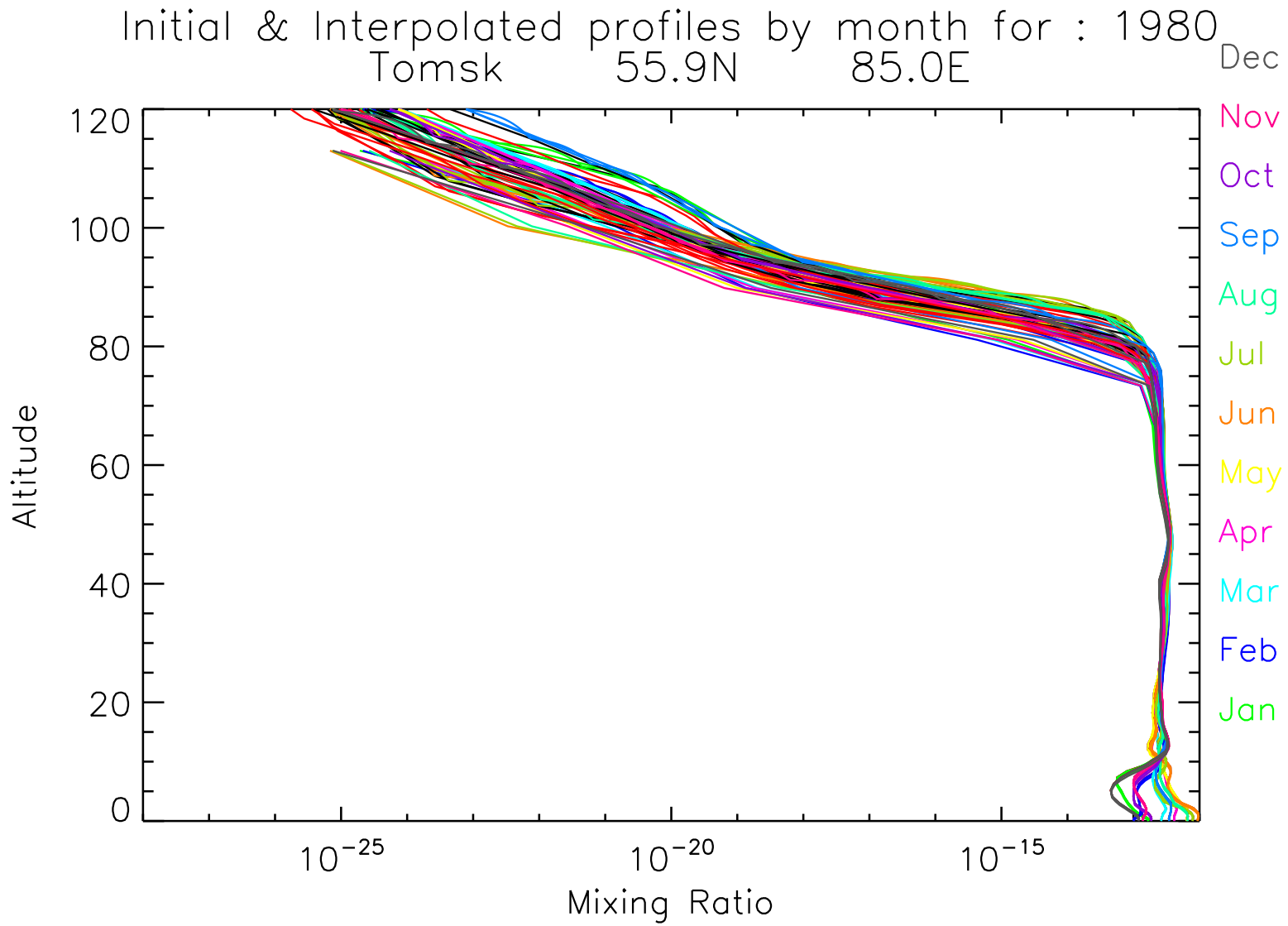
Initial & Interpolated profiles by month for : 1980
Tomsk 55.9N 85.0E
Dec
Nov
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120
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40
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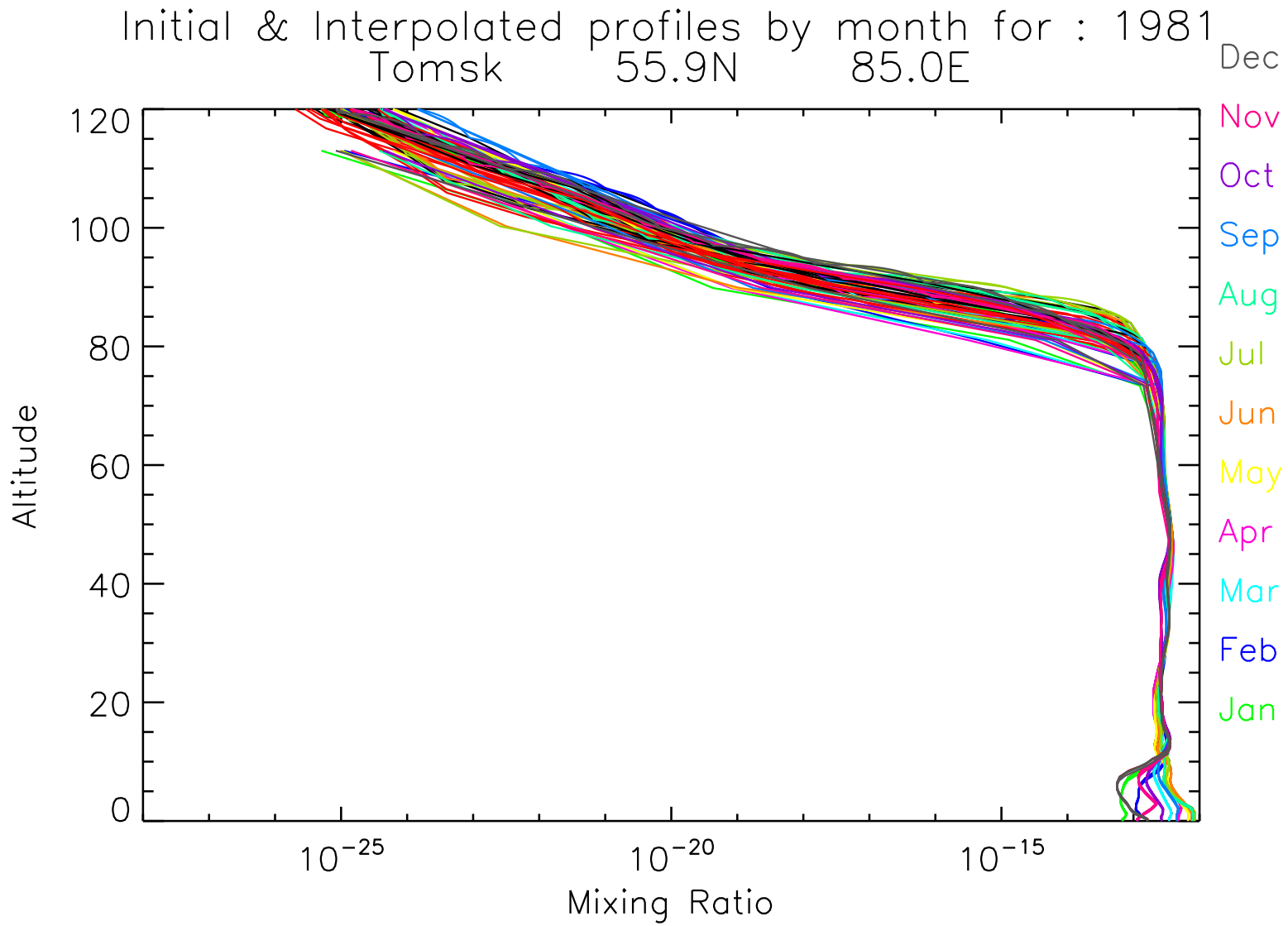
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Tomsk 55.9N 85.0E
Dec
Nov
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120
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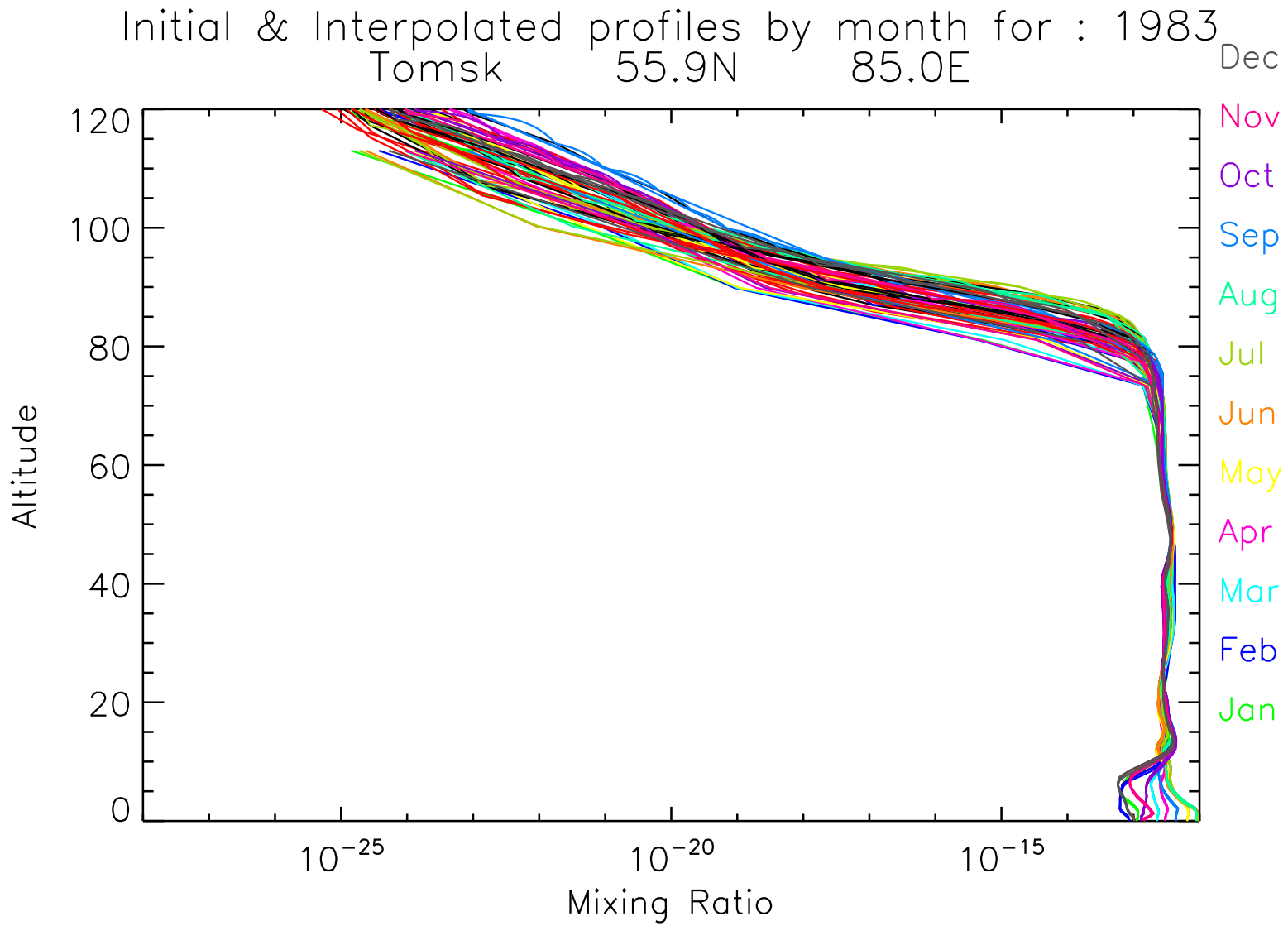
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio

Initial & Interpolated profiles by month for : 1


Initial & Interpolated profiles by month for : 1983
Tomsk 55.9N 85.0E
Dec
Nov
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Jan
120
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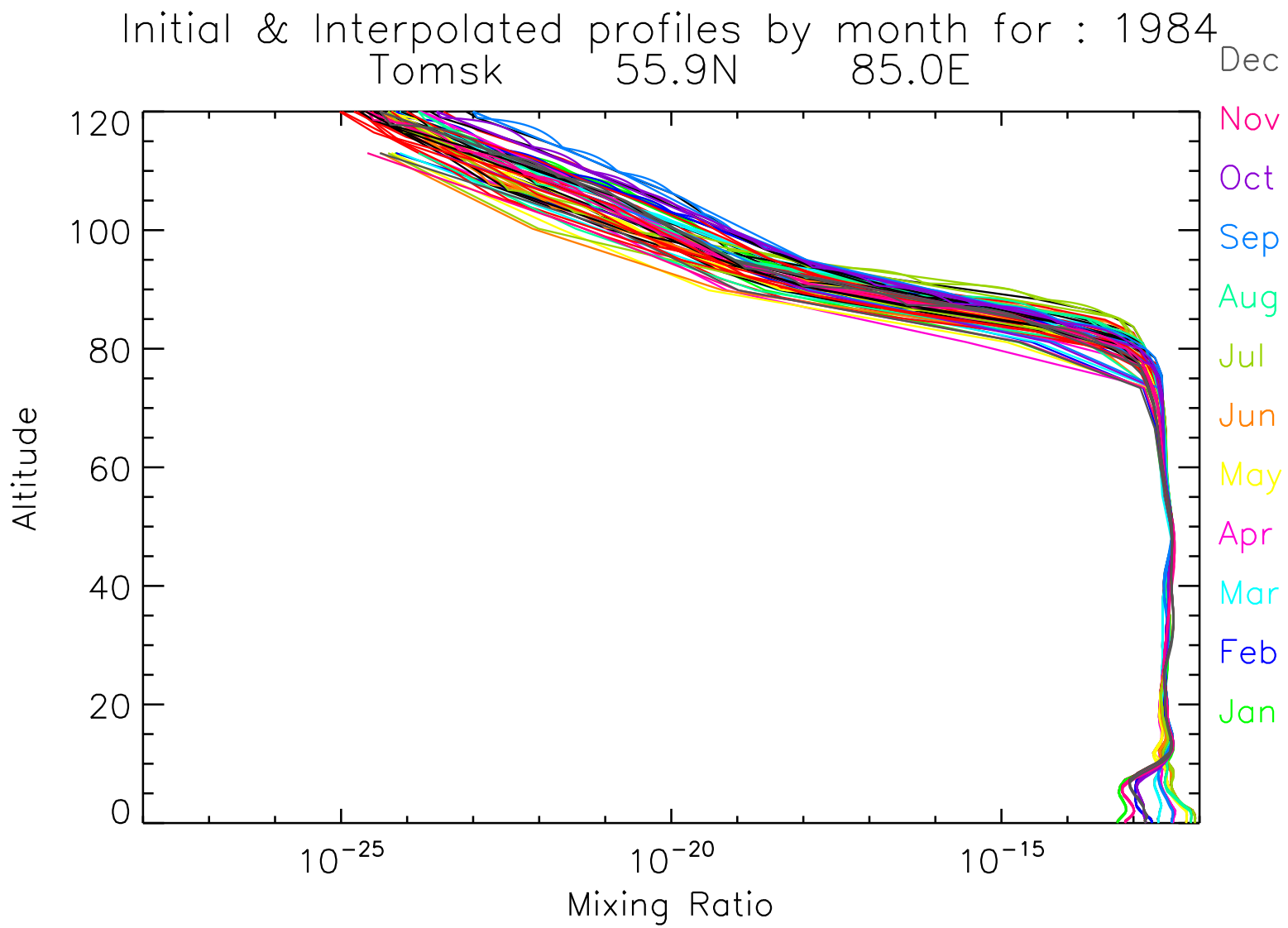
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Tomsk 55.9N 85.0E
Dec
Nov
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120
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20
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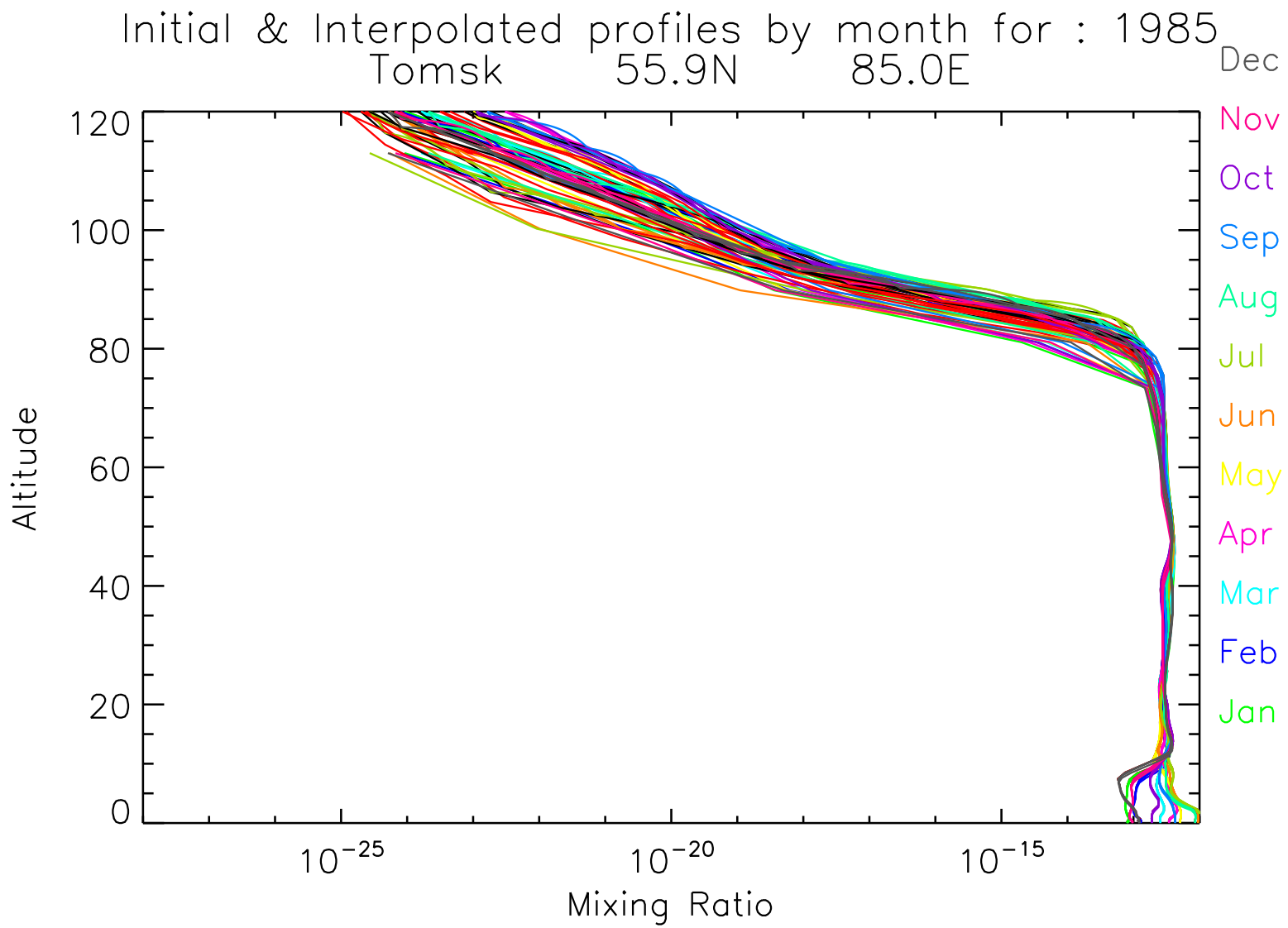
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Tomsk 55.9N 85.0E
Dec
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120
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0
Altitude
10^{-25}
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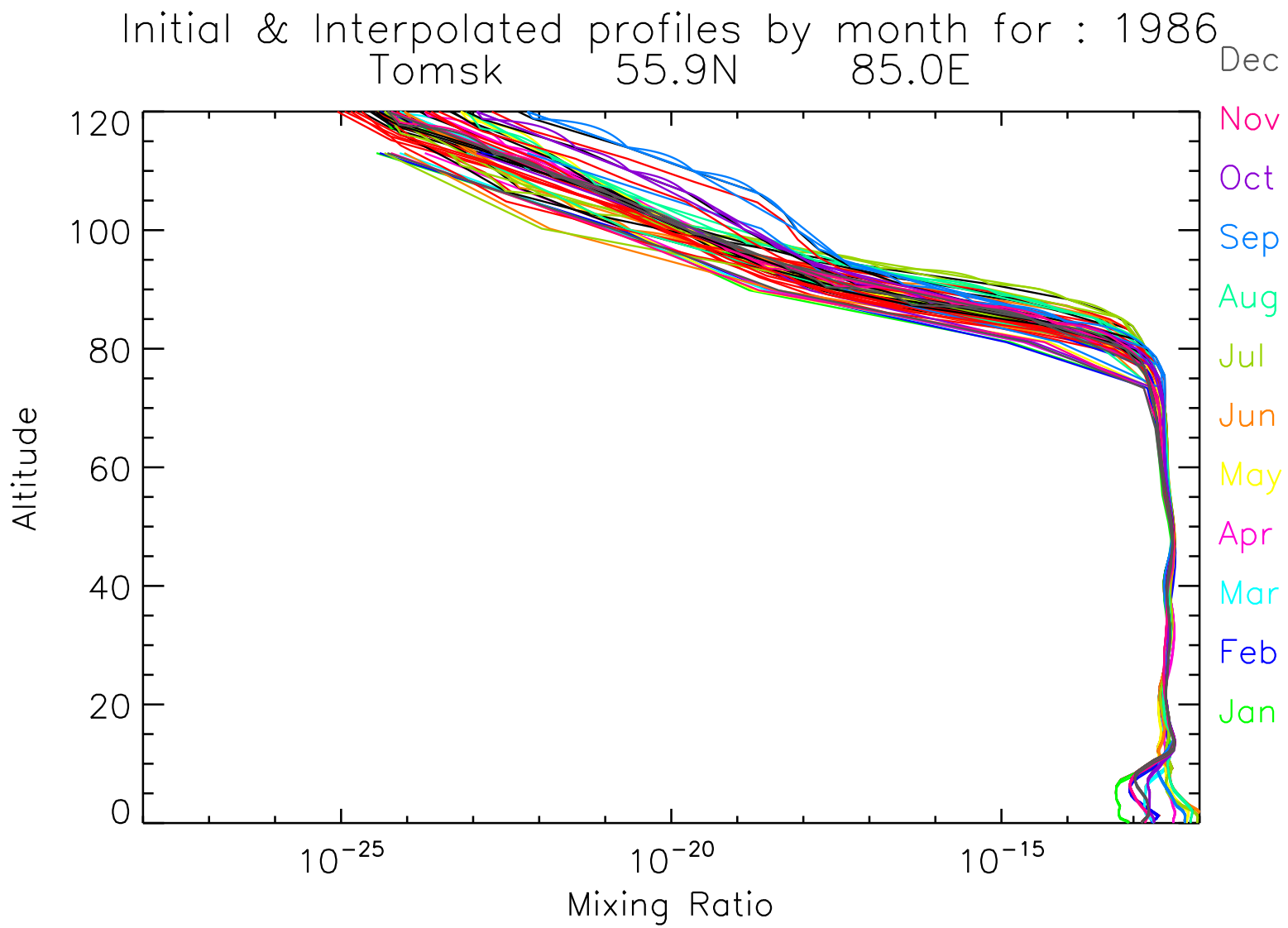
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Tomsk 55.9N 85.0E
Dec
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Altitude
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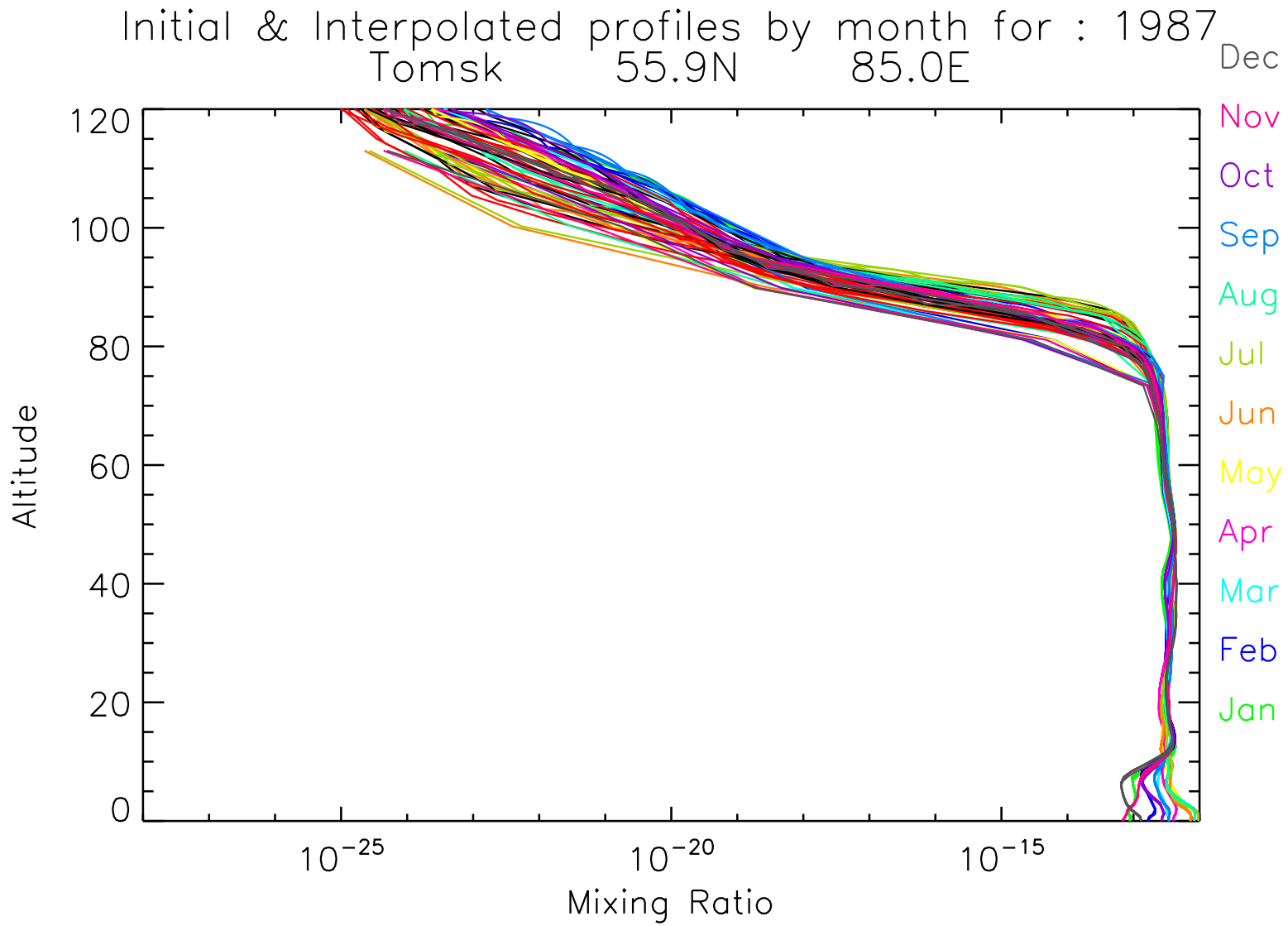
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Tomsk 55.9N 85.0E
Dec
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120
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Altitude
10^{-25}
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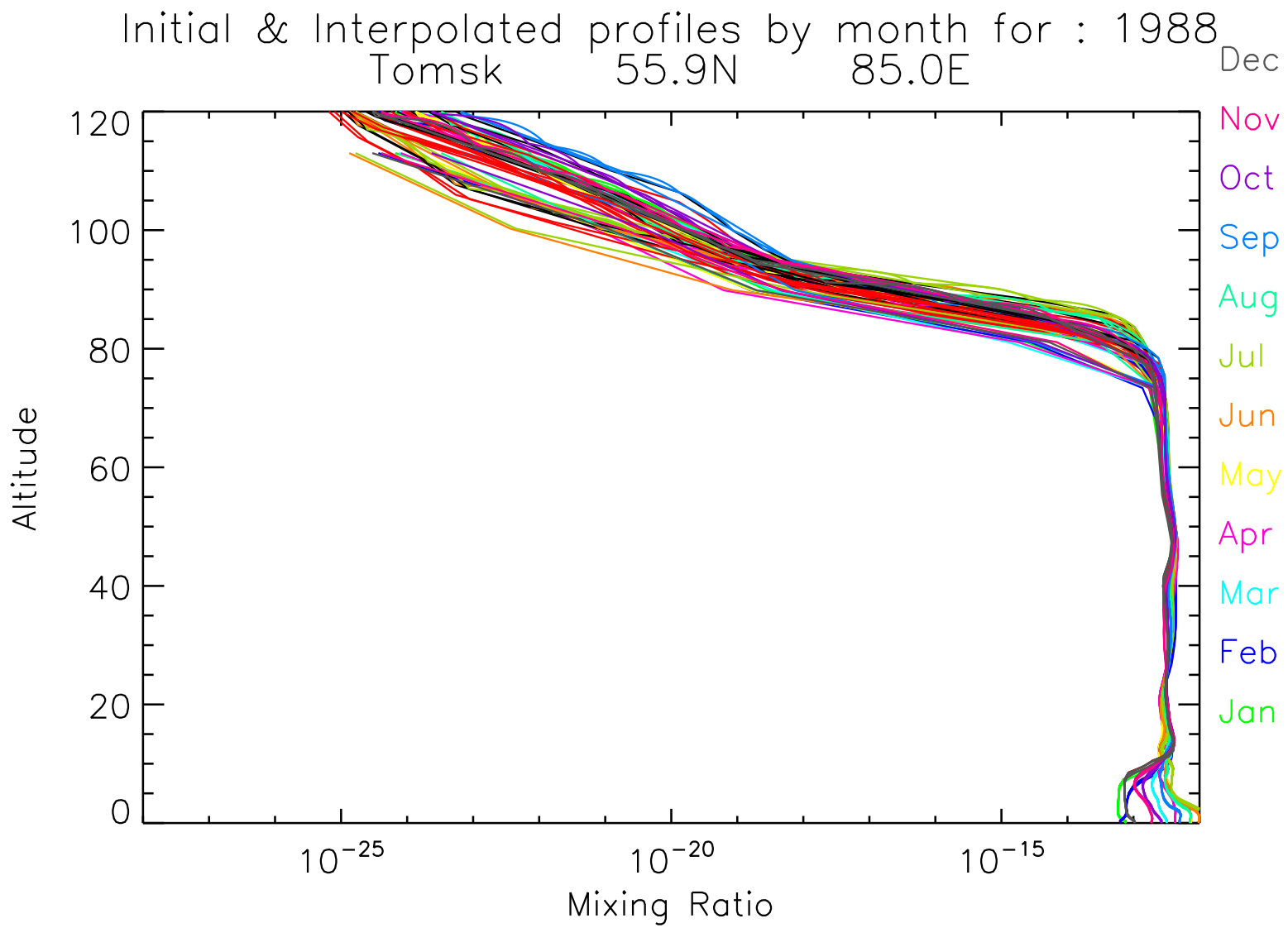
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Tomsk 55.9N 85.0E
Dec
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120
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Altitude
10^{-25}
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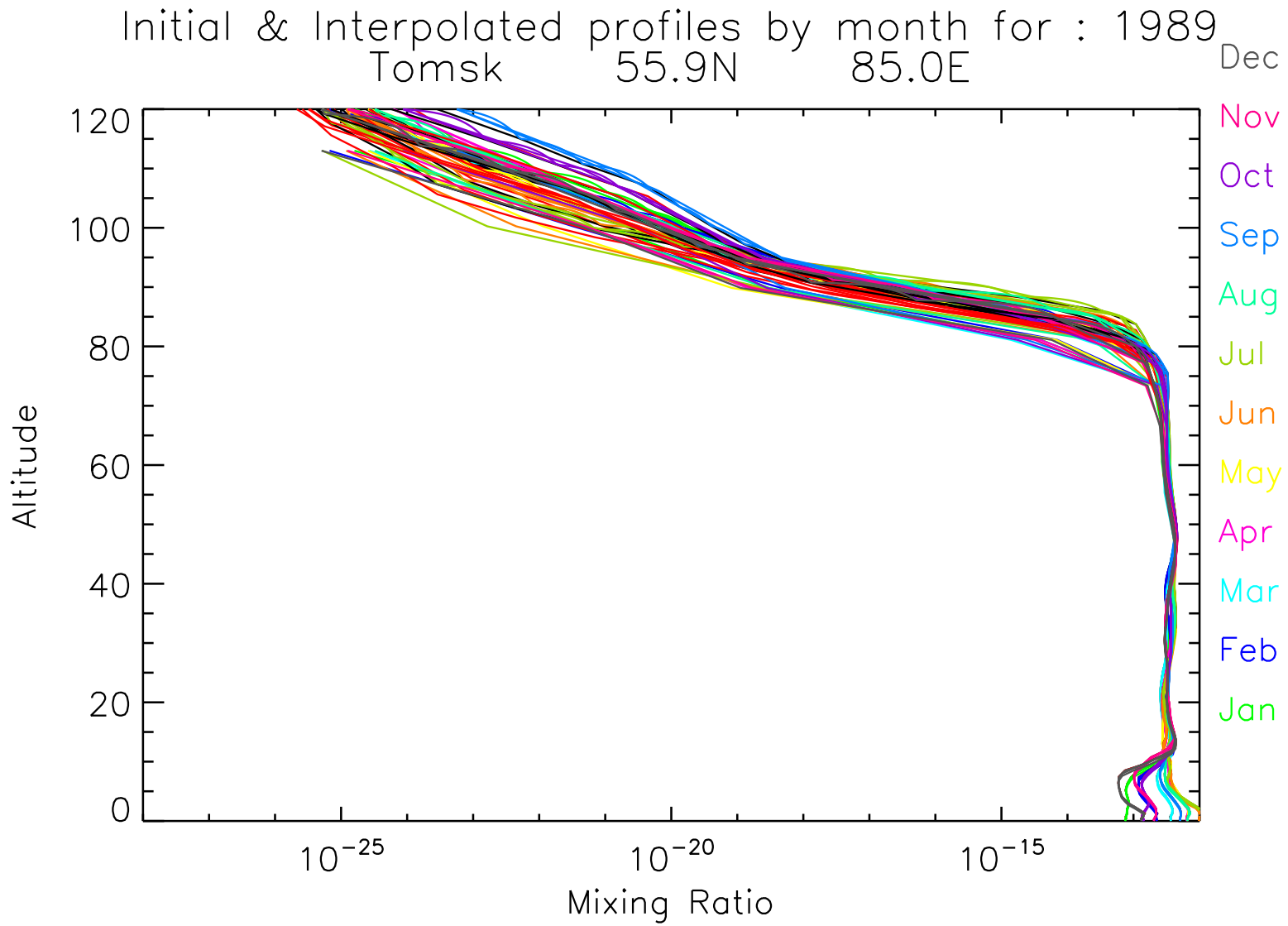
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Tomsk 55.9N 85.0E
Dec
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Altitude
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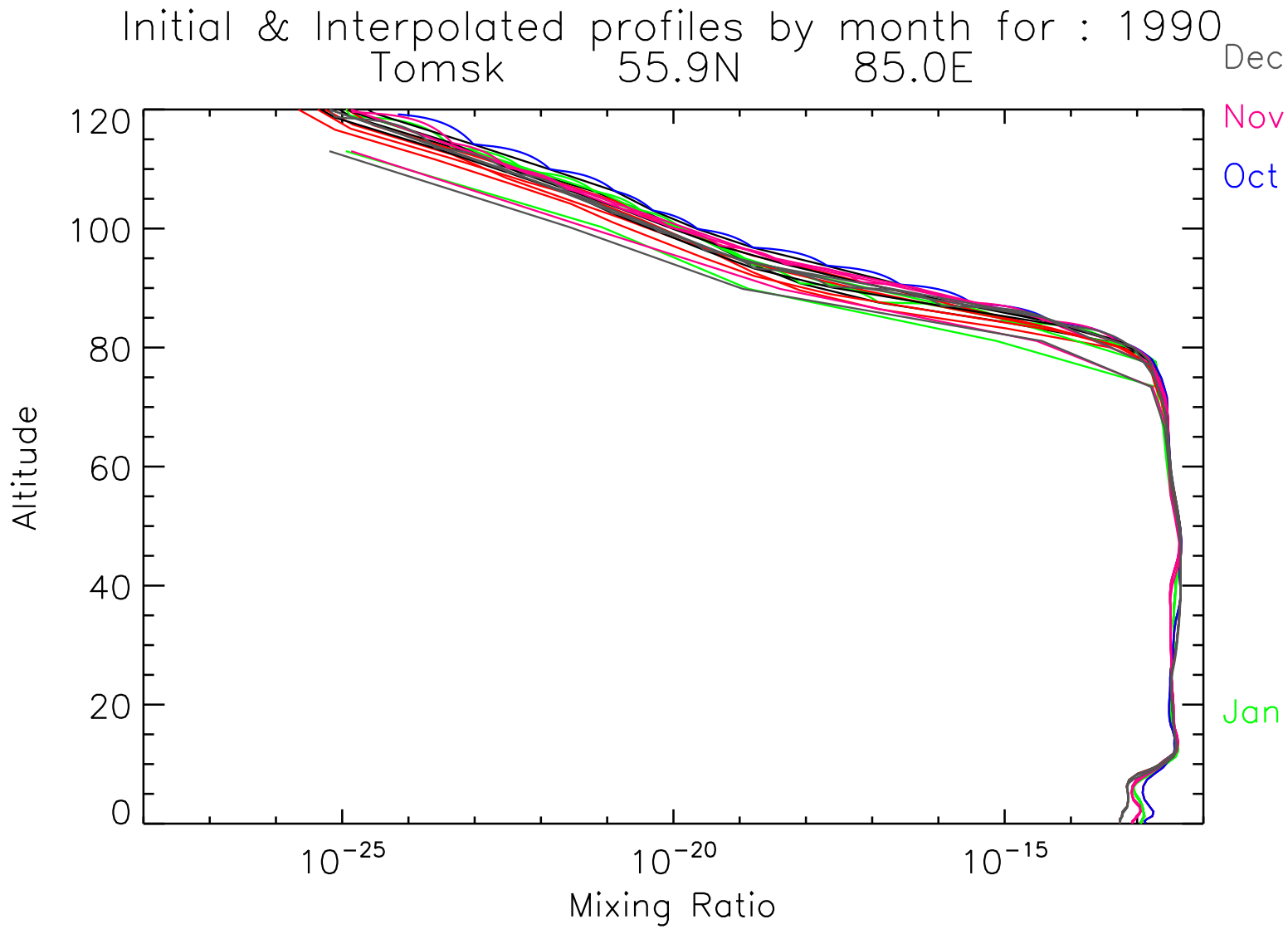
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Tomsk 55.9N 85.0E
Dec
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Altitude
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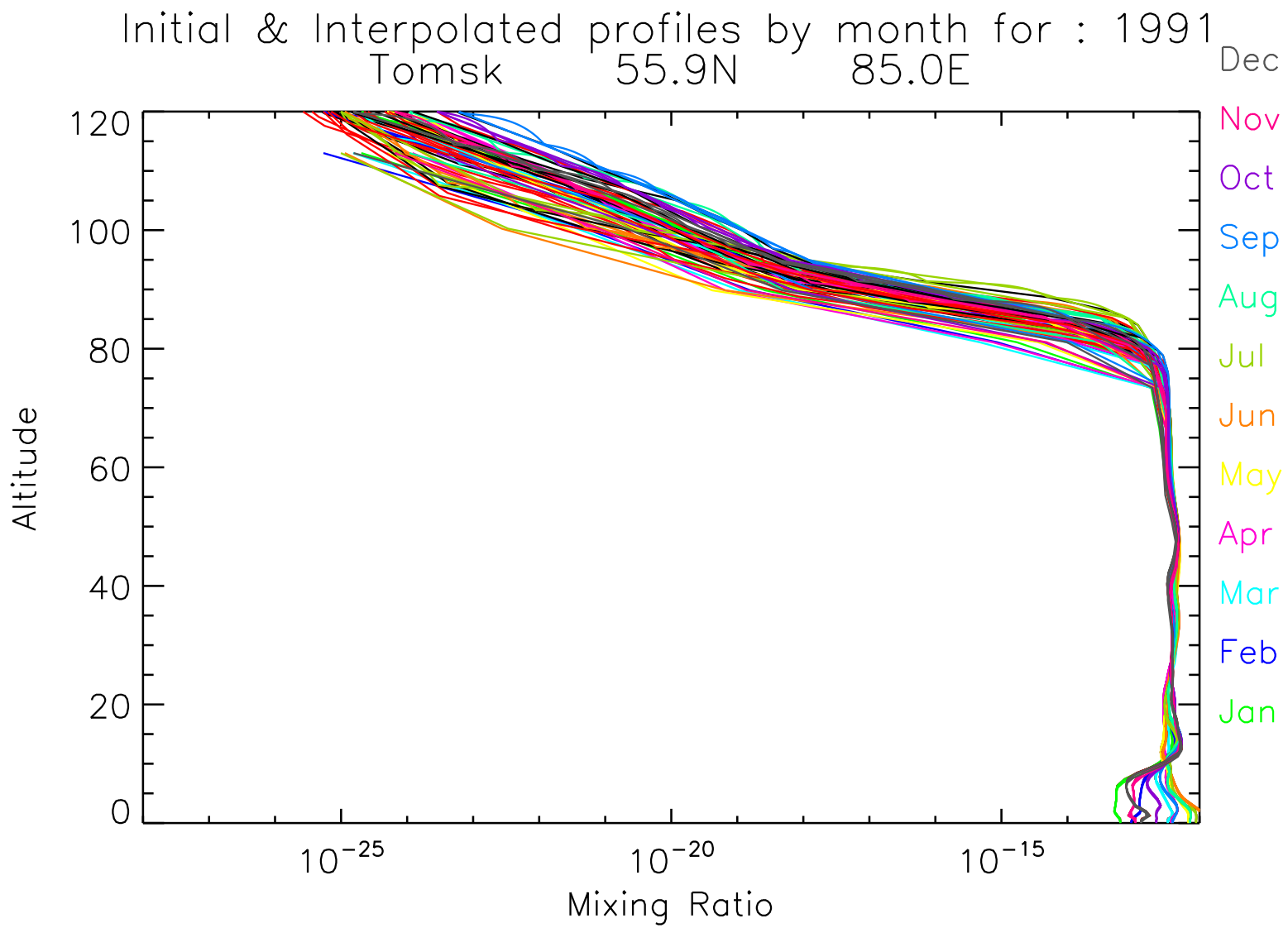
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Tomsk 55.9N 85.0E
Dec
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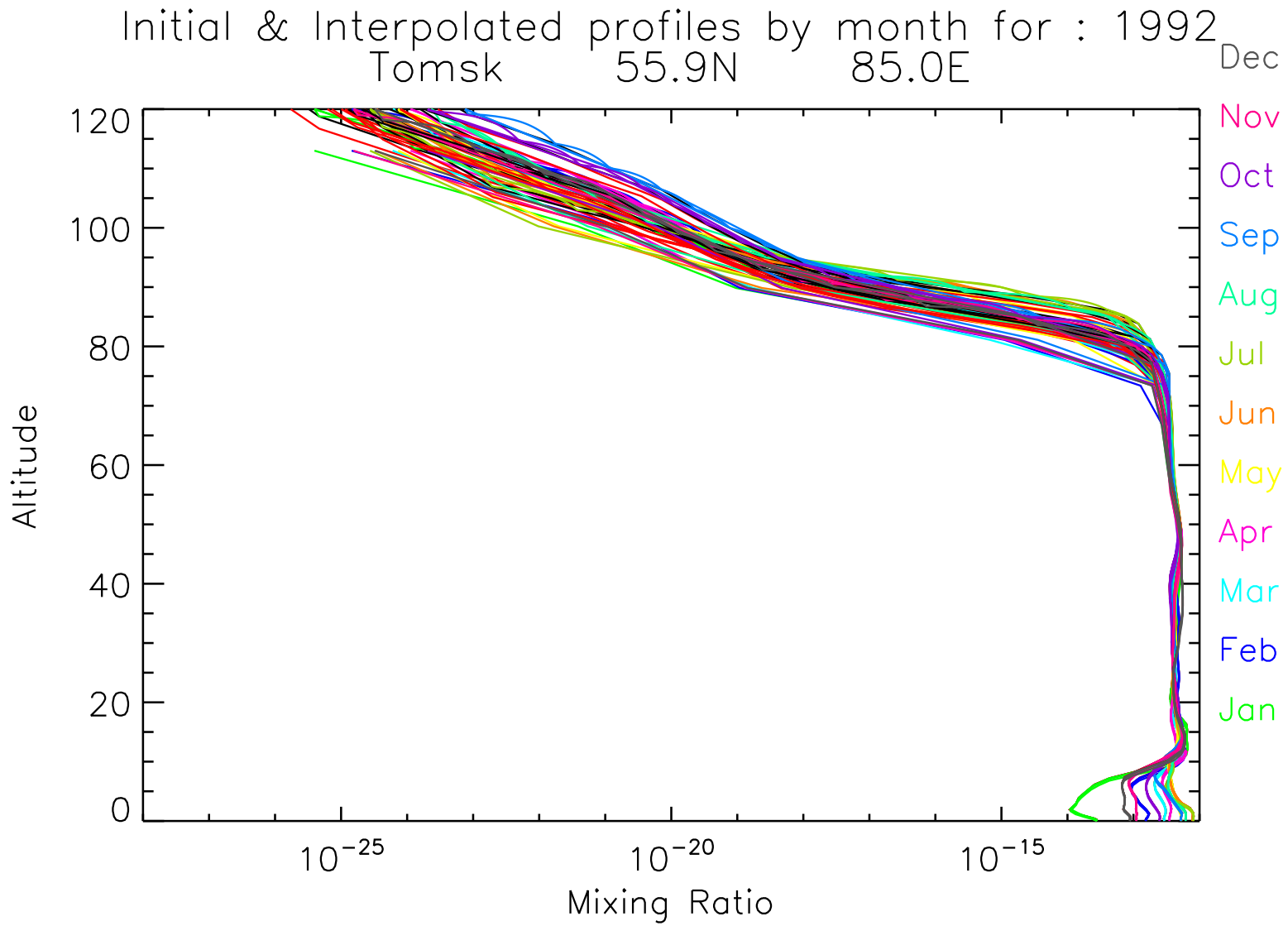
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Tomsk 55.9N 85.0E
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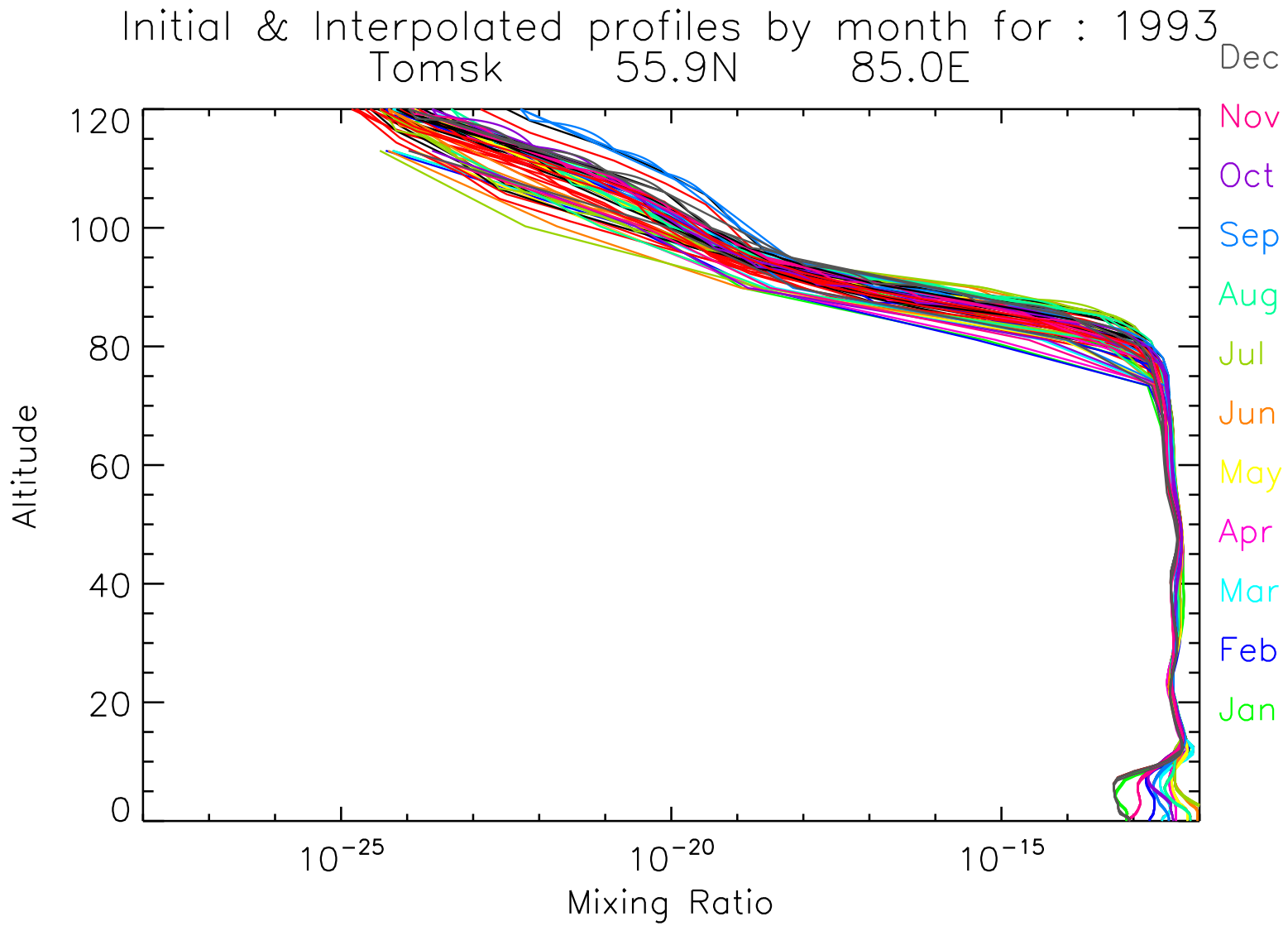
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Tomsk 55.9N 85.0E
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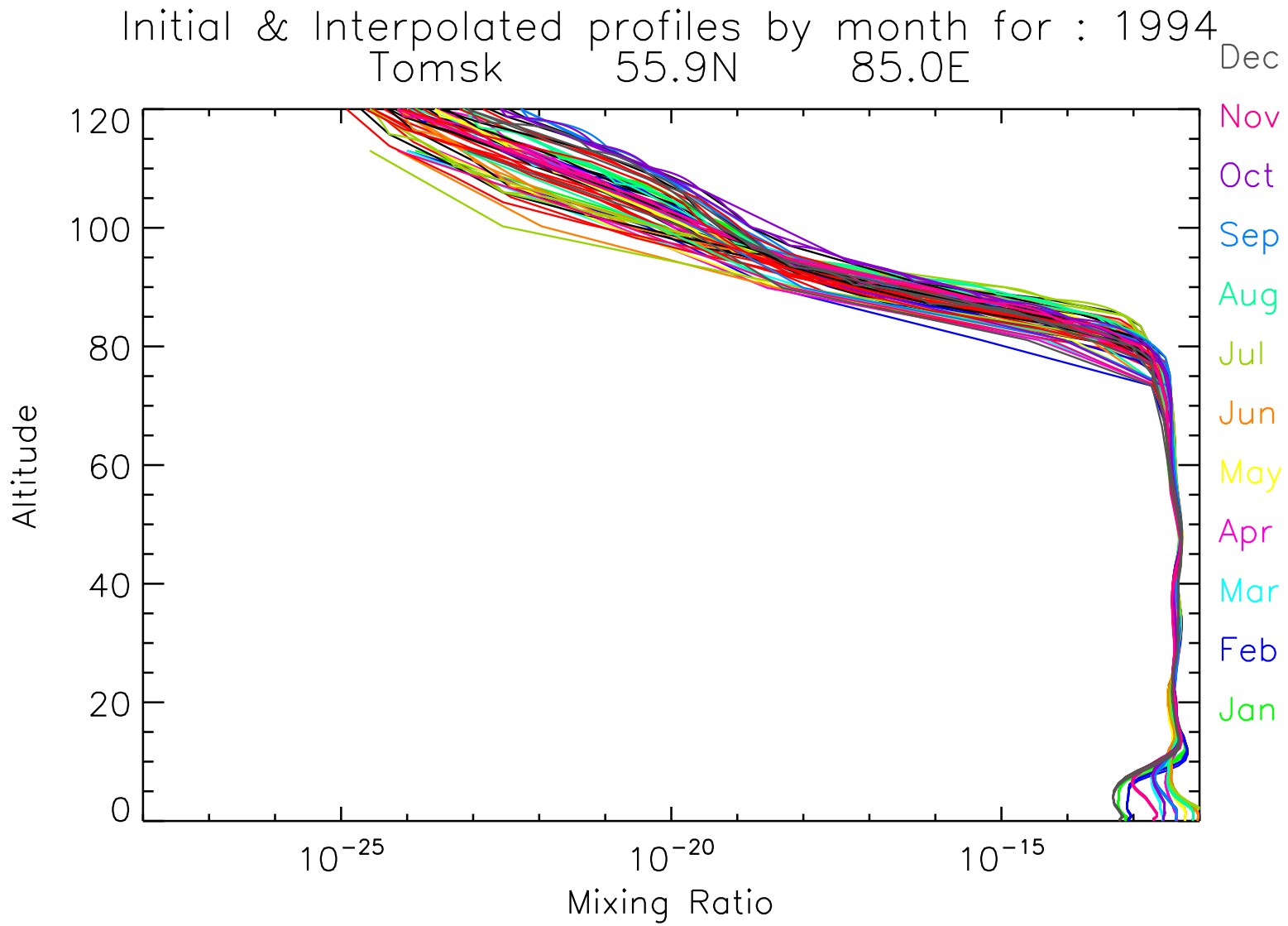
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Tomsk 55.9N 85.0E
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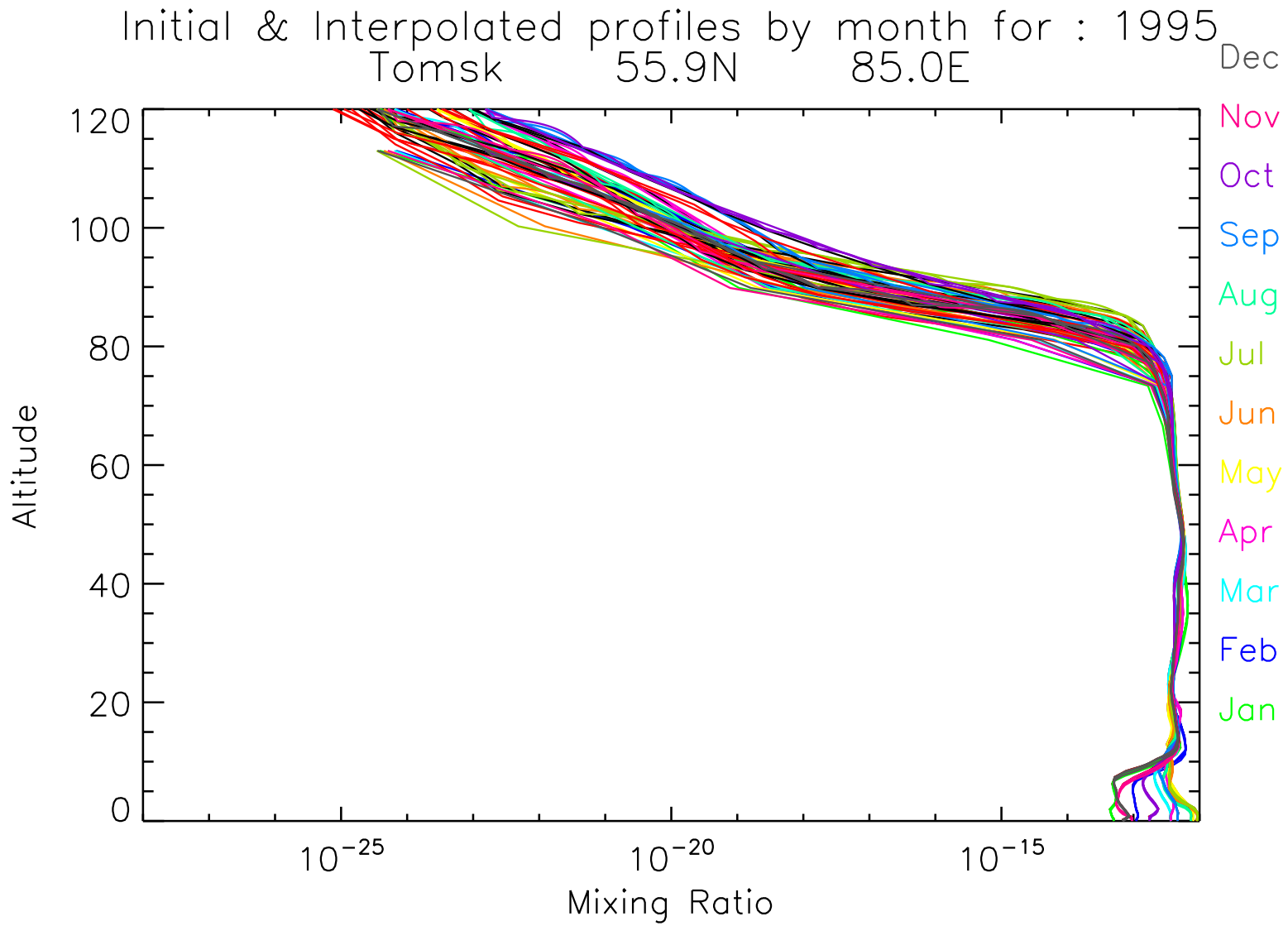
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Tomsk 55.9N 85.0E
Dec
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Altitude
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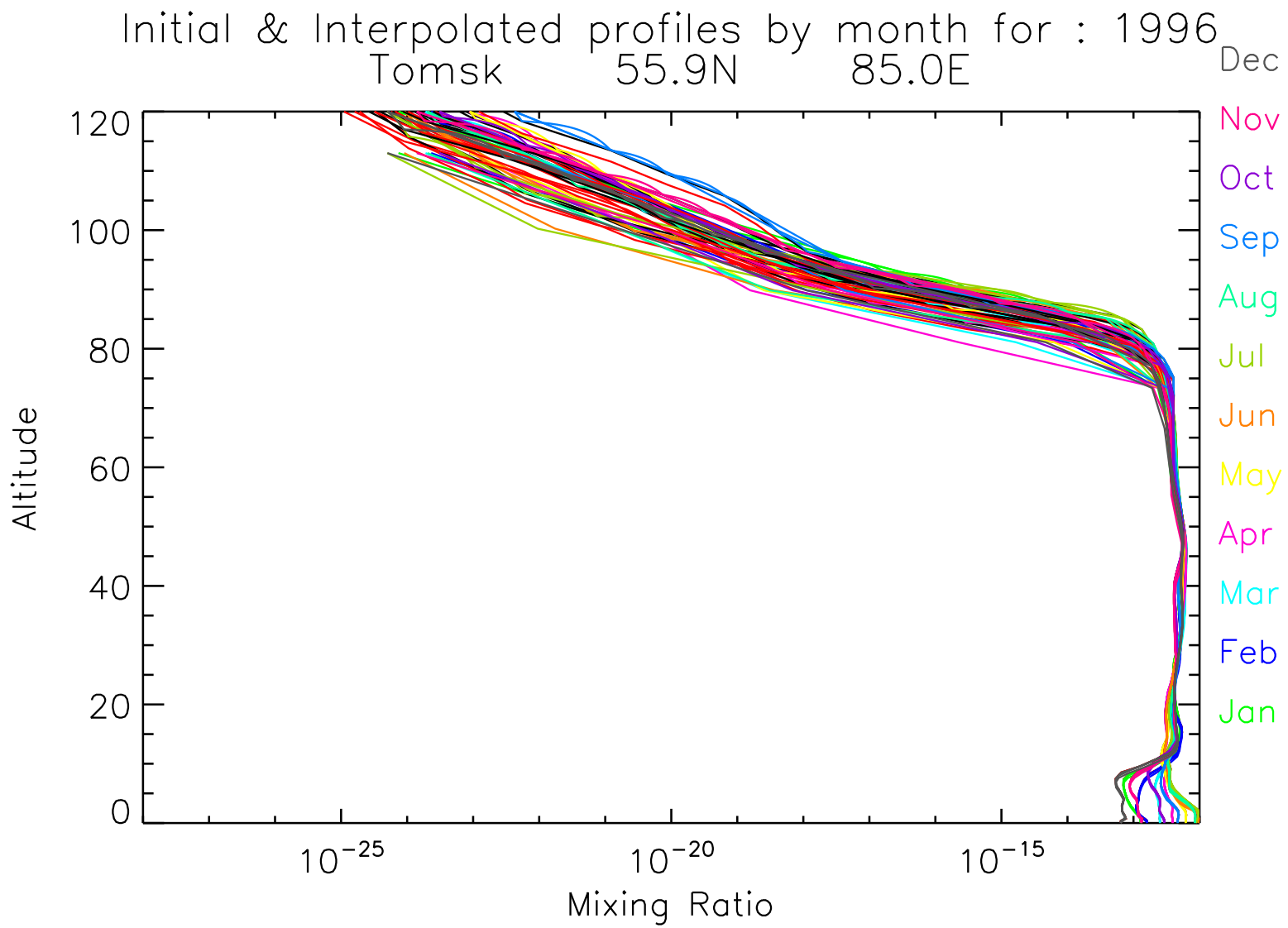
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Tomsk 55.9N 85.0E
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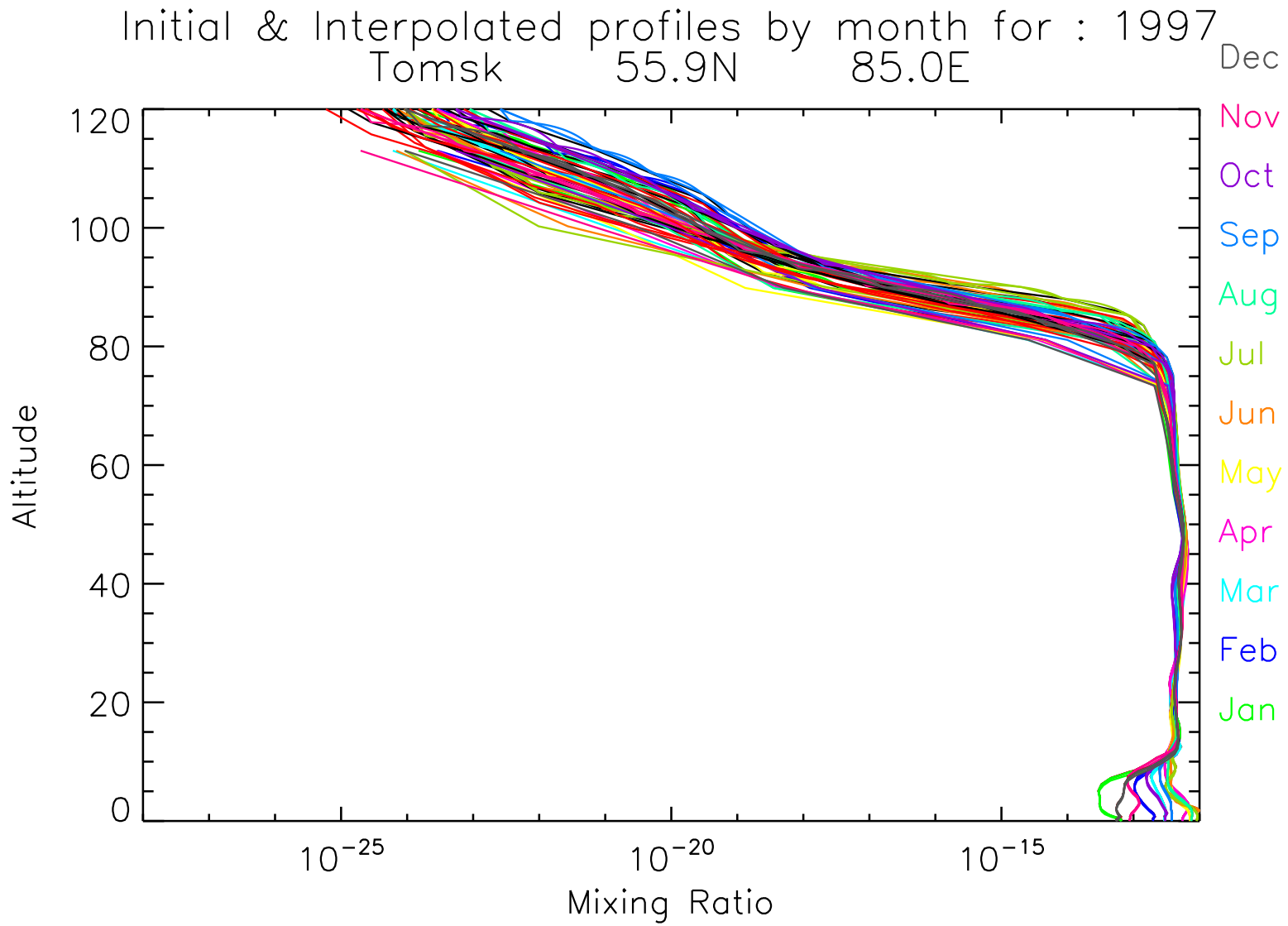
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Tomsk 55.9N 85.0E
Dec
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Altitude
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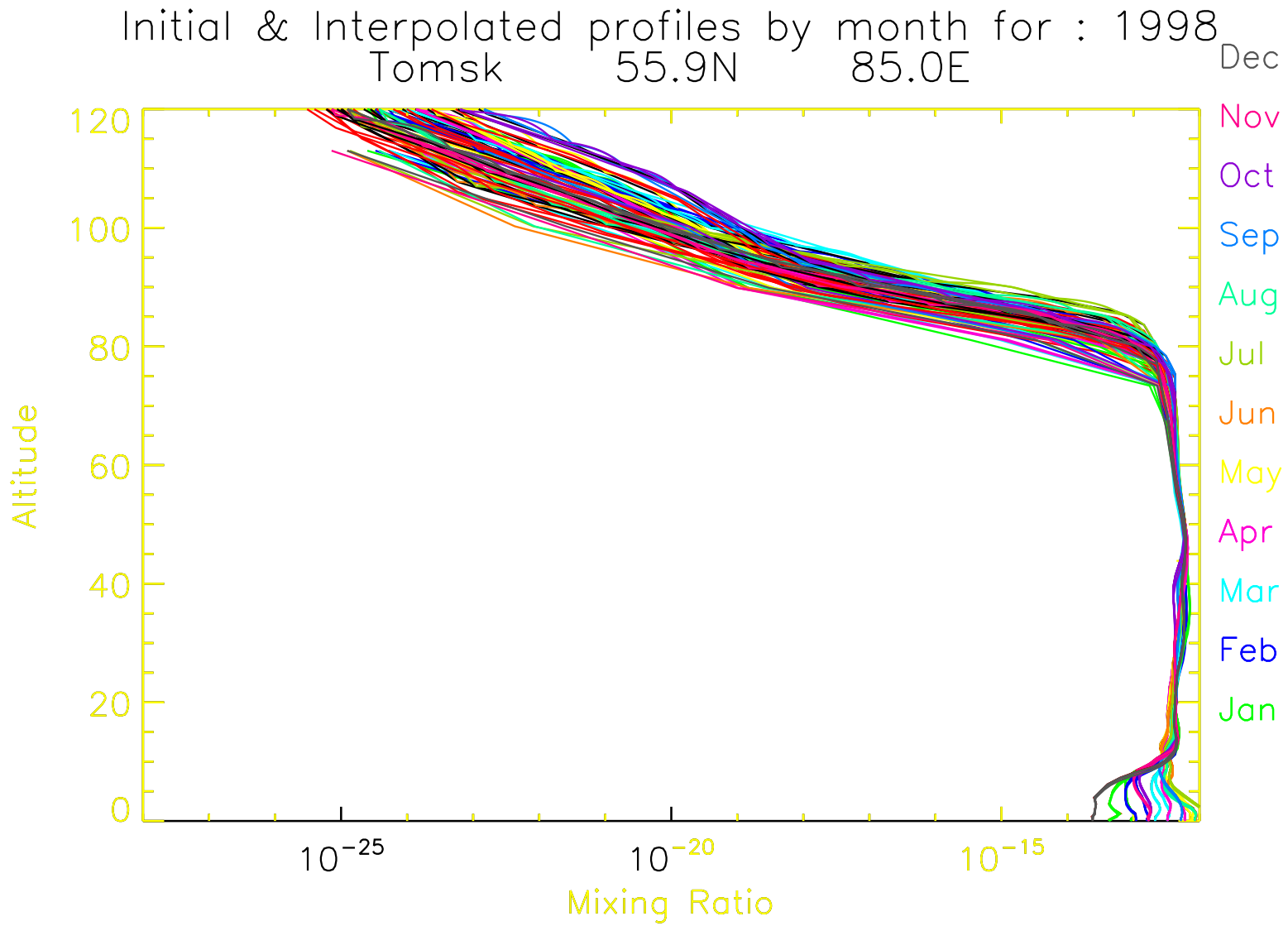
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Tomsk 55.9N 85.0E
Dec
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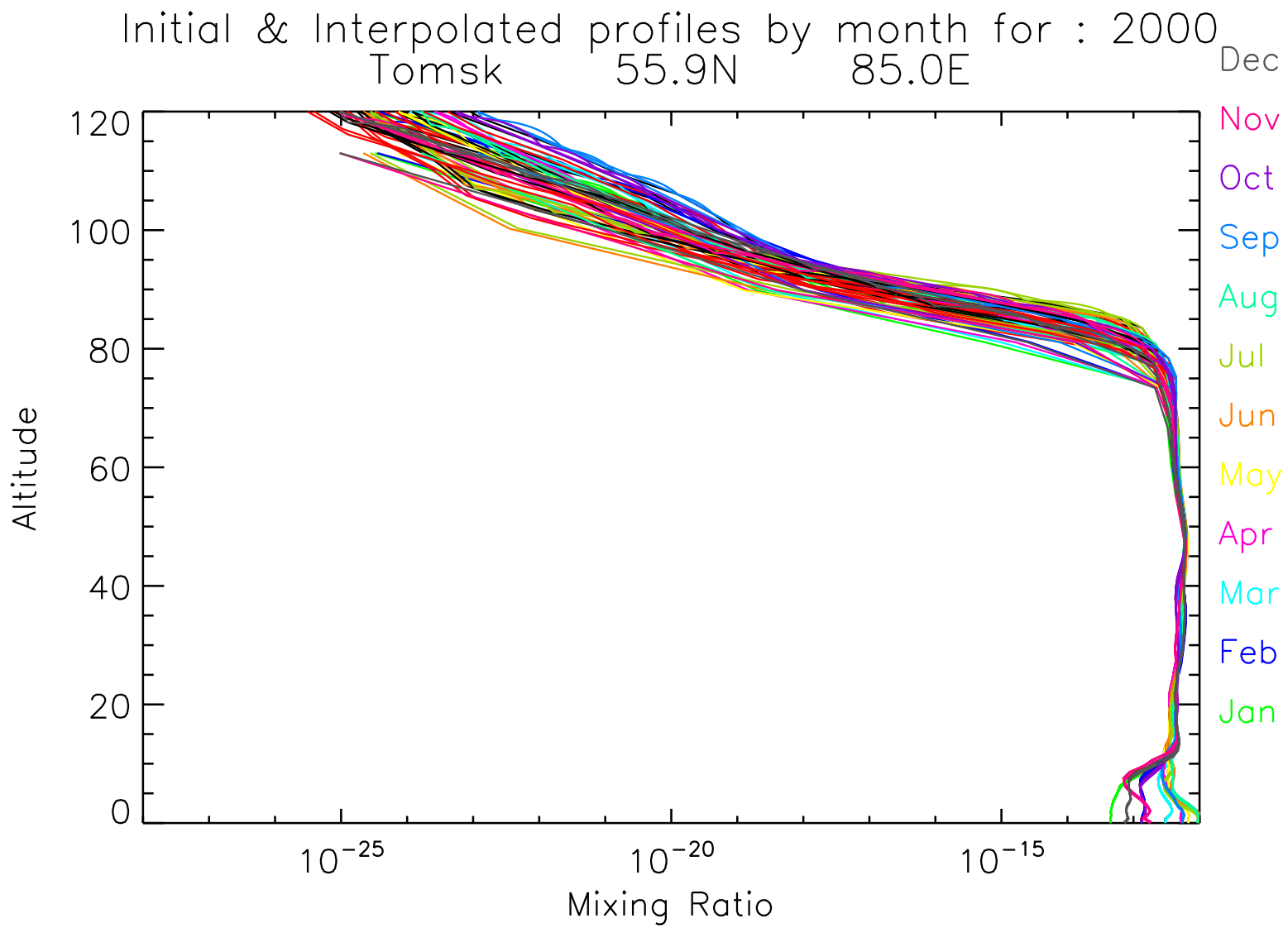
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Tomsk 55.9N 85.0E
Dec
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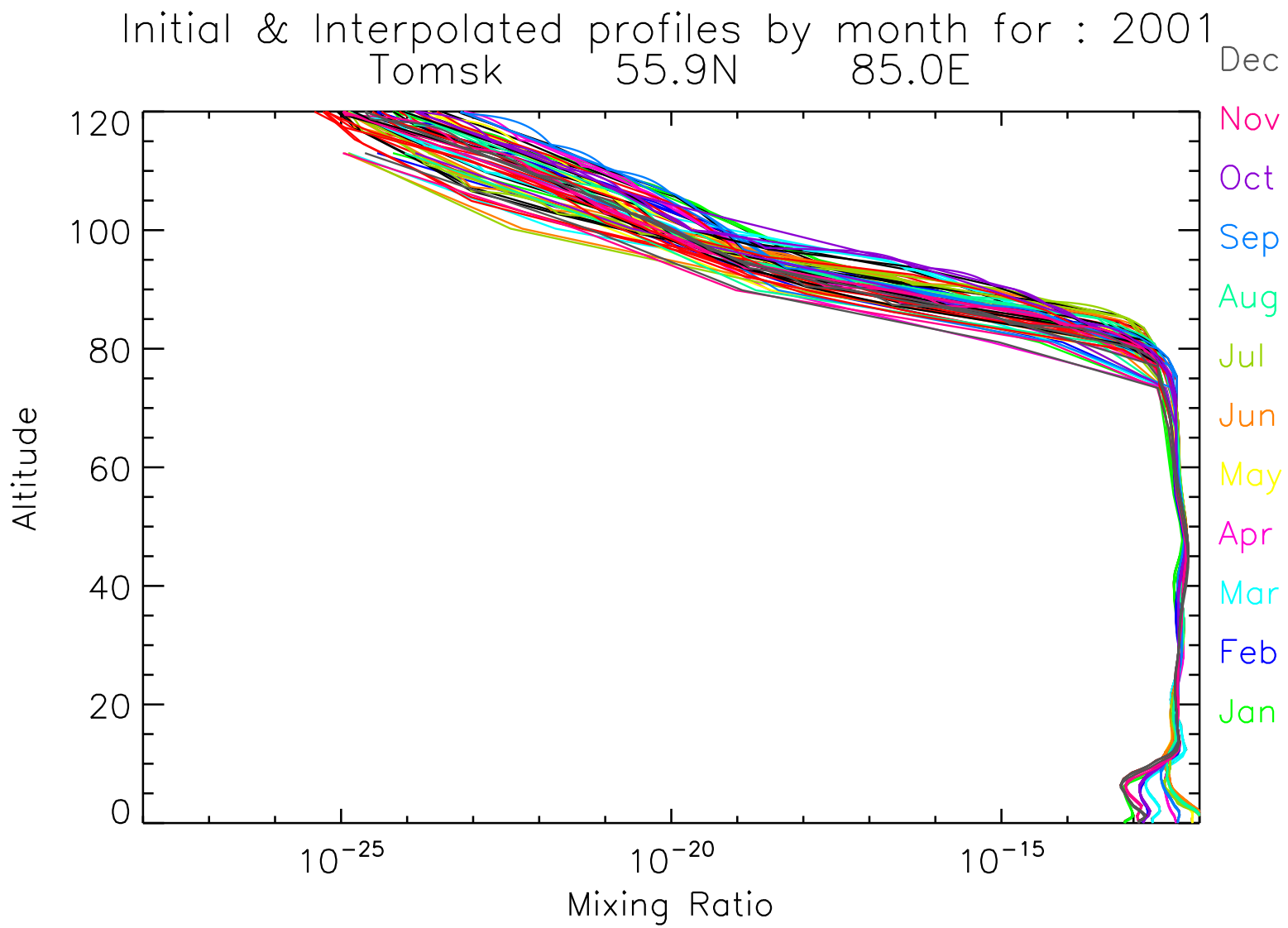
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Tomsk 55.9N 85.0E
Dec
Nov
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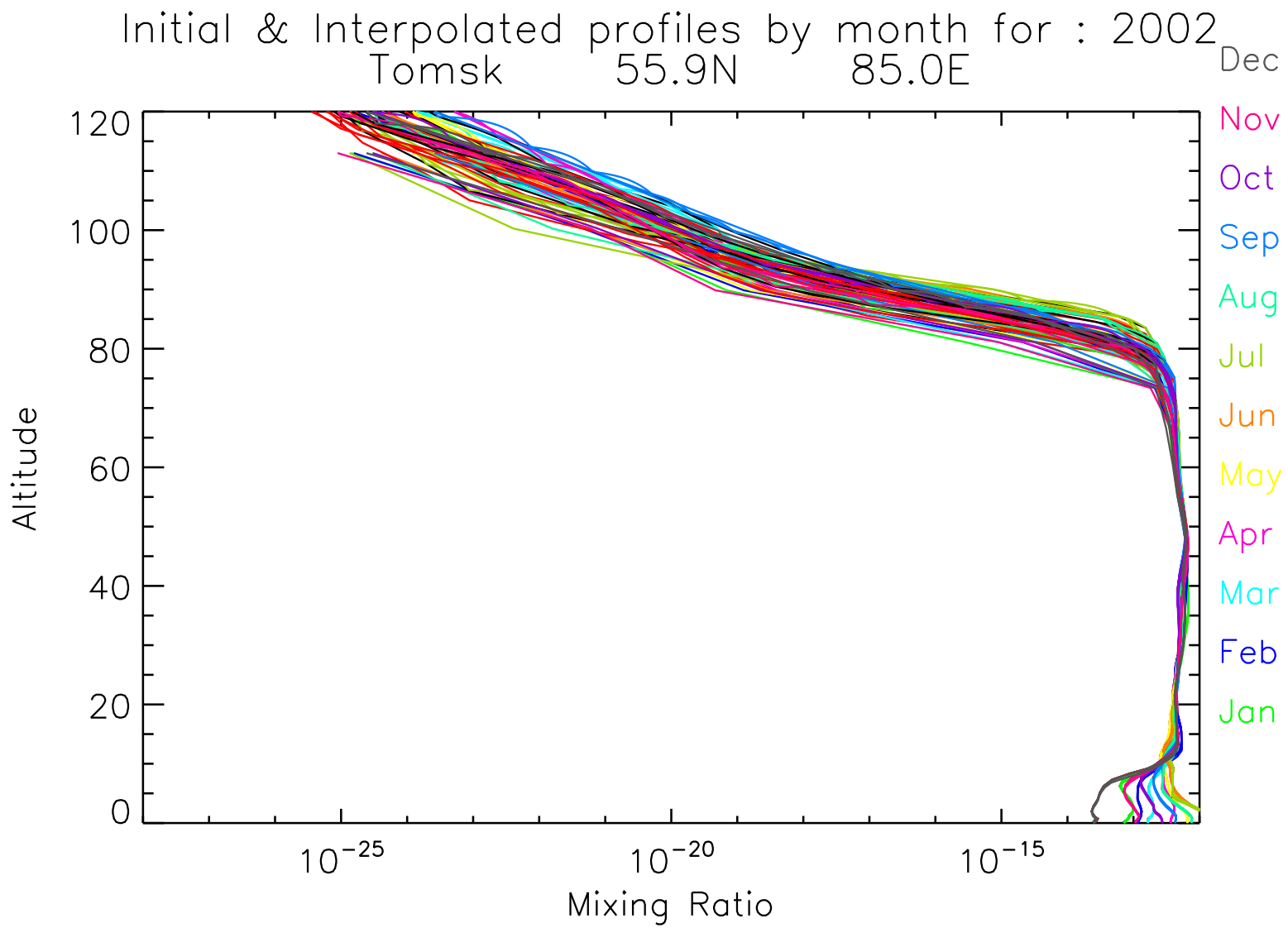
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Tomsk 55.9N 85.0E
Dec
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120
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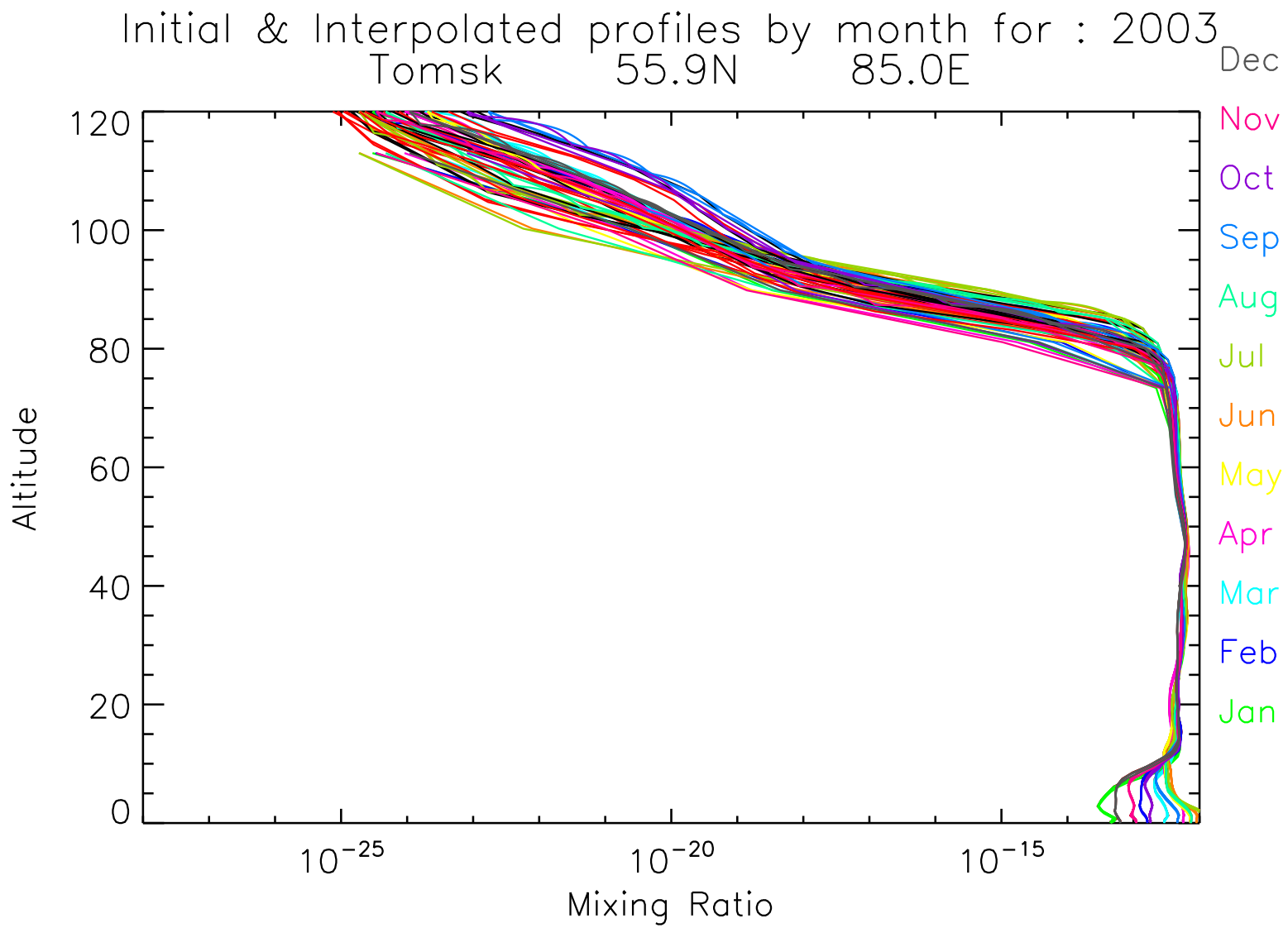
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Tomsk 55.9N 85.0E
Dec
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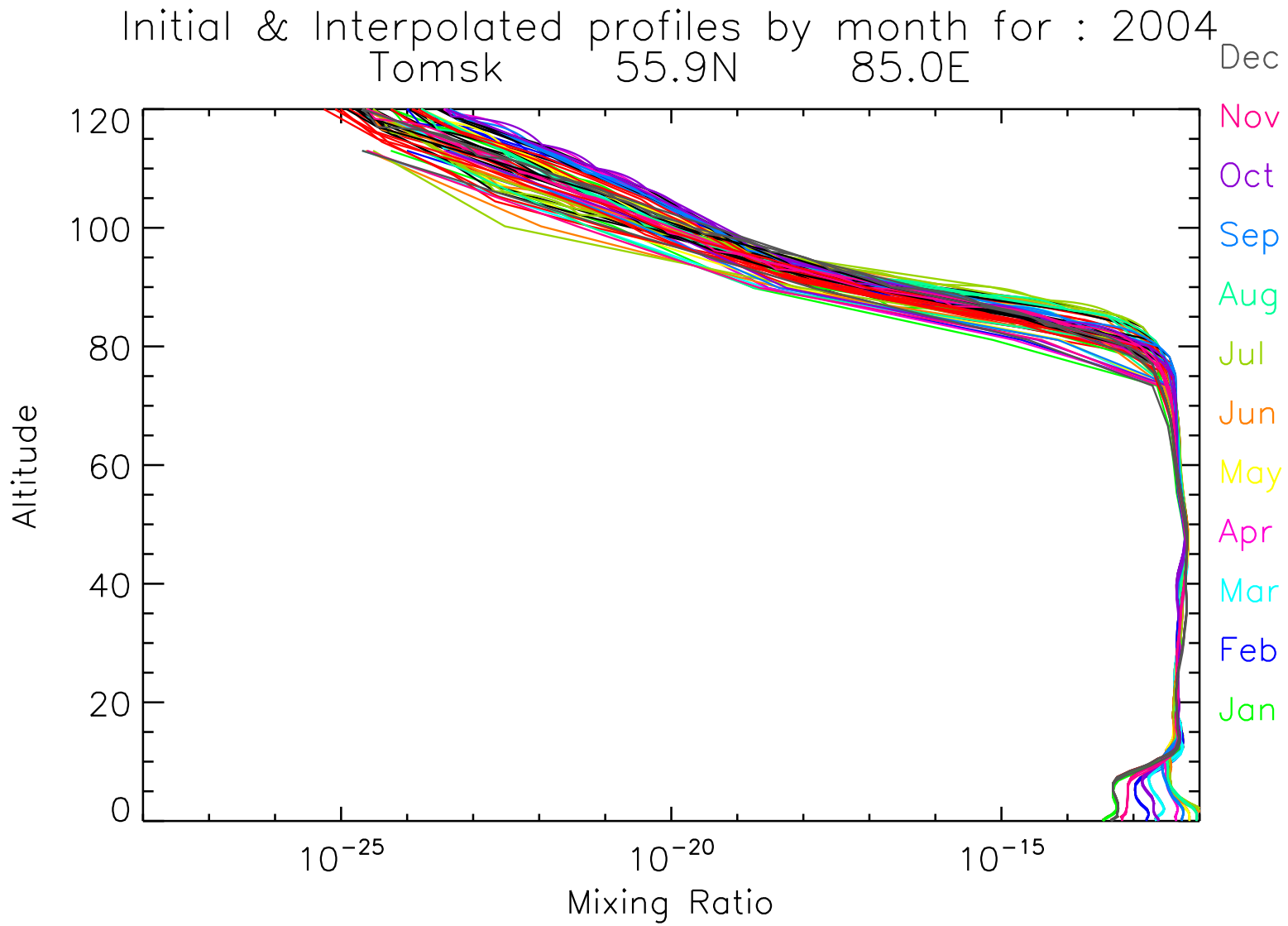
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Tomsk 55.9N 85.0E
Dec
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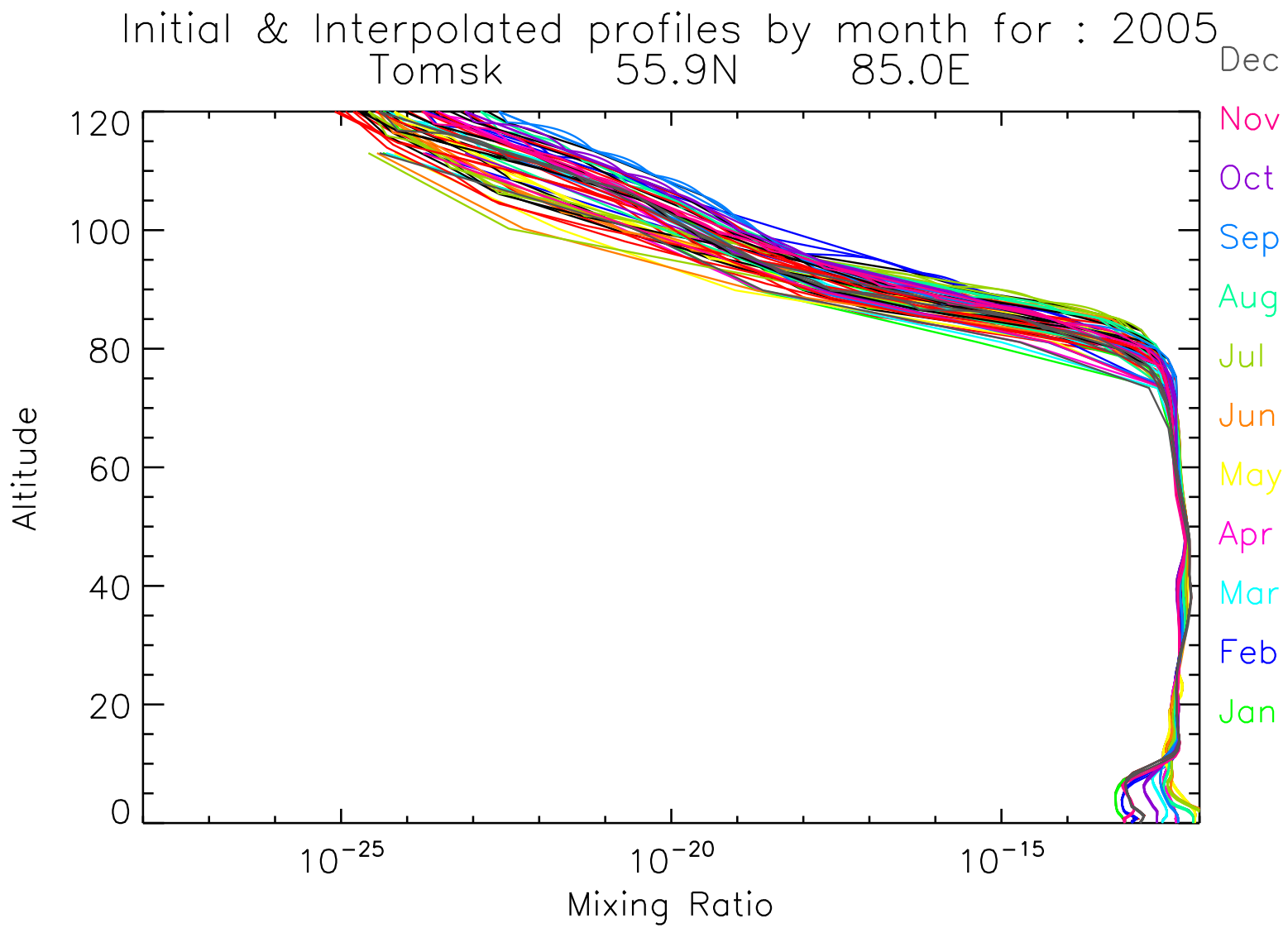
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Tomsk 55.9N 85.0E
Dec
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120
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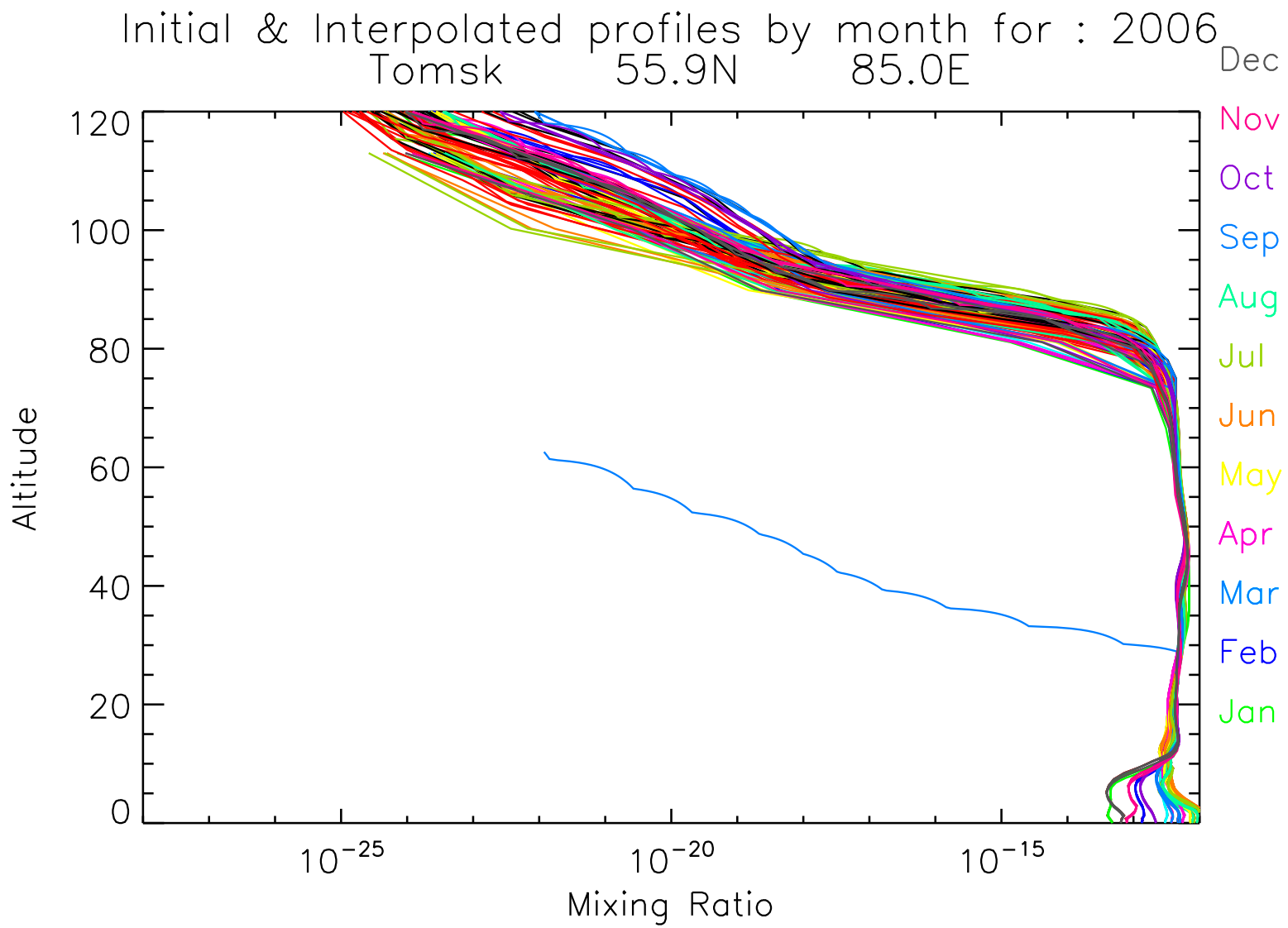
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Tomsk 55.9N 85.0E
Dec
Nov
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Altitude
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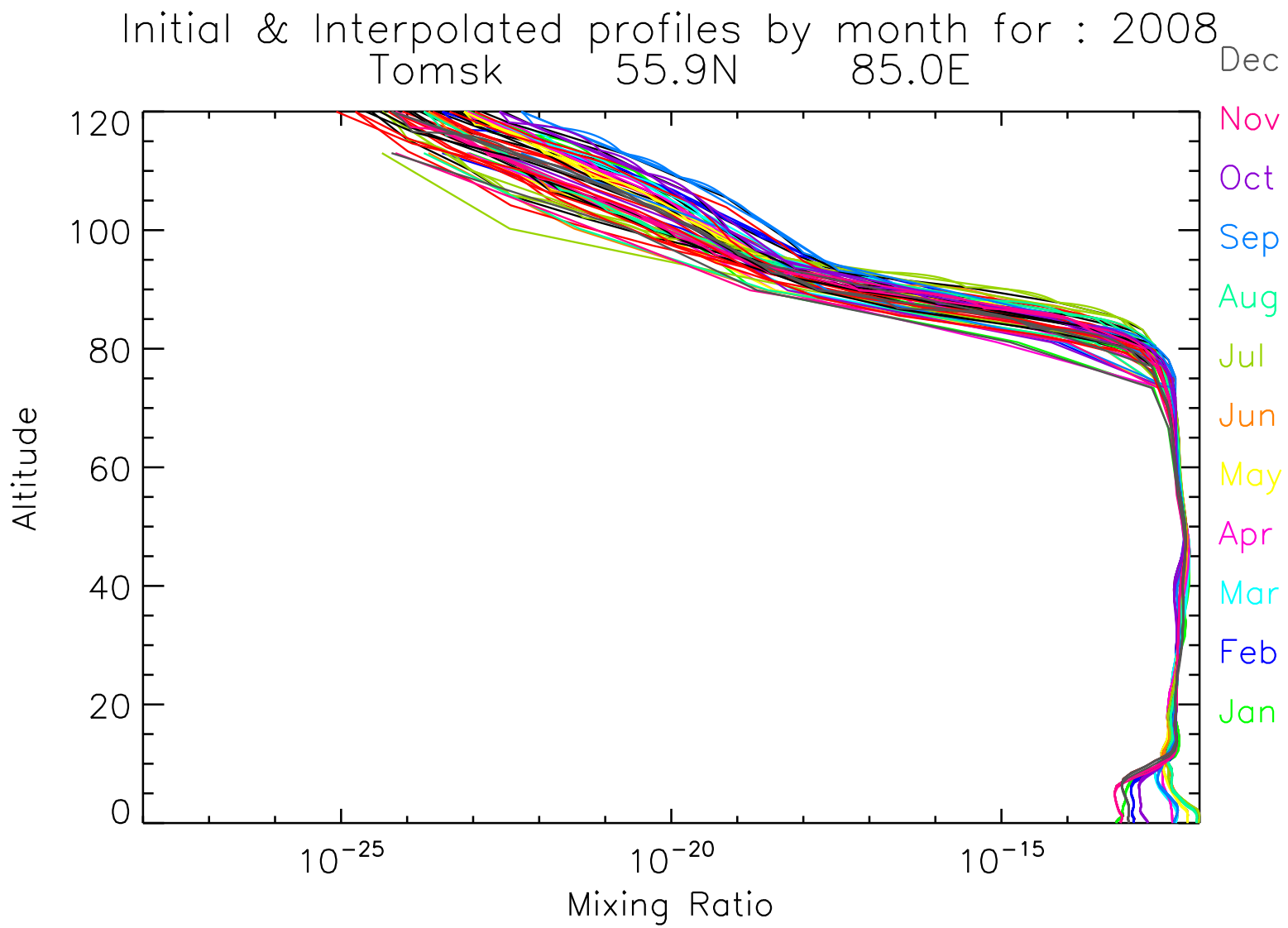
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Tomsk 55.9N 85.0E
Dec
Nov
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Altitude
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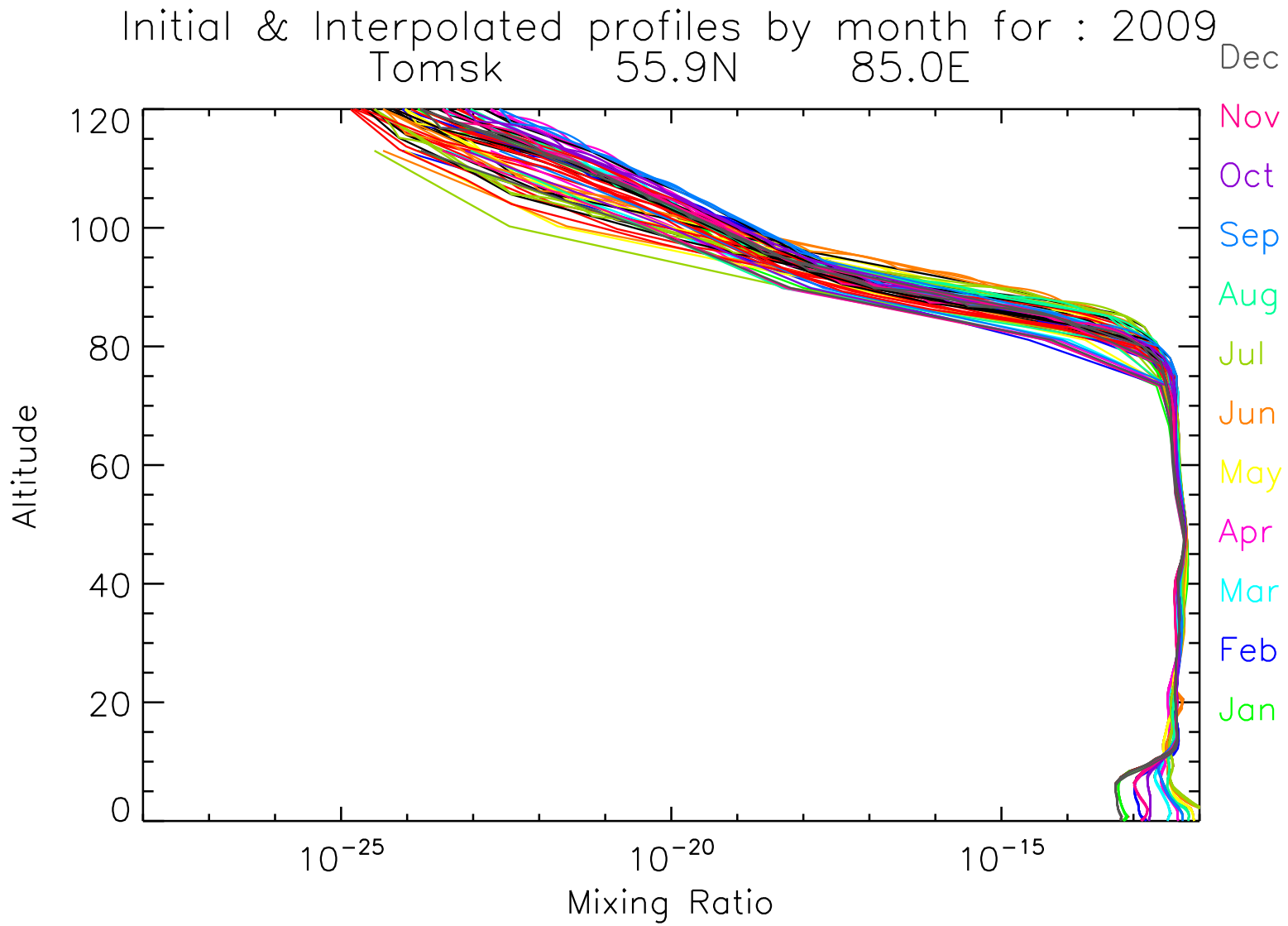
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Tomsk 55.9N 85.0E
Dec
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Altitude
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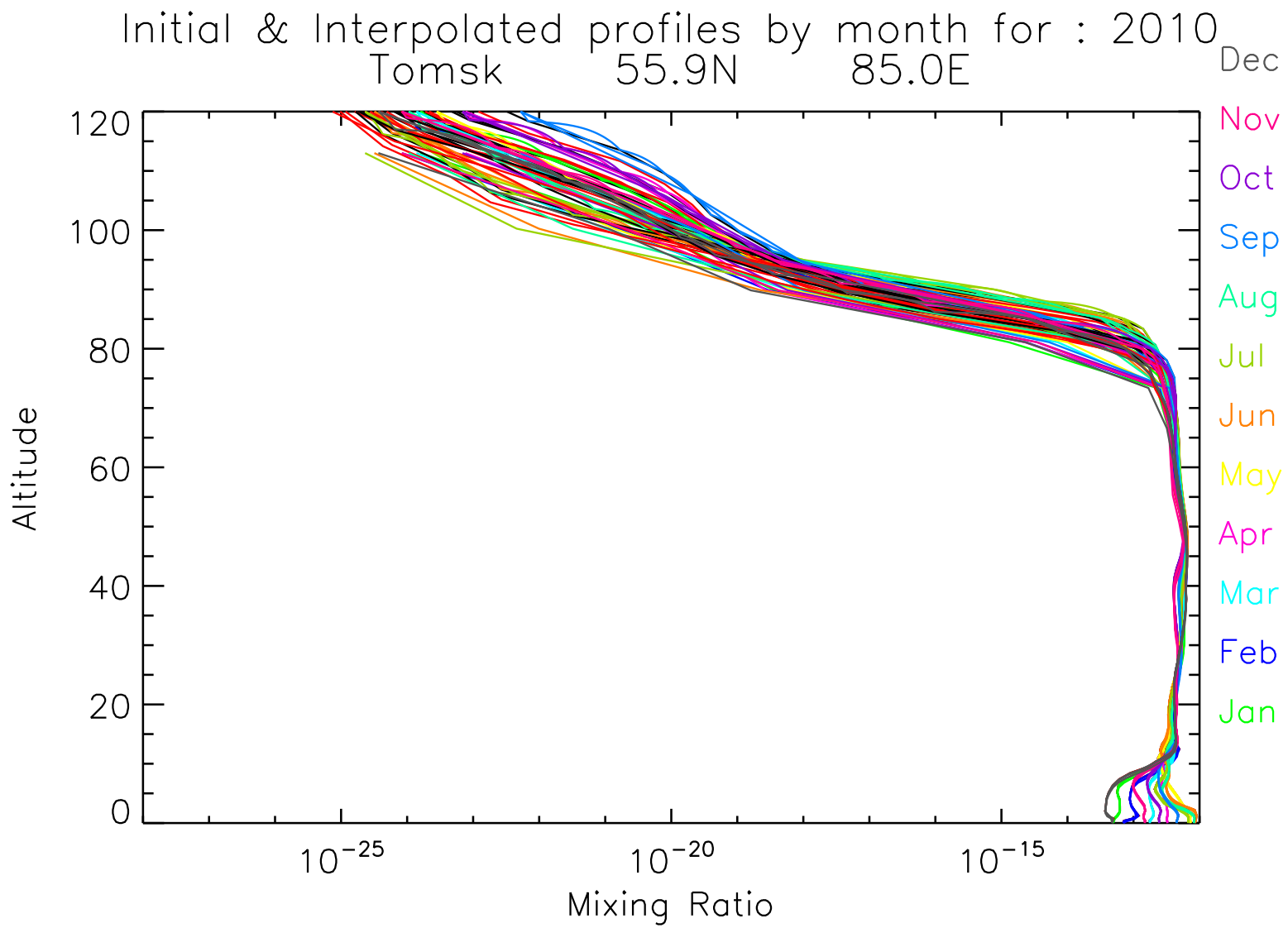
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Tomsk 55.9N 85.0E
Dec
Nov
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Altitude
10^{-25}
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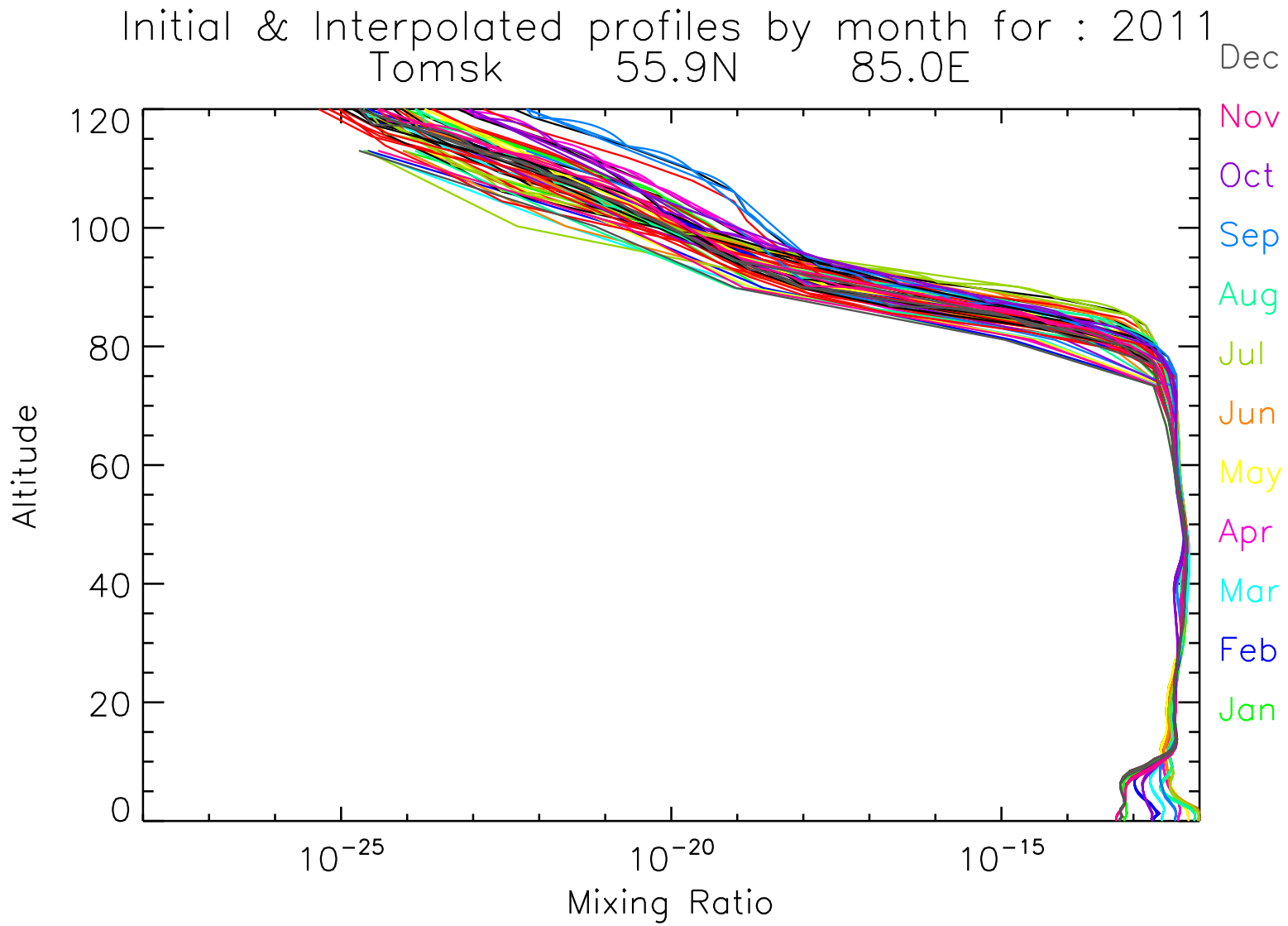
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Tomsk 55.9N 85.0E
Dec
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Altitude
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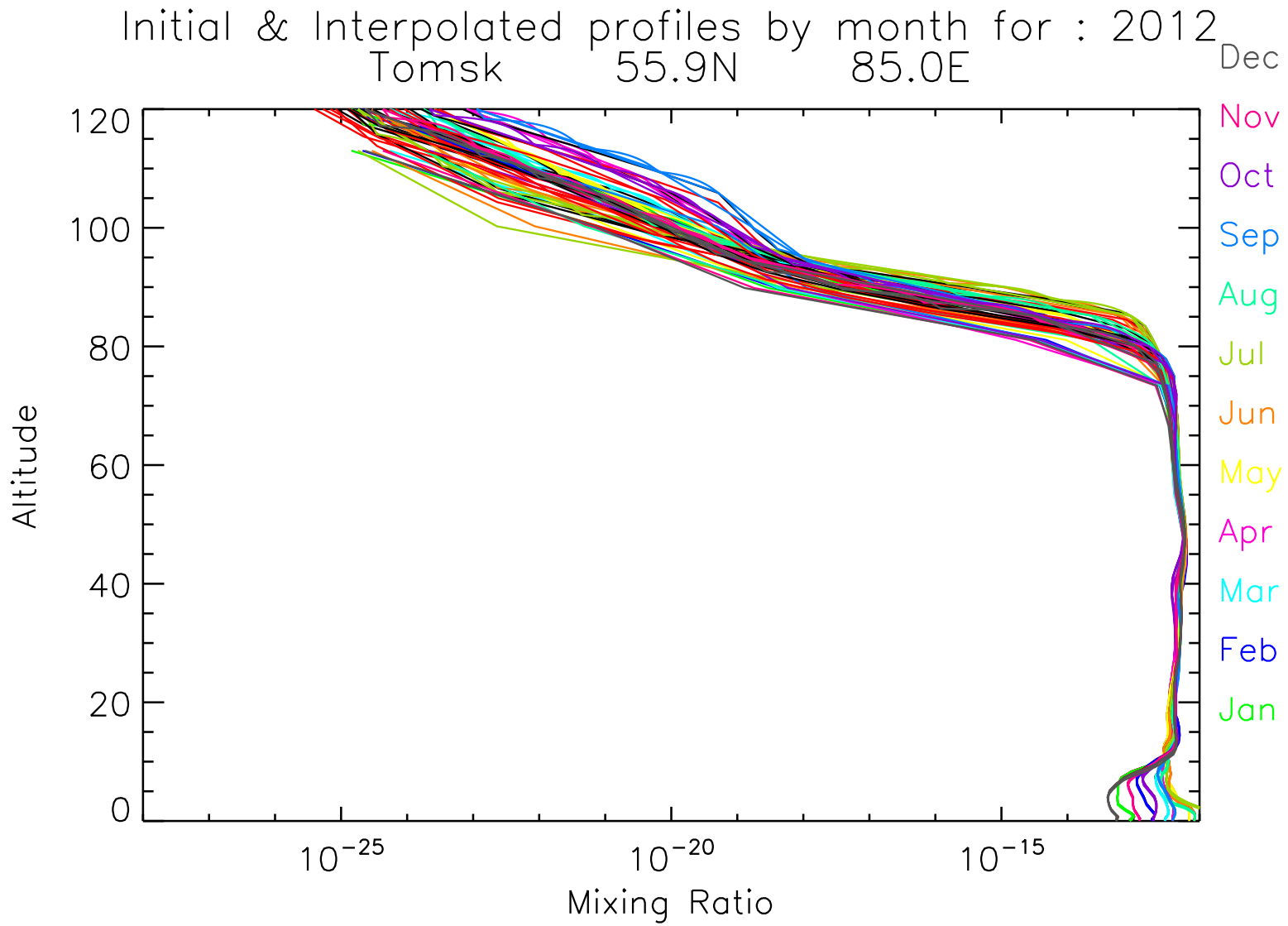
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2012
Tomsk 55.9N 85.0E
Dec
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Altitude
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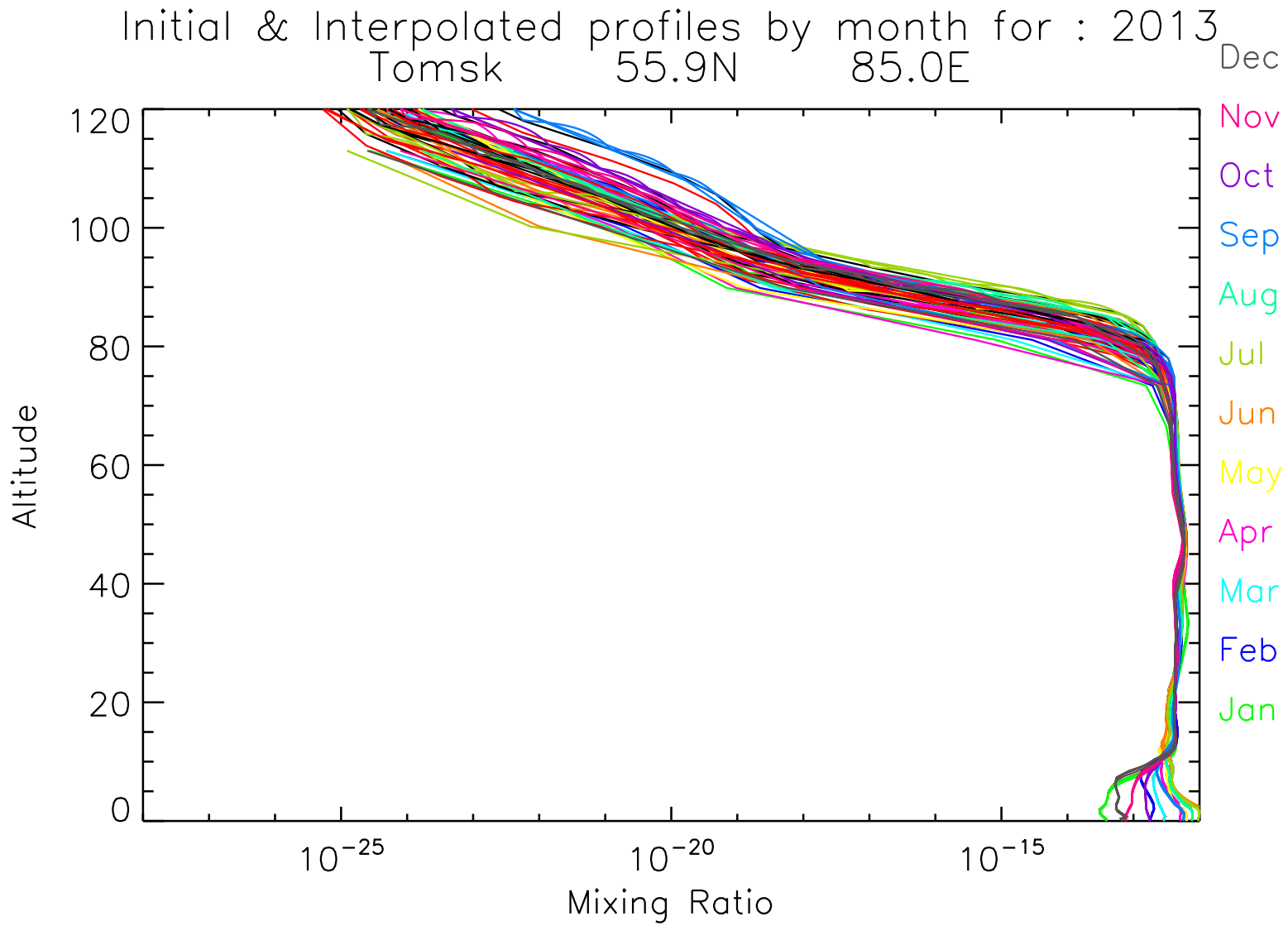
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2013
Tomsk 55.9N 85.0E
Dec
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Altitude
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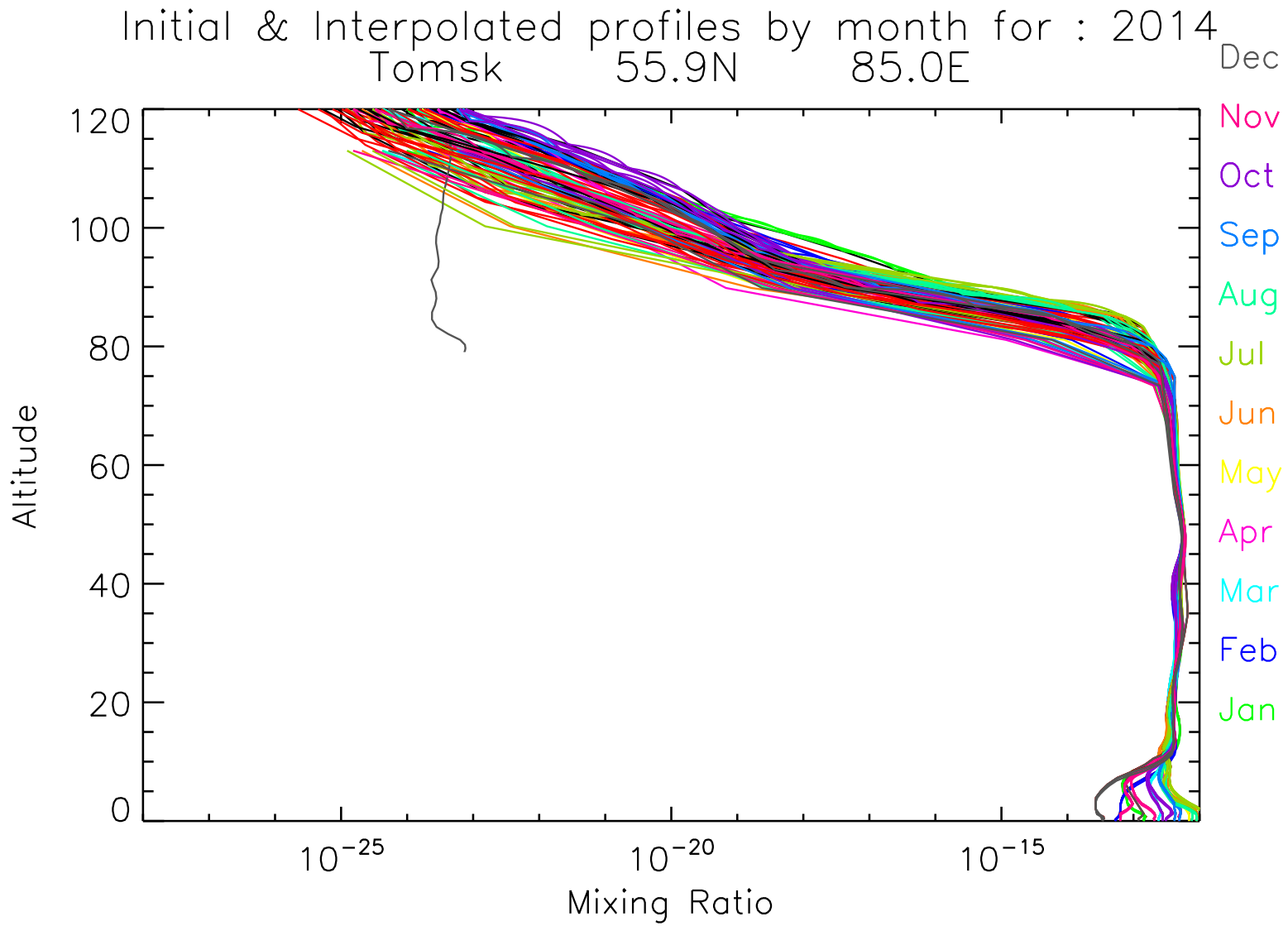
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2014
Tomsk 55.9N 85.0E
Dec
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Altitude
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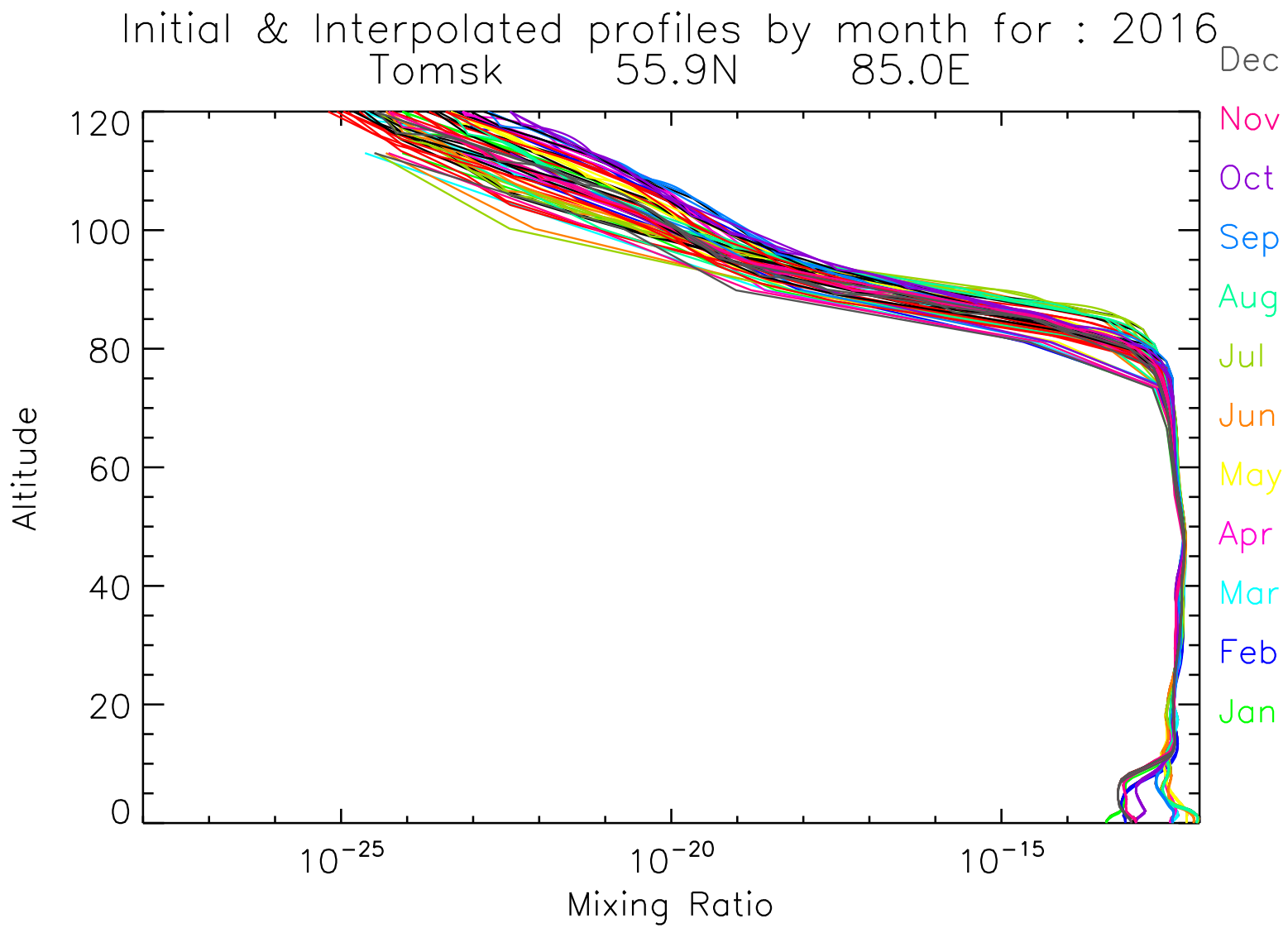
10^{-15}
Mixing Ratio


Initial & Interpolated profiles by month for : 2016
Tomsk 55.9N 85.0E
Dec
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Altitude
10^{-25}
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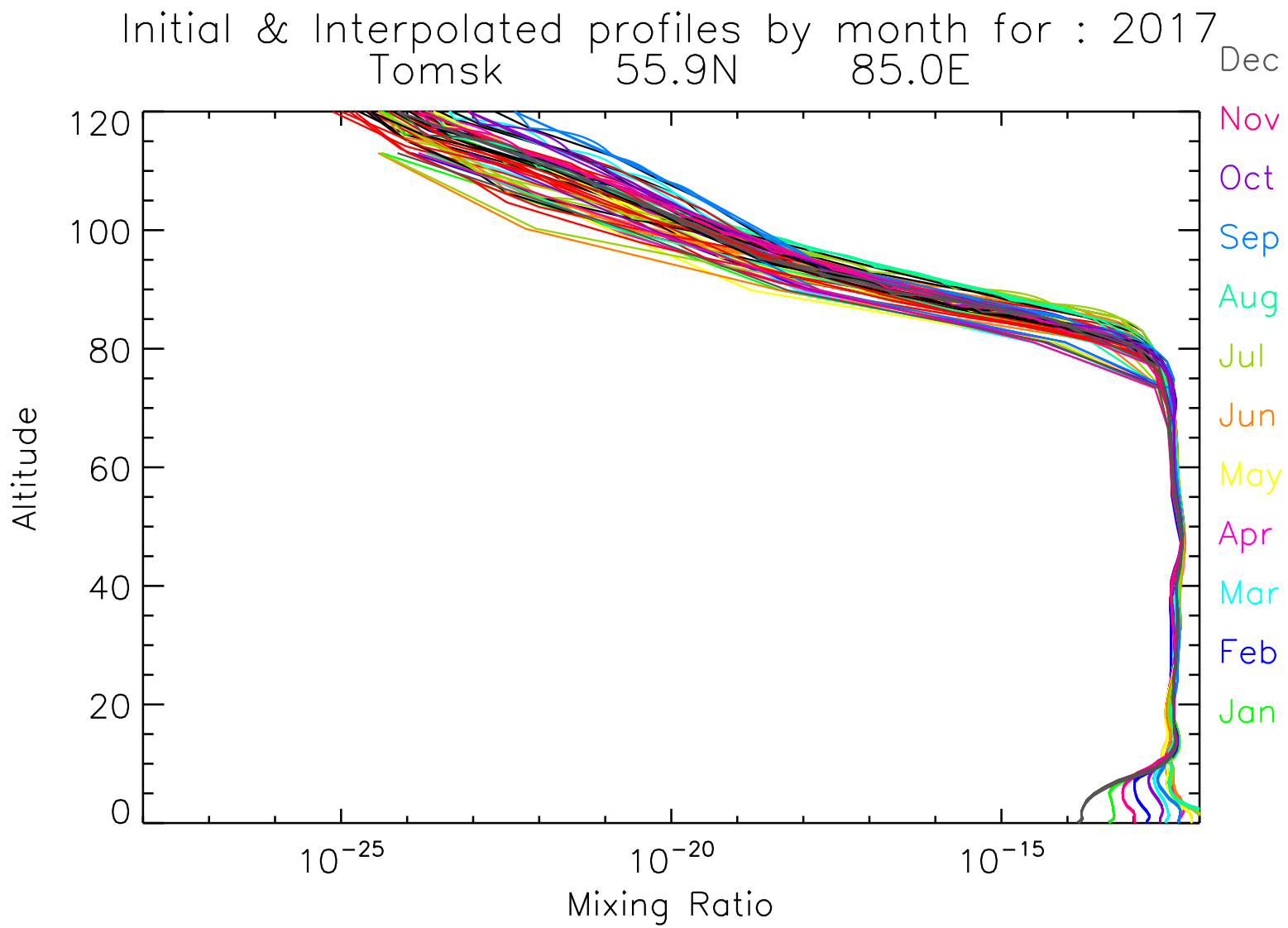
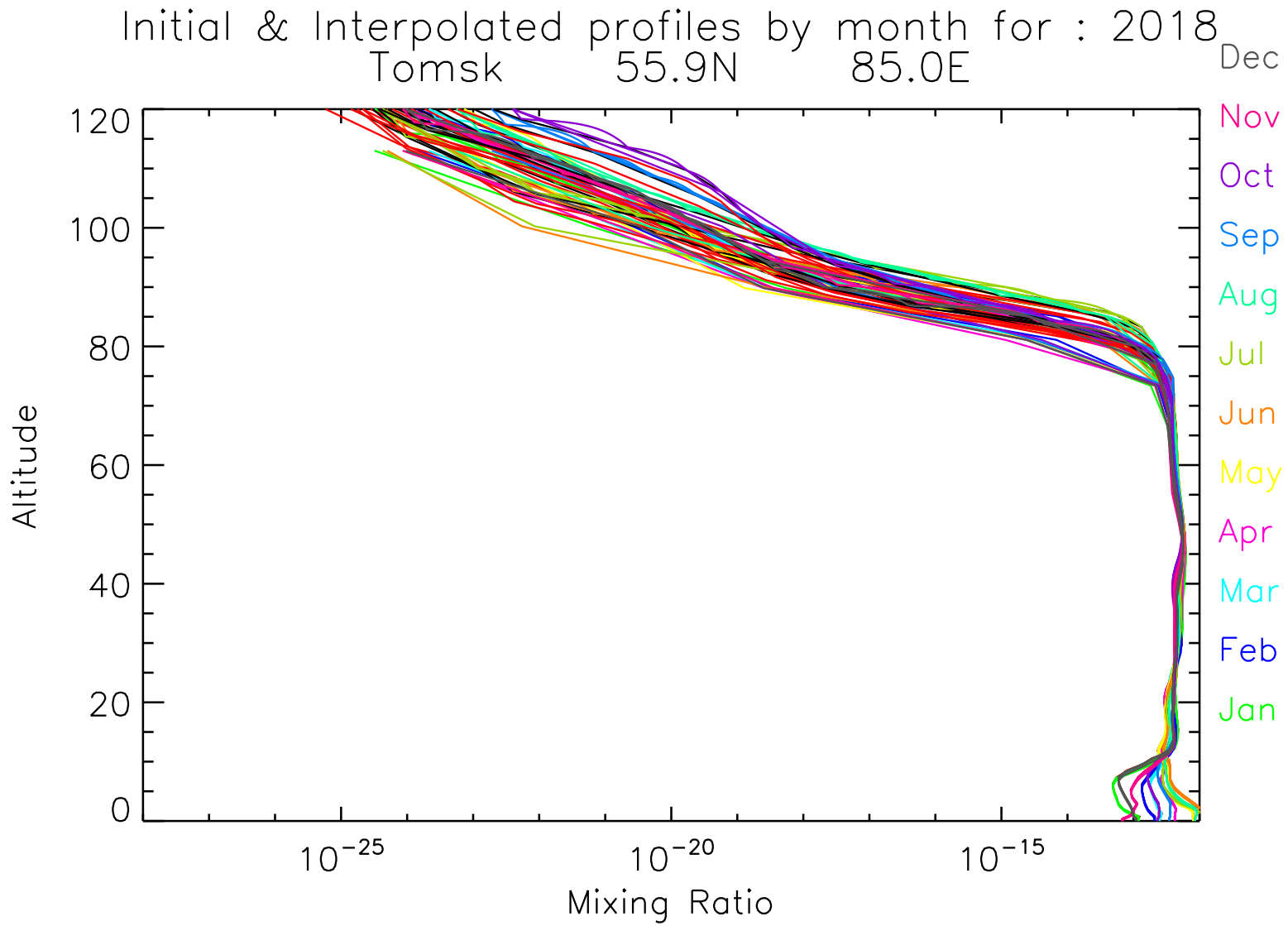
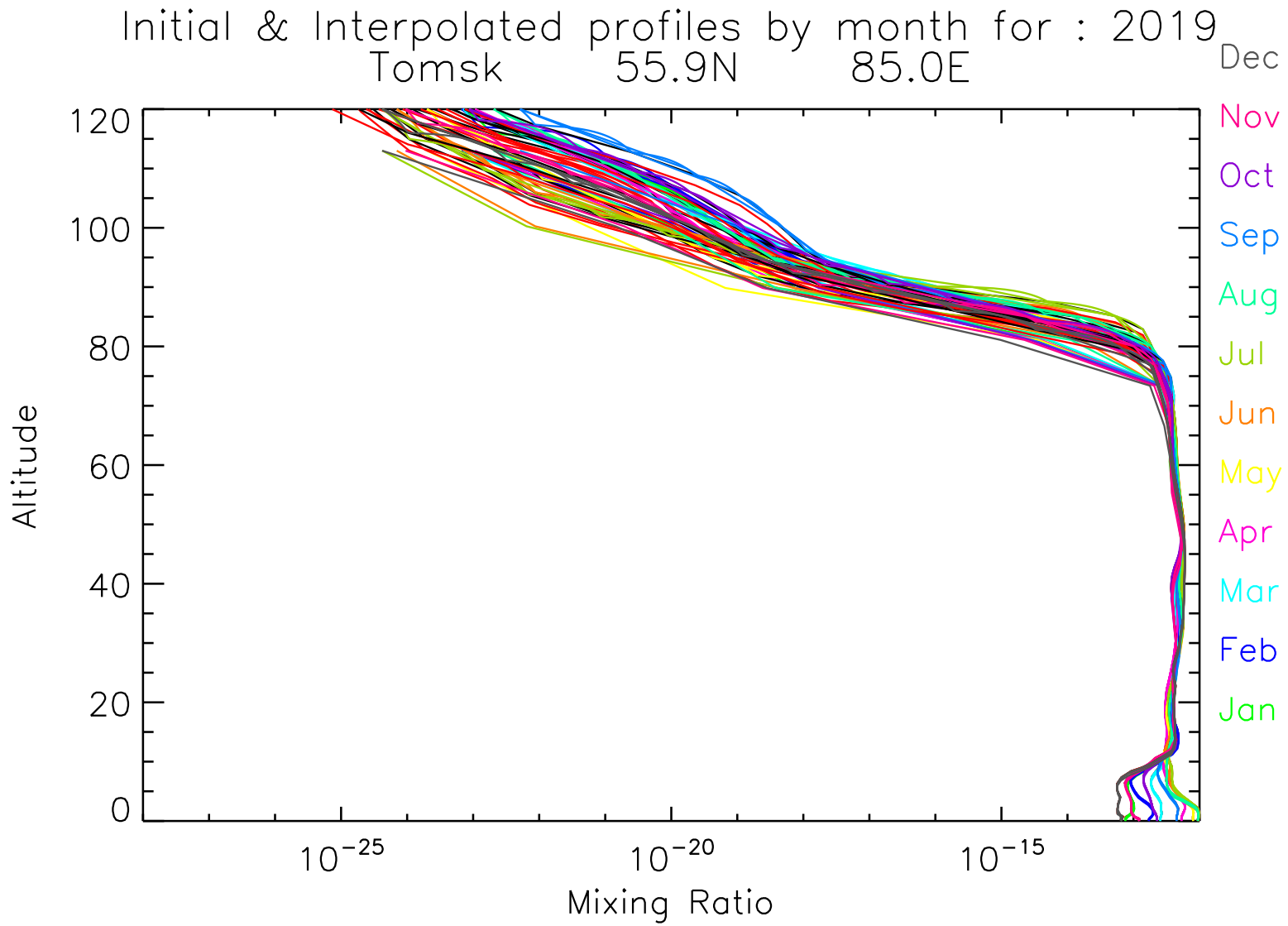
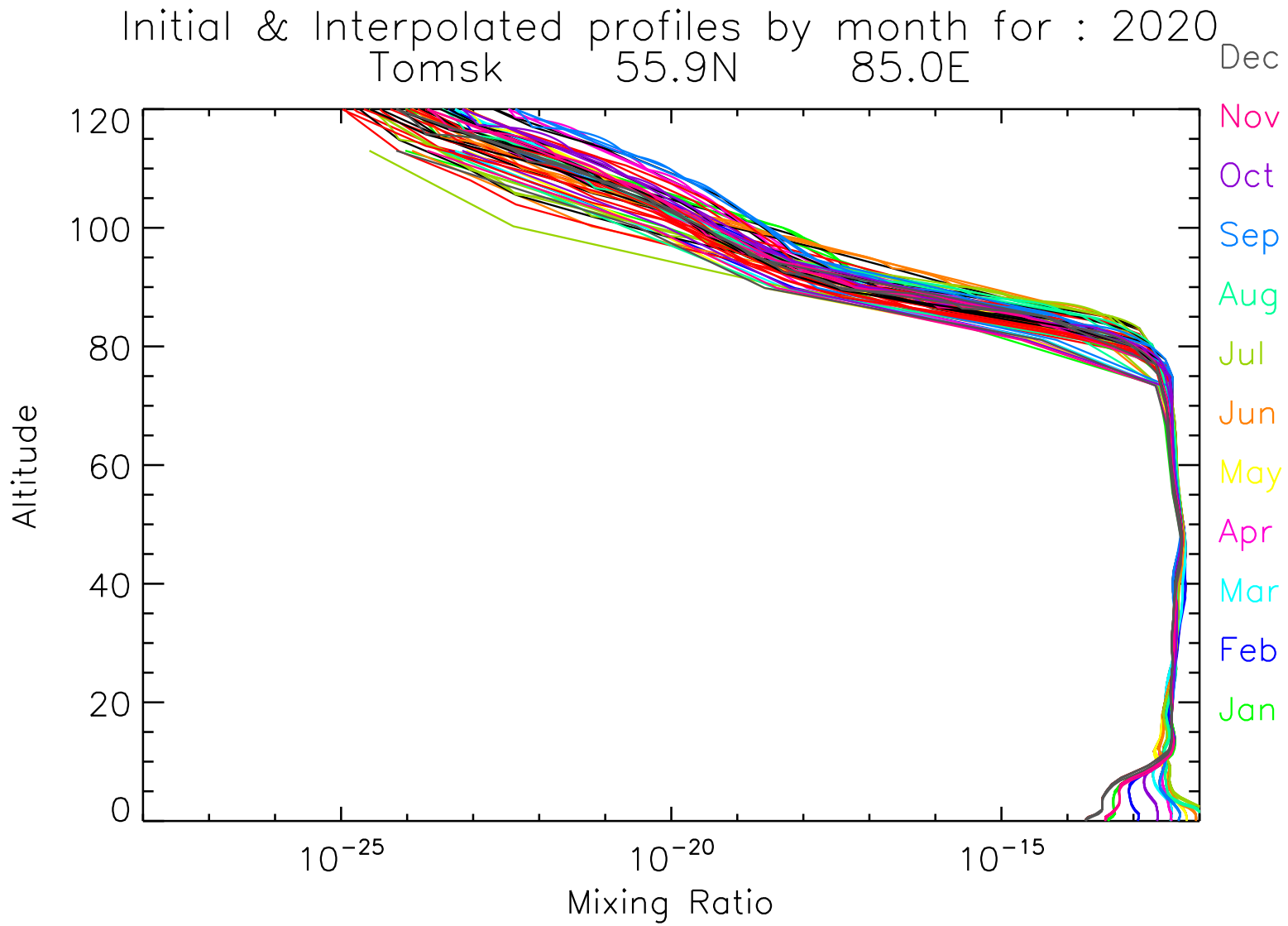
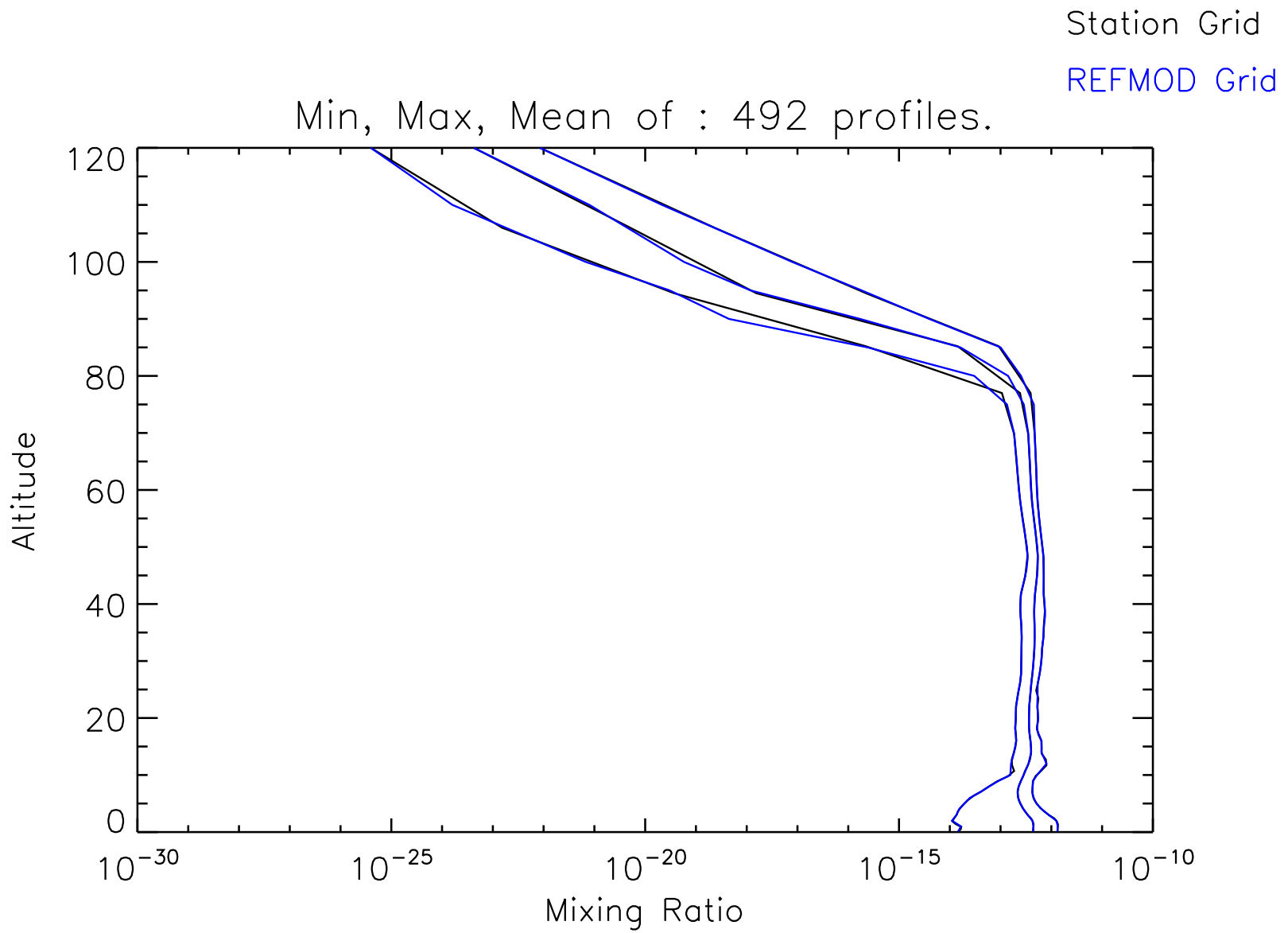
10^{-15}
Mixing Ratio

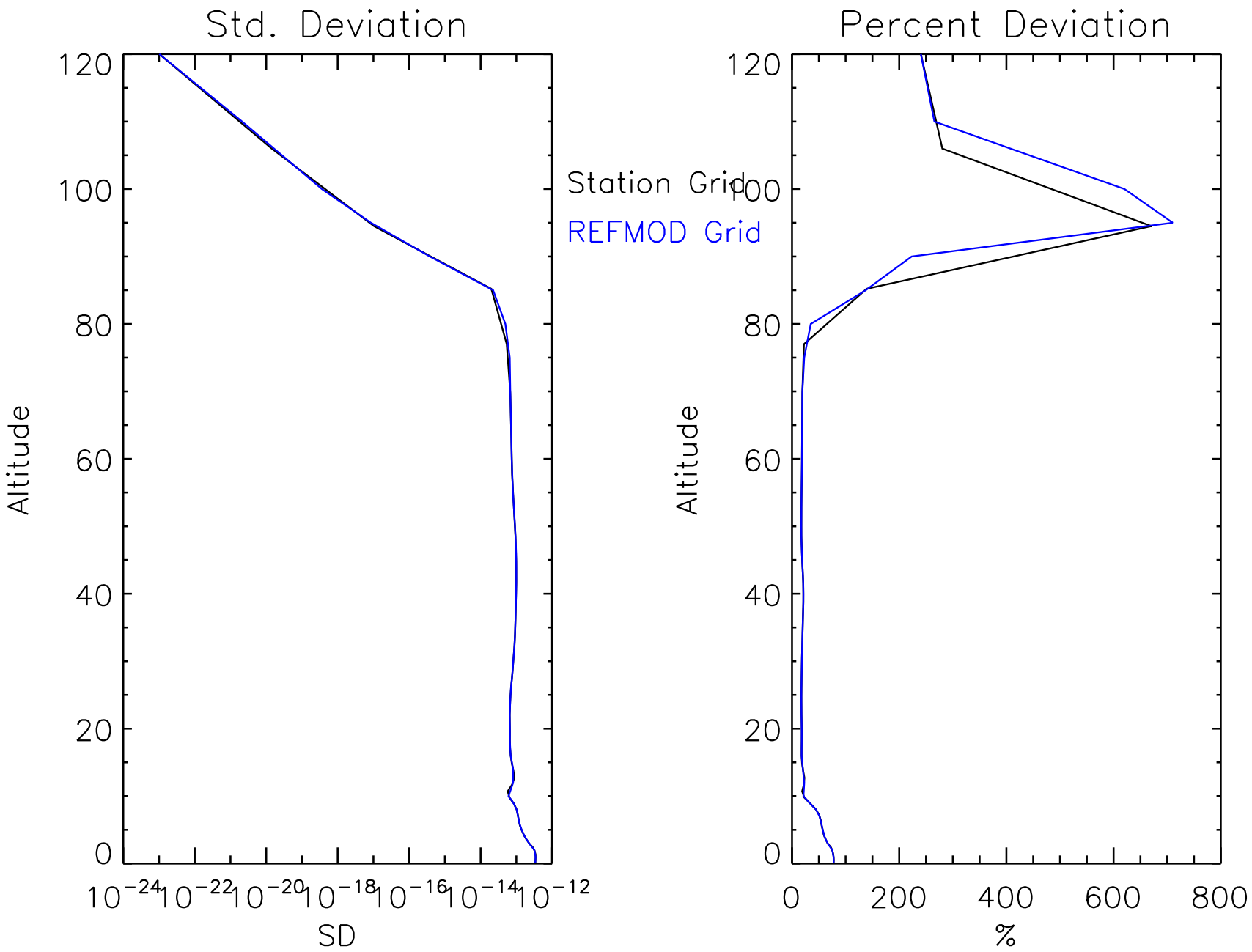

Initial & Interpolated profiles by month for : 2017
Tomsk 55.9N 85.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio

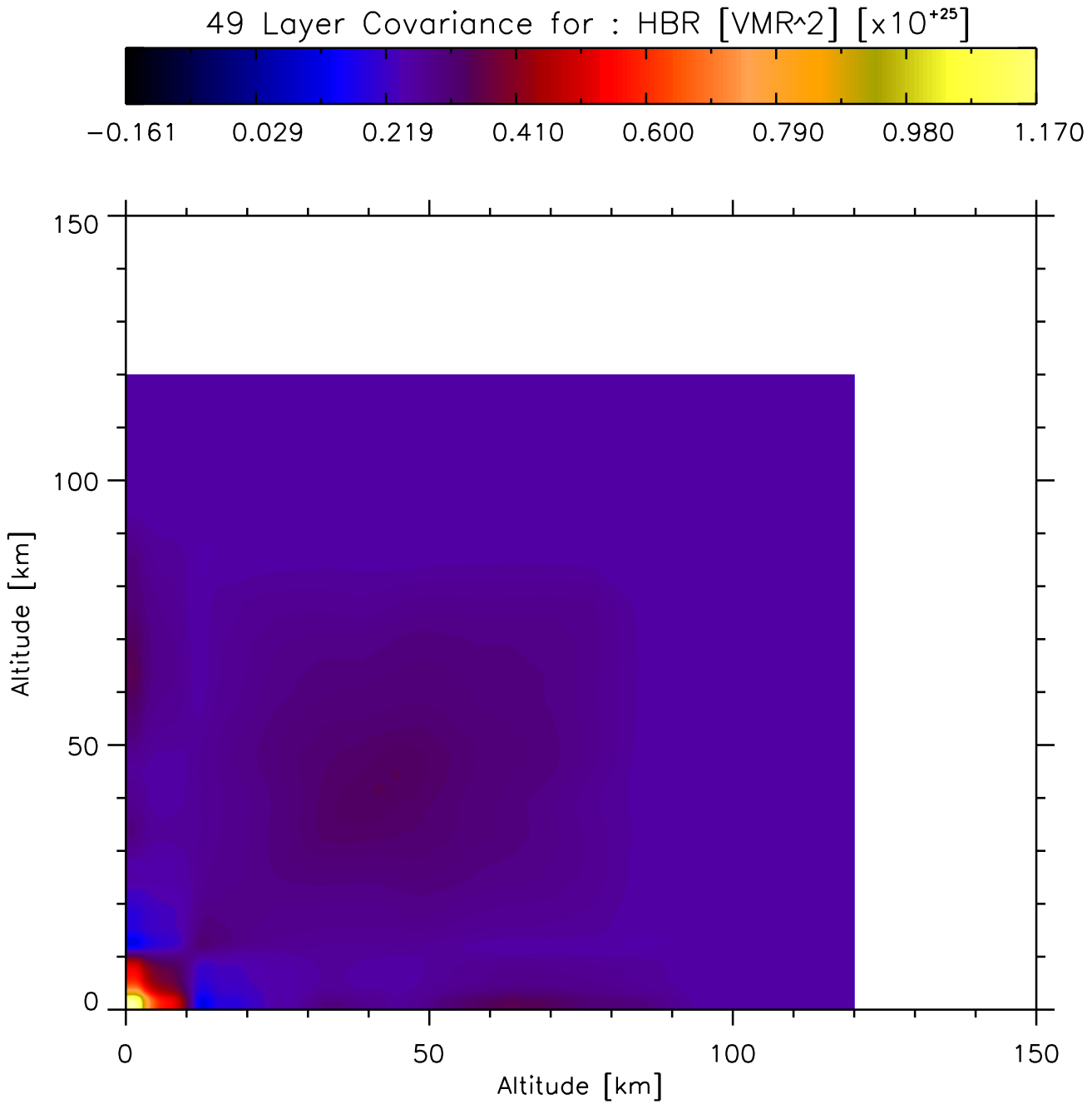

Initial & Interpolated profiles by month for : 2018
Tomsk 55.9N 85.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio

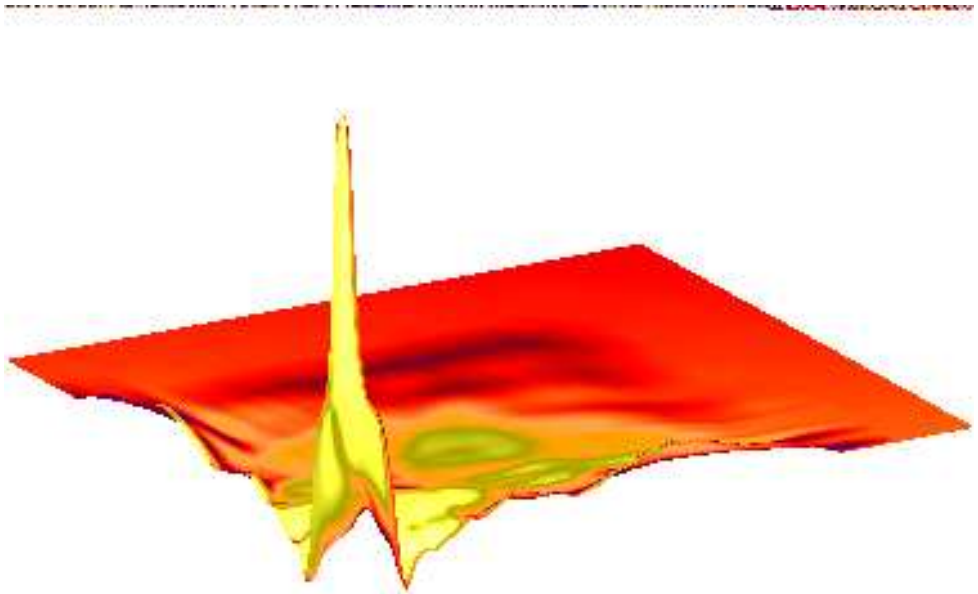

Initial & Interpolated profiles by month for : 2019
Tomsk 55.9N 85.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio

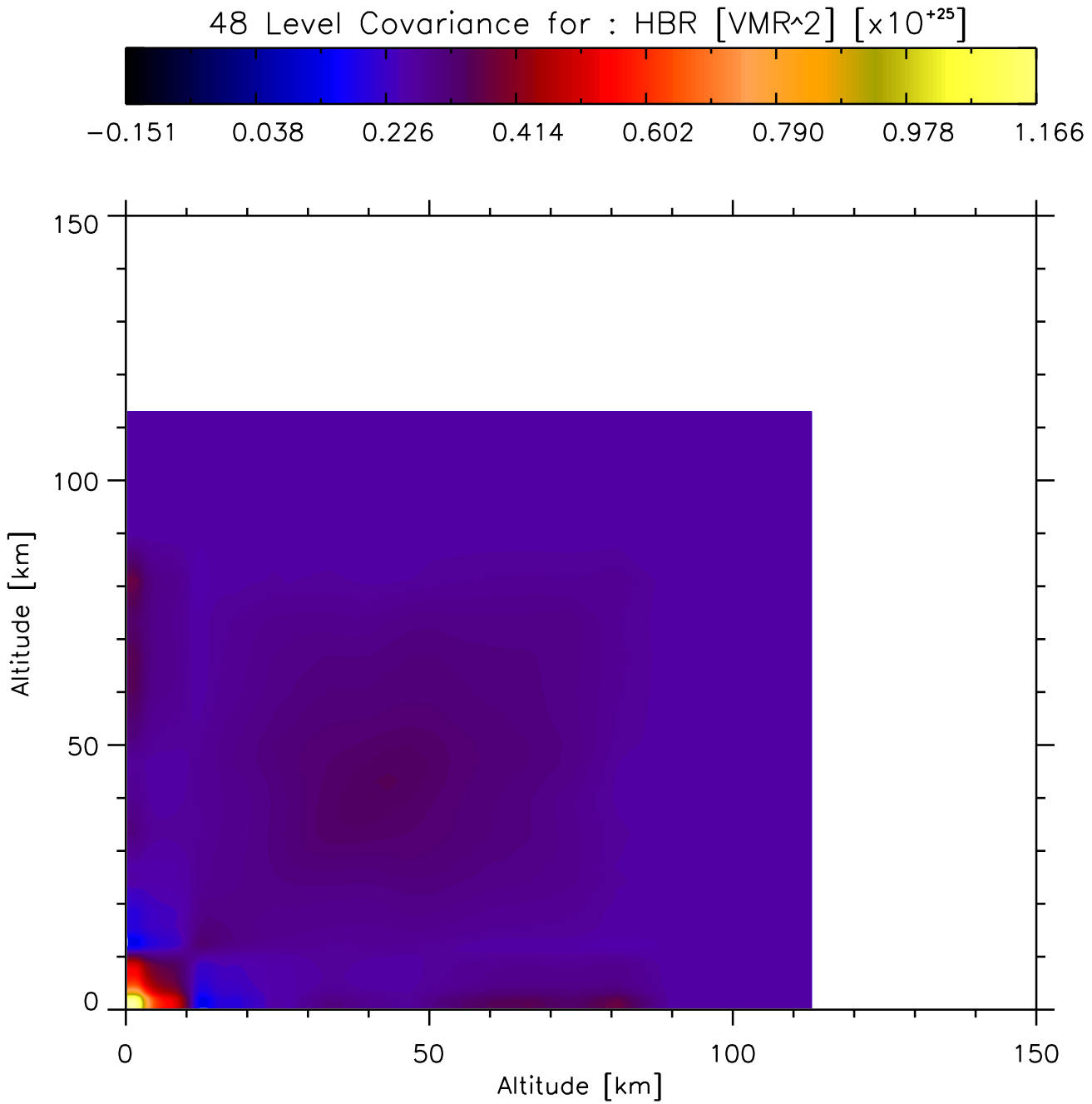

Initial & Interpolated profiles by month for : 2020
Tomsk 55.9N 85.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
Mixing Ratio


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-24} 10^{-22} 10^{-20} 10^{-18} 10^{-16} 10^{-14} 10^{-12}
SD
0
200
400
600
800
%


49 Layer Covariance for : HBR [VMR^2] [x10^+25]
−0.161
0.029
0.219
0.410
0.600
0.790
0.980
1.170
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]




48 Level Covariance for : HBR [VMR^2] [x10^+25]
−0.151
0.038
0.226
0.414
0.602
0.790
0.978
1.166
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : HBR [VMR^2] [x10^+25]
-0.5
0.0
0.5
1.0
1.5
Y Altitude
0
50
100
0
50
100
X Altitude