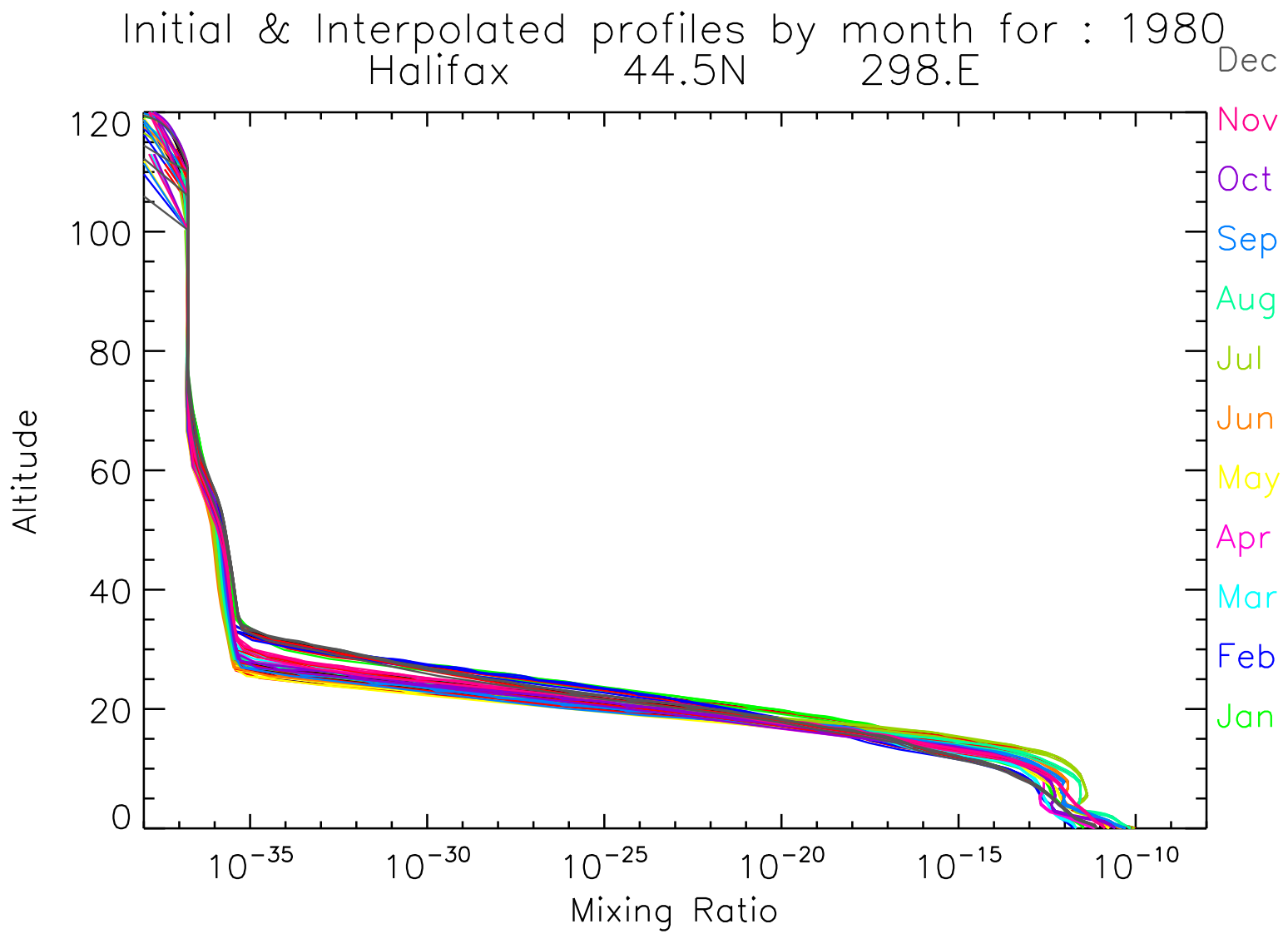
Initial & Interpolated profiles by month for : 1980
Halifax 44.5N 298.E
Dec
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120
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Altitude
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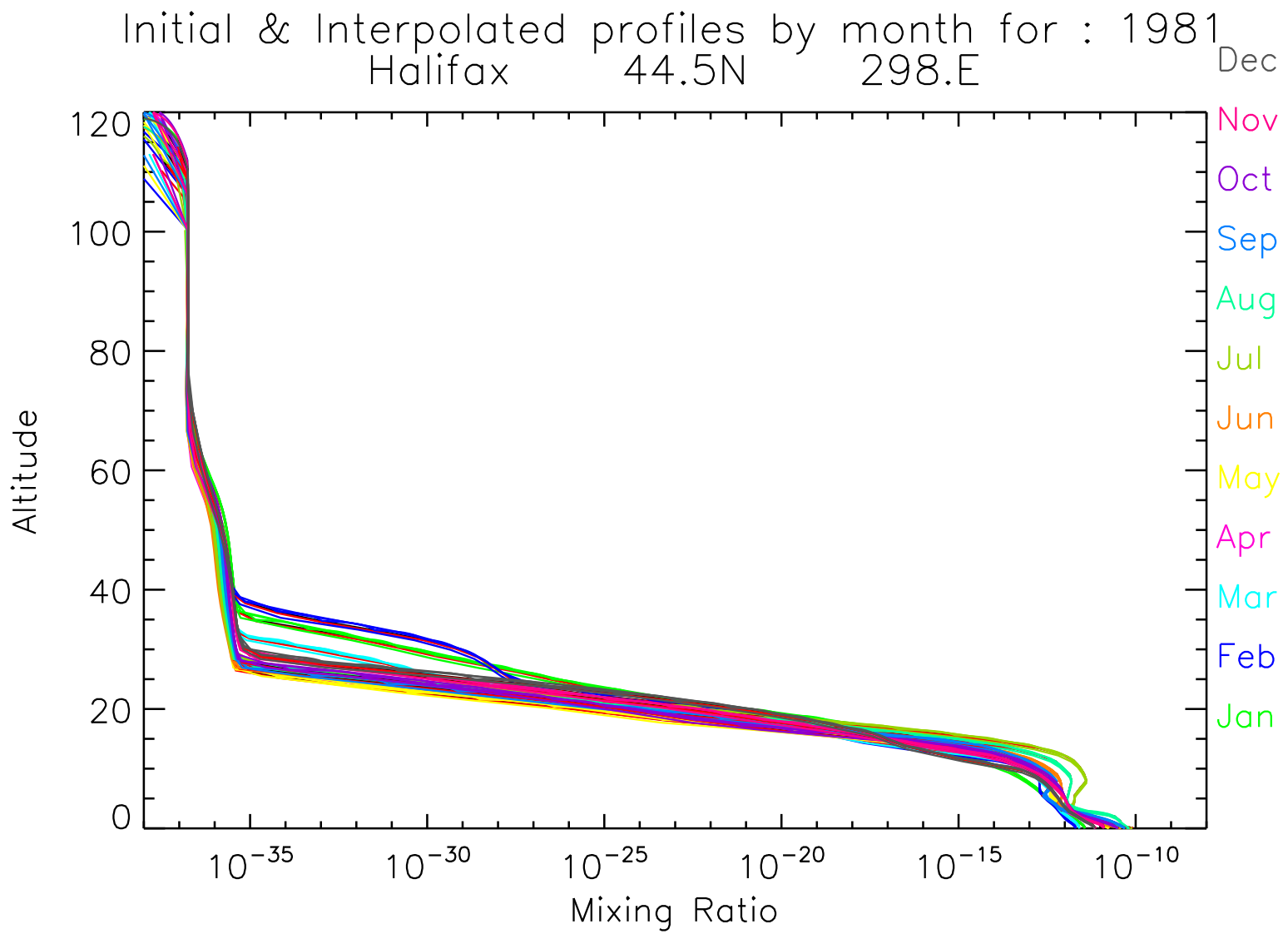
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Halifax 44.5N 298.E
Dec
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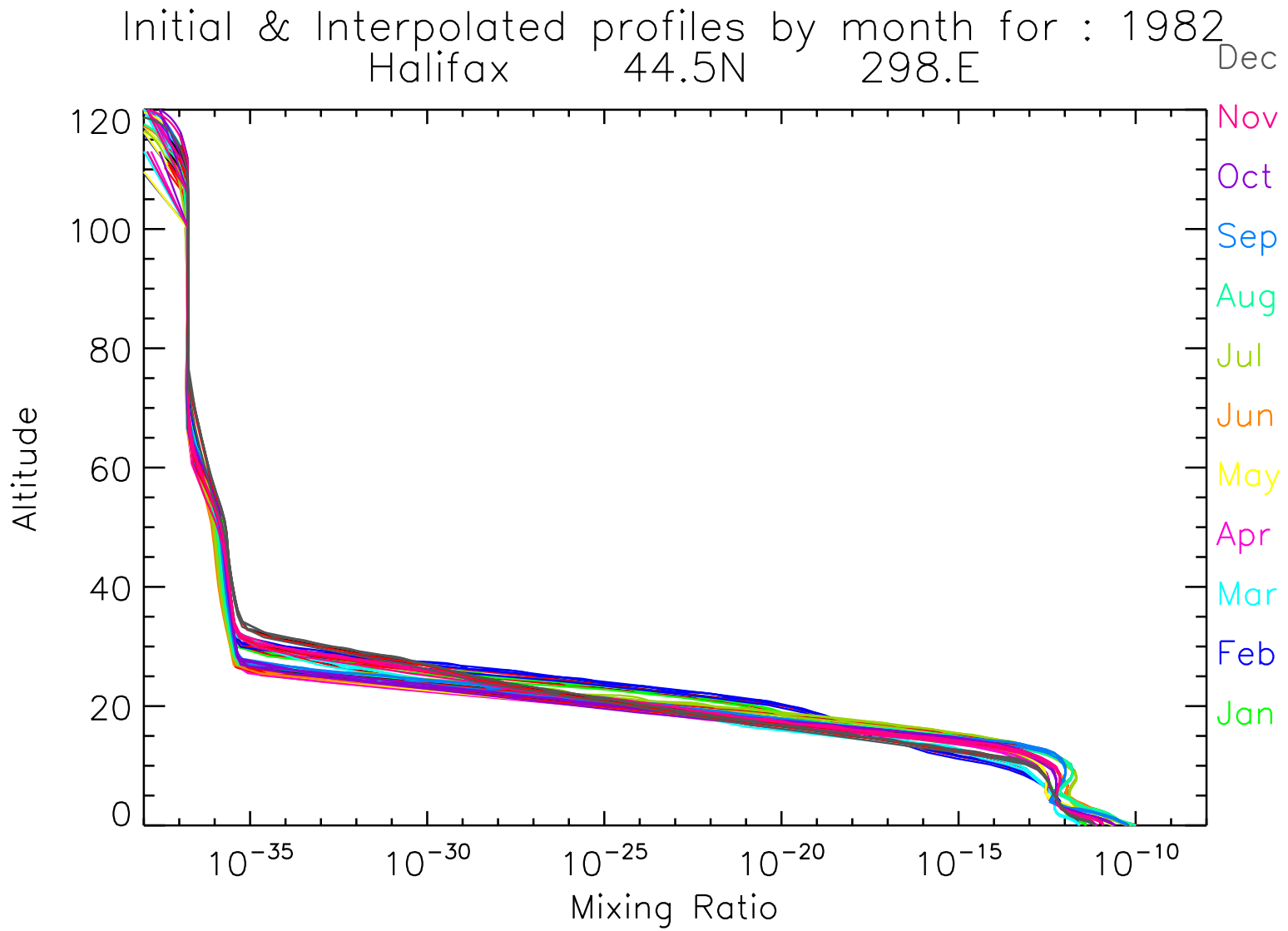
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Halifax 44.5N 298.E
Dec
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Altitude
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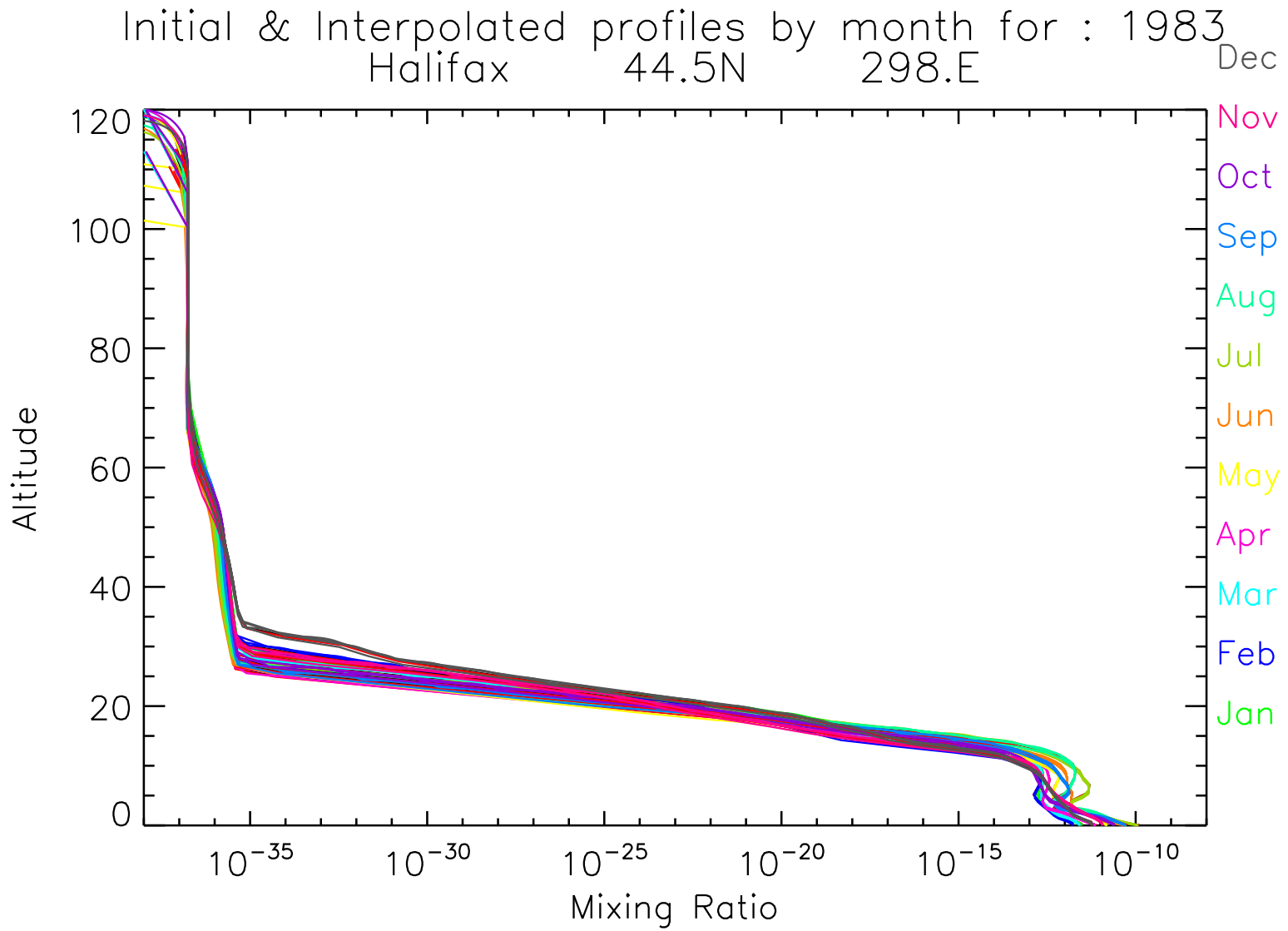
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Halifax 44.5N 298.E
Dec
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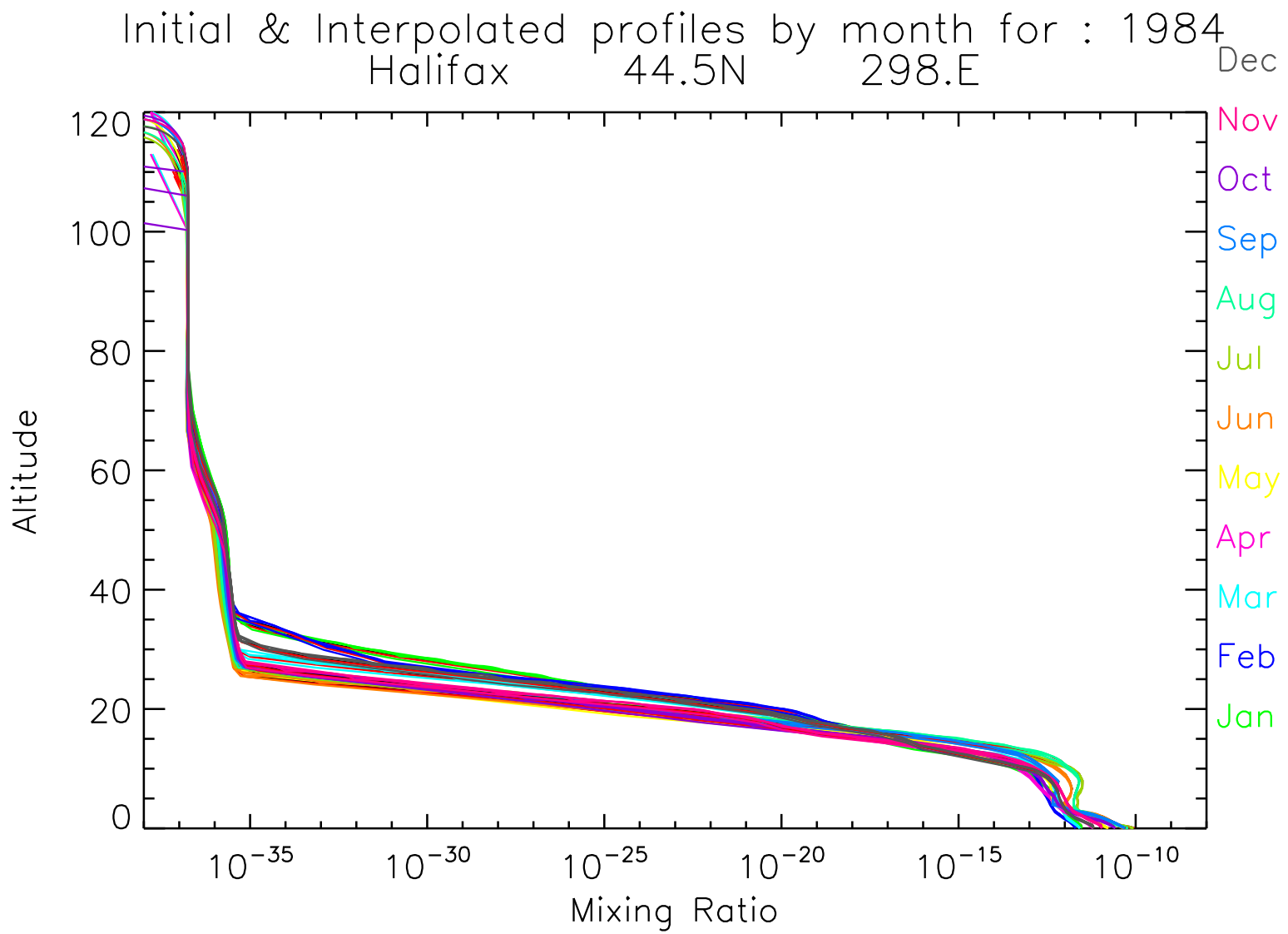
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Halifax 44.5N 298.E
Dec
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Altitude
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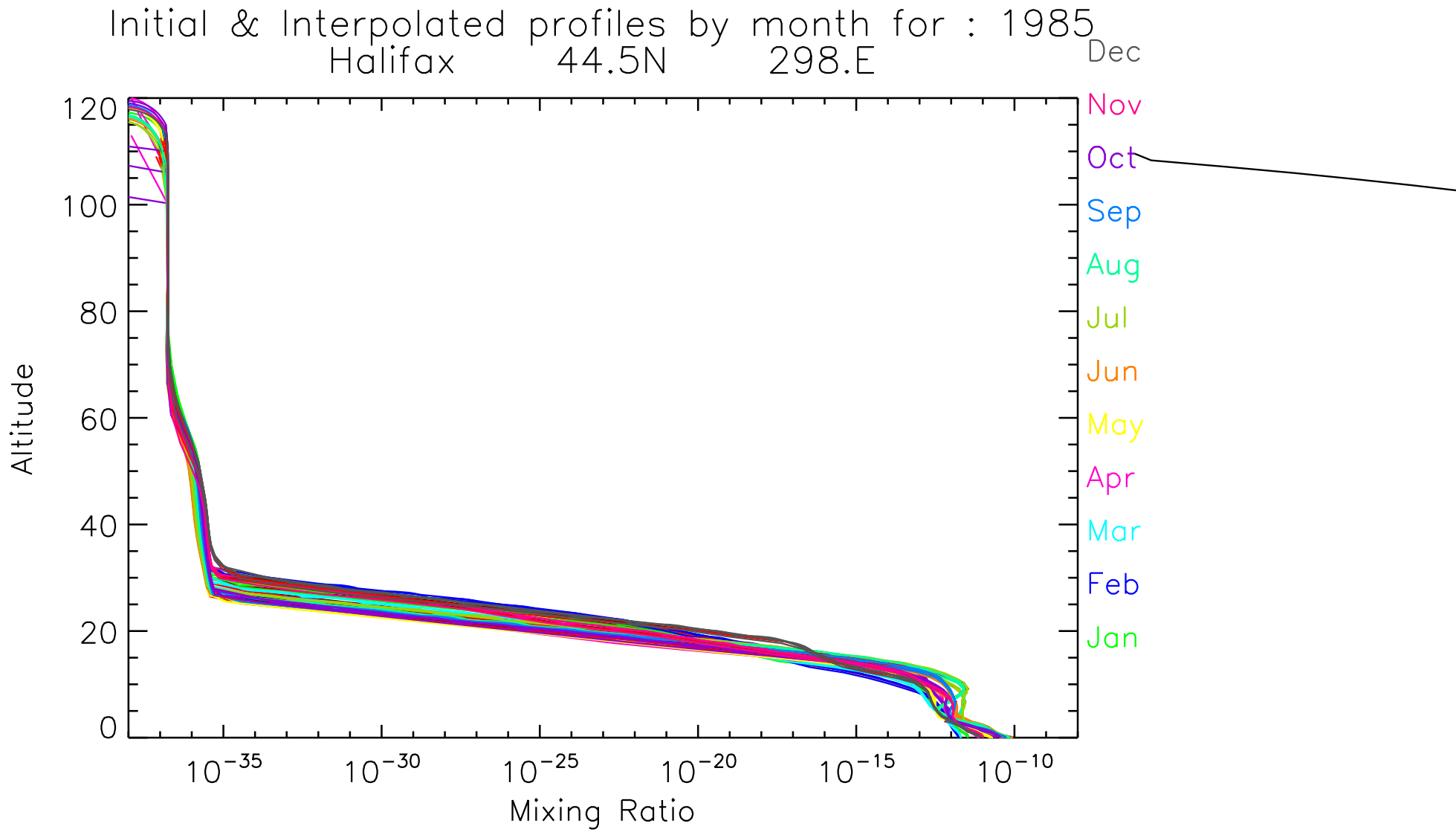
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Halifax 44.5N 298.E
Dec
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Altitude
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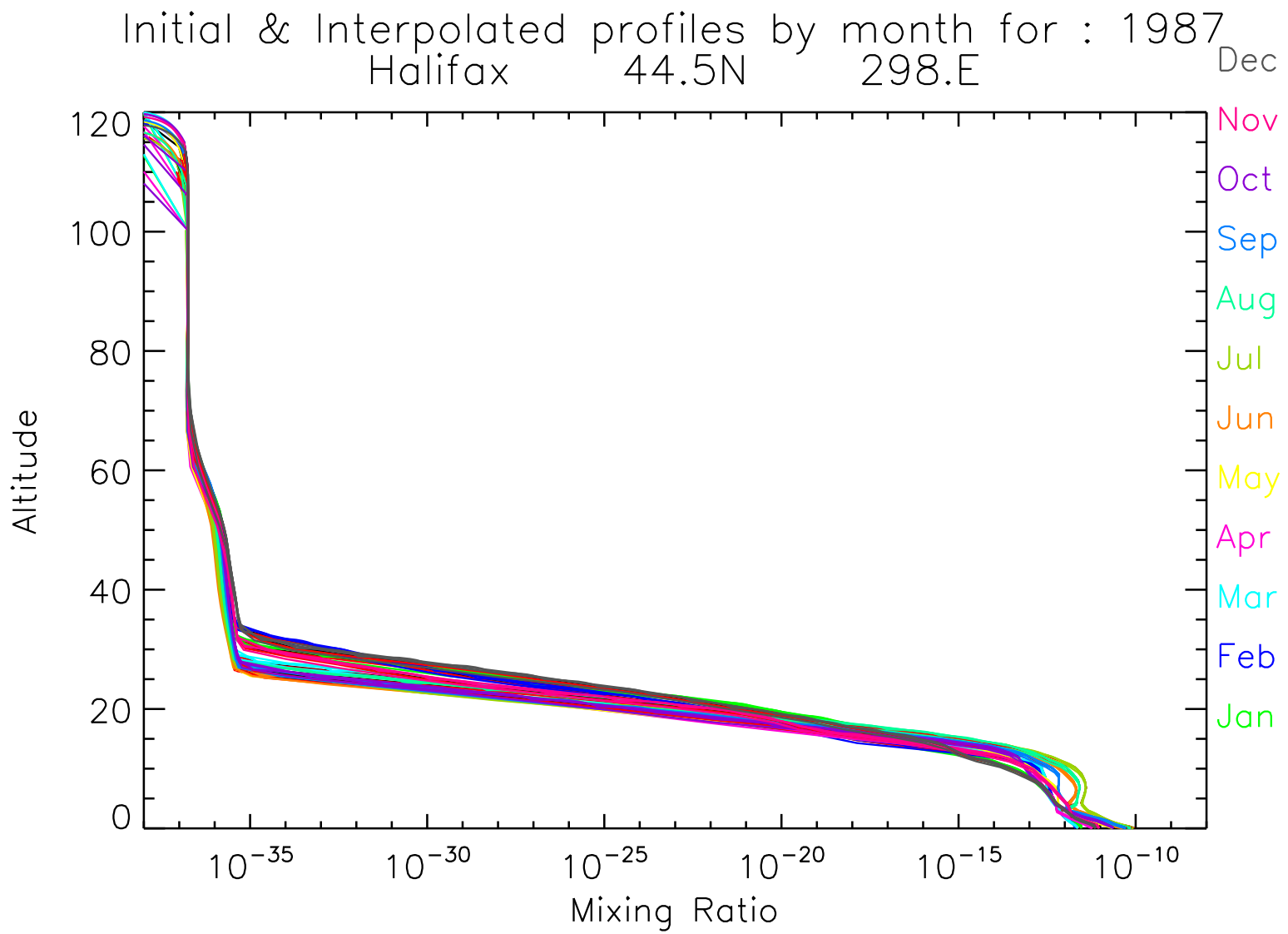
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Halifax 44.5N 298.E
Dec
Nov
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Altitude
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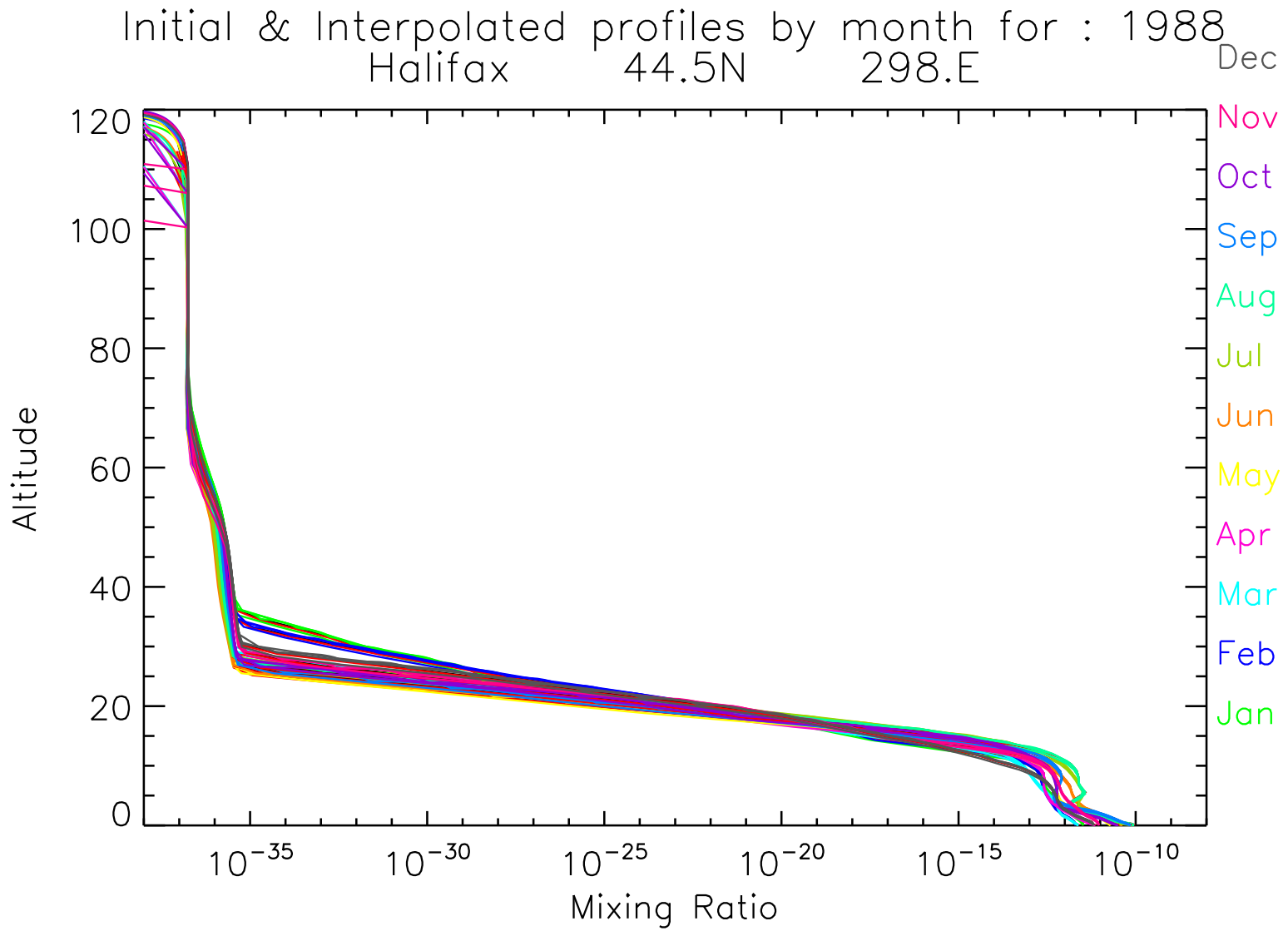
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Halifax 44.5N 298.E
Dec
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Altitude
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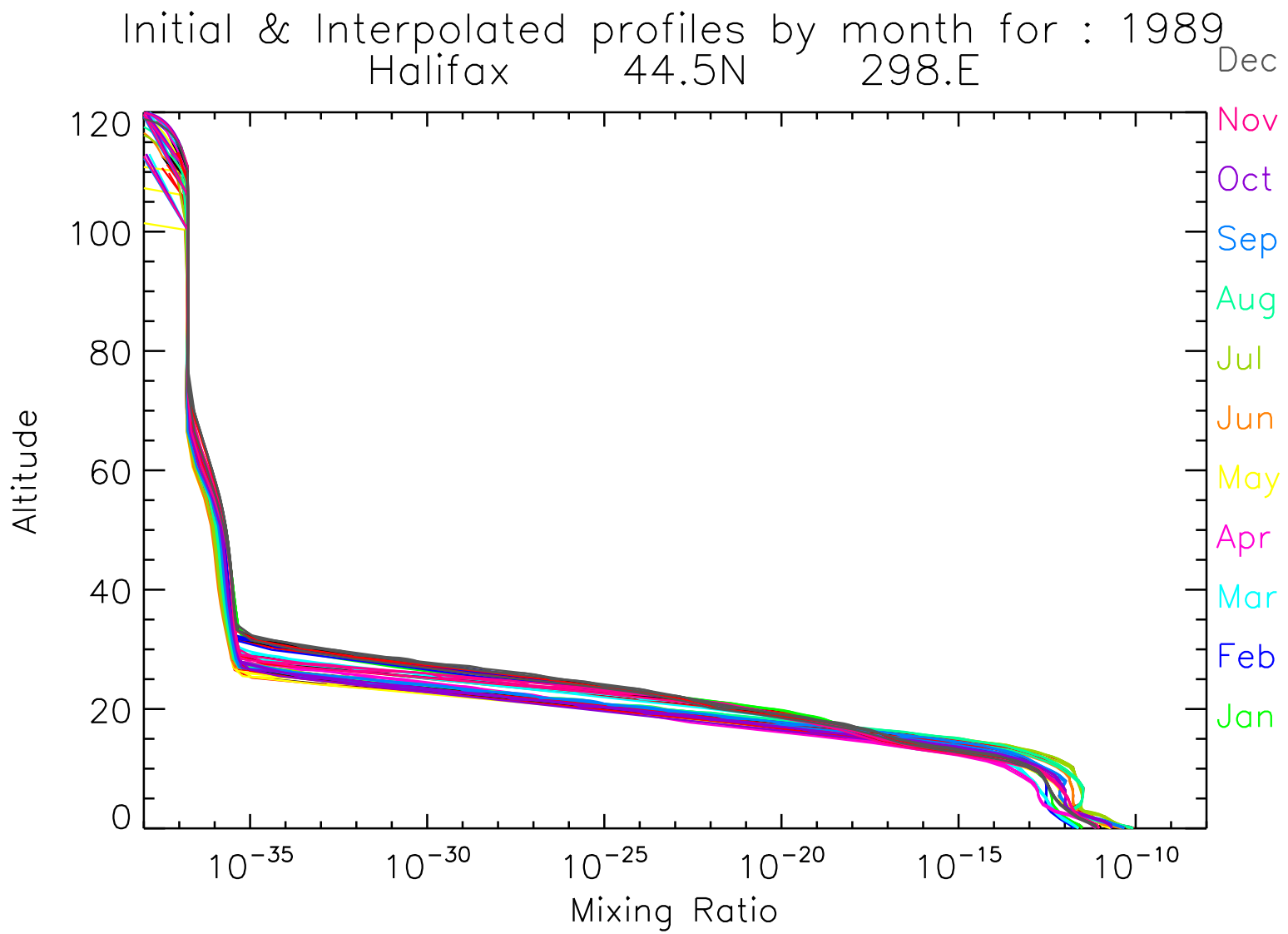
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Halifax 44.5N 298.E
Dec
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Altitude
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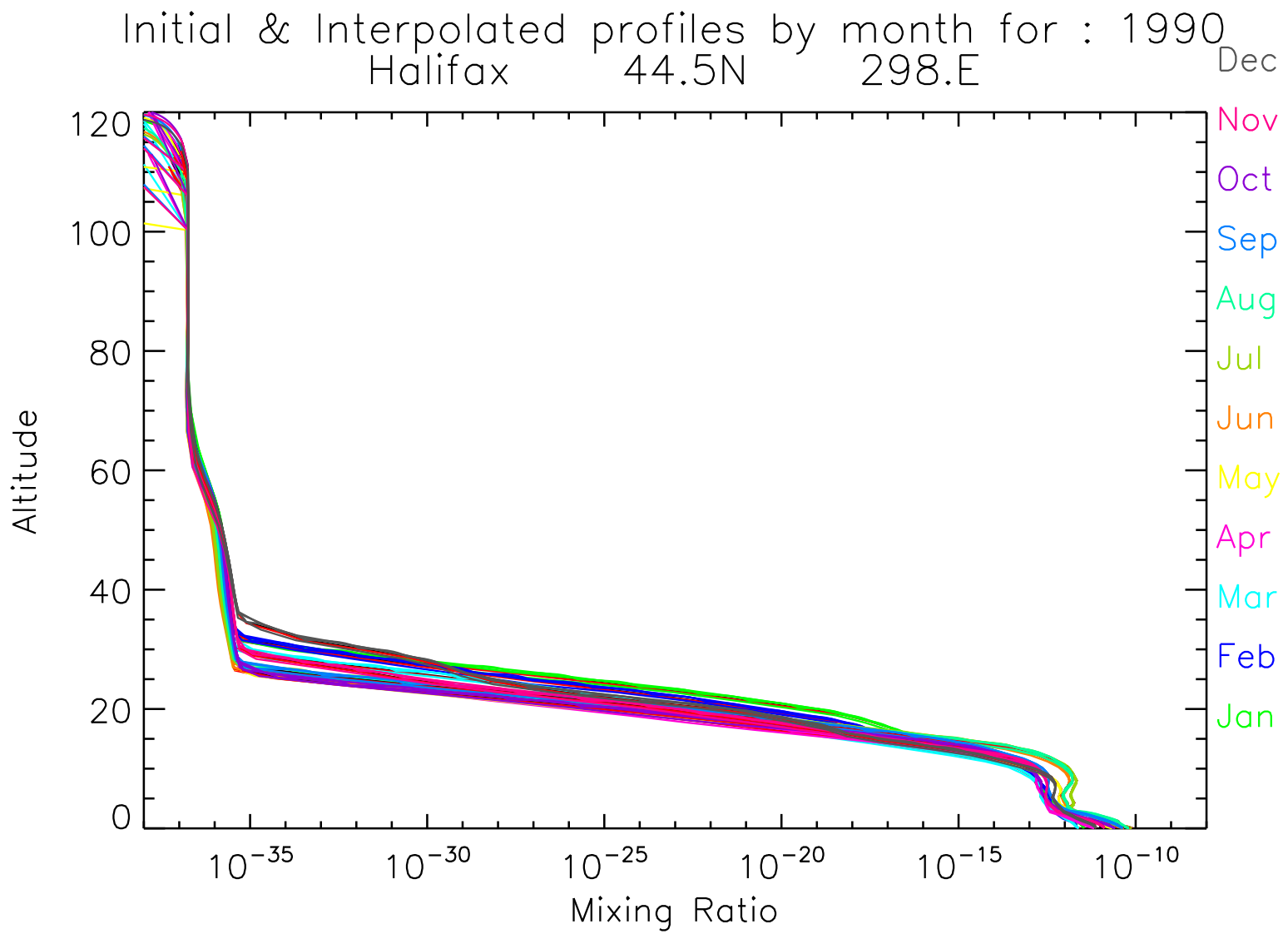
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Halifax 44.5N 298.E
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Altitude
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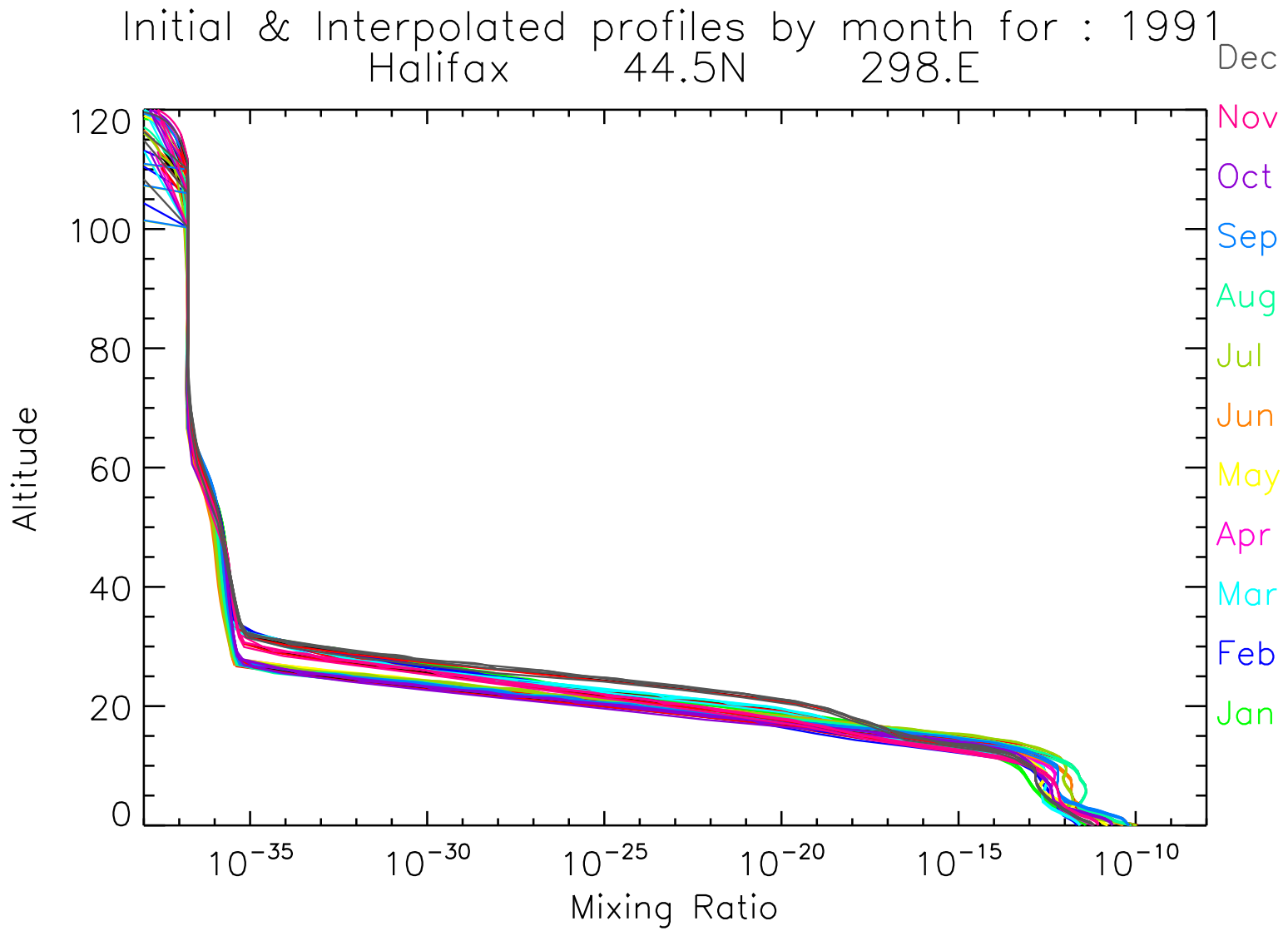
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Halifax 44.5N 298.E
Dec
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Altitude
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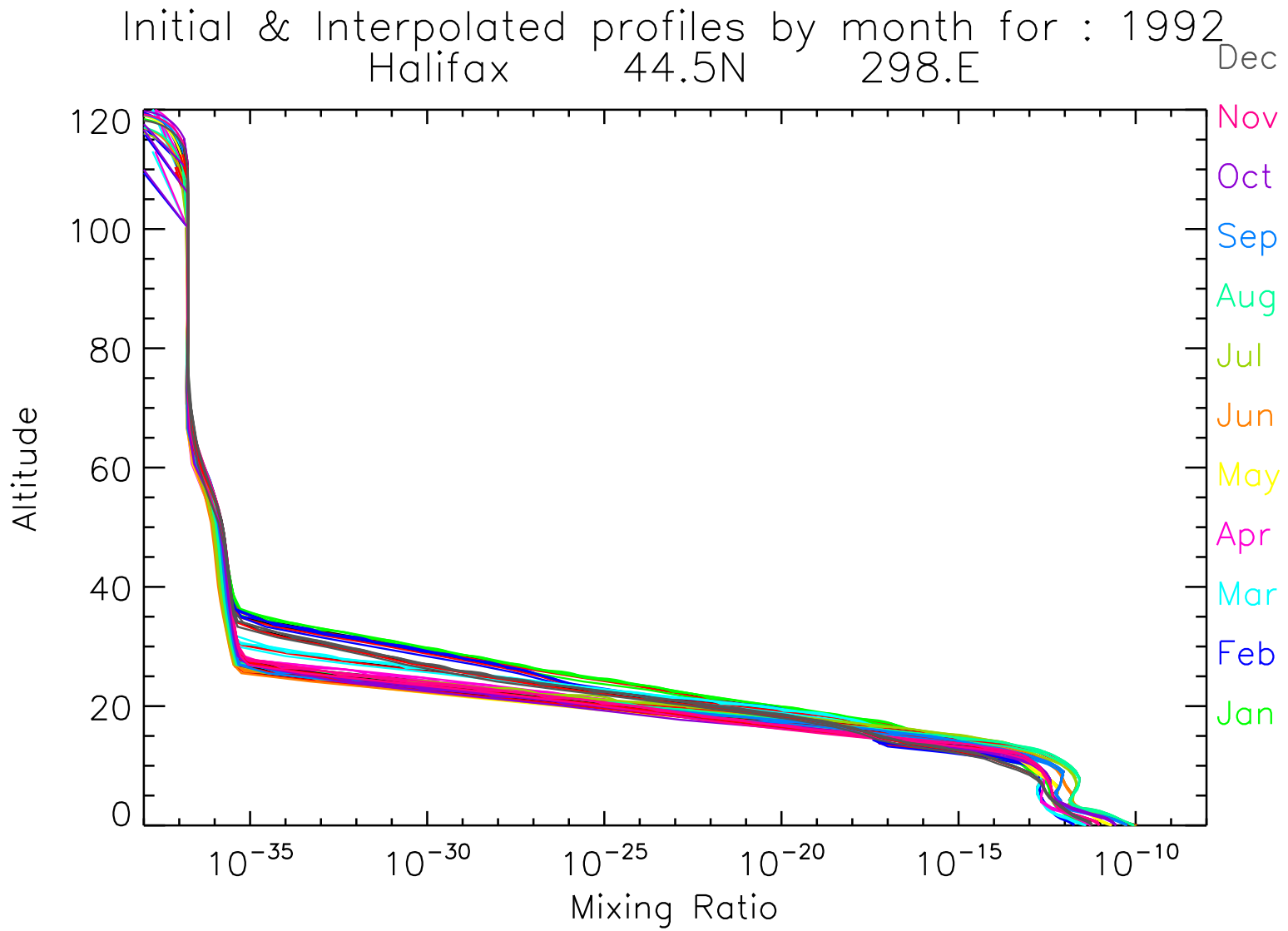
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Halifax 44.5N 298.E
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Altitude
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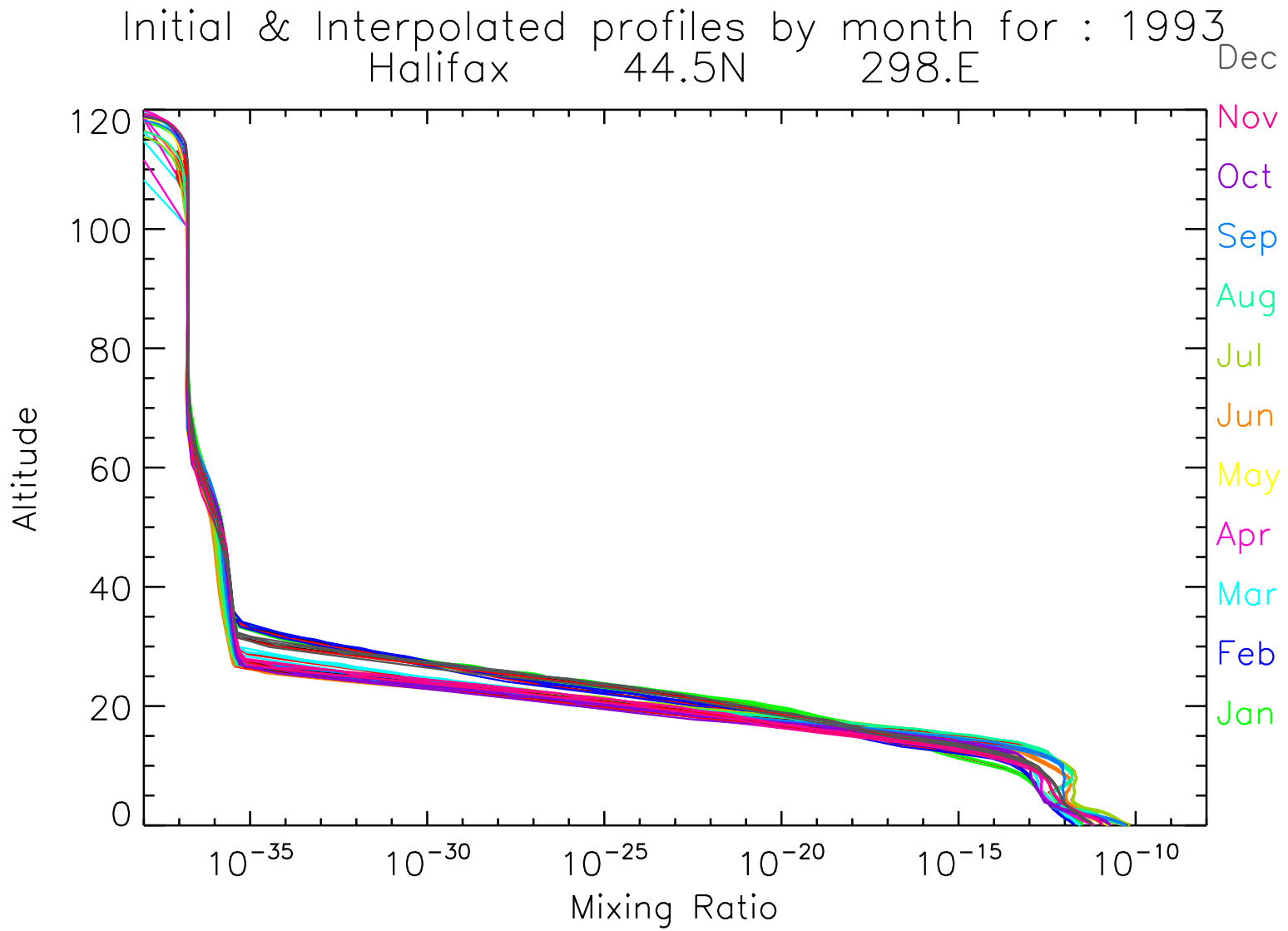
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Halifax 44.5N 298.E
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Altitude
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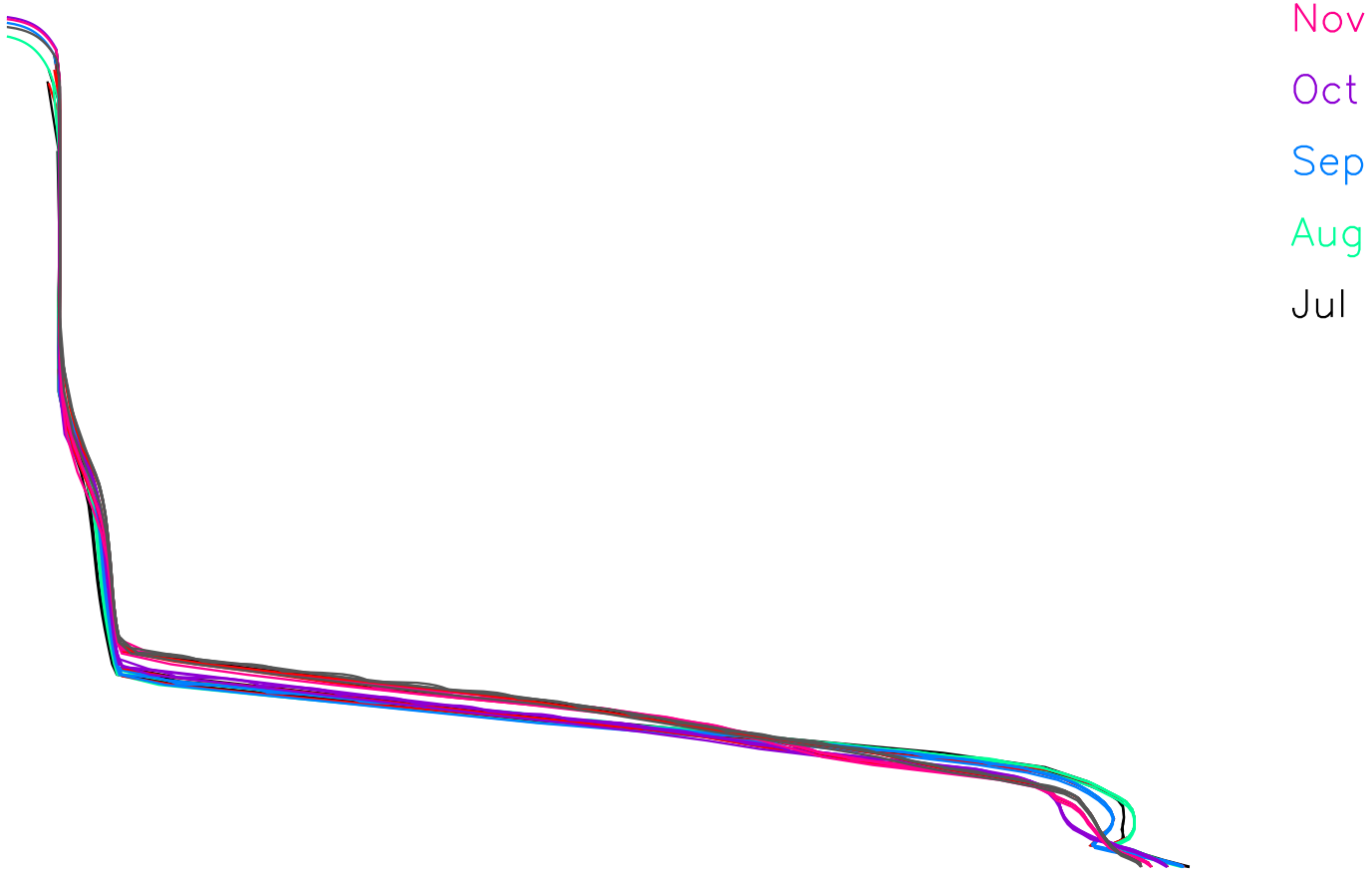
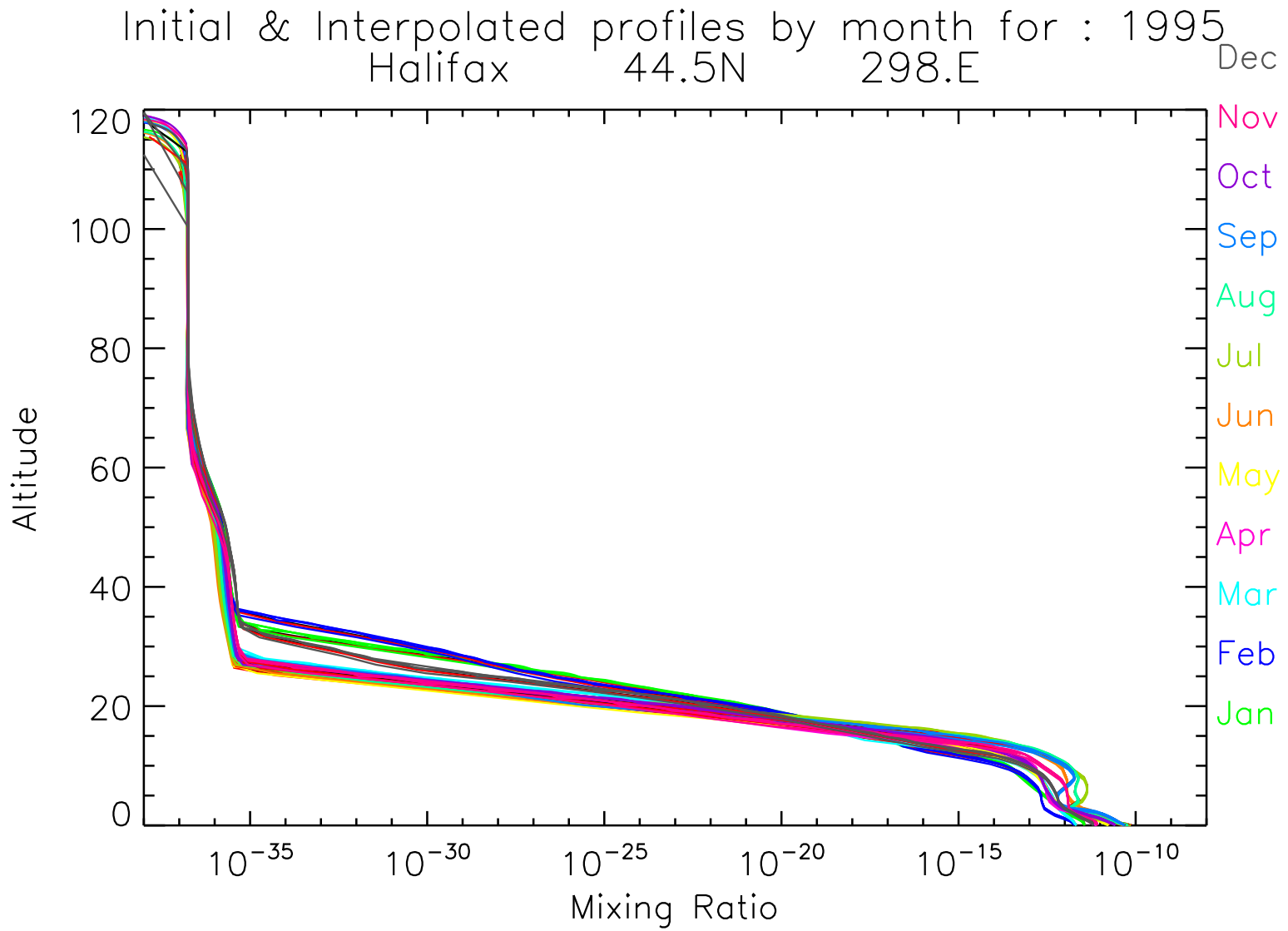
Mixing Ratio

Initial & Interpolated profiles by month for : 1




Initial & Interpolated profiles by month for : 1995
Halifax 44.5N 298.E
Dec
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Altitude
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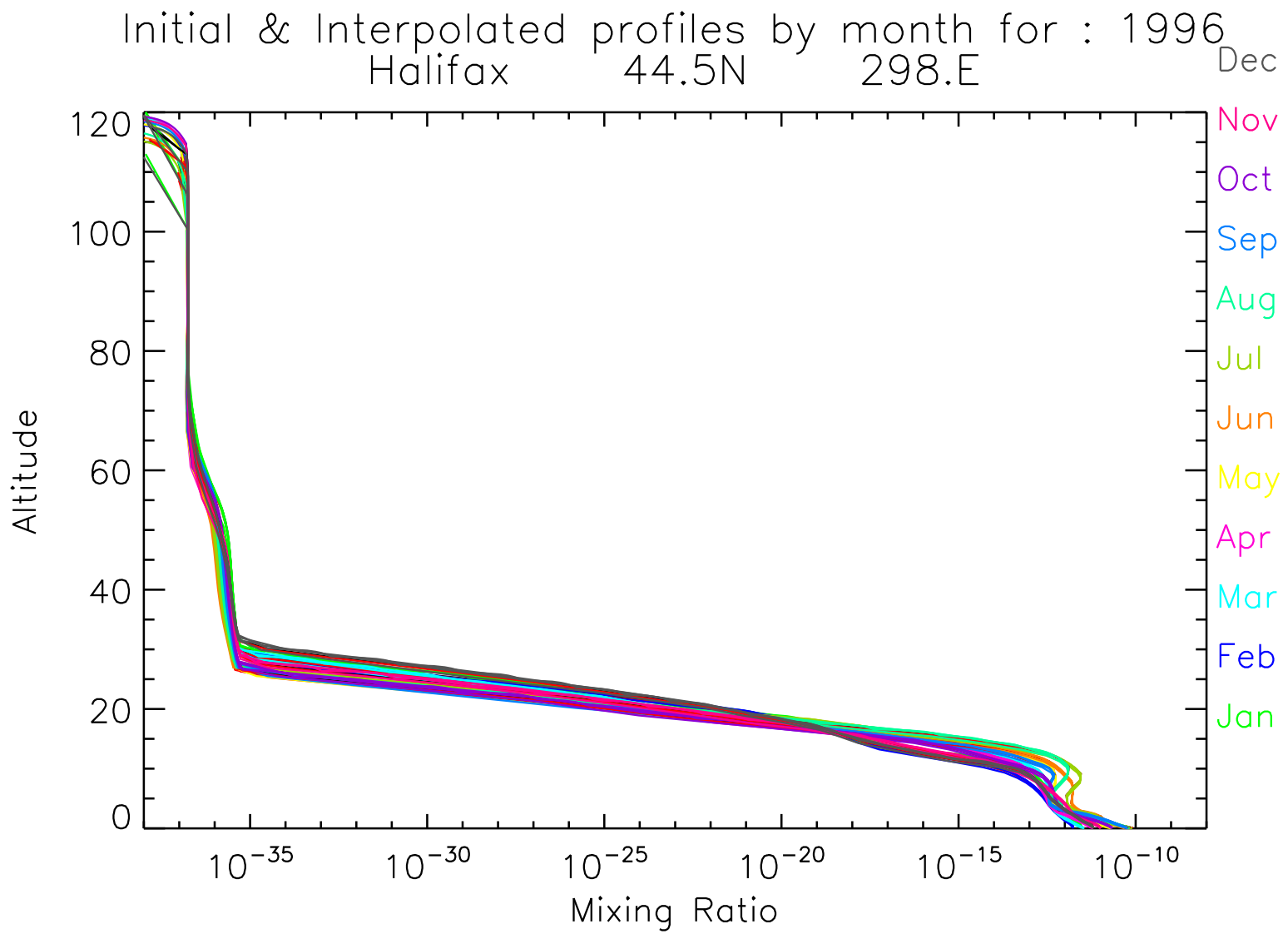
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Halifax 44.5N 298.E
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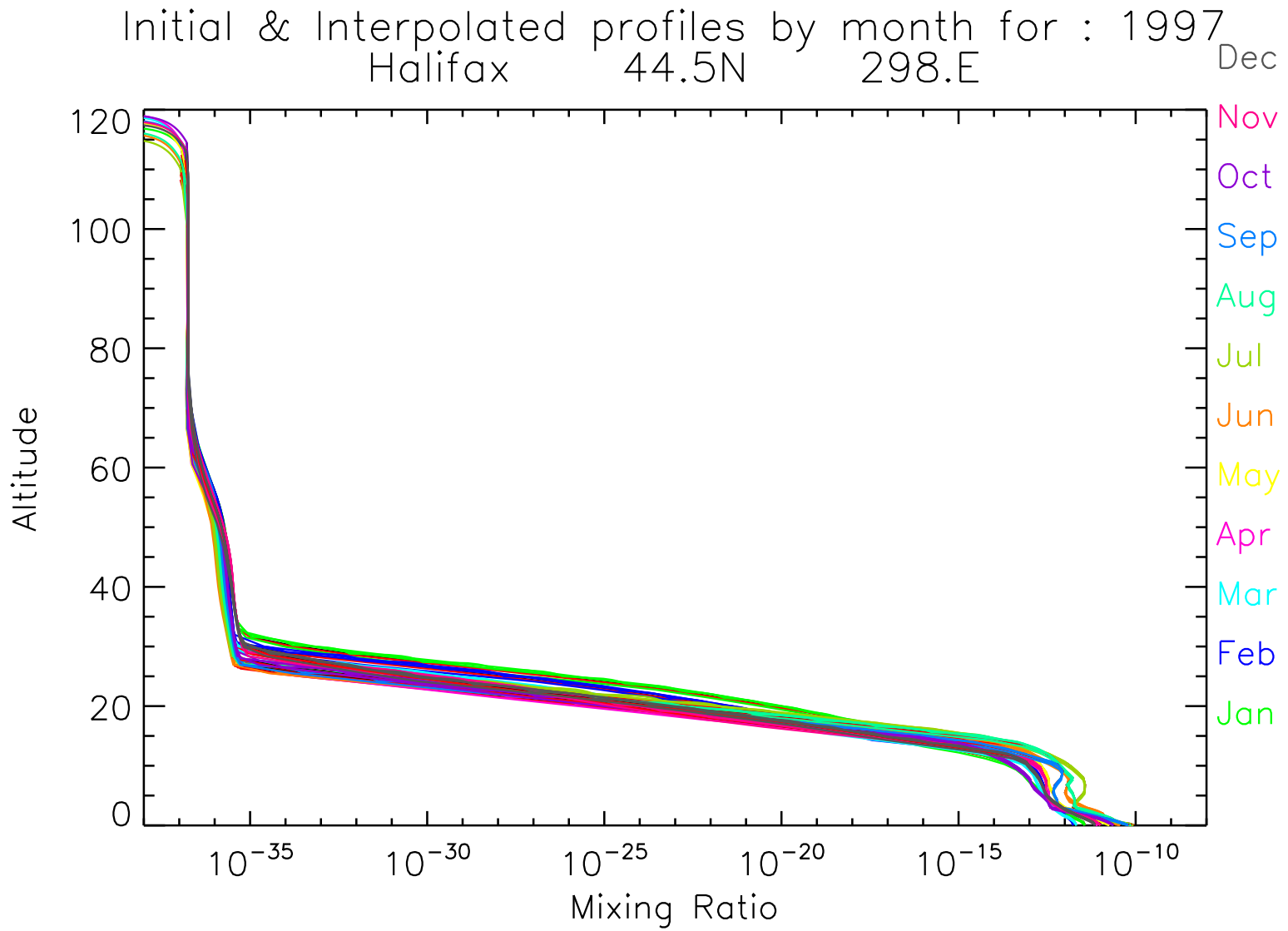
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Halifax 44.5N 298.E
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Altitude
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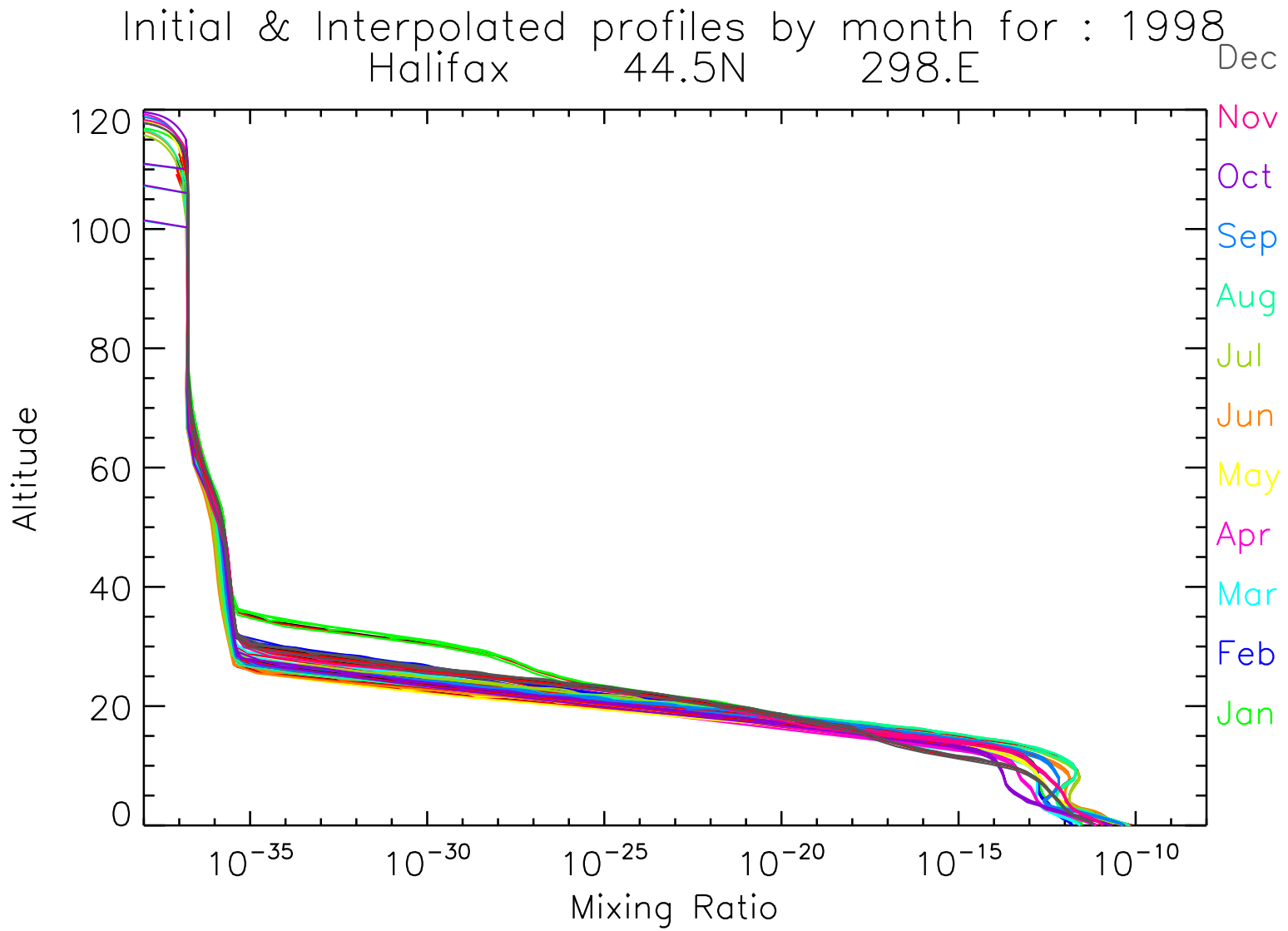
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Halifax 44.5N 298.E
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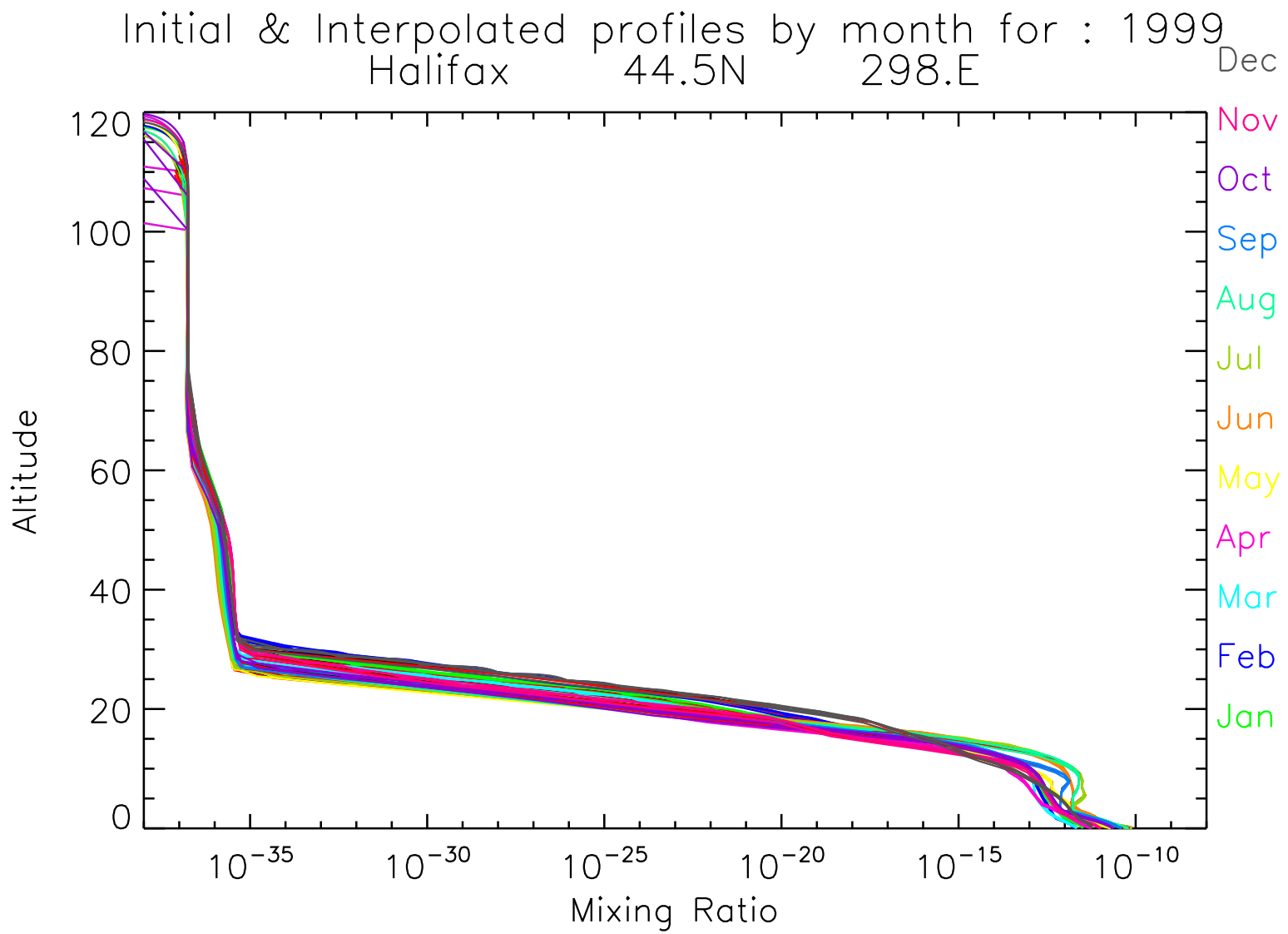
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Halifax 44.5N 298.E
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Altitude
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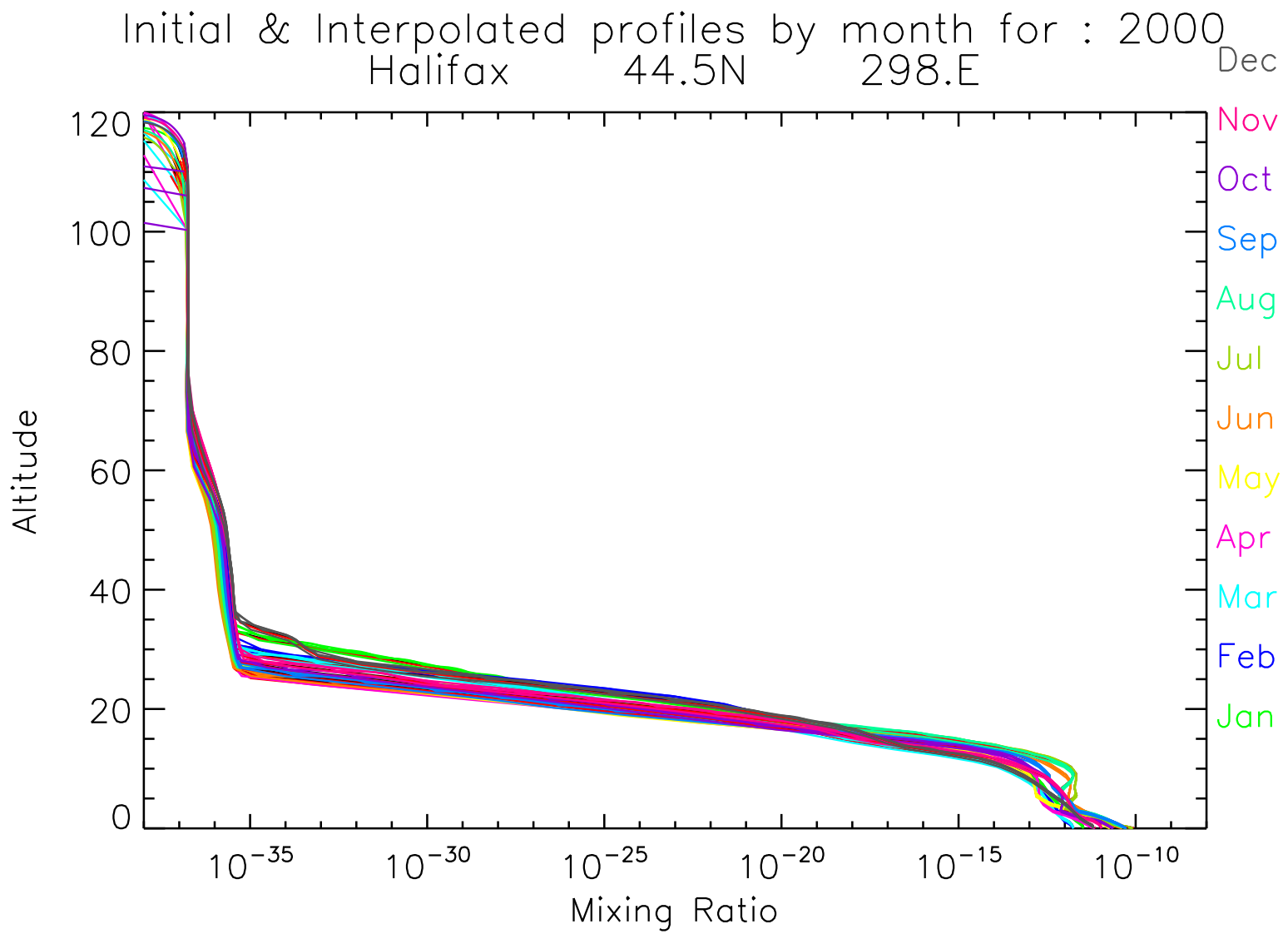
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Halifax 44.5N 298.E
Dec
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Altitude
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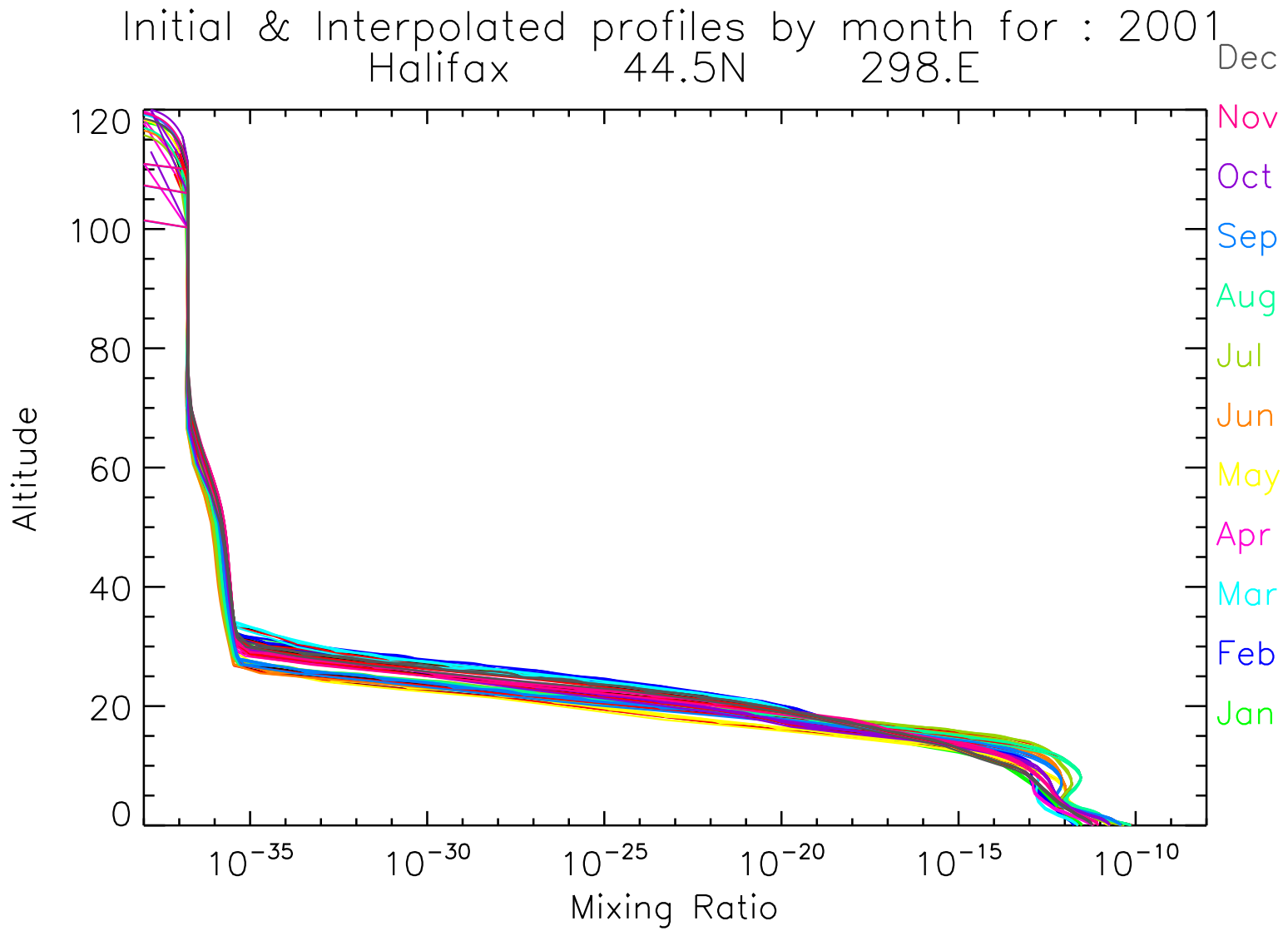
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Halifax 44.5N 298.E
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Altitude
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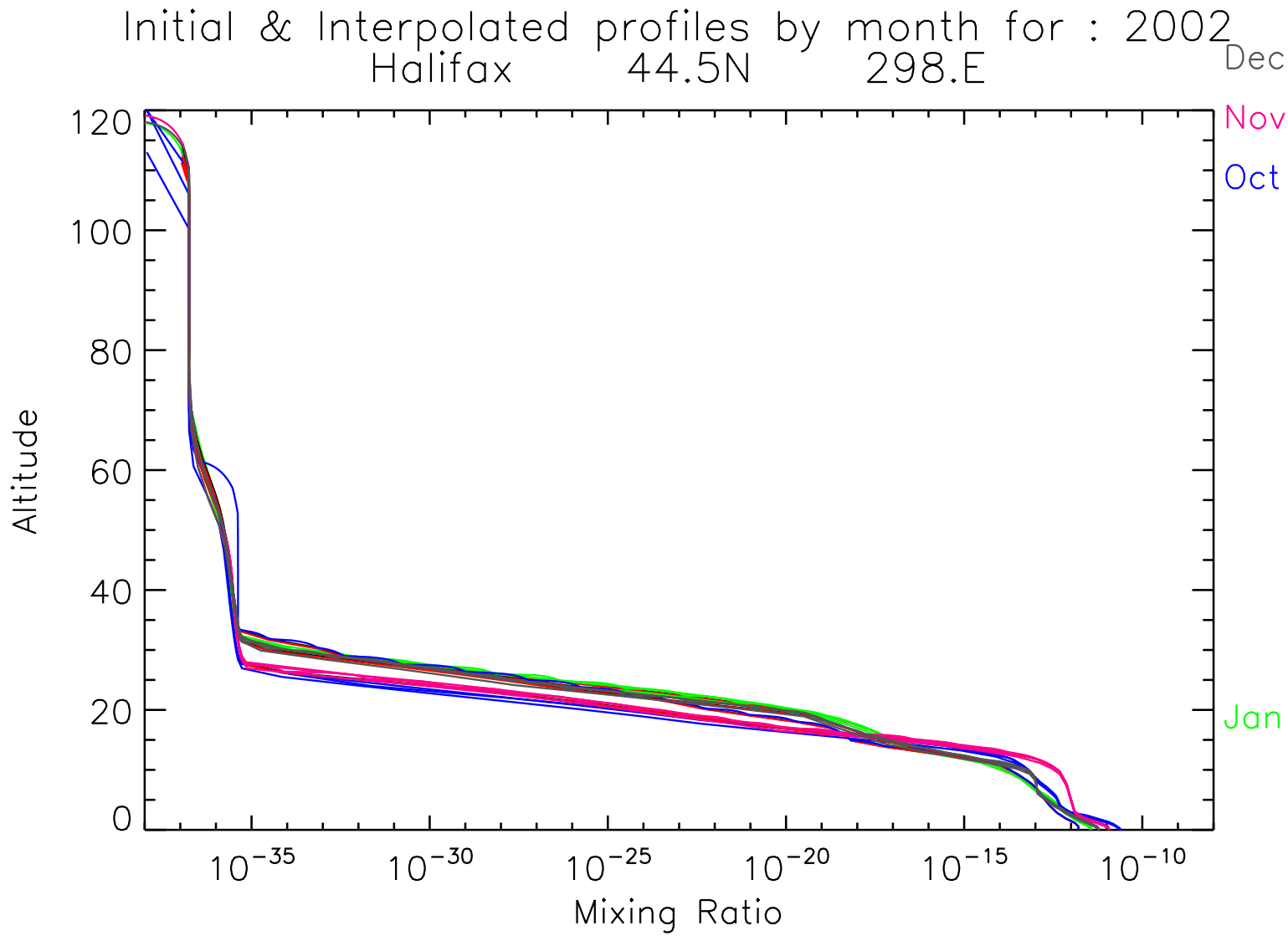
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Halifax 44.5N 298.E
Dec
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Altitude
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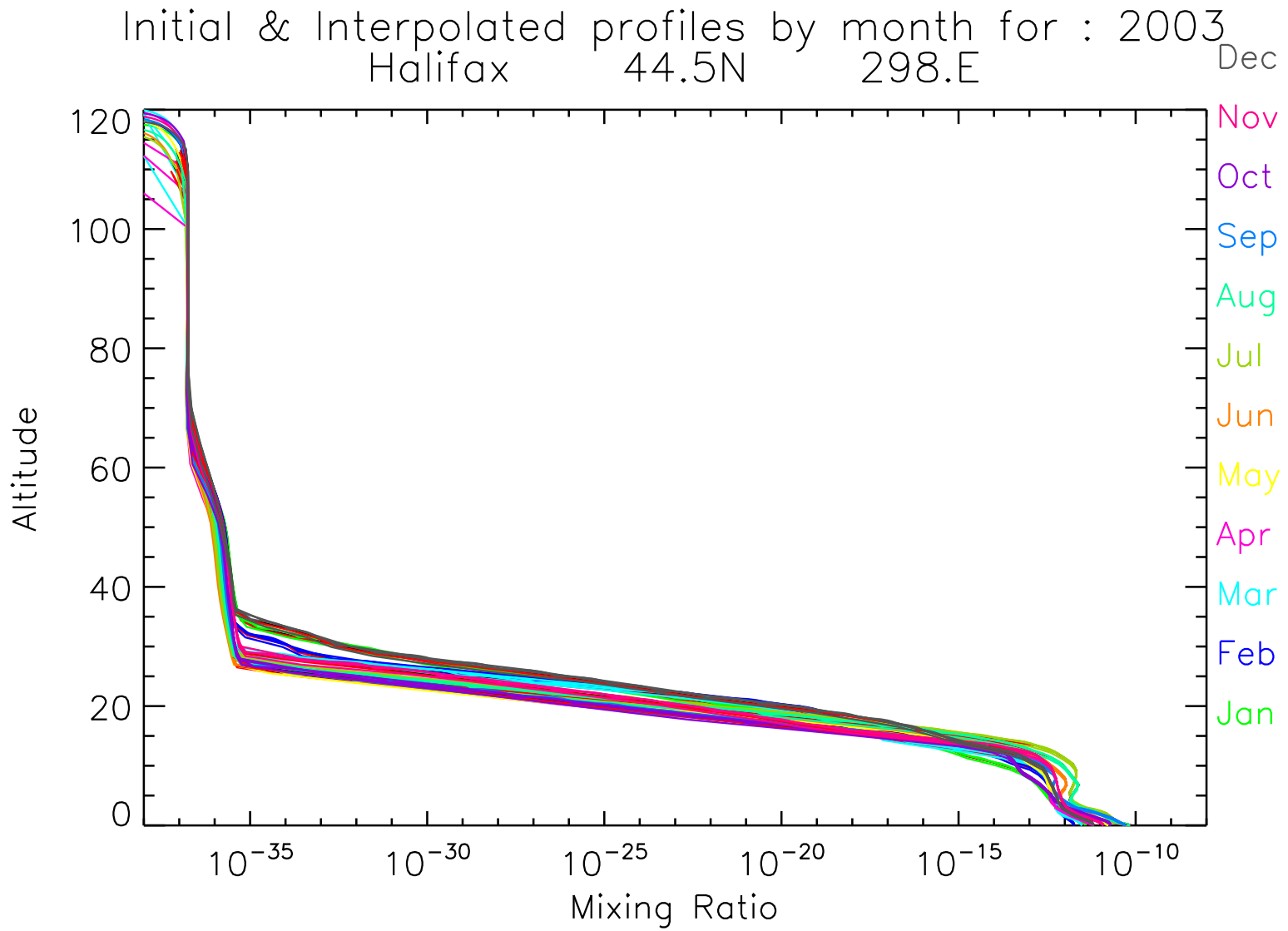
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Halifax 44.5N 298.E
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Altitude
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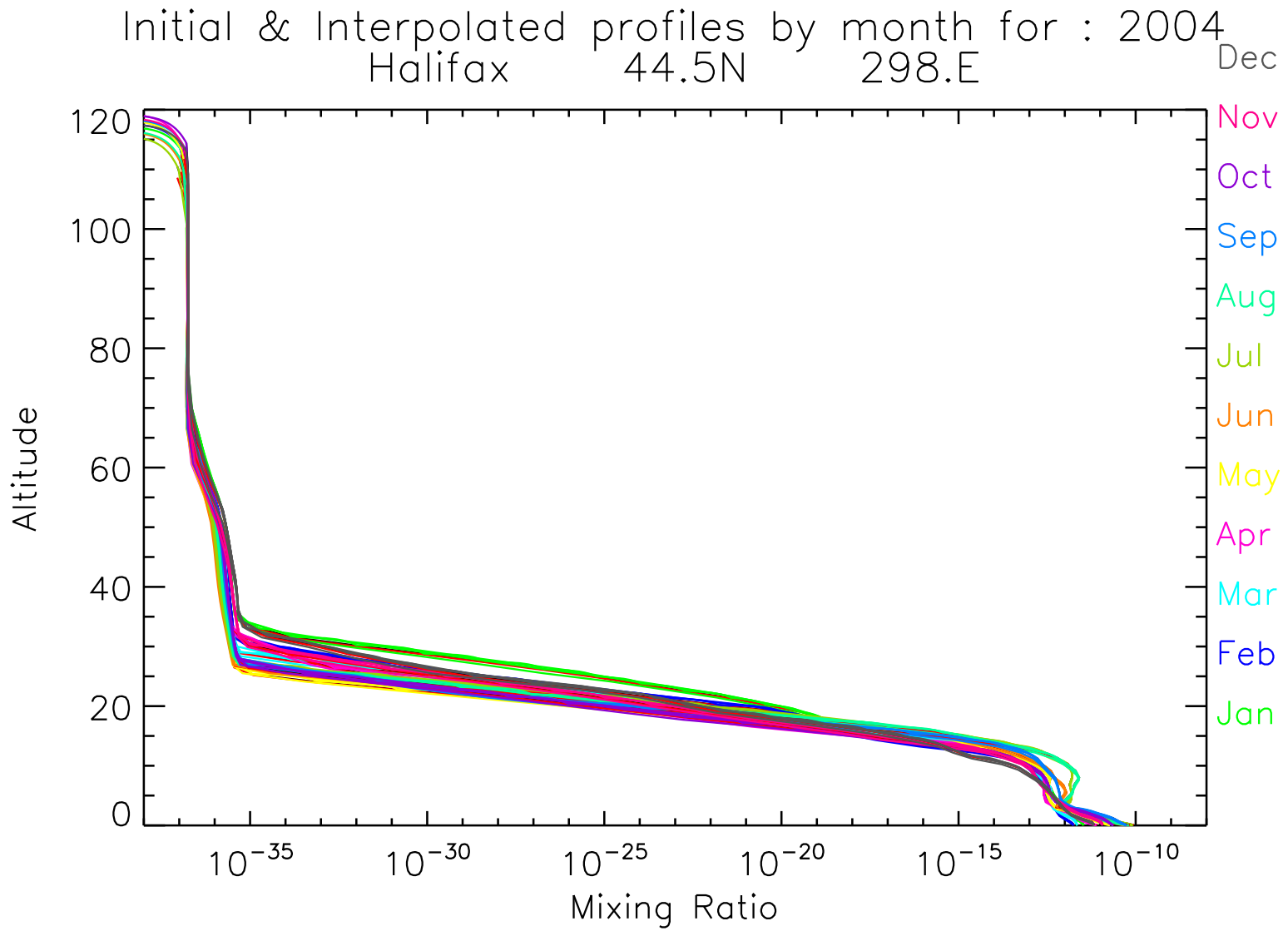
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Halifax 44.5N 298.E
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Altitude
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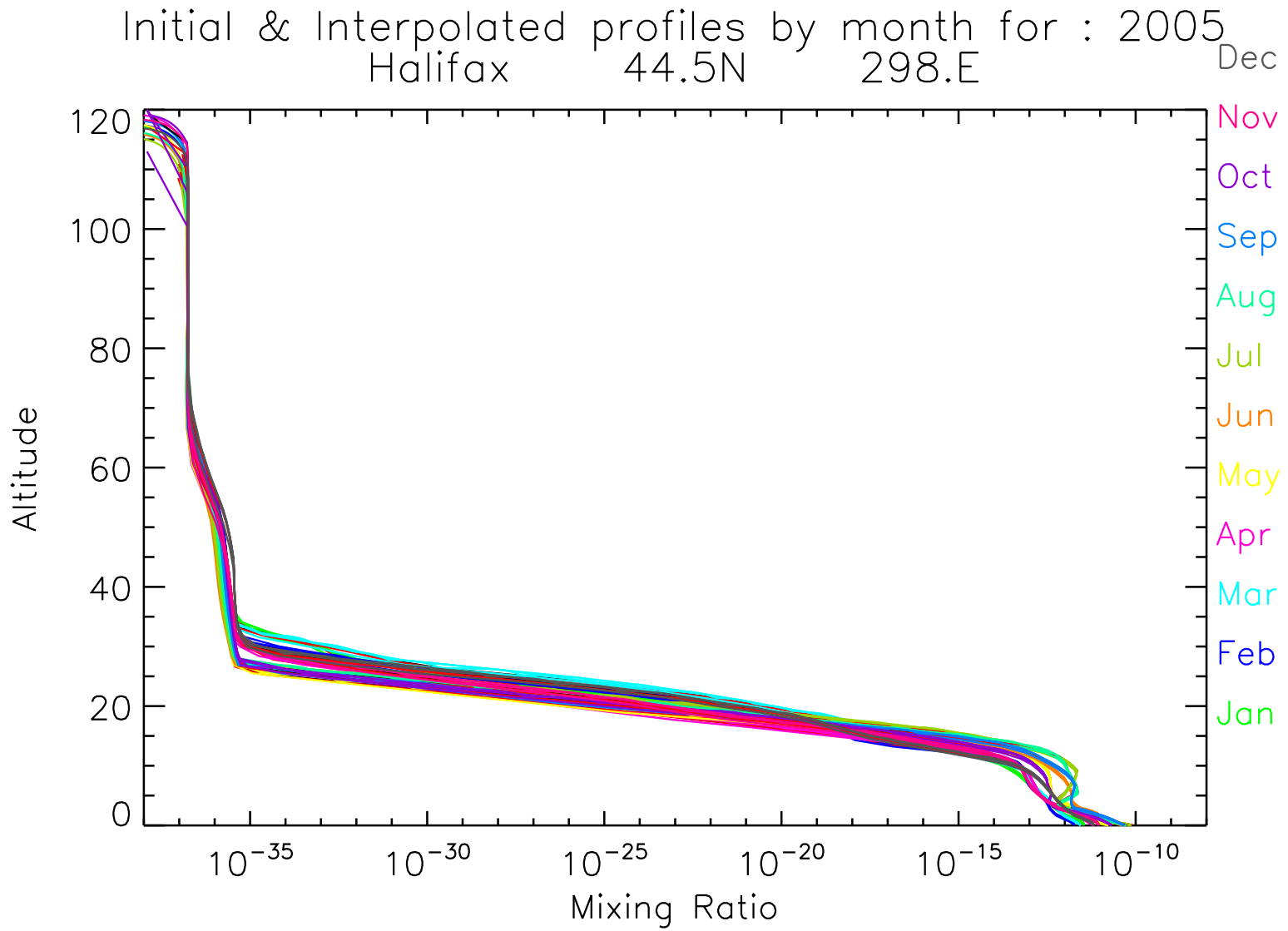
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Halifax 44.5N 298.E
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Altitude
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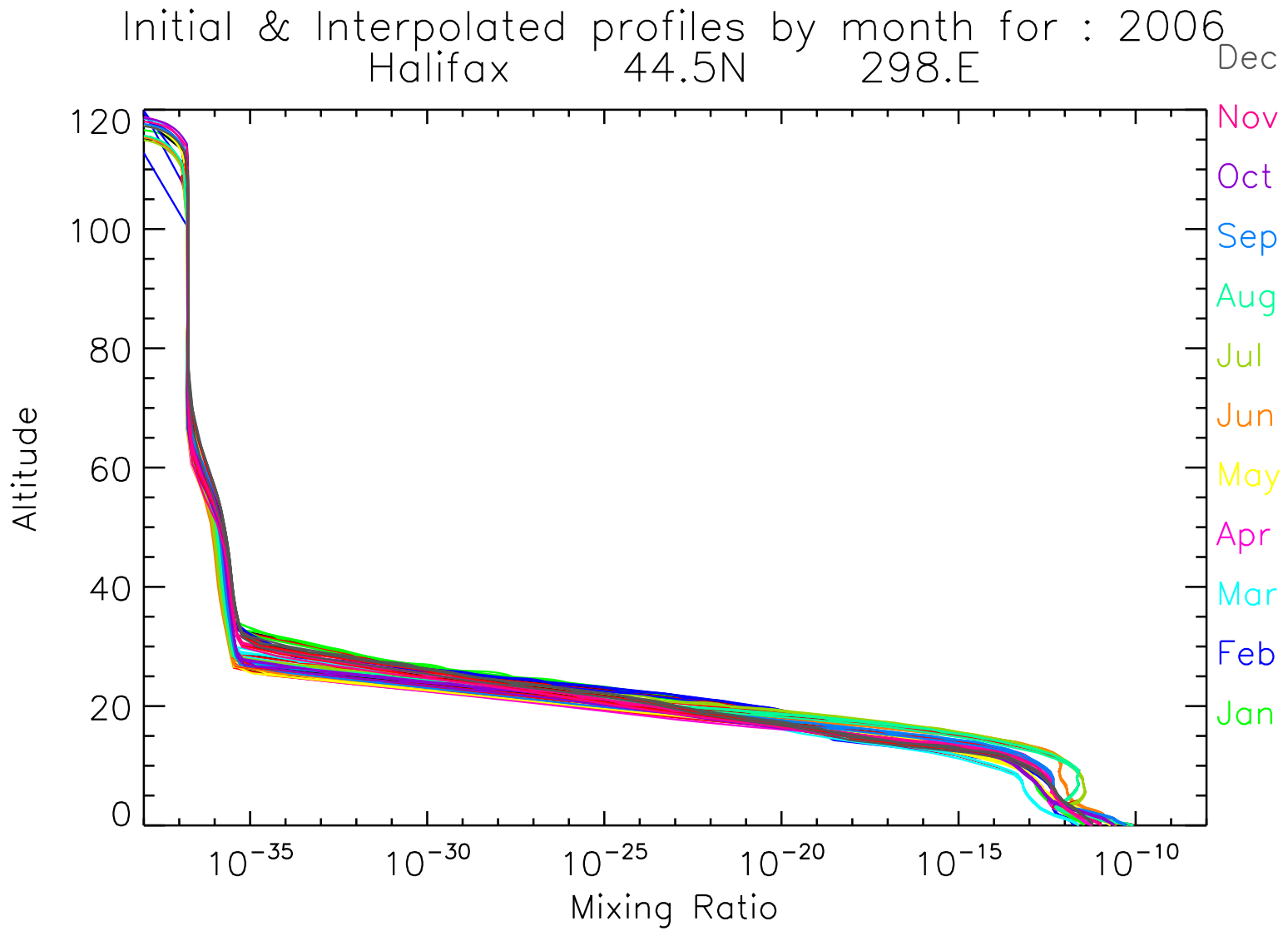
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Halifax 44.5N 298.E
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Altitude
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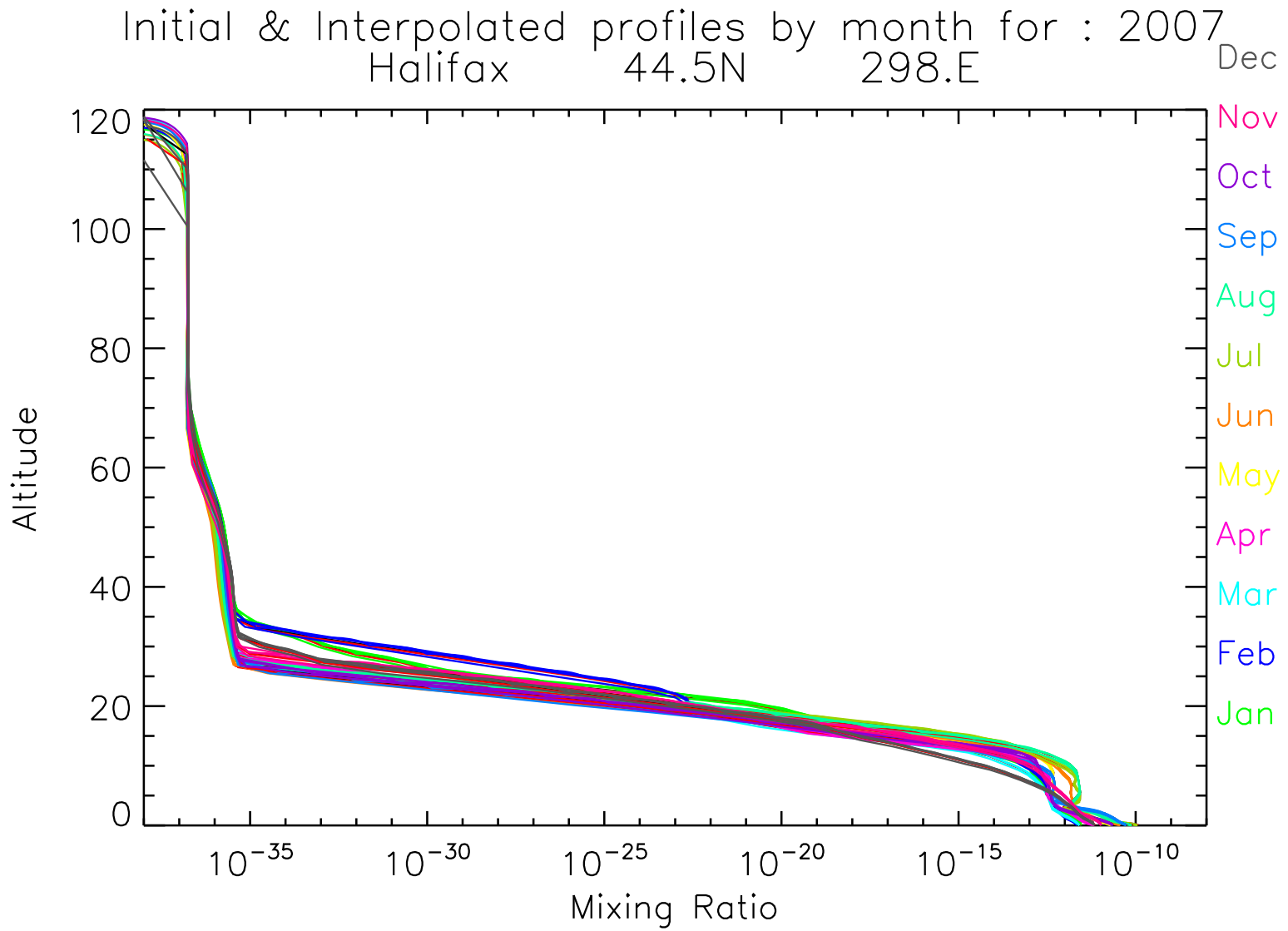
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Halifax 44.5N 298.E
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Altitude
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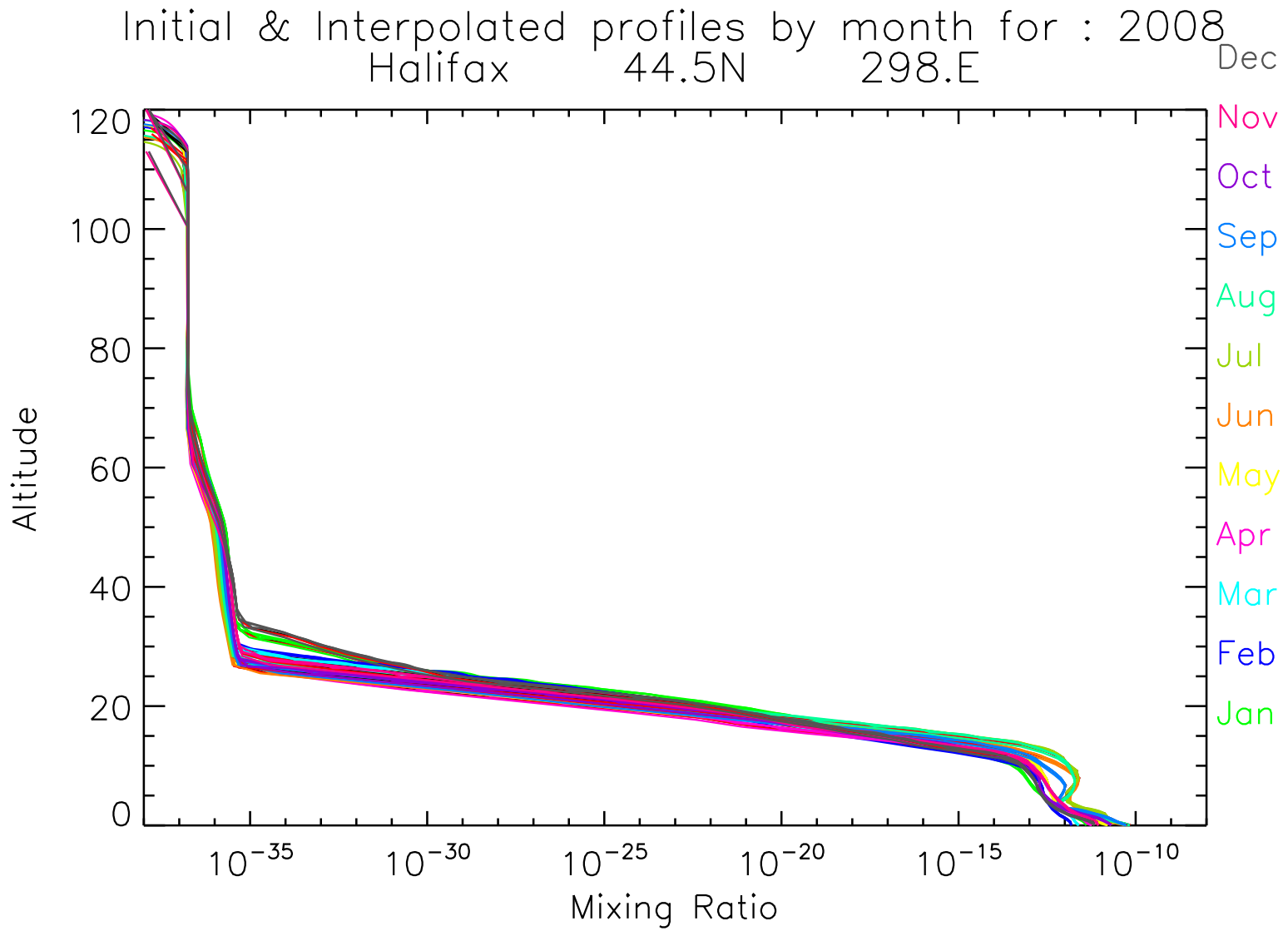
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Halifax 44.5N 298.E
Dec
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Altitude
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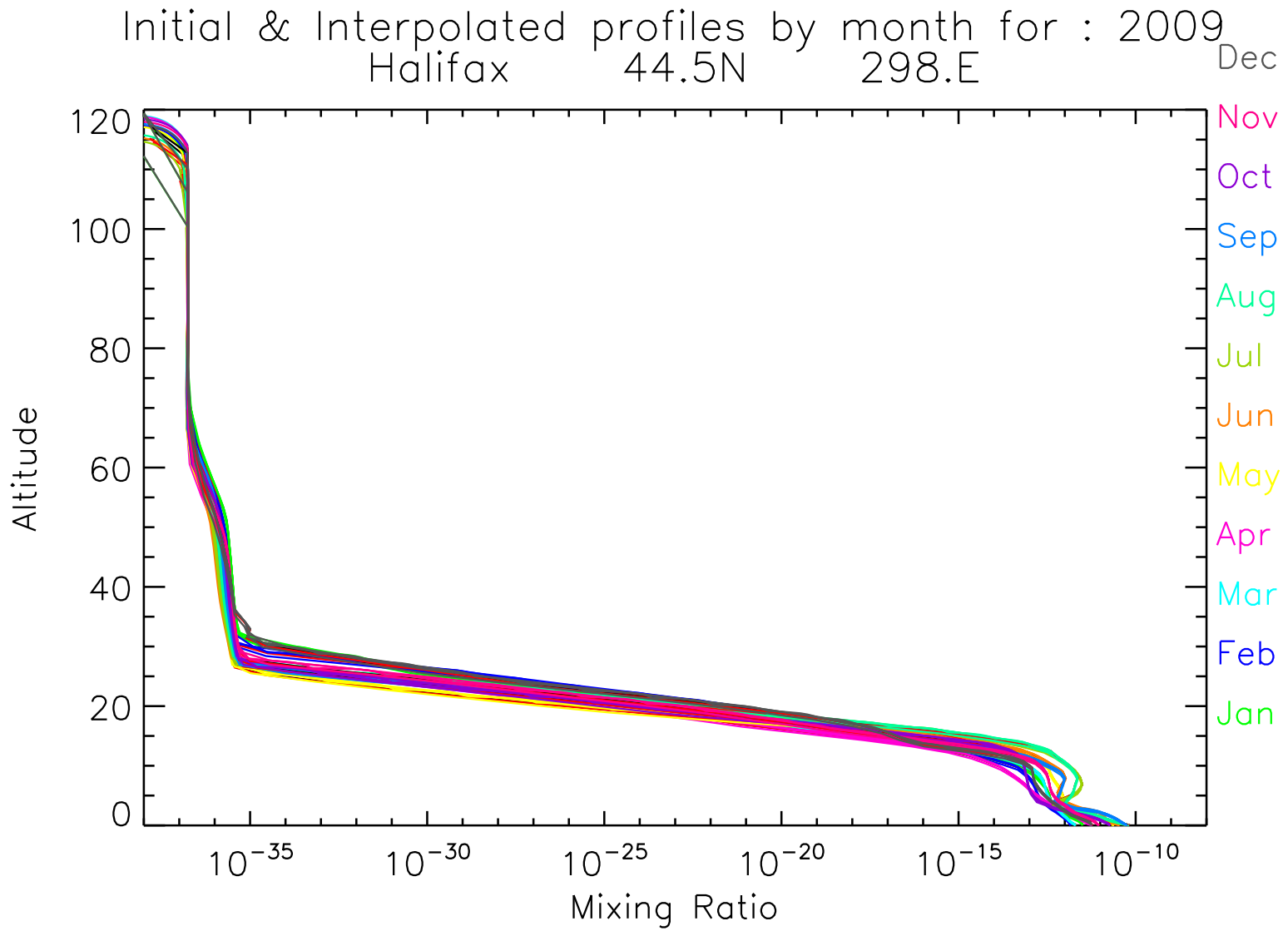
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Halifax 44.5N 298.E
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Altitude
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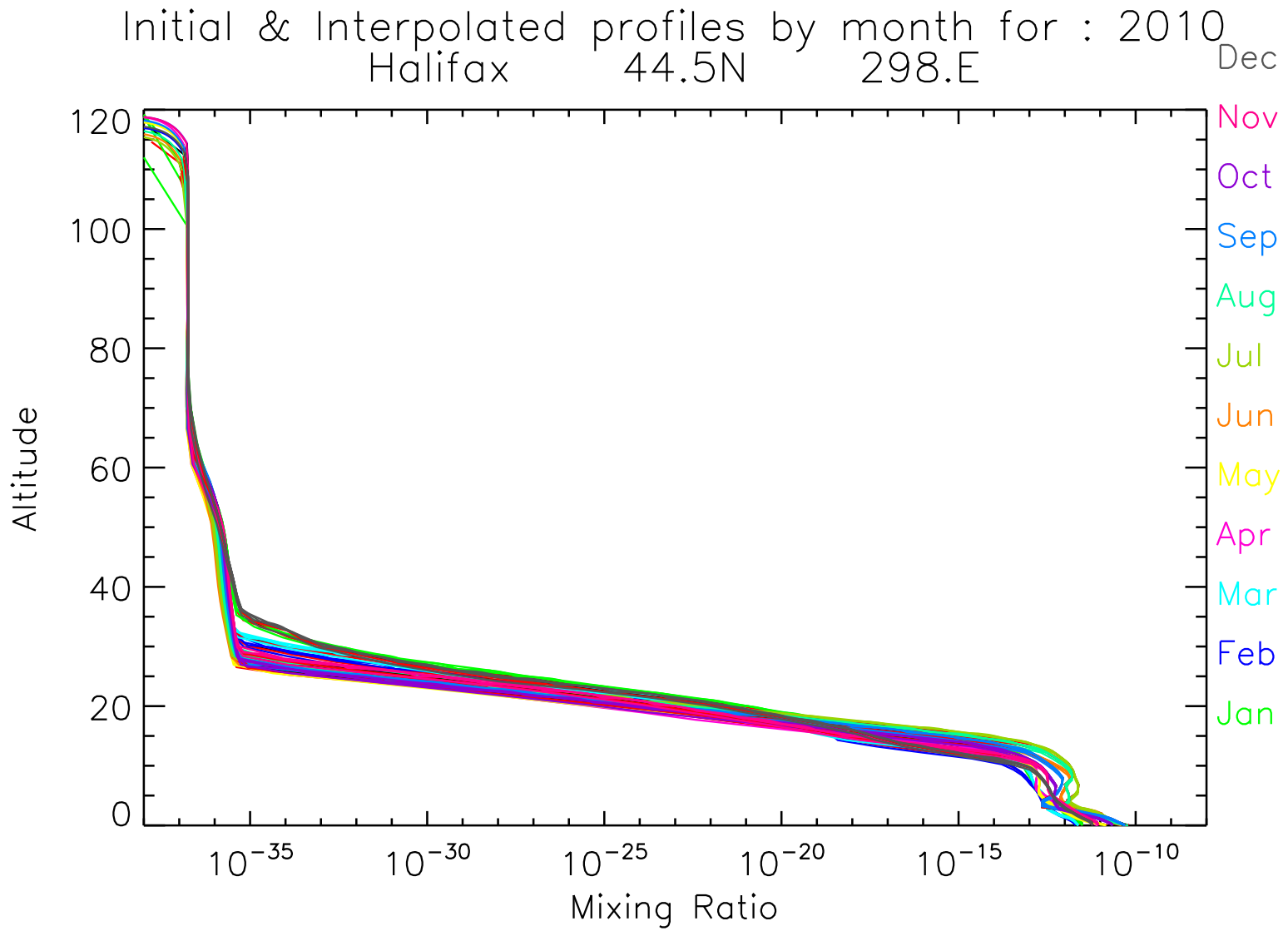
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Halifax 44.5N 298.E
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Altitude
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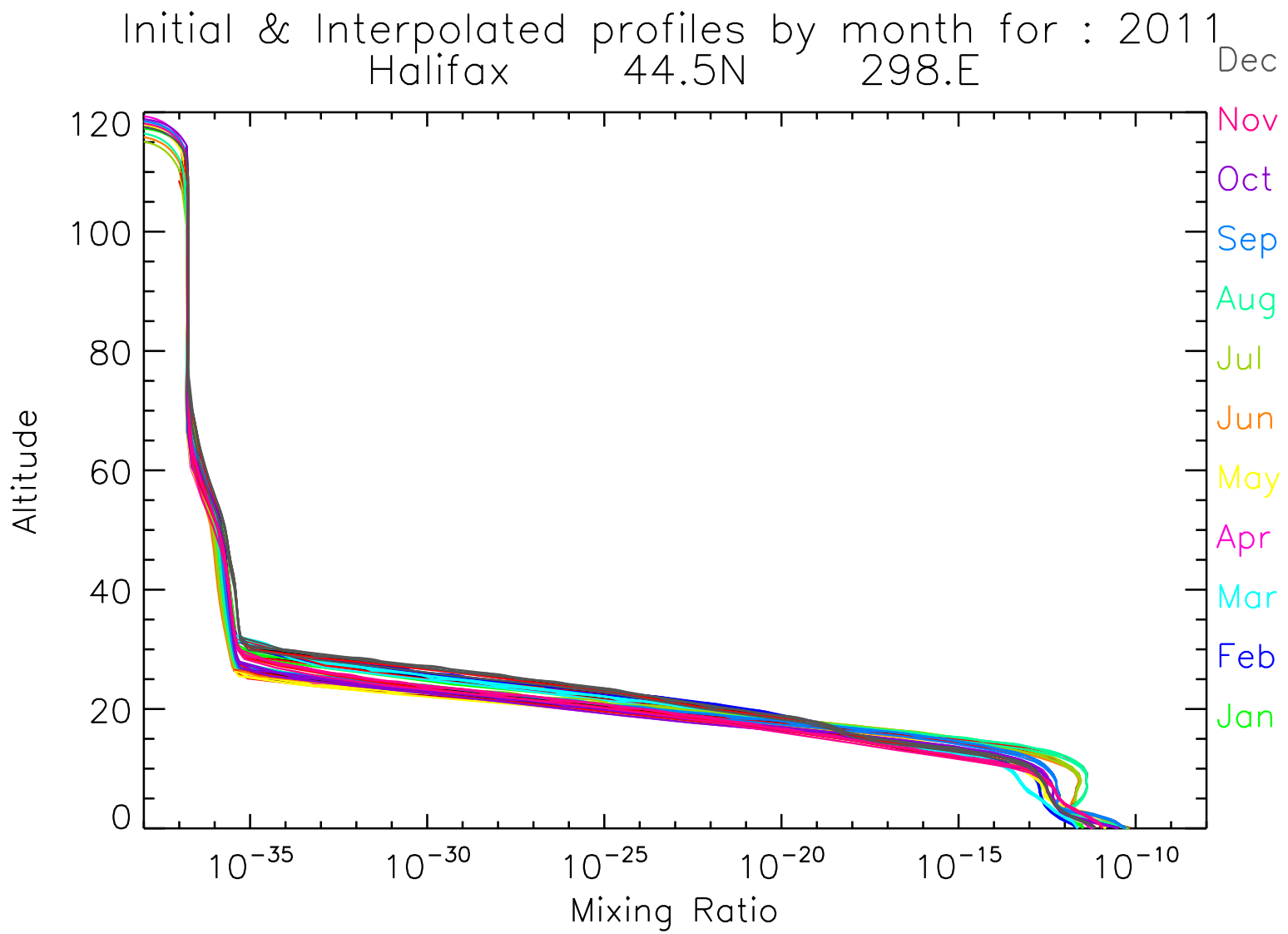
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Halifax 44.5N 298.E
Dec
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Altitude
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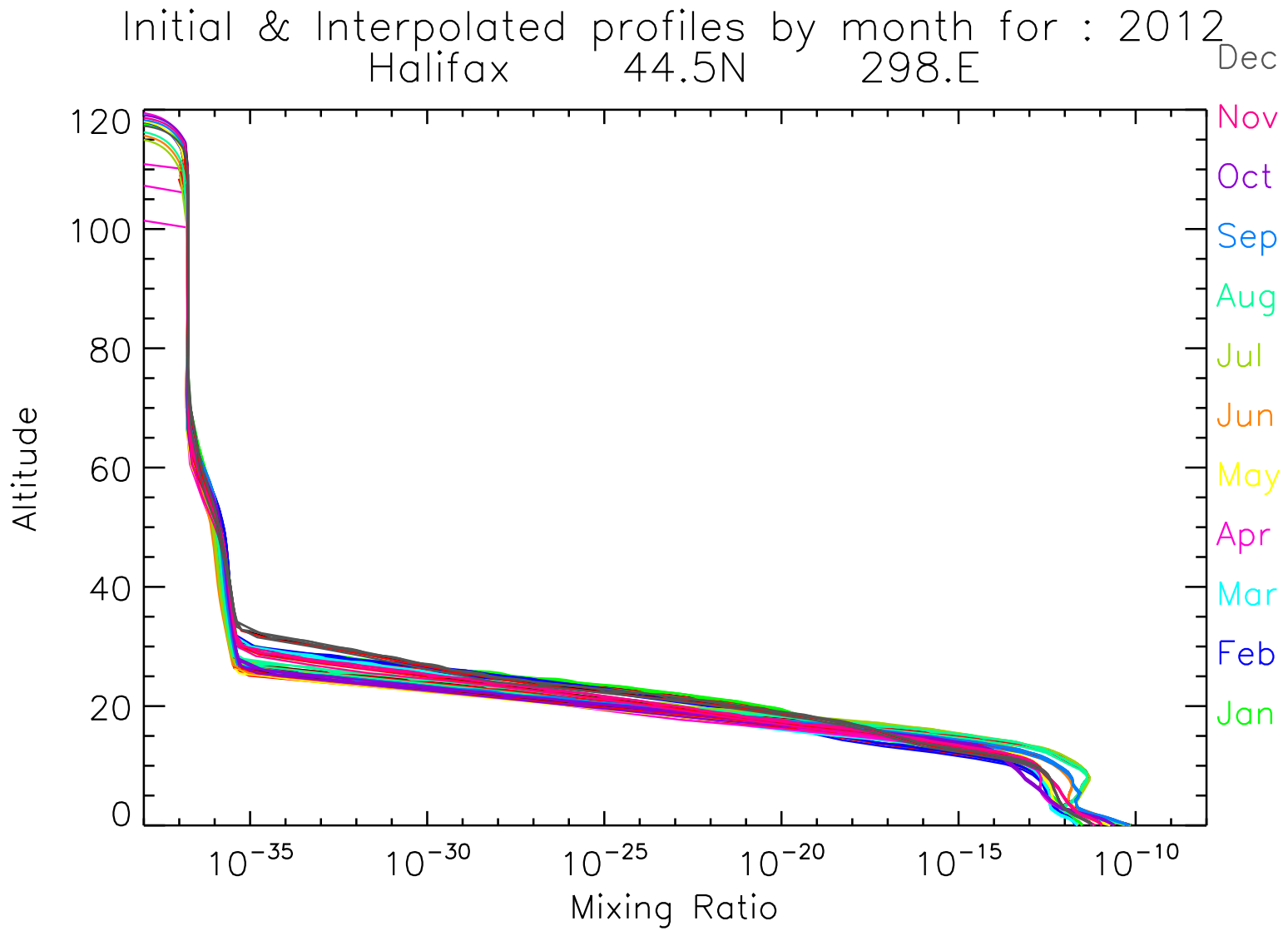
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2012
Halifax 44.5N 298.E
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Altitude
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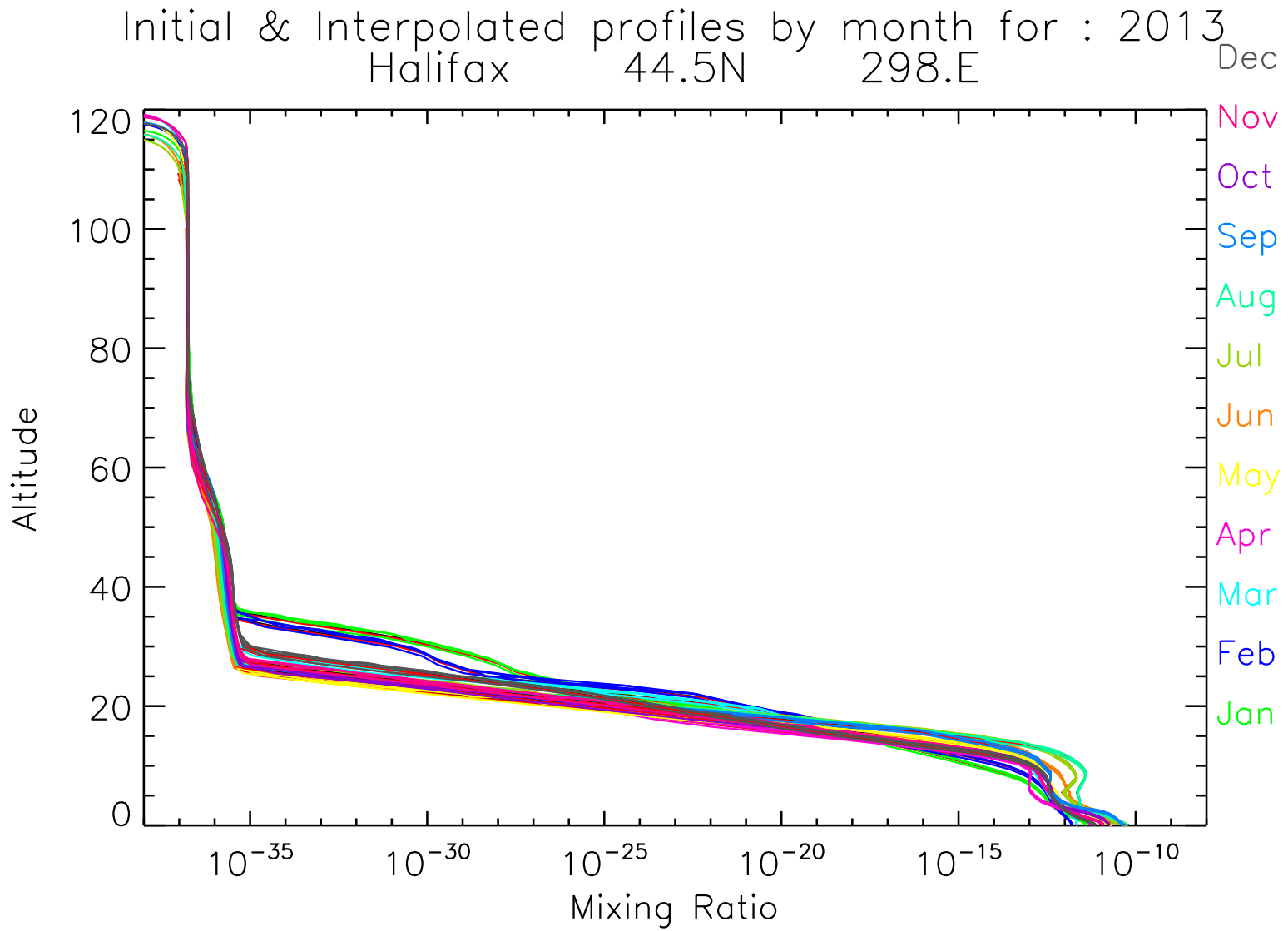
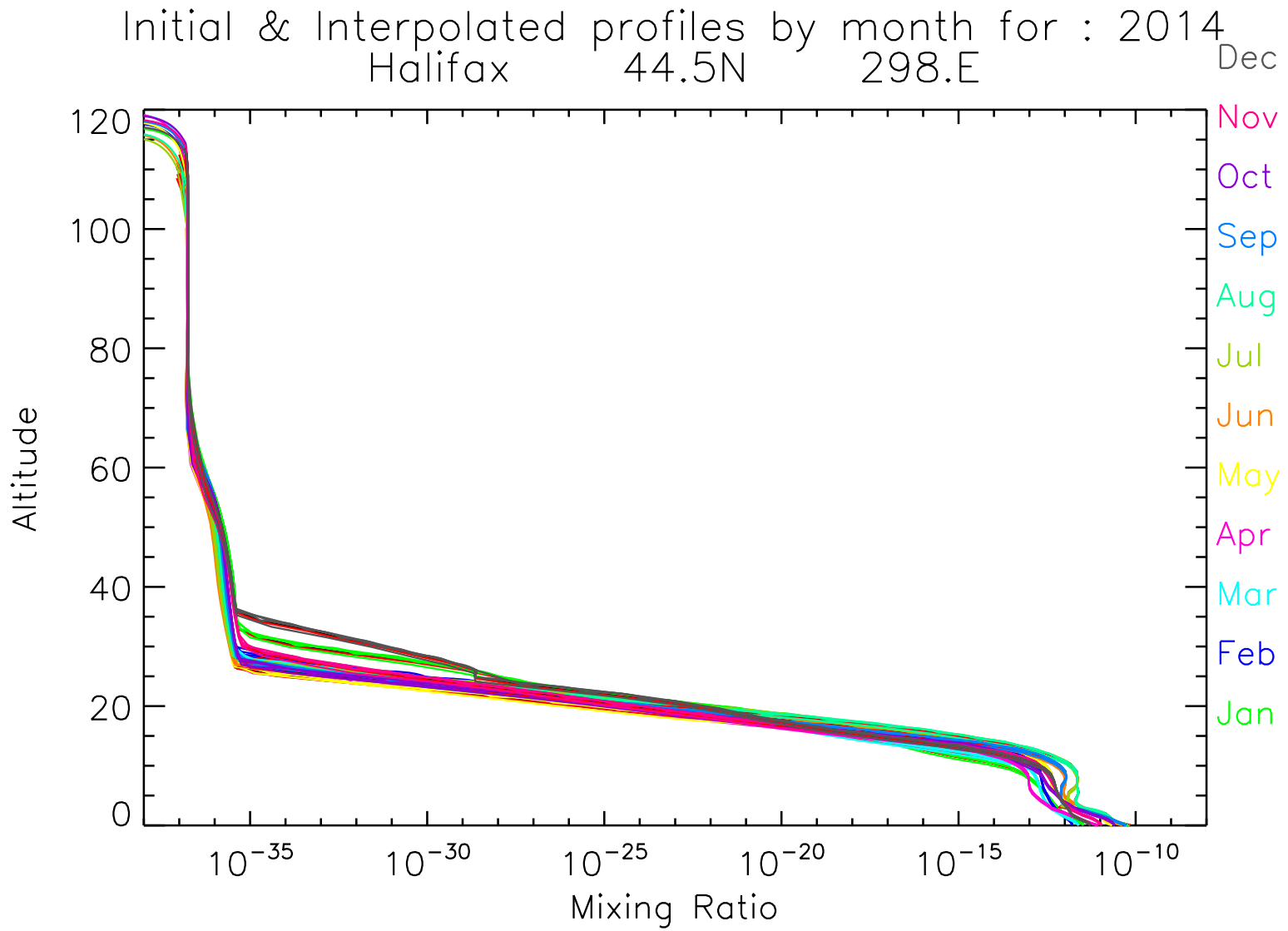
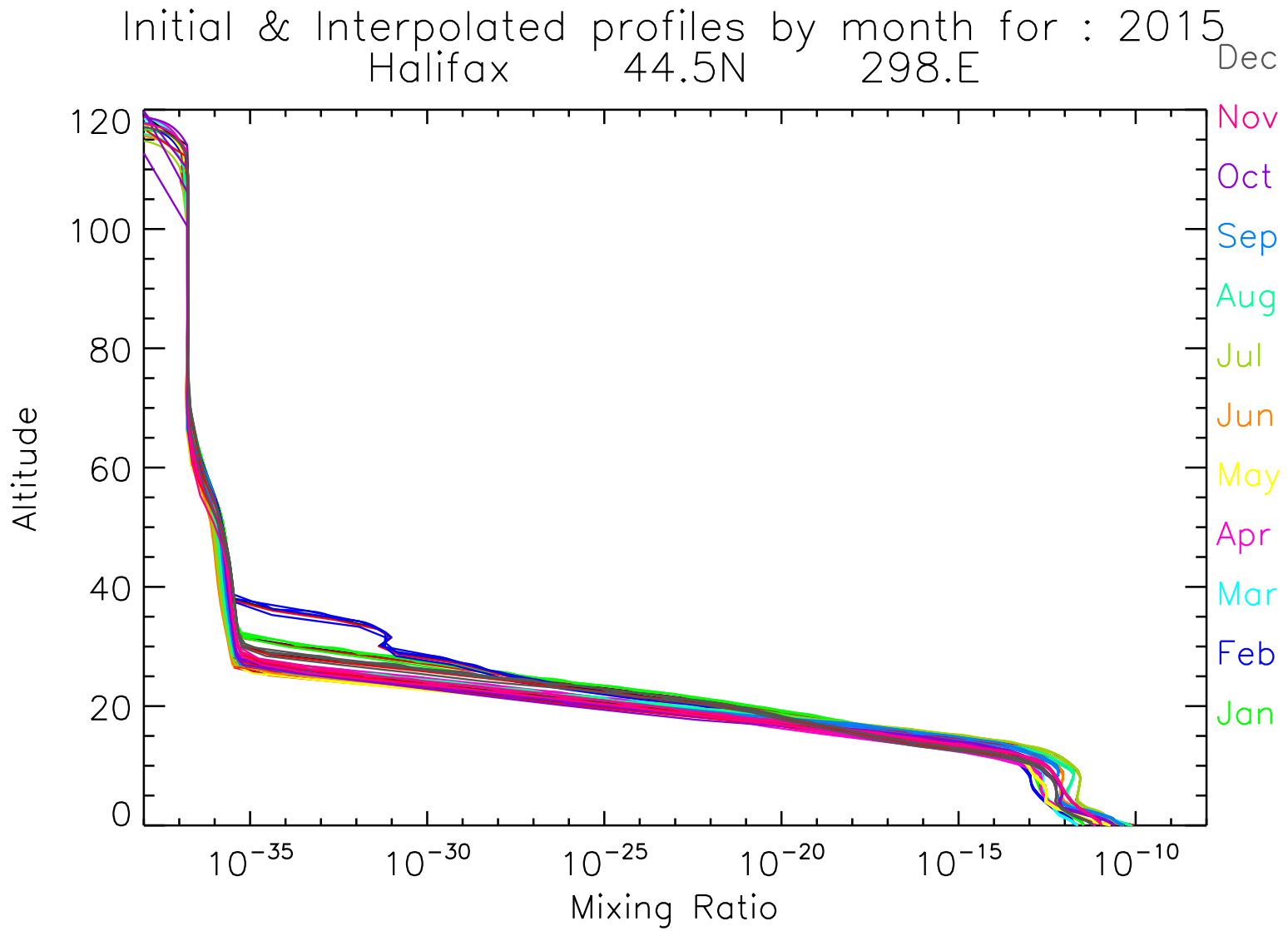
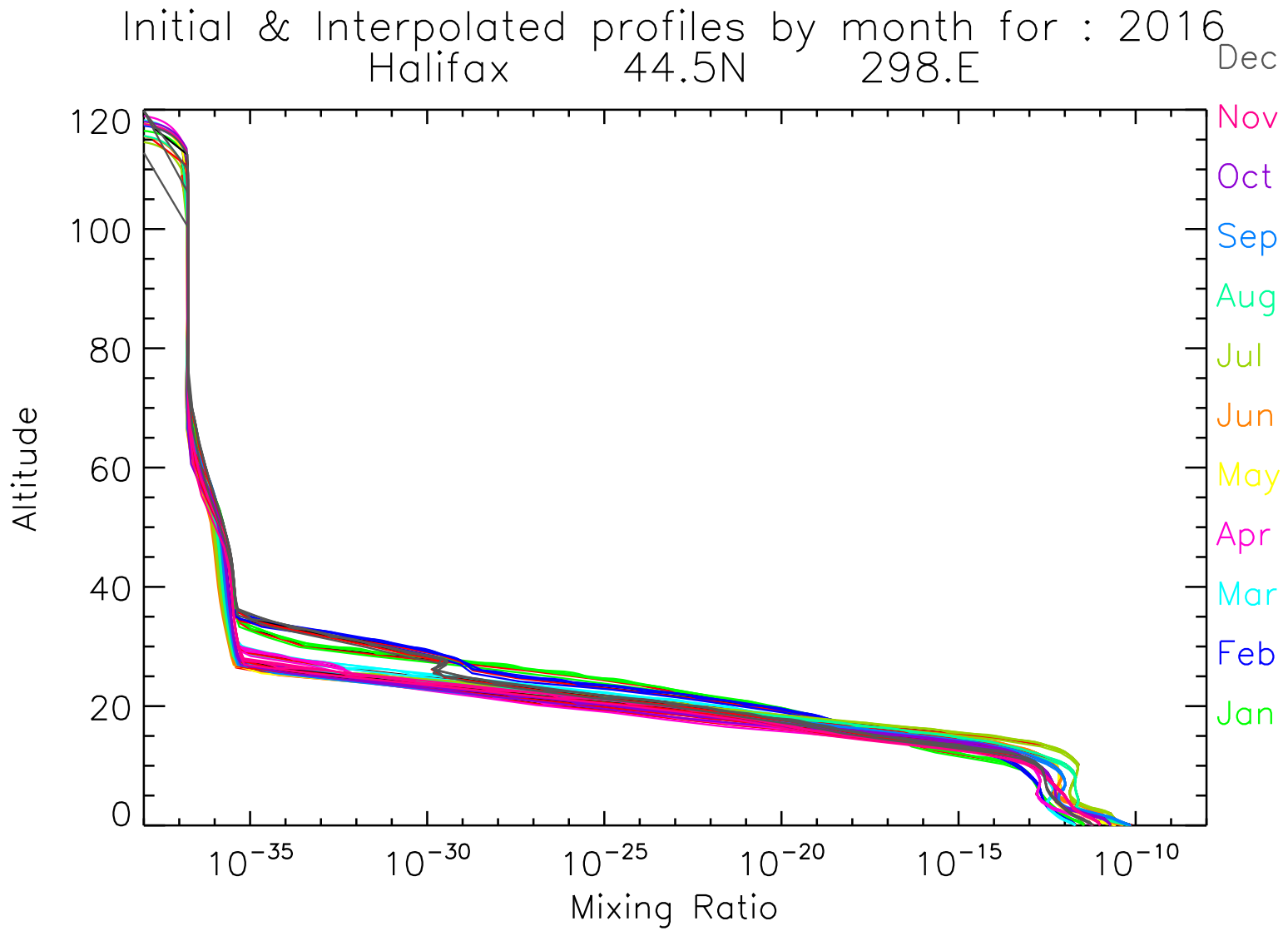
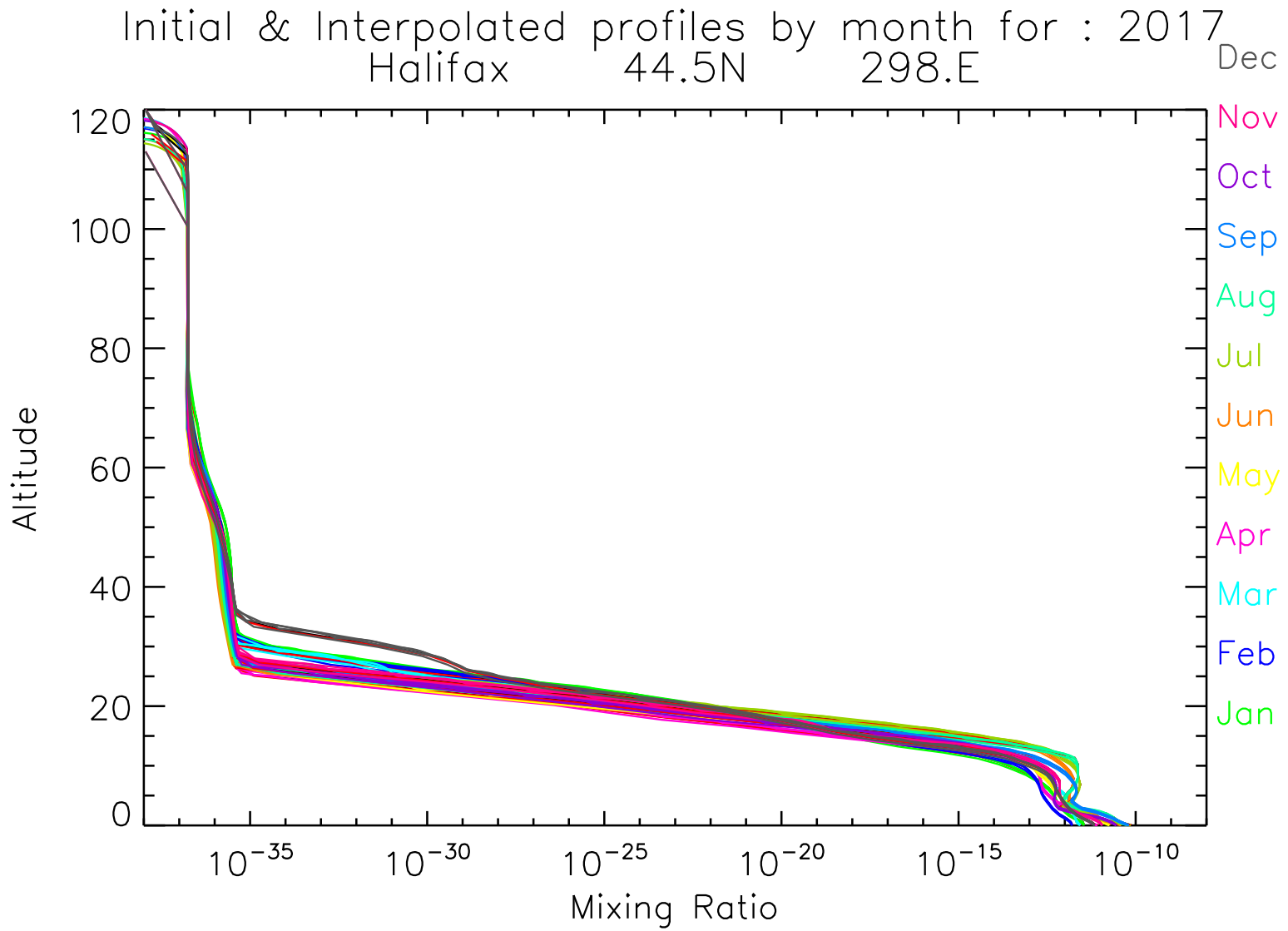
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

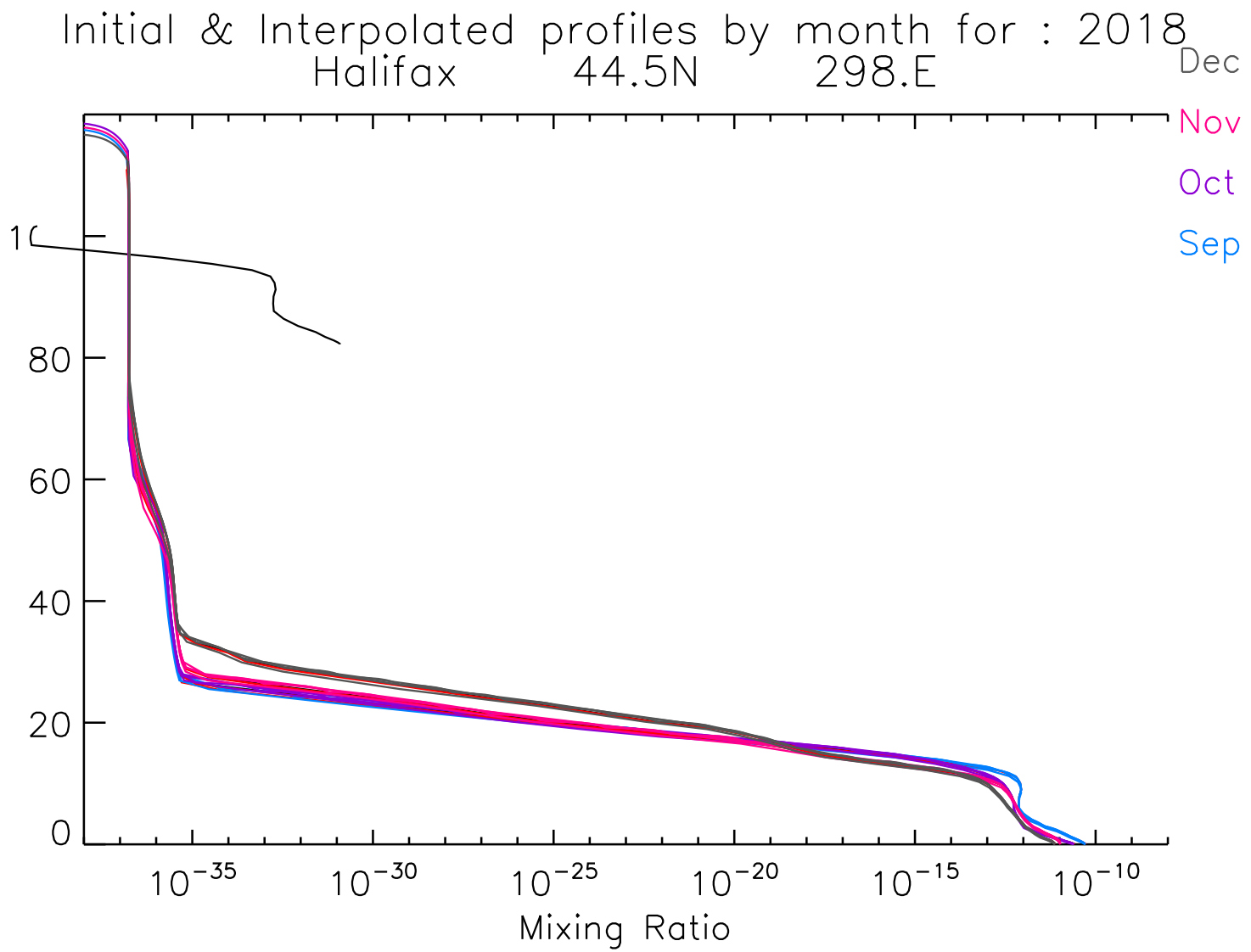

Initial & Interpolated profiles by month for : 2013
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

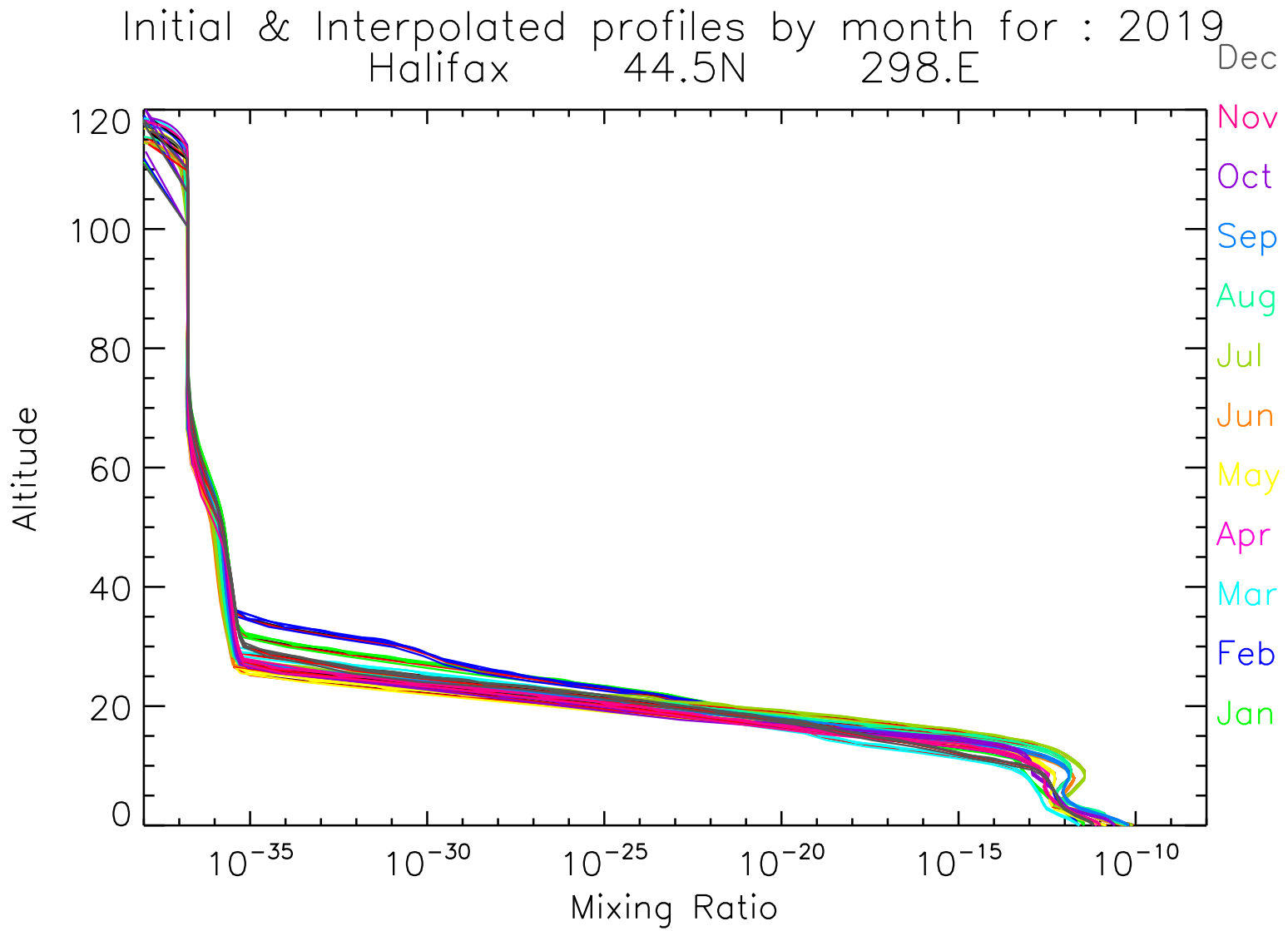

Initial & Interpolated profiles by month for : 2014
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

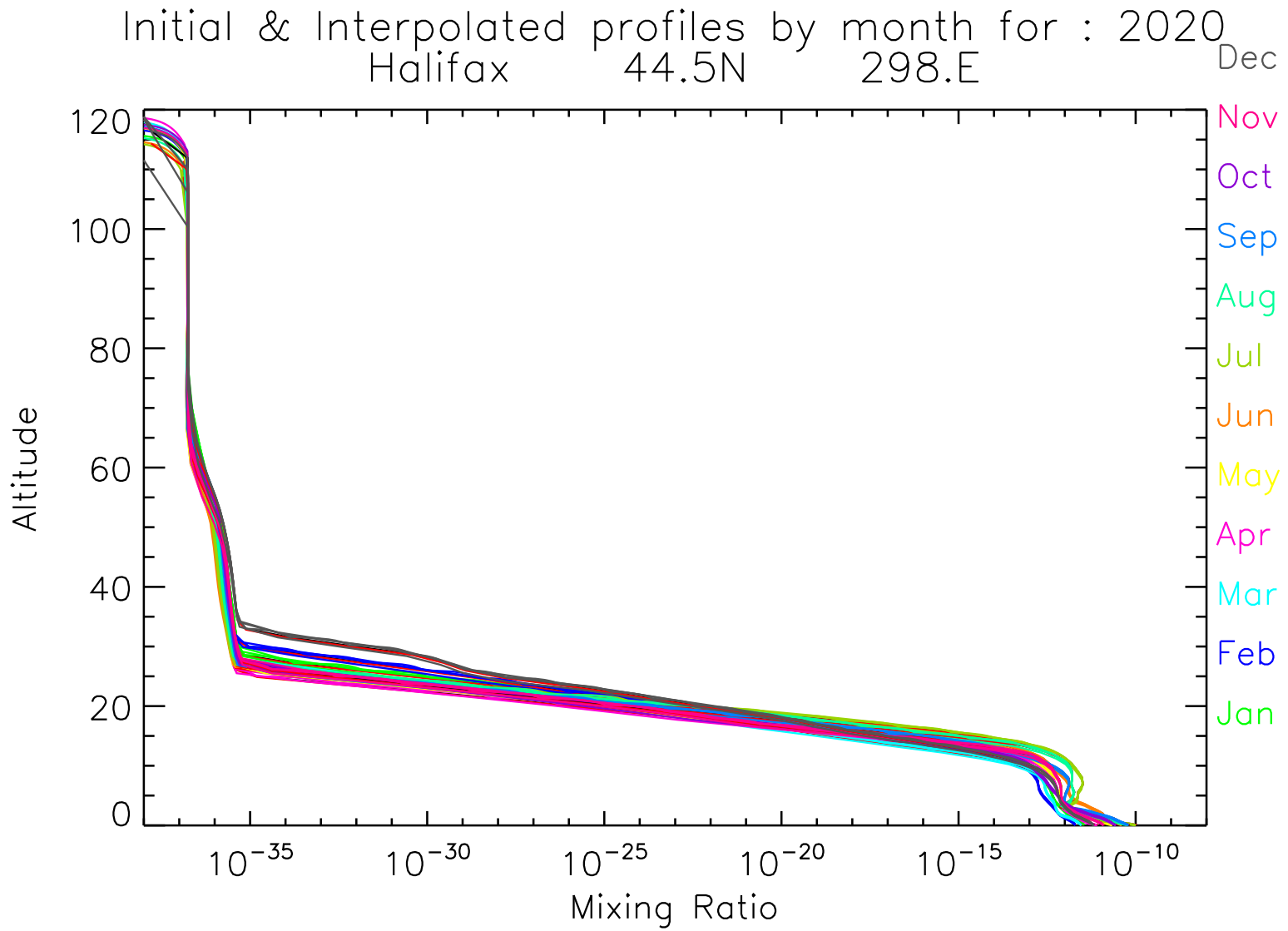

Initial & Interpolated profiles by month for : 2015
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

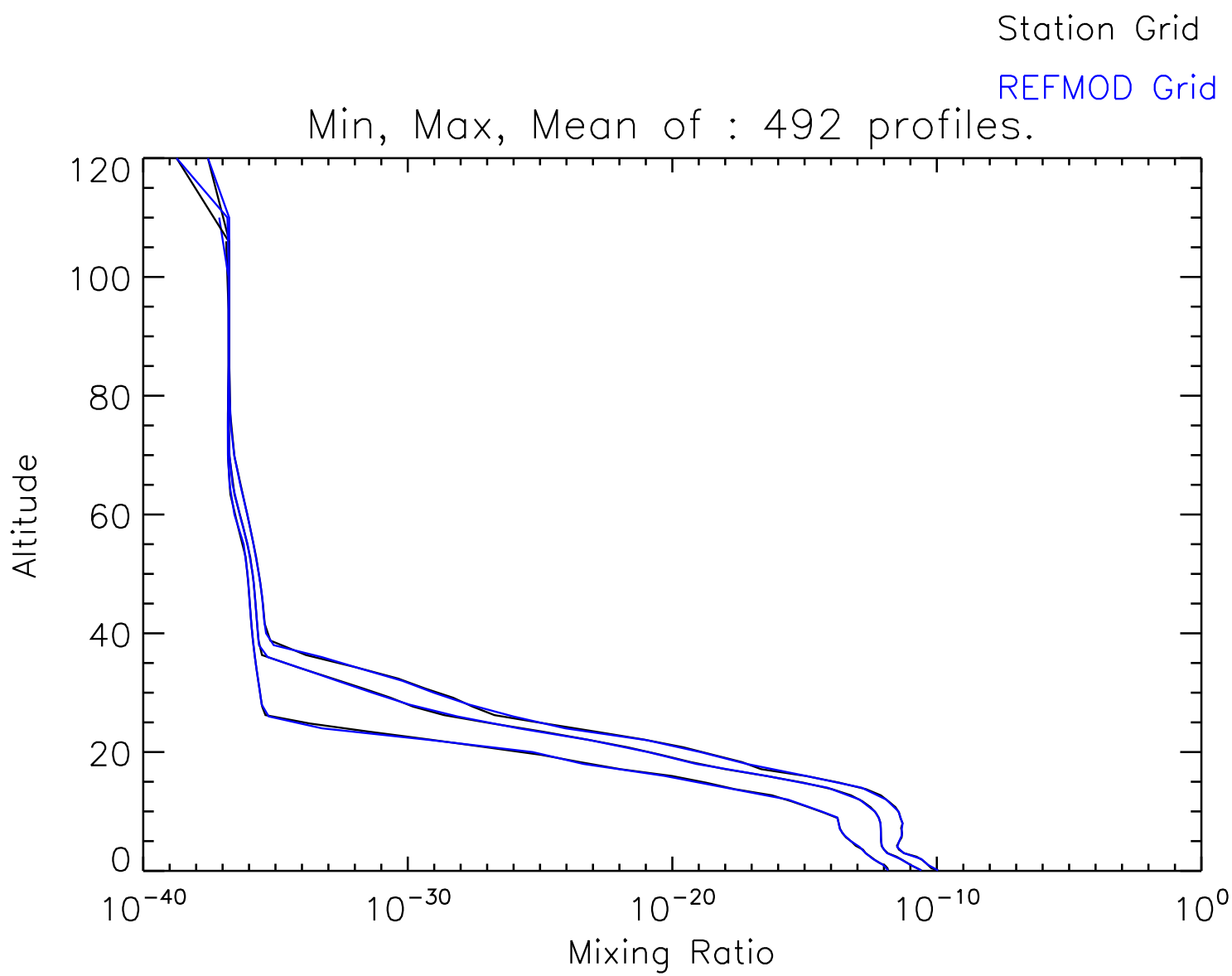

Initial & Interpolated profiles by month for : 2016
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

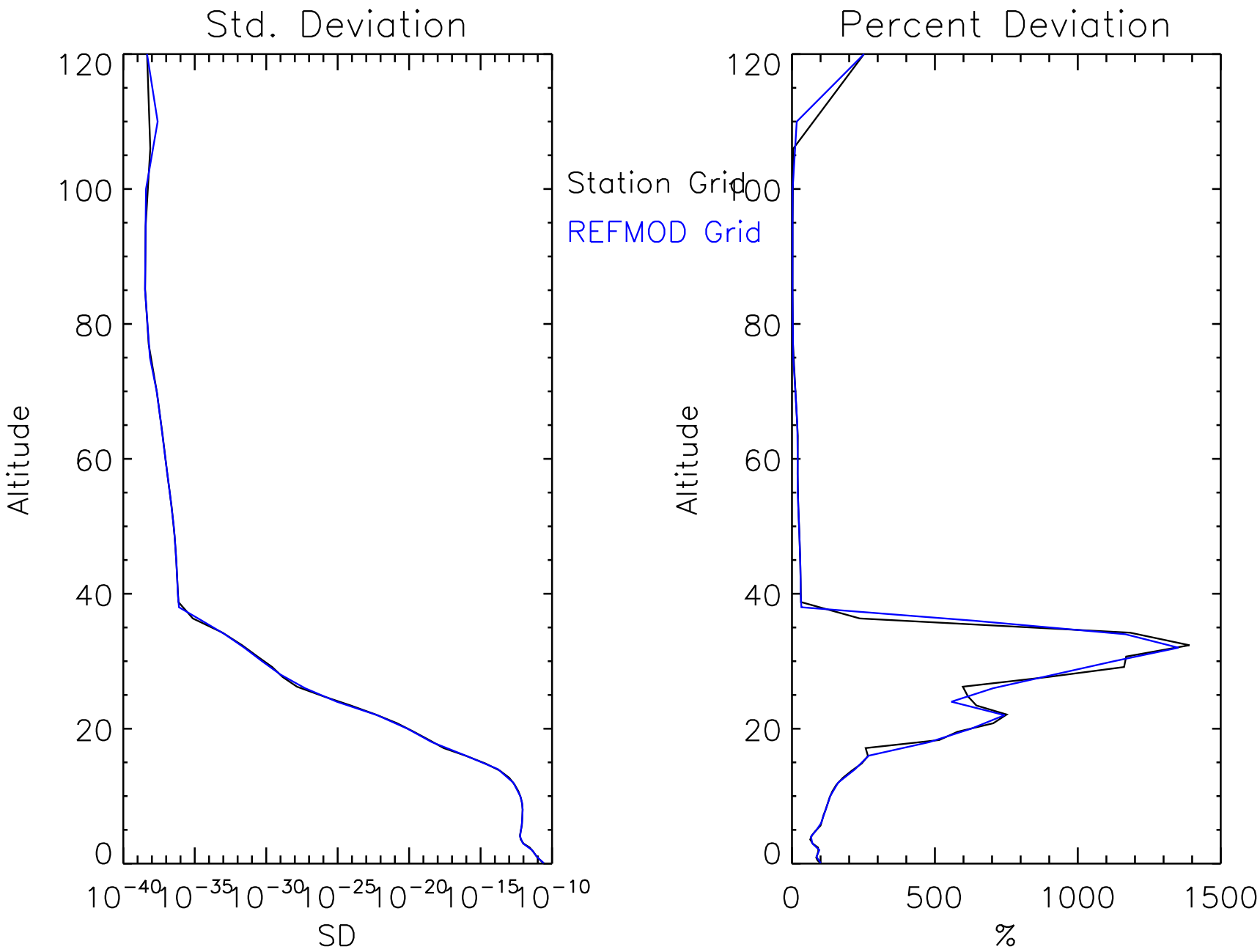

Initial & Interpolated profiles by month for : 2017
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

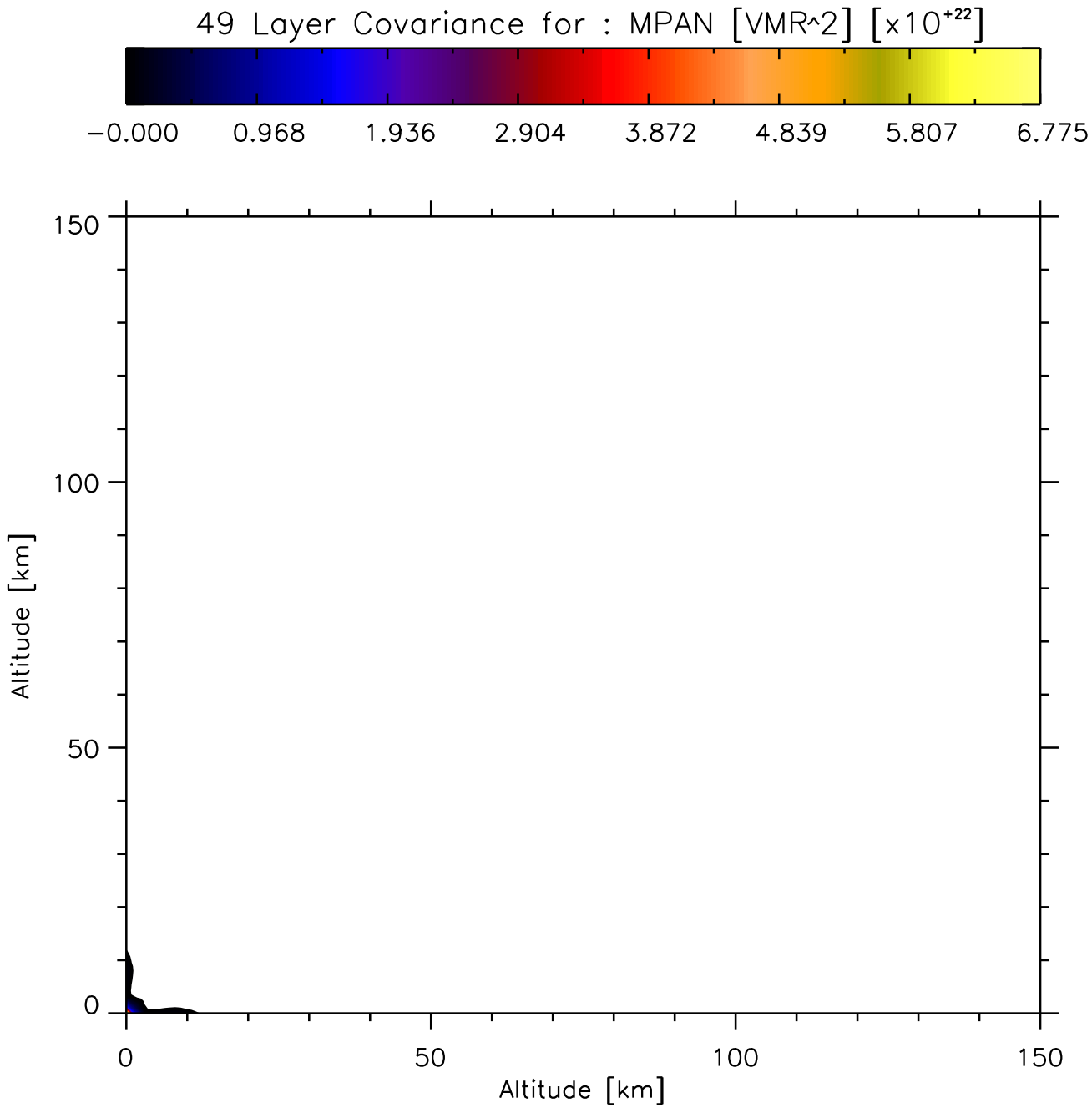

Initial & Interpolated profiles by month for : 2018
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

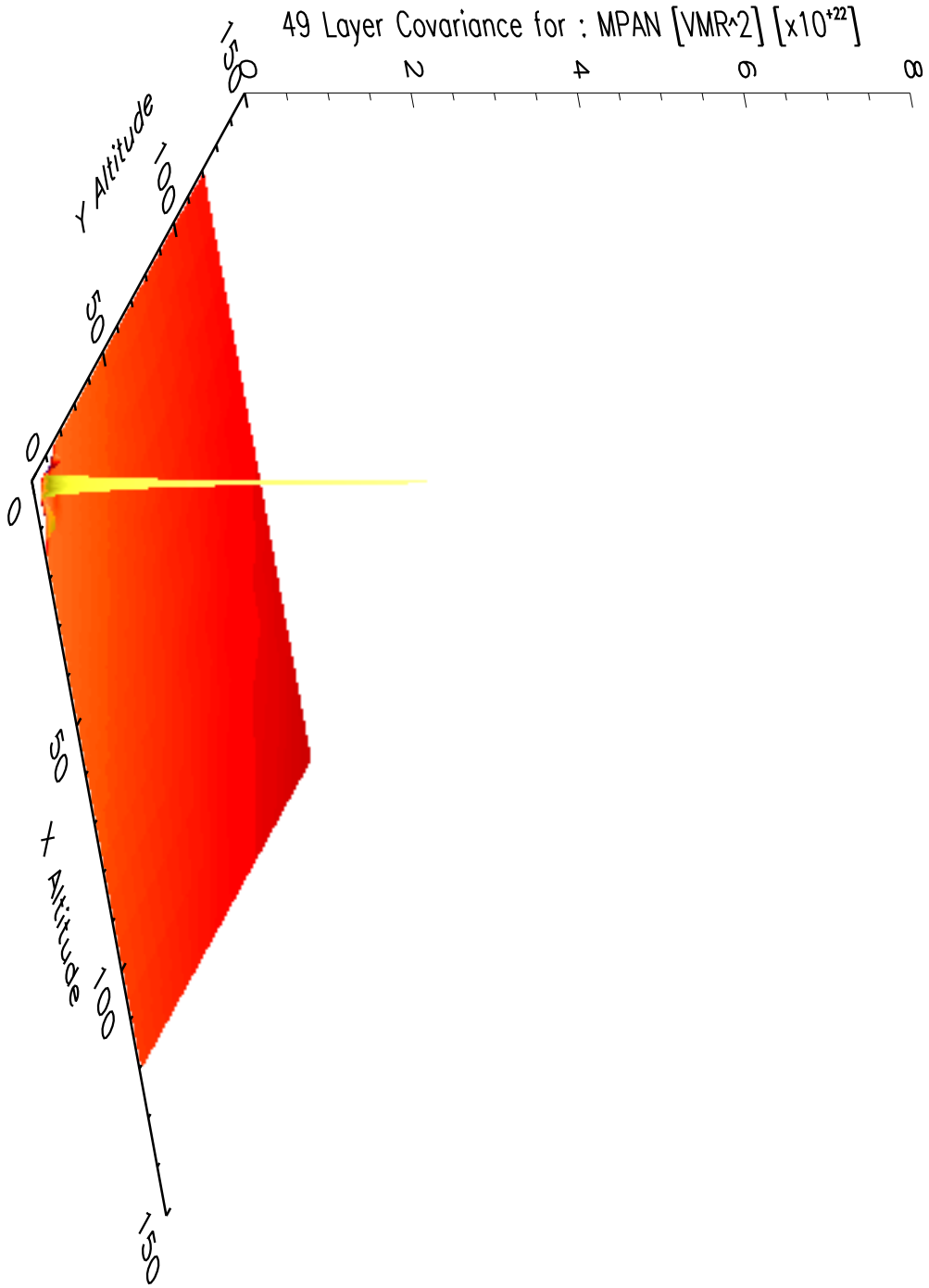

Initial & Interpolated profiles by month for : 2019
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

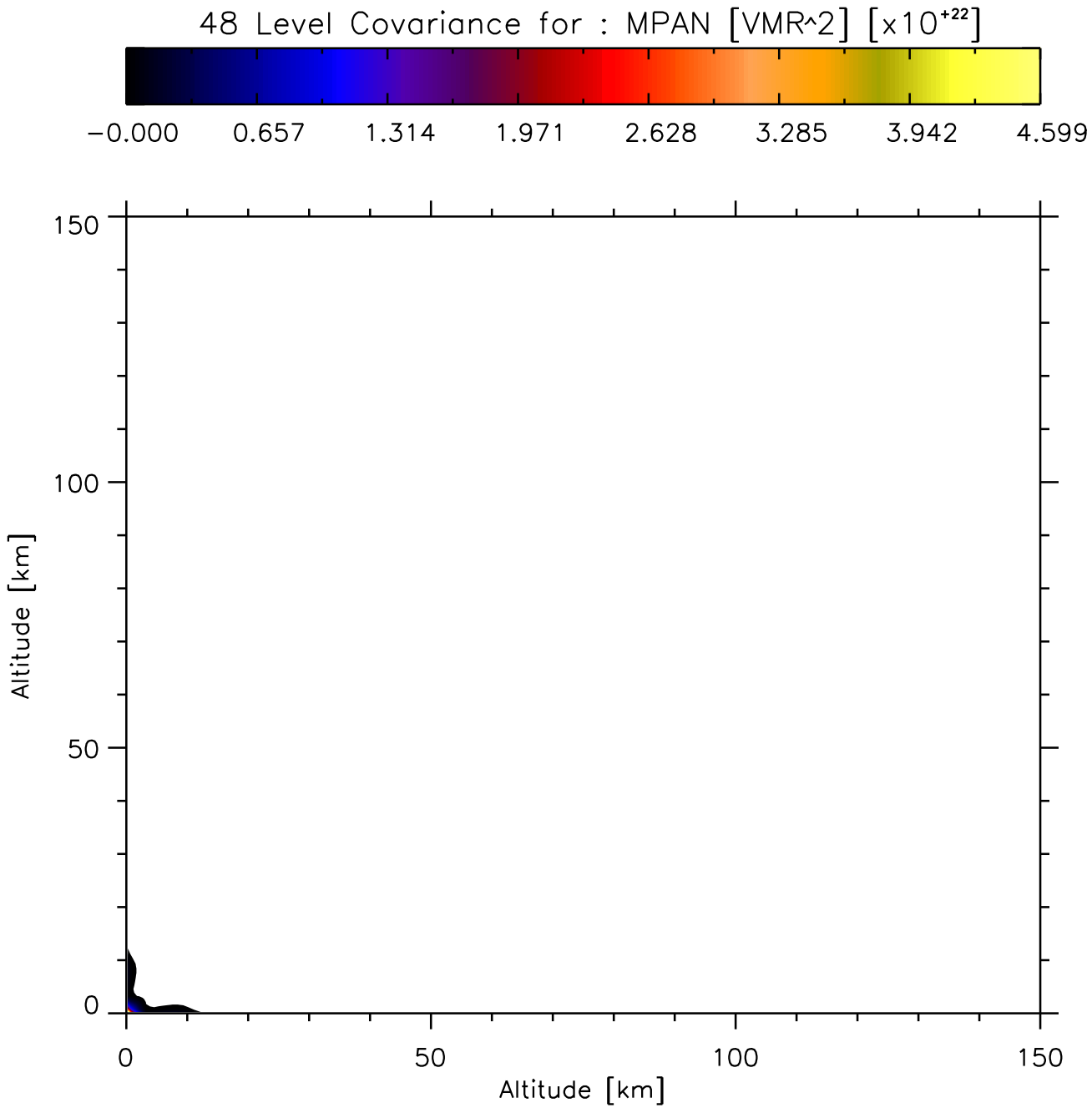

Initial & Interpolated profiles by month for : 2020
Halifax 44.5N 298.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

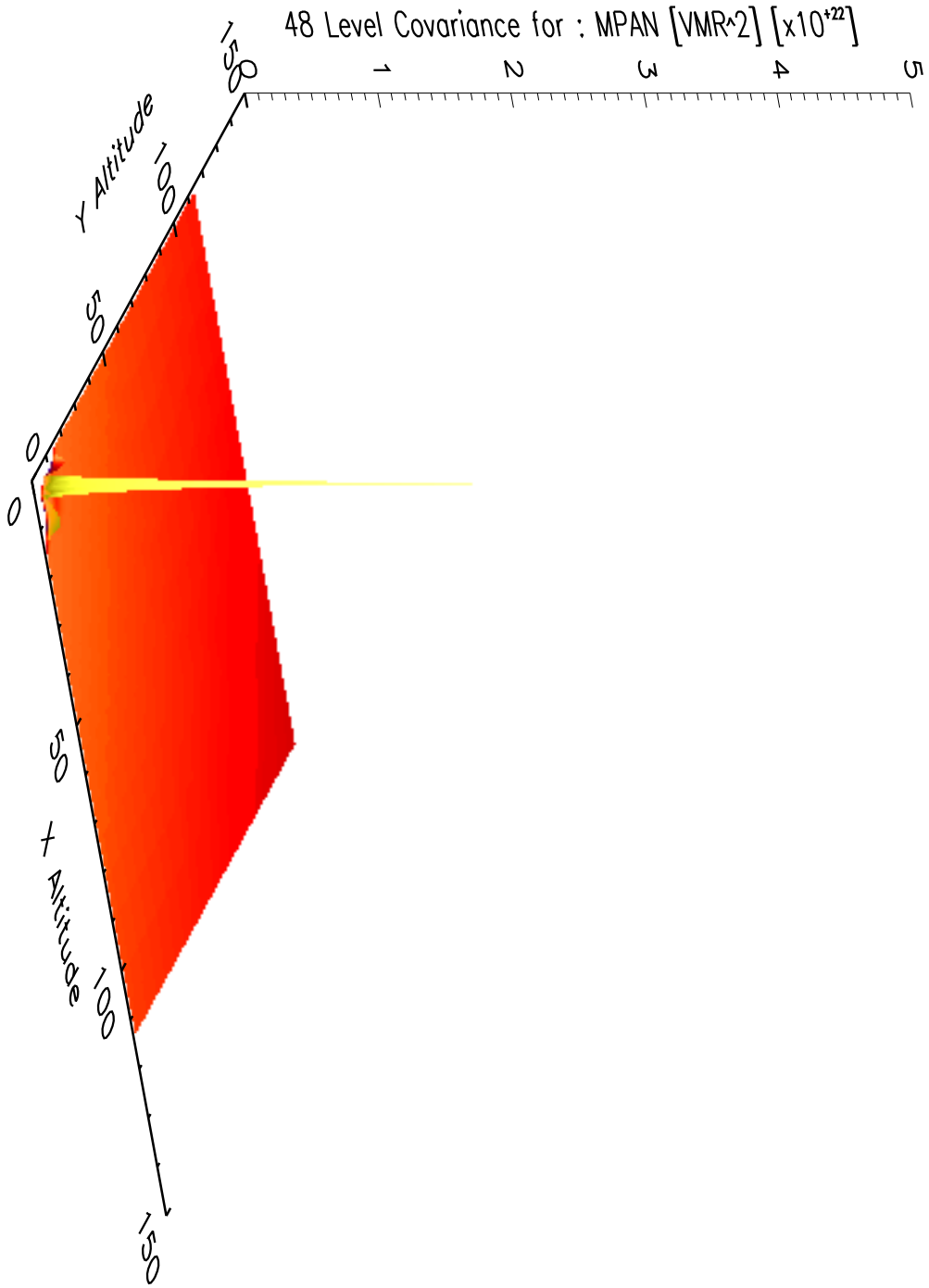

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-40}
10^{-30}
10^{-20}
10^{-10}
10^{0}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-40} 10^{-35} 10^{-30} 10^{-25} 10^{-20} 10^{-15} 10^{-10}
SD
0
500
1000
1500
%


49 Layer Covariance for : MPAN [VMR^2] [x10^+22]
−0.000
0.968
1.936
2.904
3.872
4.839
5.807
6.775
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


49 Layer Covariance for : MPAN [VMR^2] [x10^+22]
0
2
4
6
8
Y Altitude
150
100
50
0
0
50
100
150
X Altitude


48 Level Covariance for : MPAN [VMR^2] [x10^+22]
−0.000
0.657
1.314
1.971
2.628
3.285
3.942
4.599
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Level Covariance for : MPAN [VMR^2] [x10^+22]
y Altitude
x Altitude
0
50
100
150
1
2
3
4
5