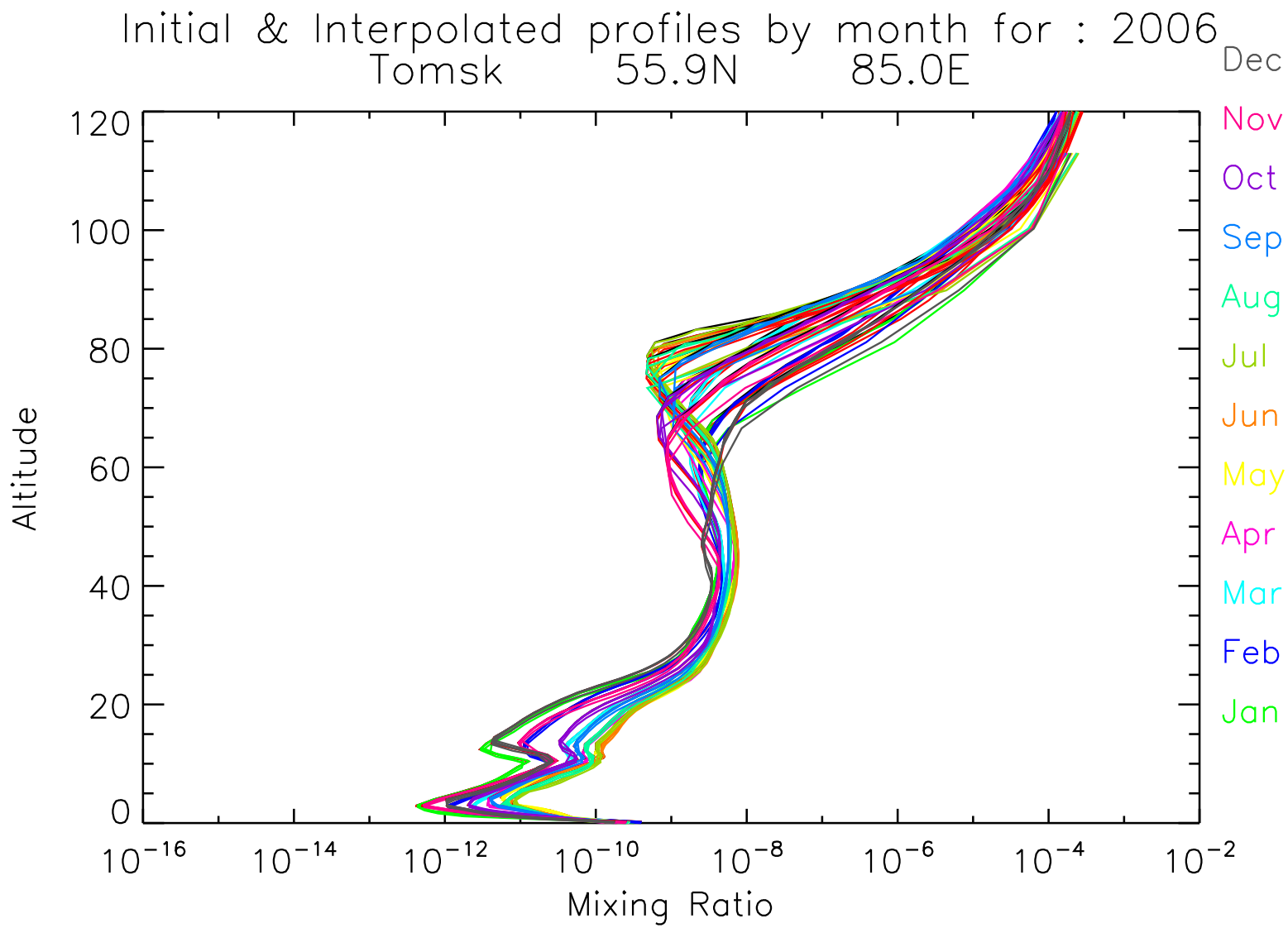
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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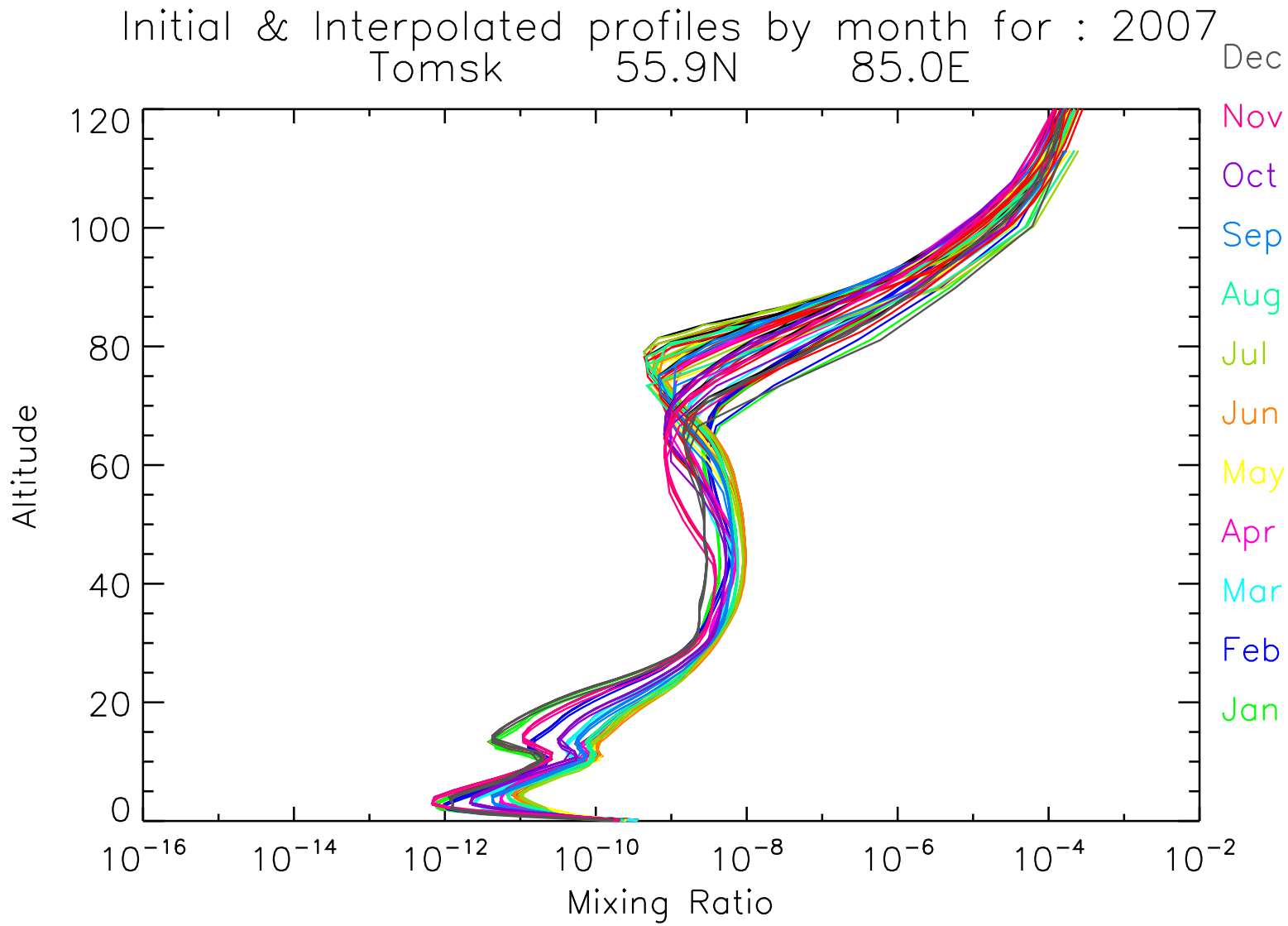
Initial & Interpolated profiles by month for : 2007
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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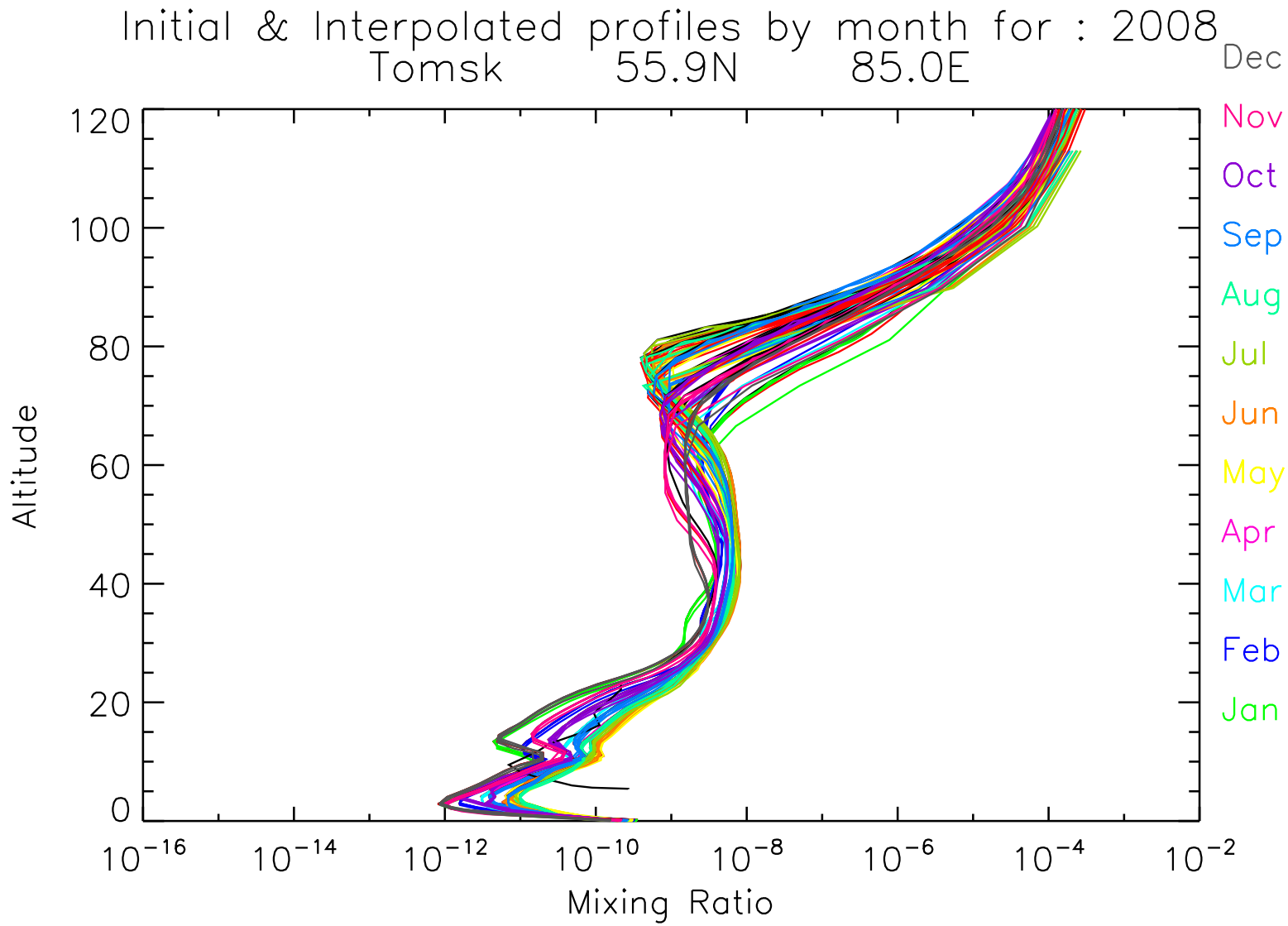
Initial & Interpolated profiles by month for : 2008
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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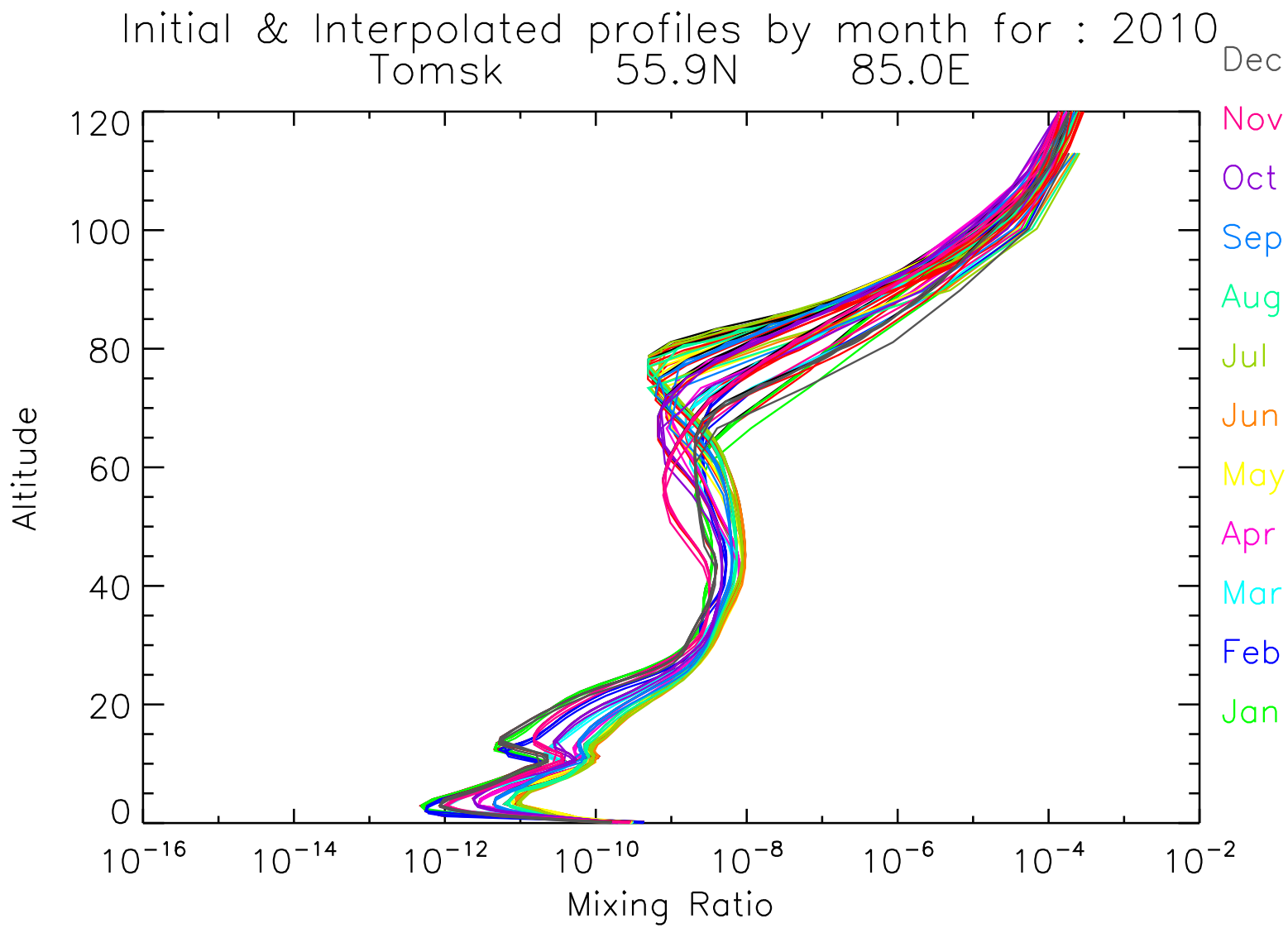
Initial & Interpolated profiles by month for : 2010
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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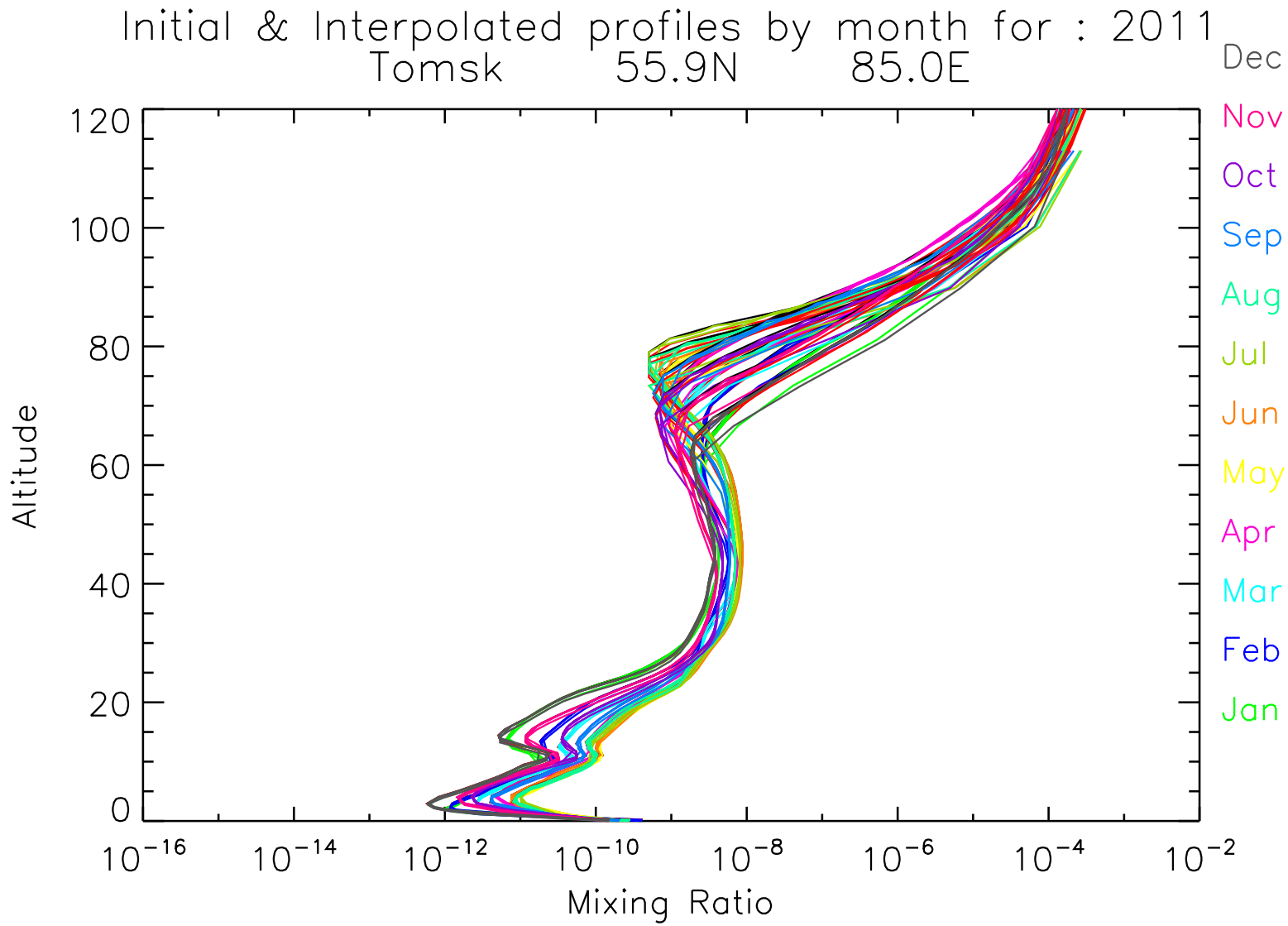
Initial & Interpolated profiles by month for : 2011
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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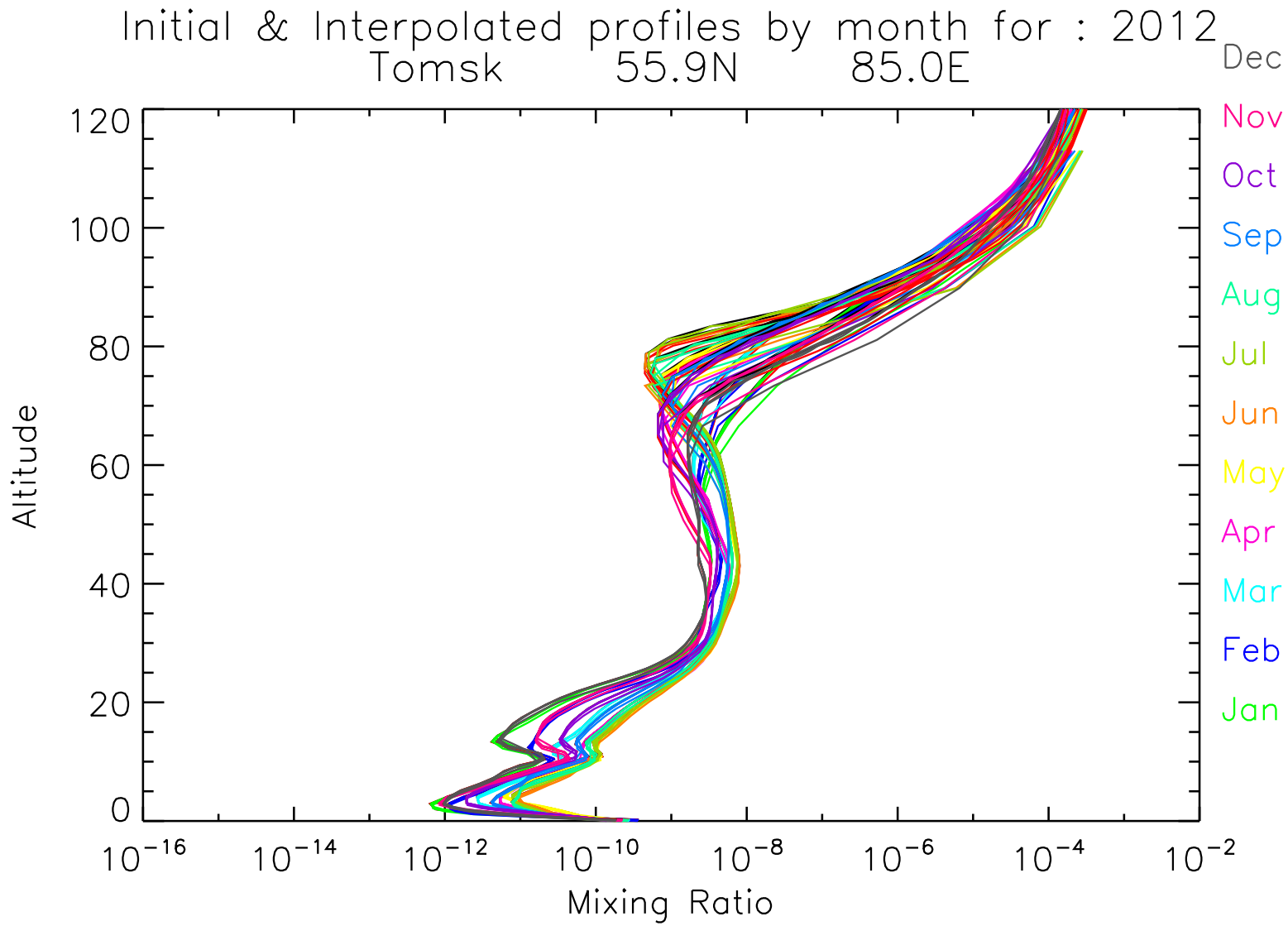
Initial & Interpolated profiles by month for : 2012
Tomsk 55.9N 85.0E
Altitude
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Mixing Ratio
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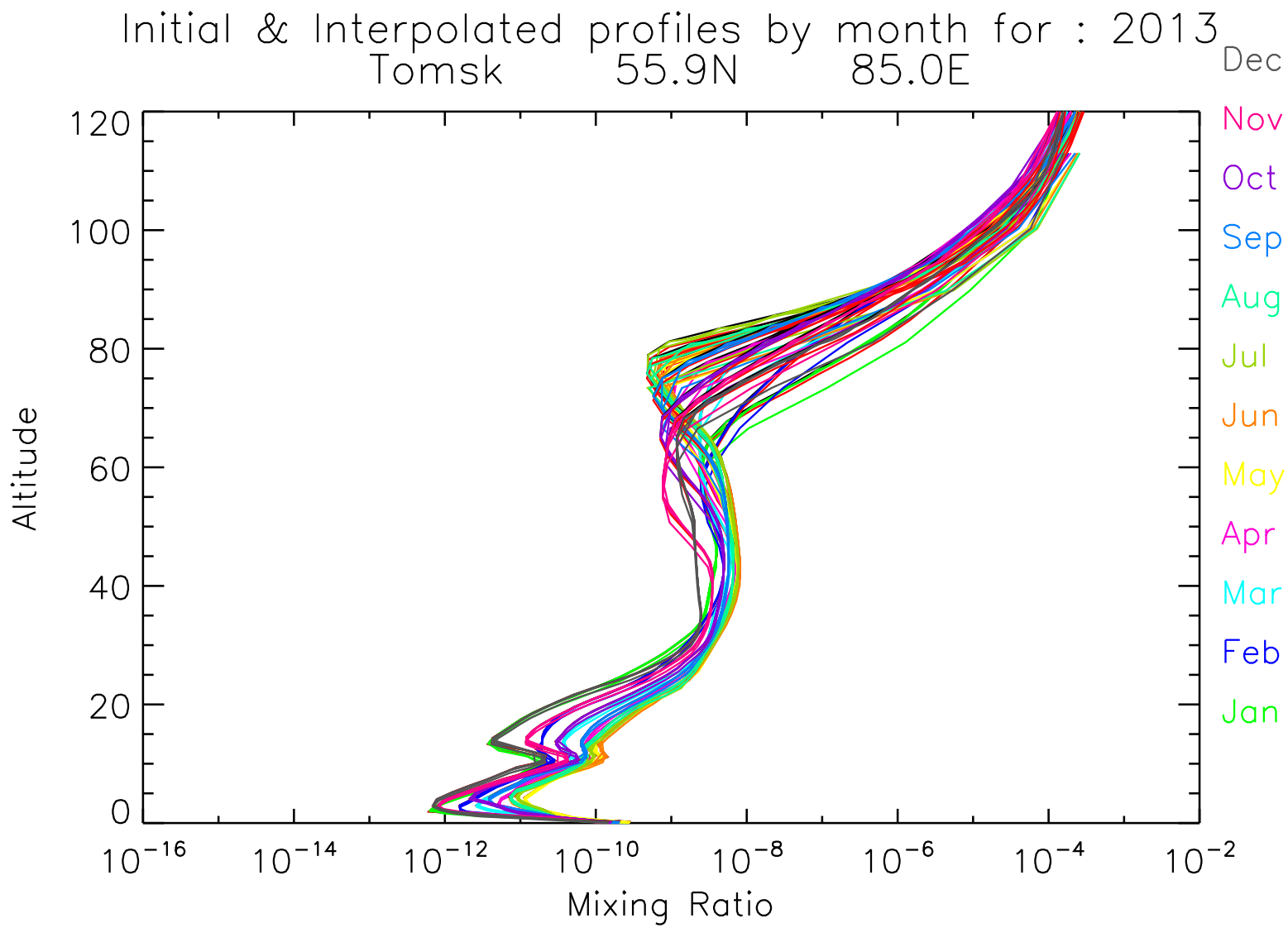
Initial & Interpolated profiles by month for : 2013
Tomsk 55.9N 85.0E
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Jan
Altitude
120
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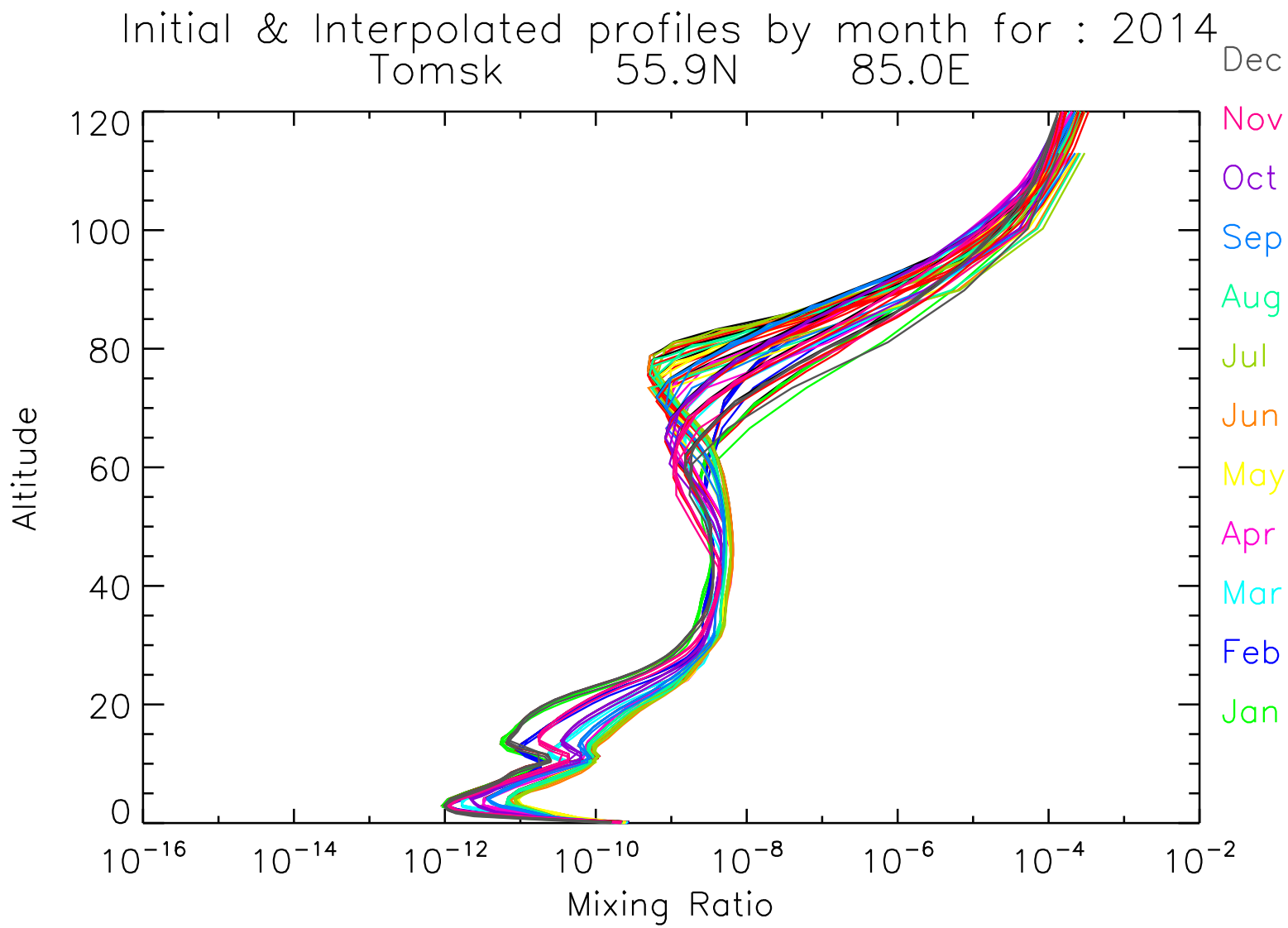
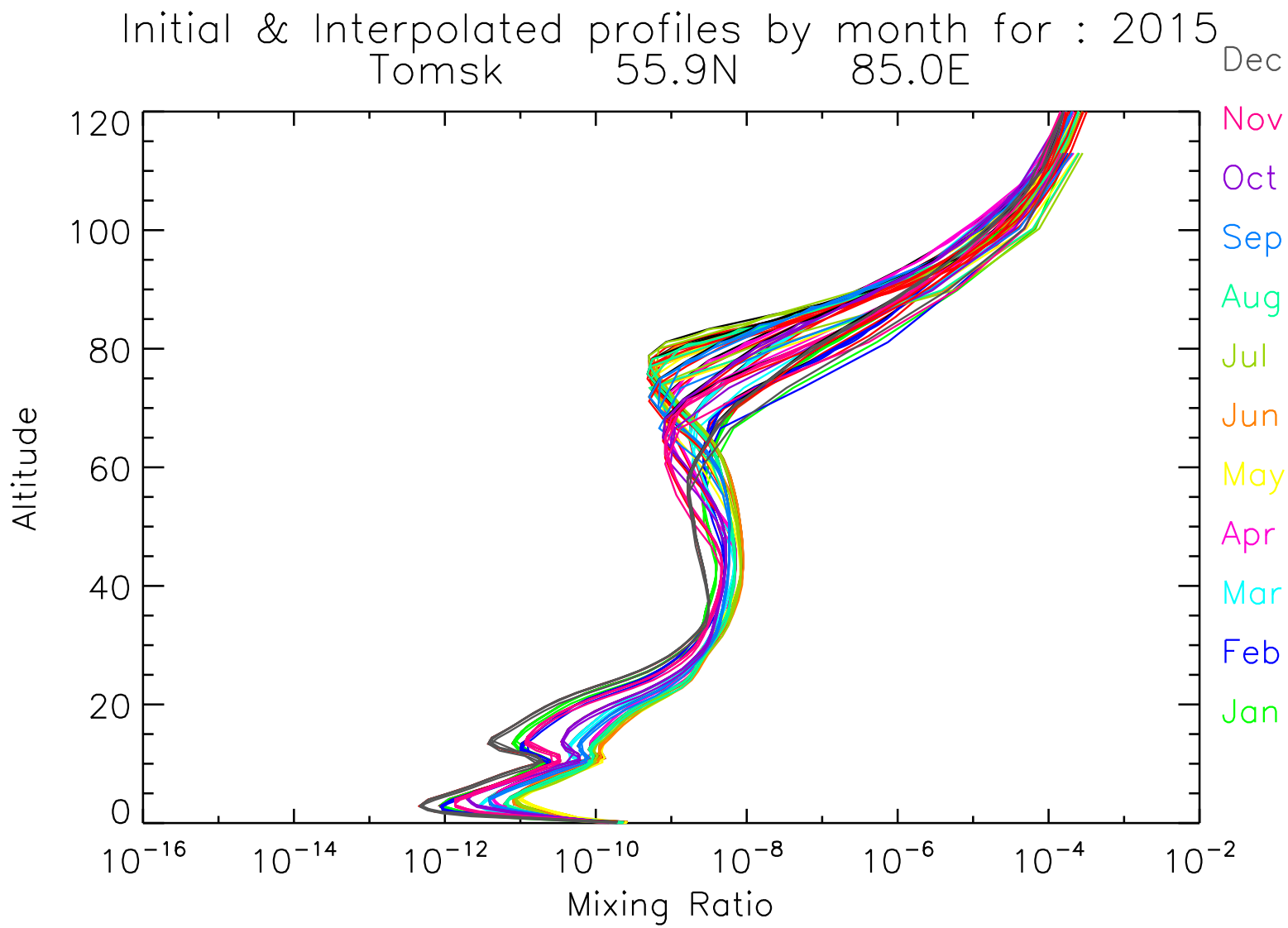
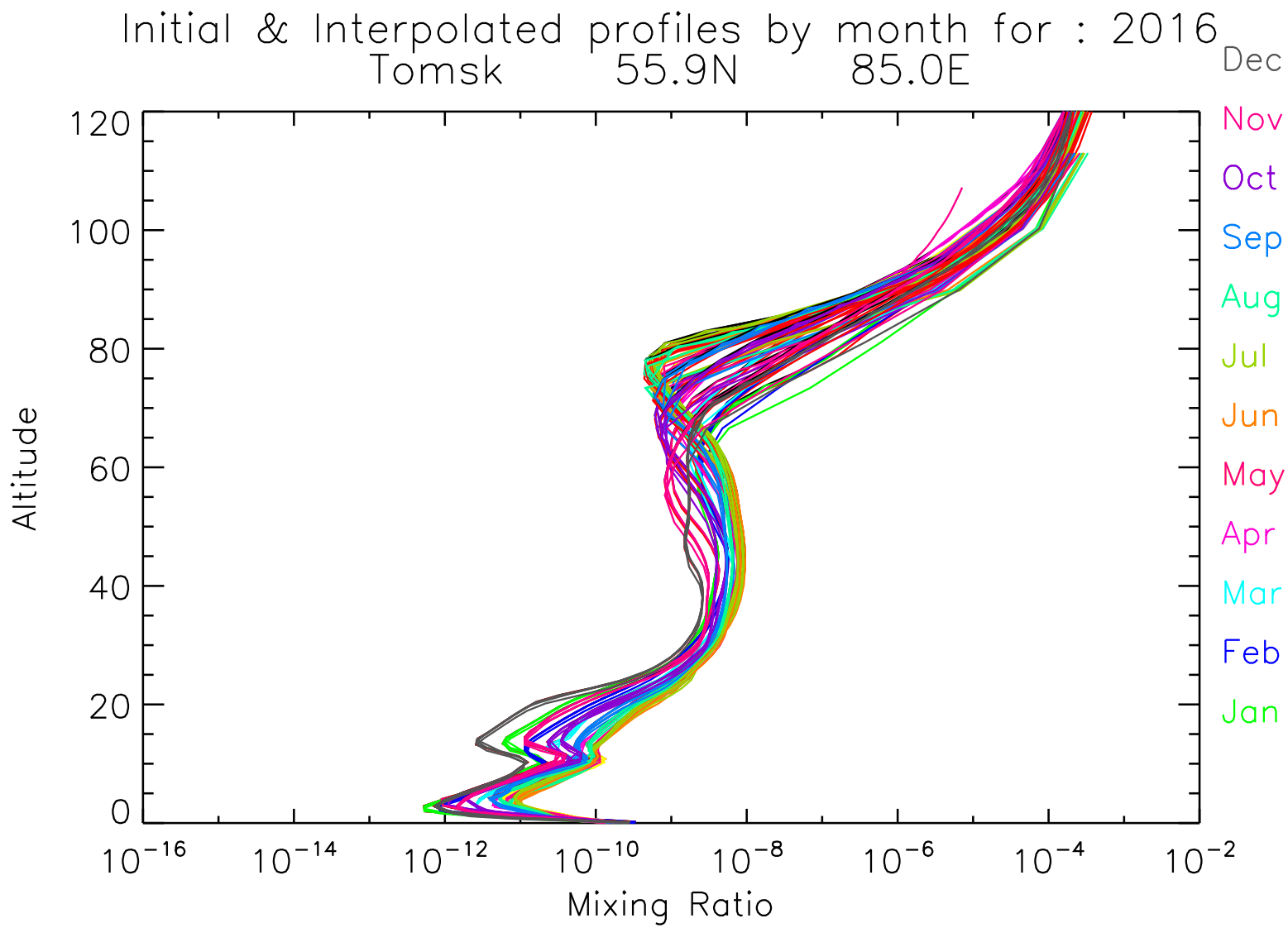
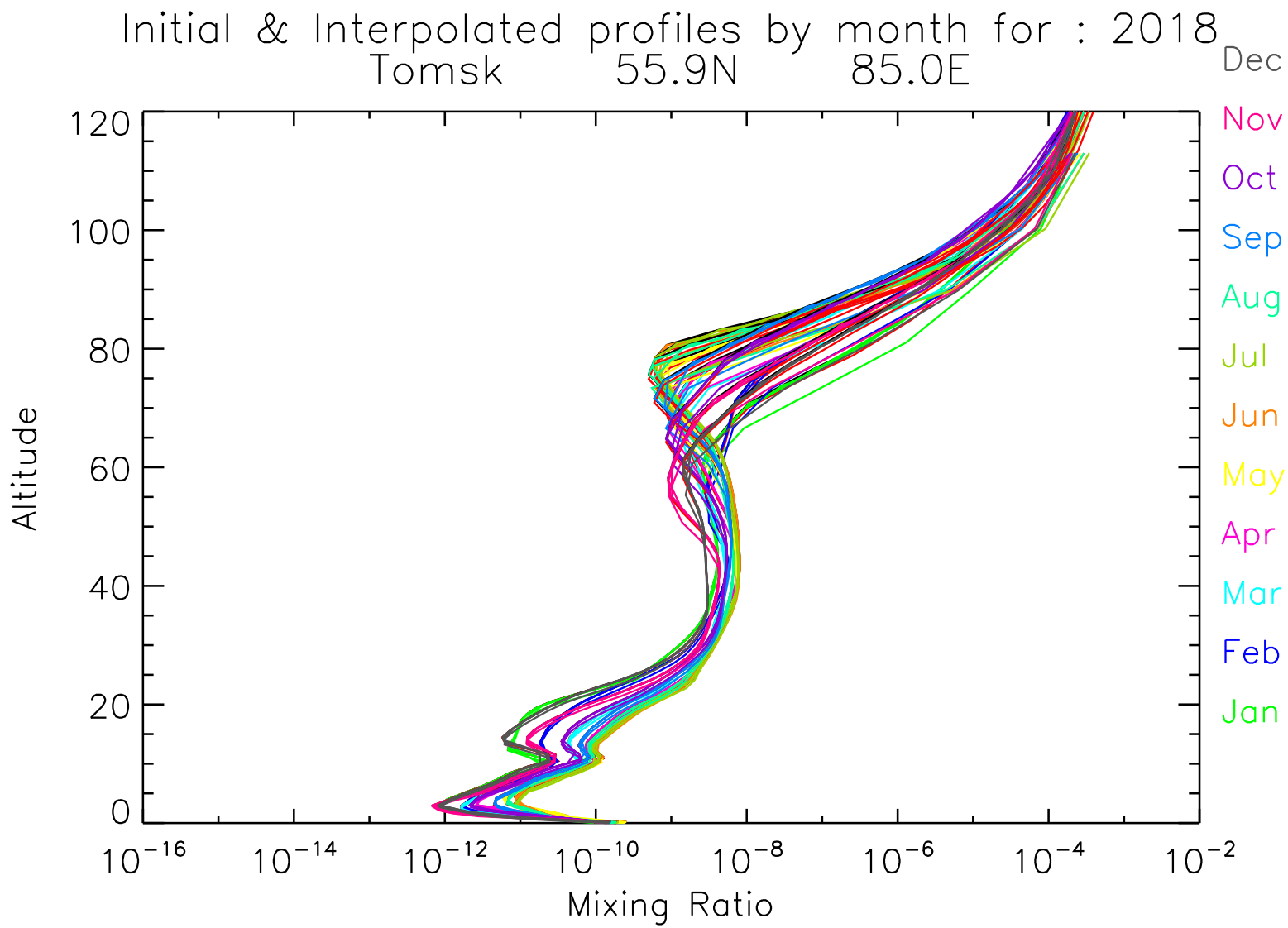
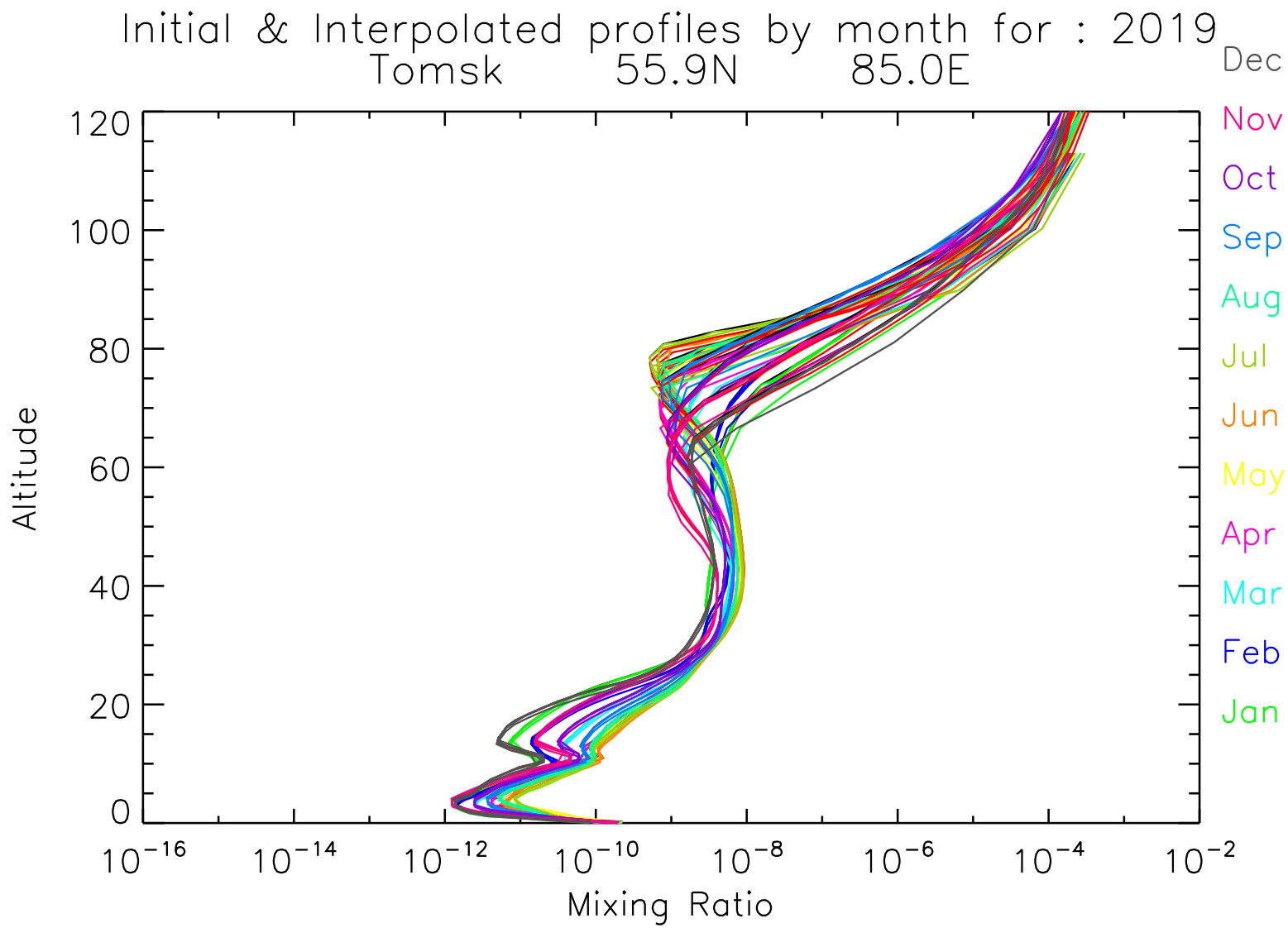
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio

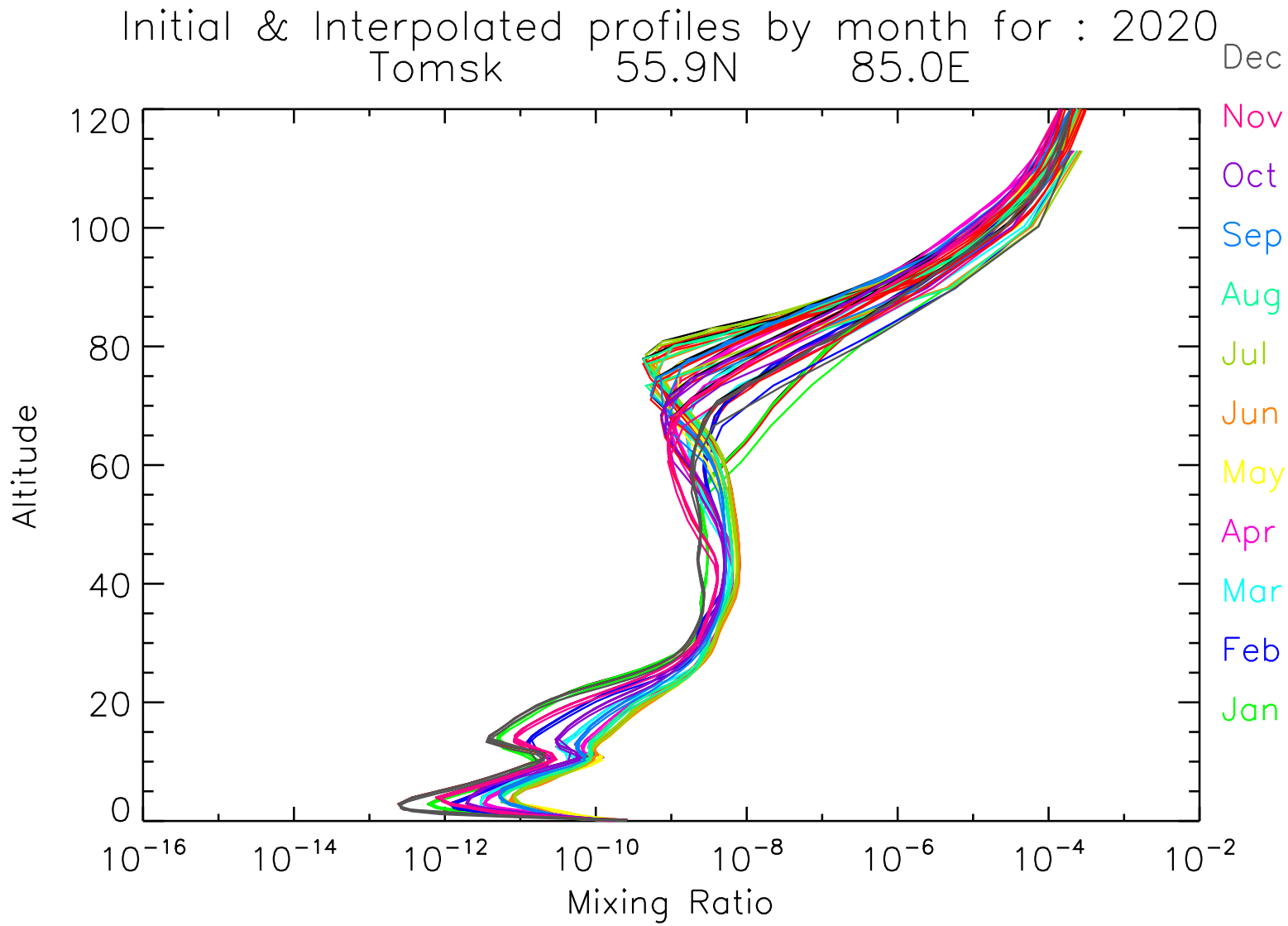

Initial & Interpolated profiles by month for : 2014
Tomsk 55.9N 85.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio

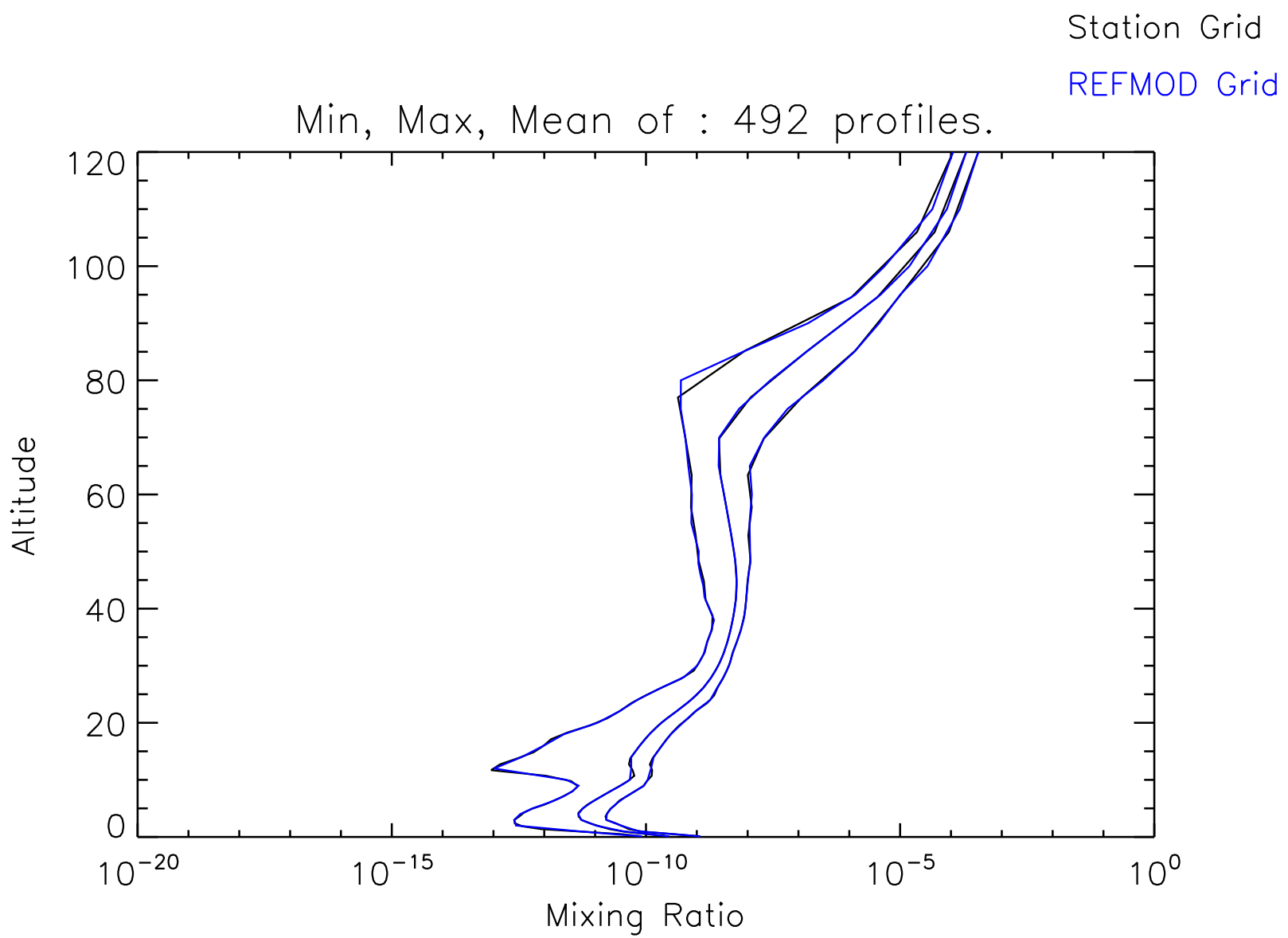

Initial & Interpolated profiles by month for : 2015
Tomsk 55.9N 85.0E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

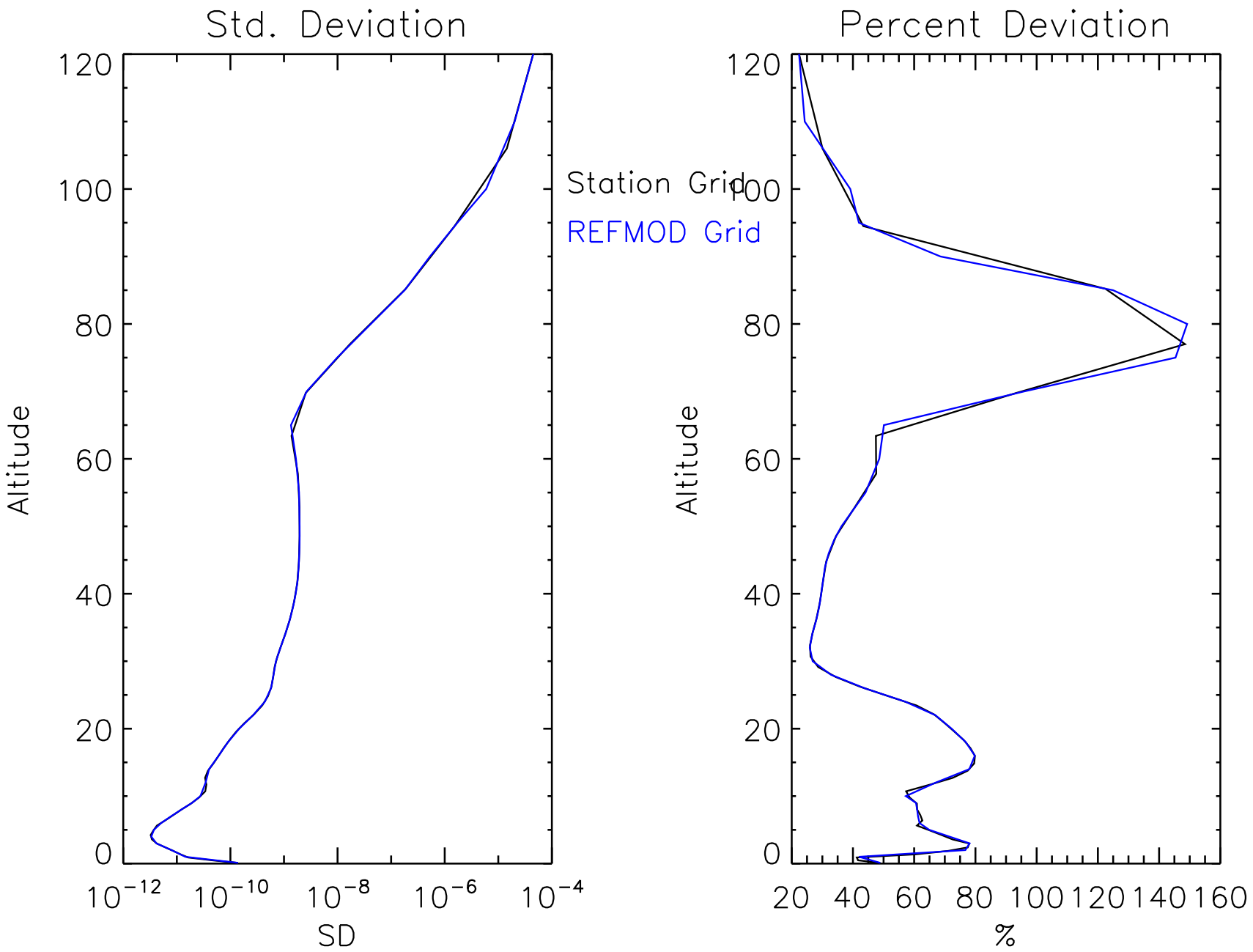

Initial & Interpolated profiles by month for : 2016
Tomsk 55.9N 85.0E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

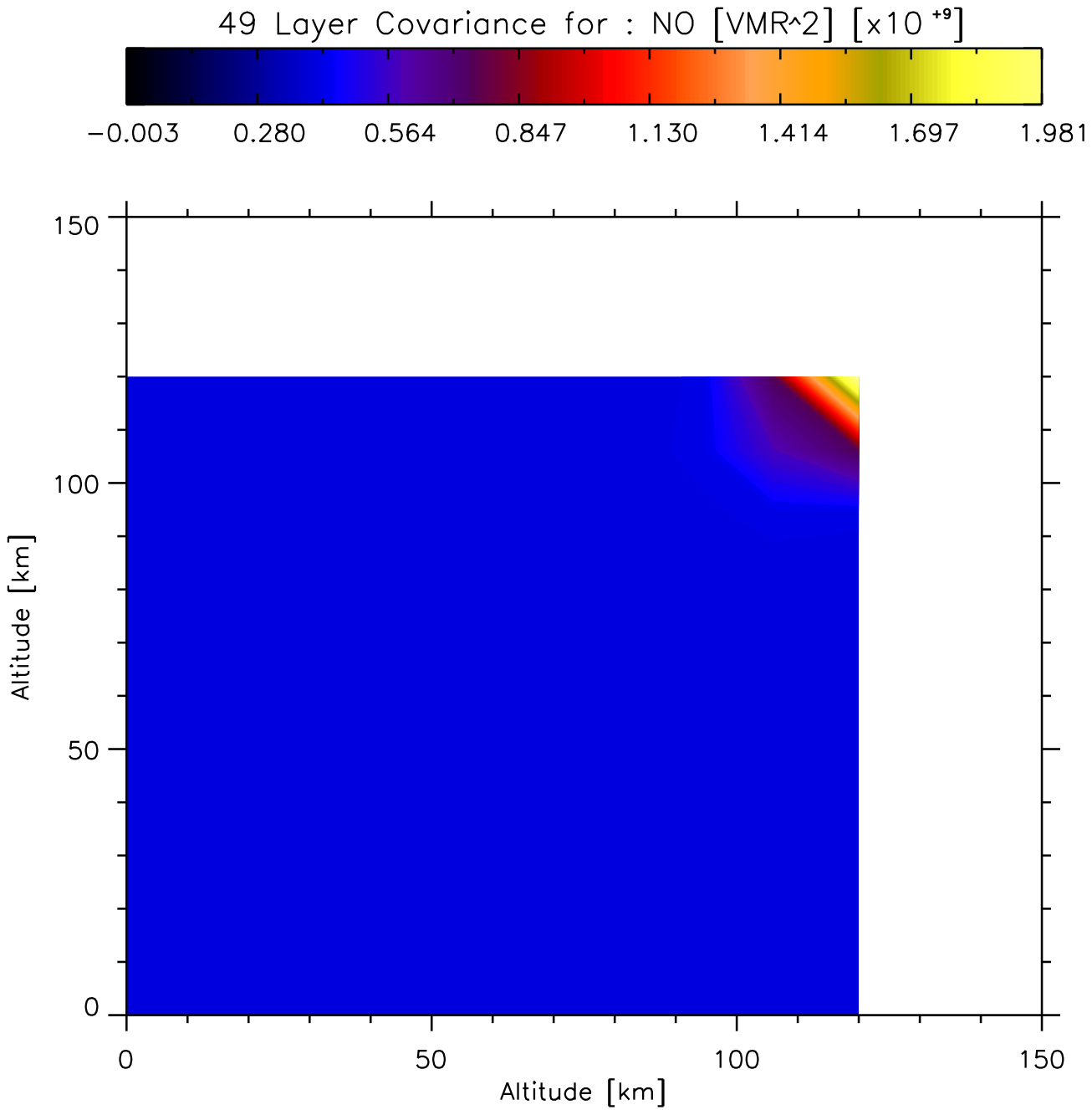

Initial & Interpolated profiles by month for : 2018
Tomsk 55.9N 85.0E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2019
Tomsk 55.9N 85.0E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

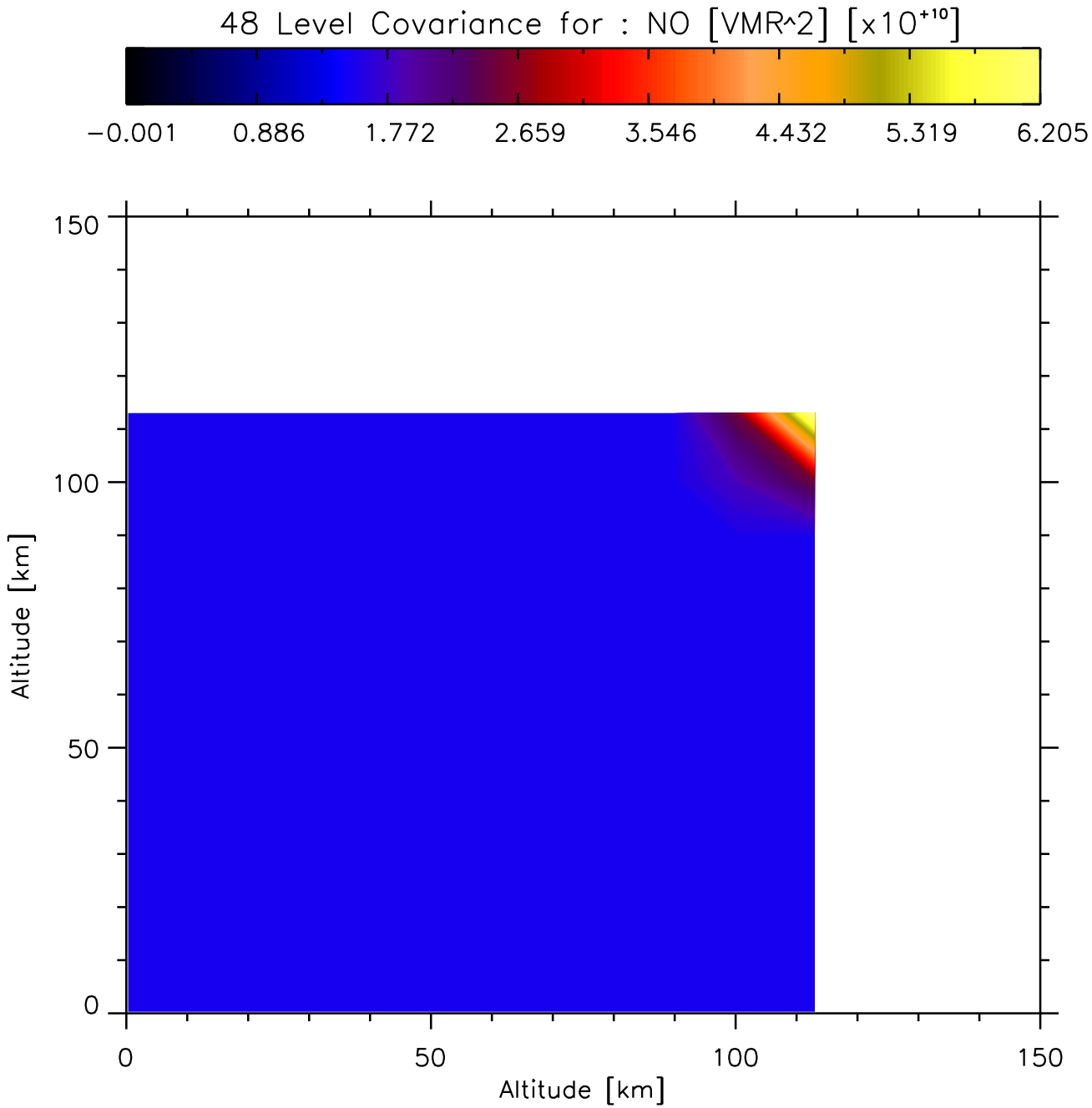

Initial & Interpolated profiles by month for : 2020
Tomsk 55.9N 85.0E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-20}
10^{-15}
10^{-10}
10^{-5}
10^{0}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
SD
20
40
60
80
100
120
140
160
%


49 Layer Covariance for : NO [VMR^2] [x10 +9]
−0.003
0.280
0.564
0.847
1.130
1.414
1.697
1.981
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : NO [VMR^2] [x10^-9]
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
Y Altitude
0
50
100
0
50
X Altitude
100


48 Level Covariance for : NO [VMR^2] [x10^+10]
−0.001
0.886
1.772
2.659
3.546
4.432
5.319
6.205
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]