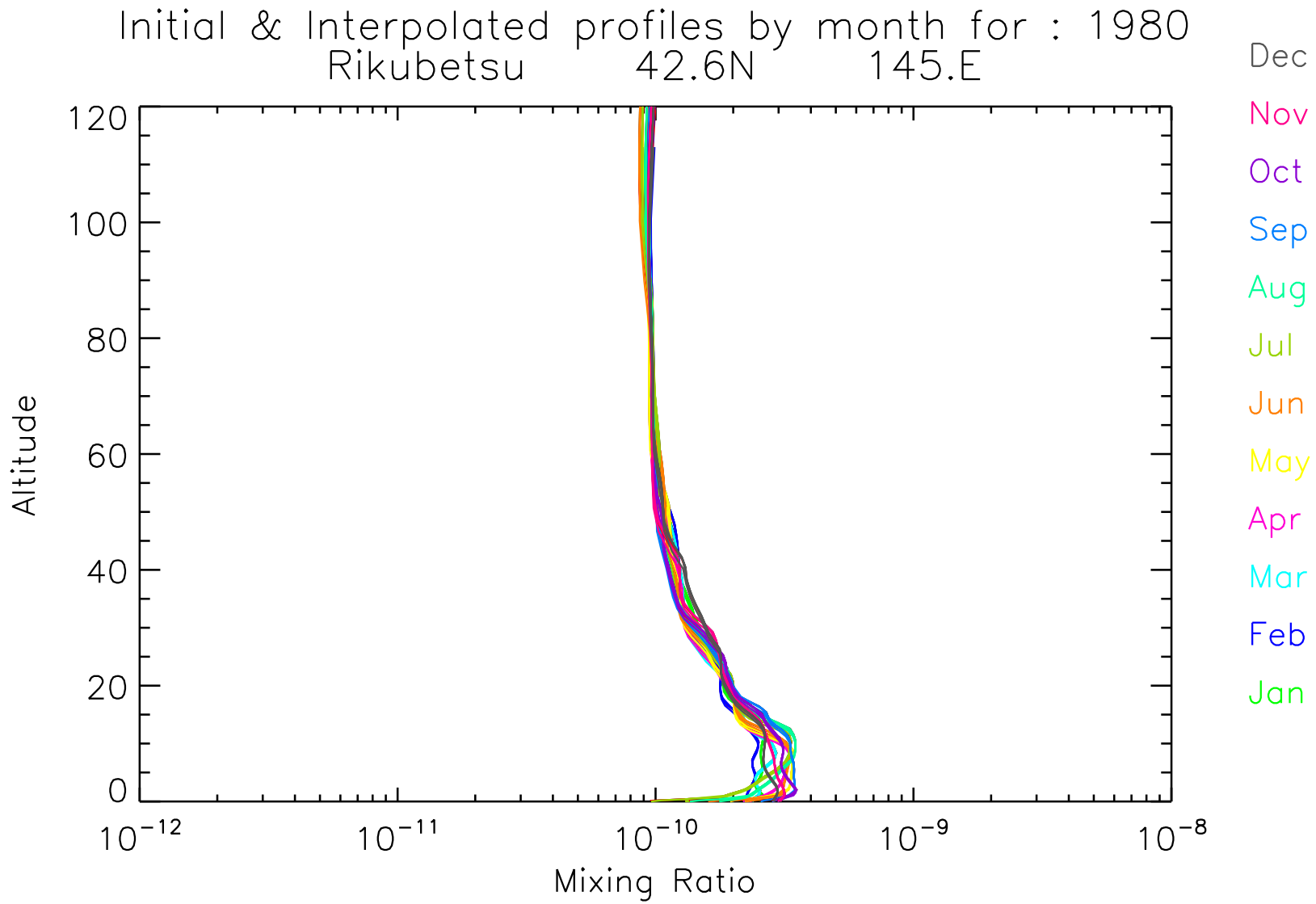
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Mixing Ratio
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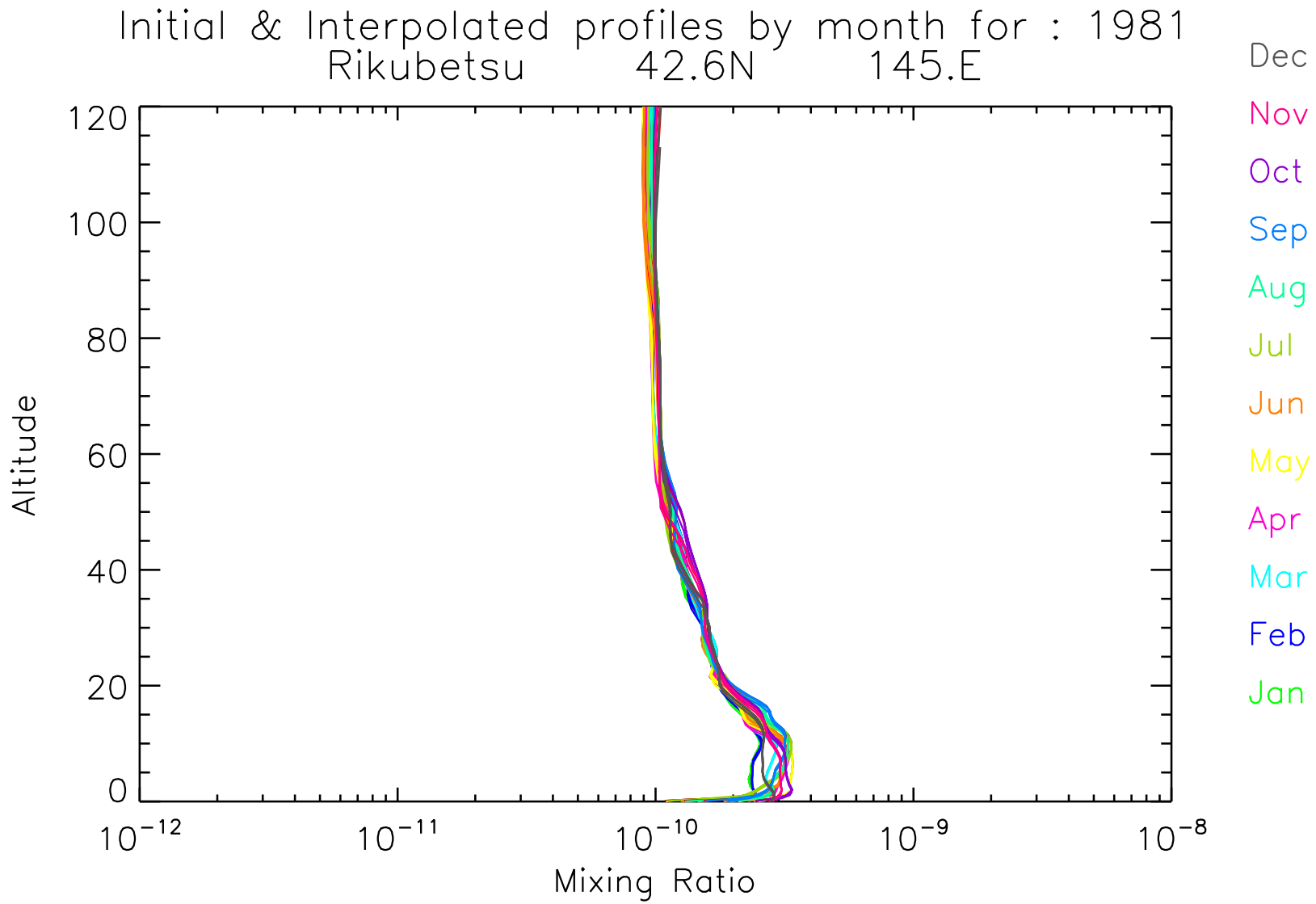
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Mixing Ratio
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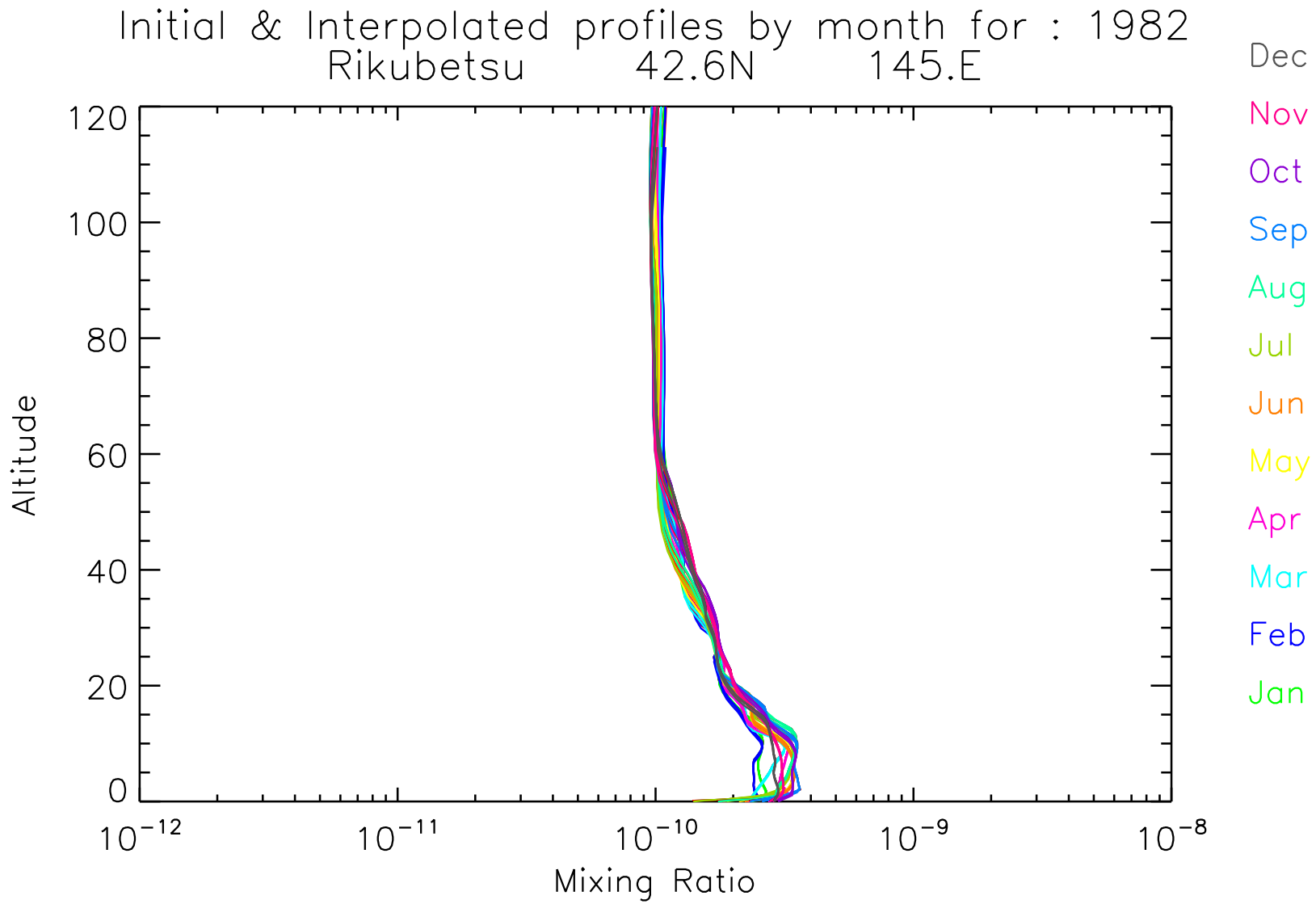
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Mixing Ratio
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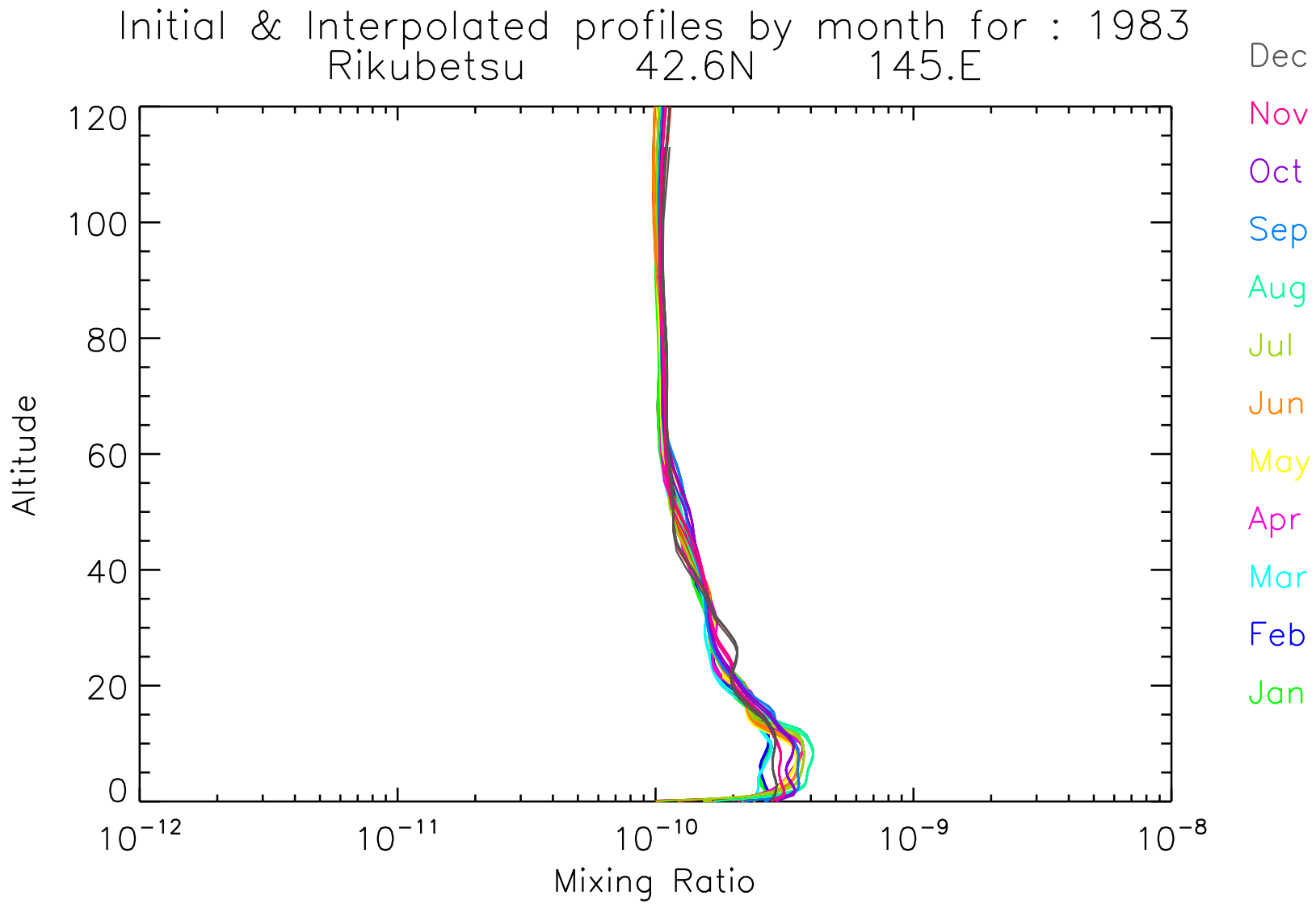
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Mixing Ratio
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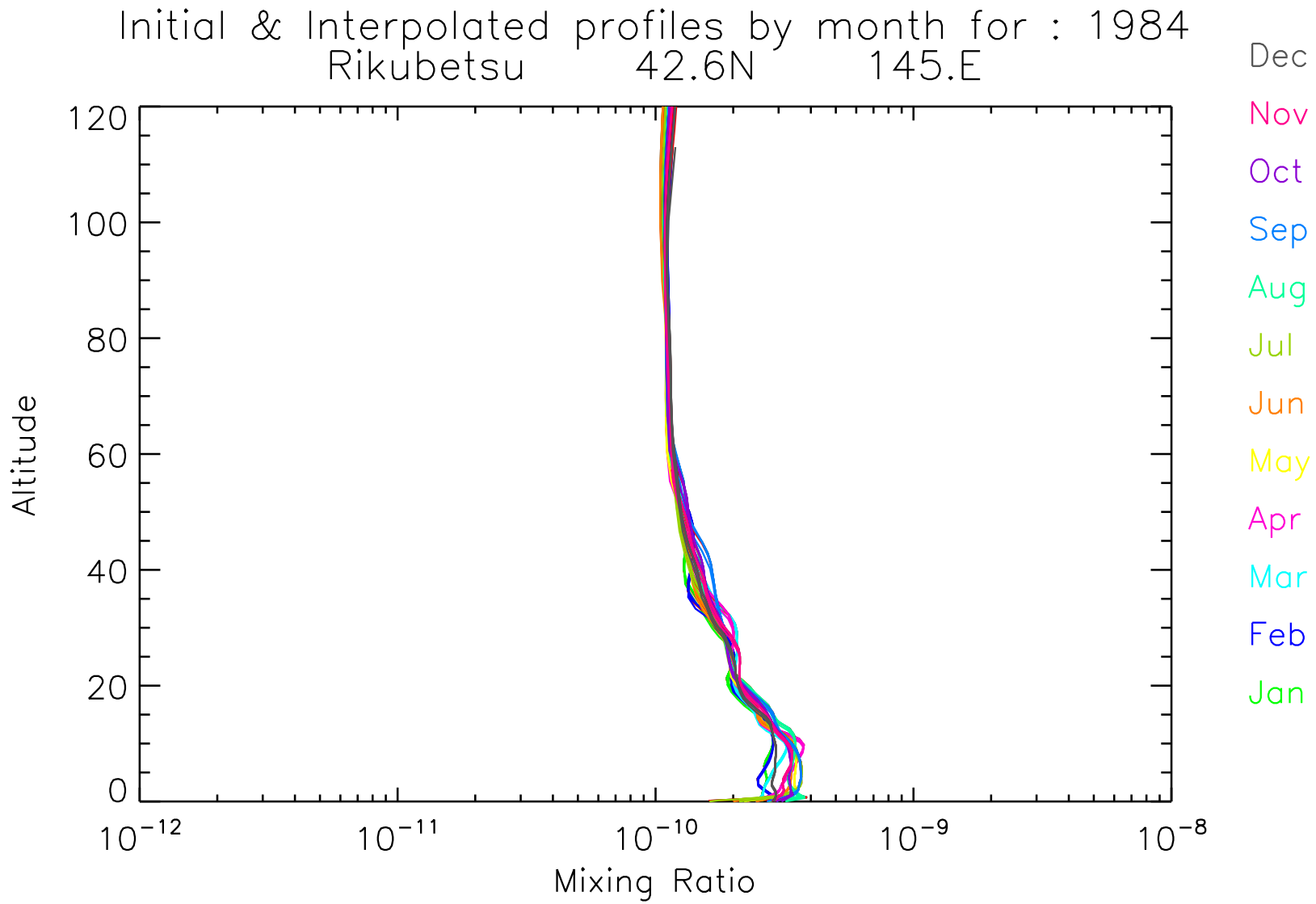
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Mixing Ratio
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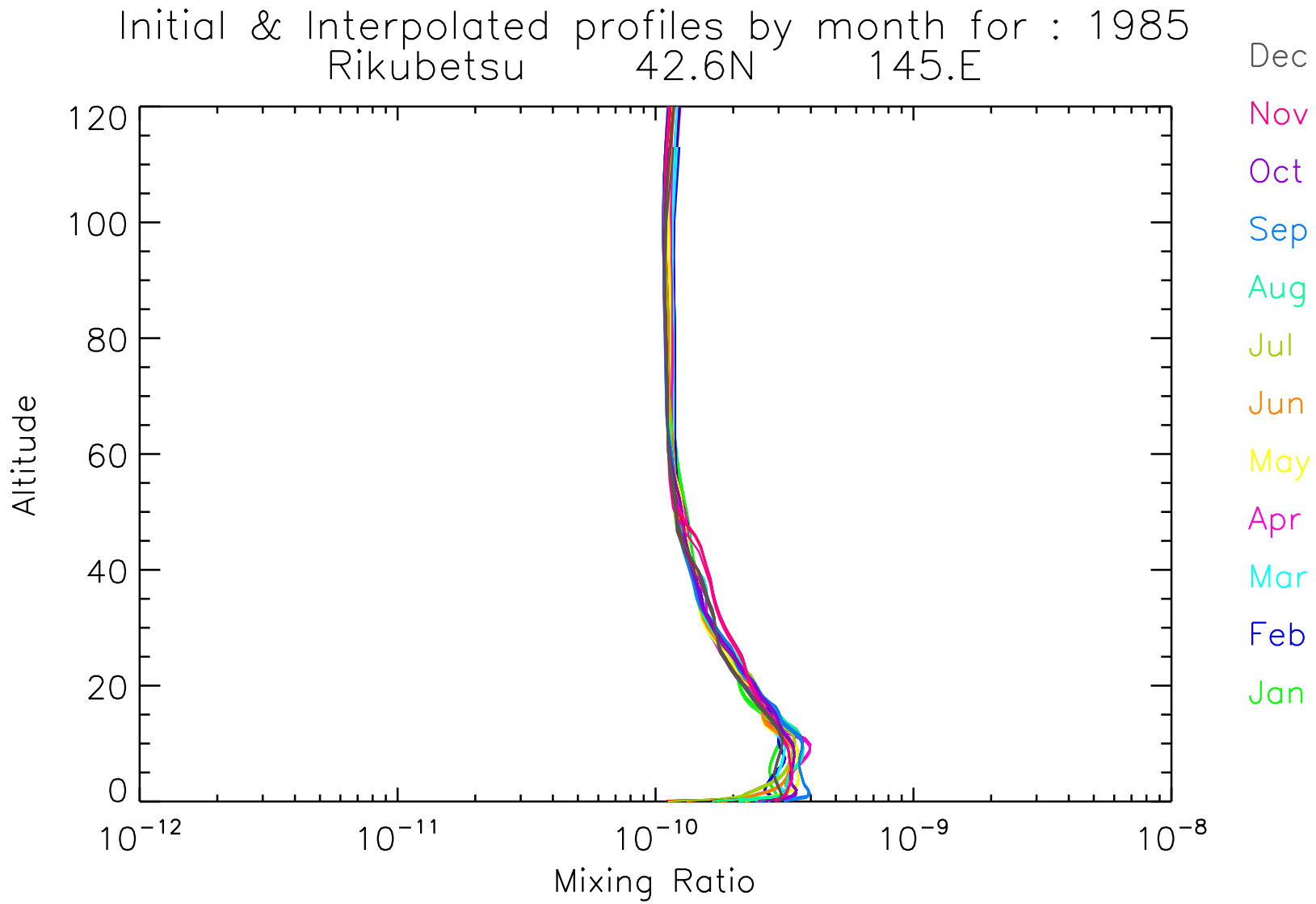
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Mixing Ratio
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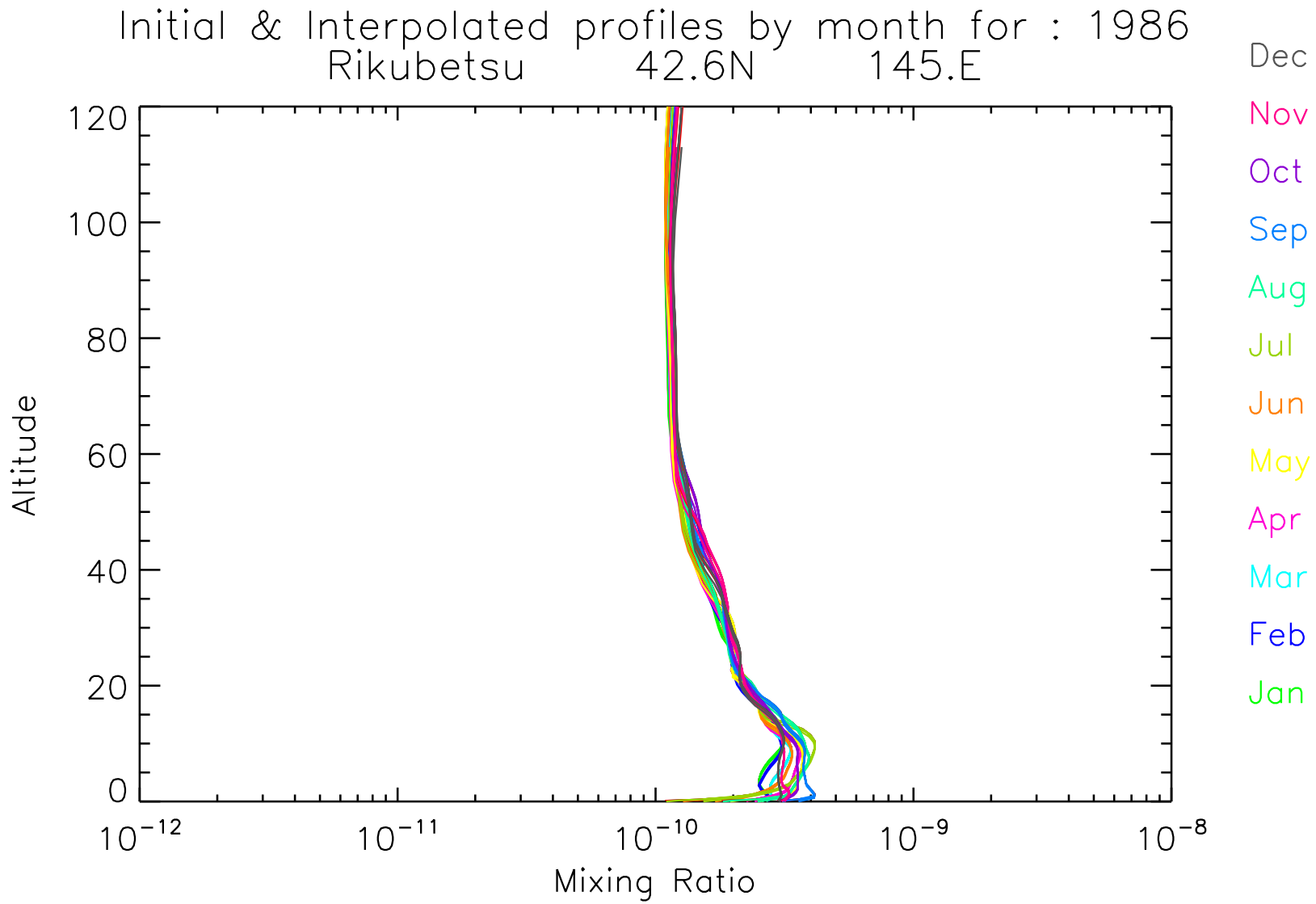
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Mixing Ratio
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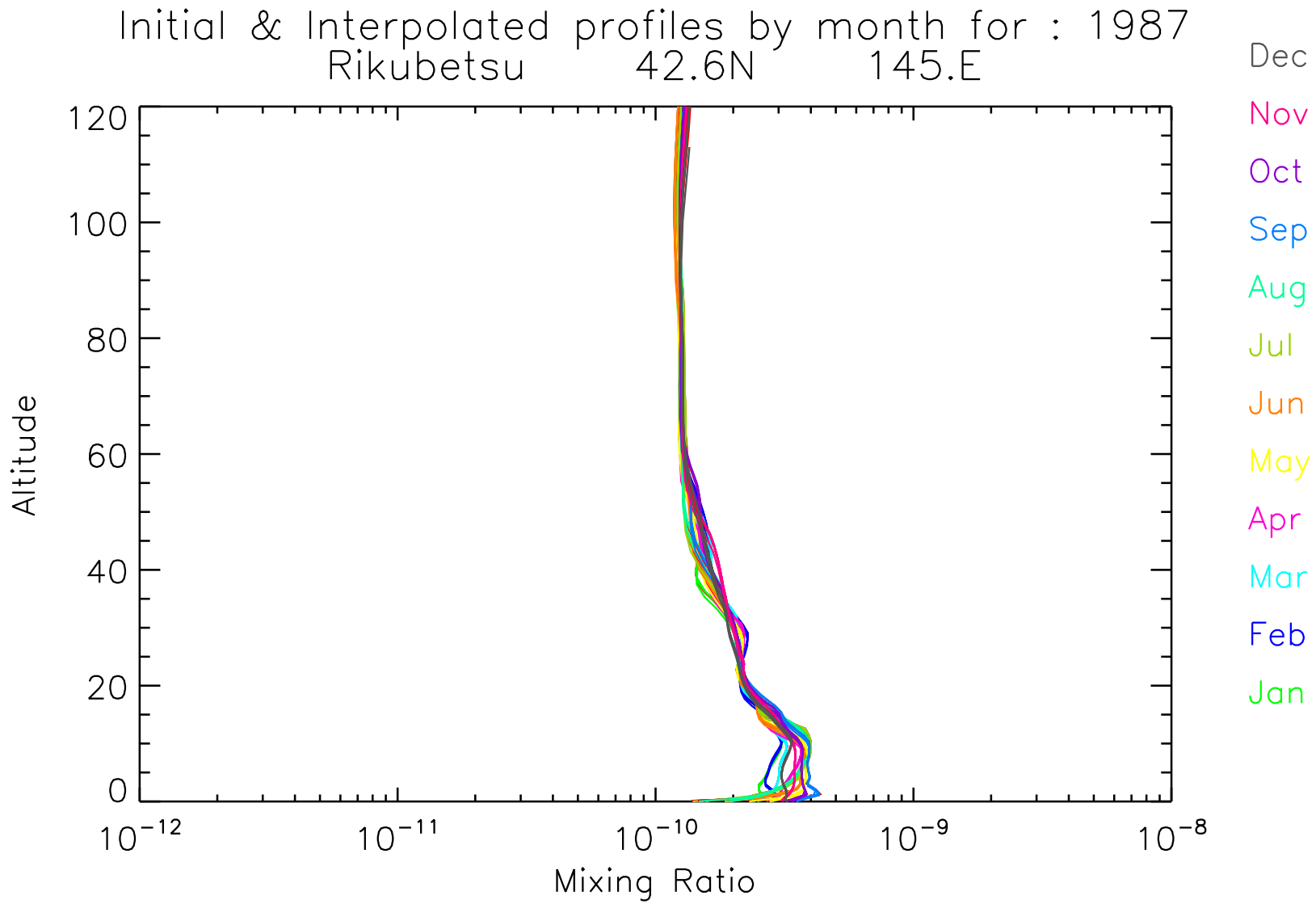
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Mixing Ratio
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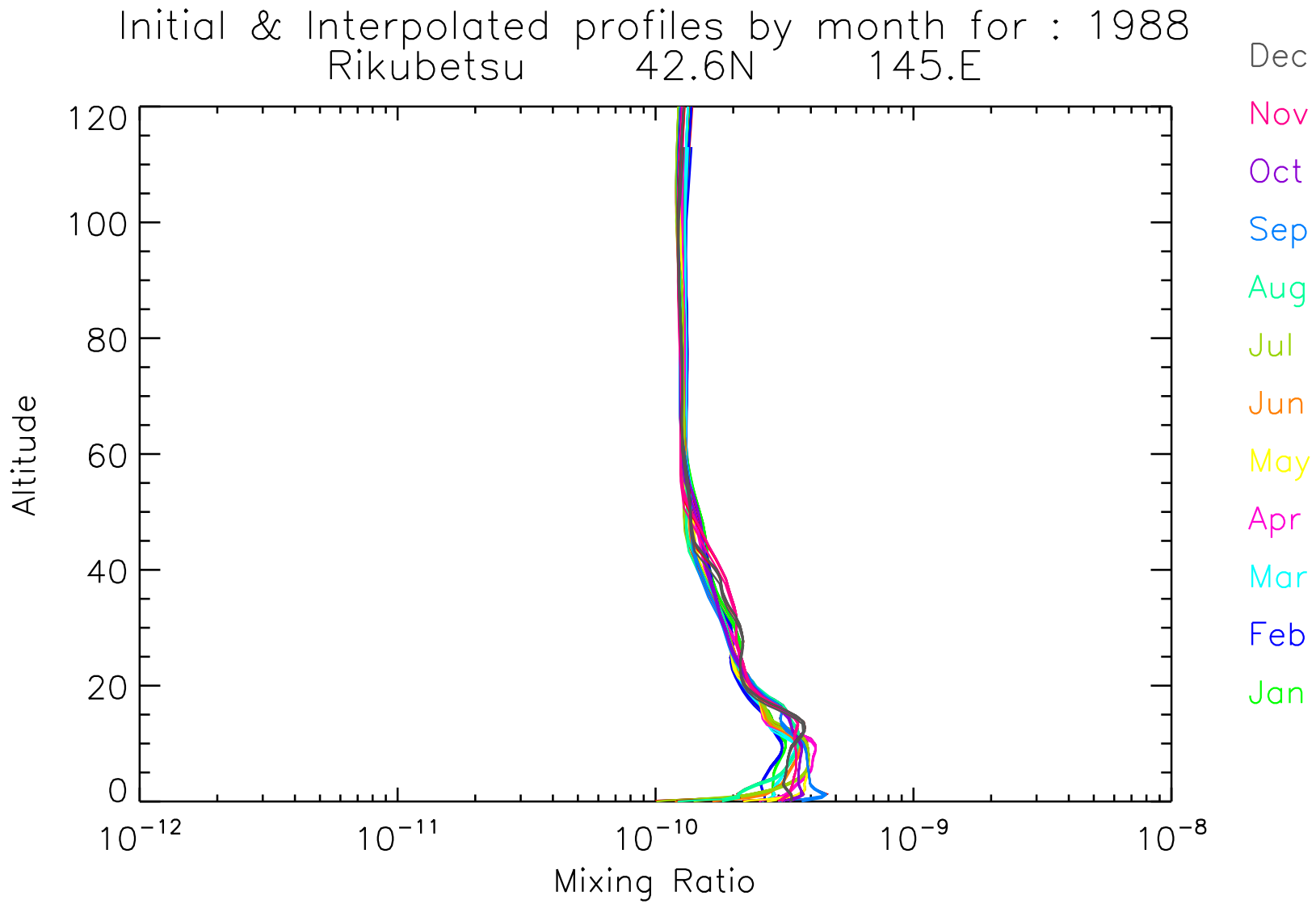
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Mixing Ratio
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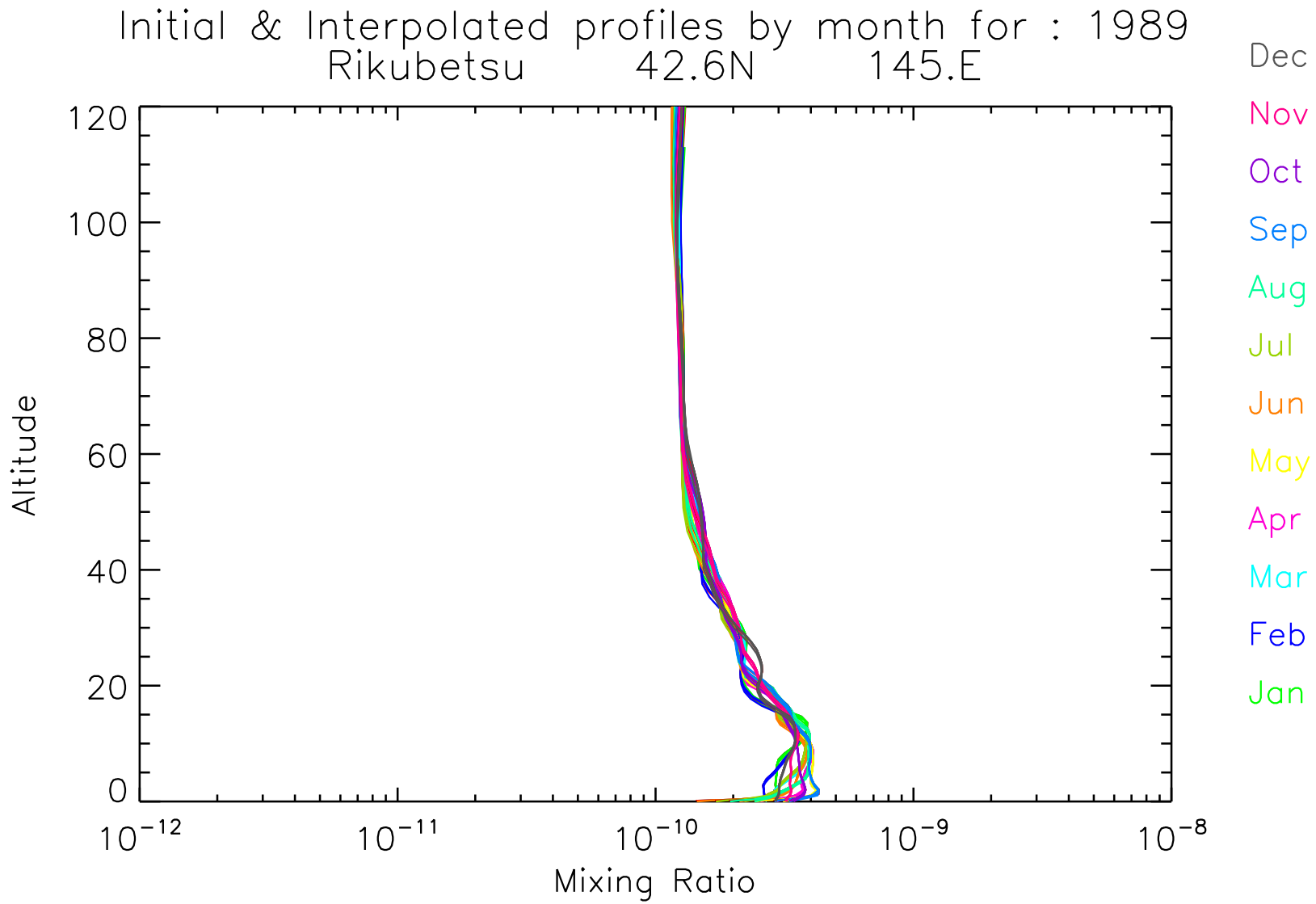
Initial & Interpolated profiles by month for : 1989
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Altitude
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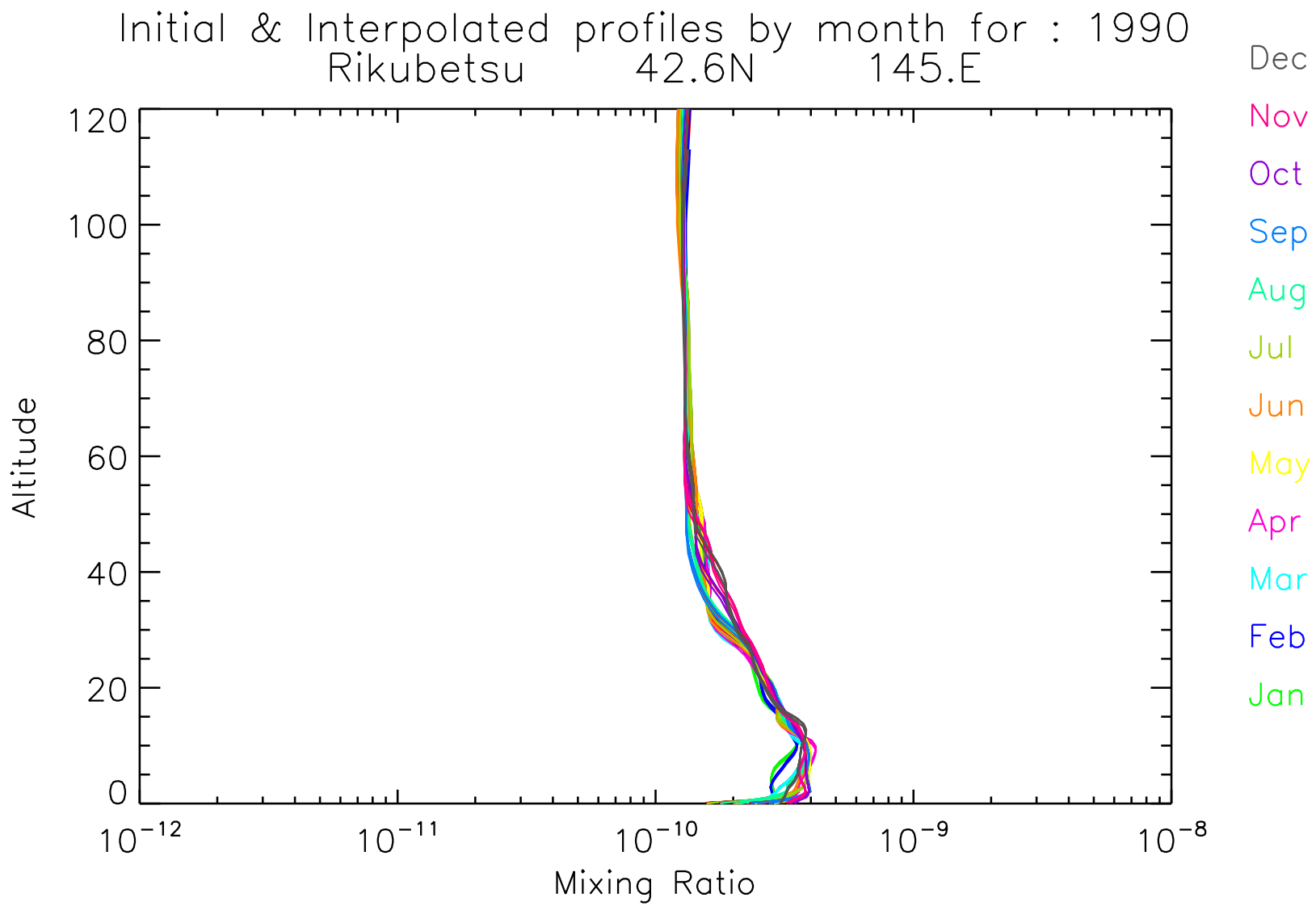
Initial & Interpolated profiles by month for : 1990
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Altitude
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Mixing Ratio
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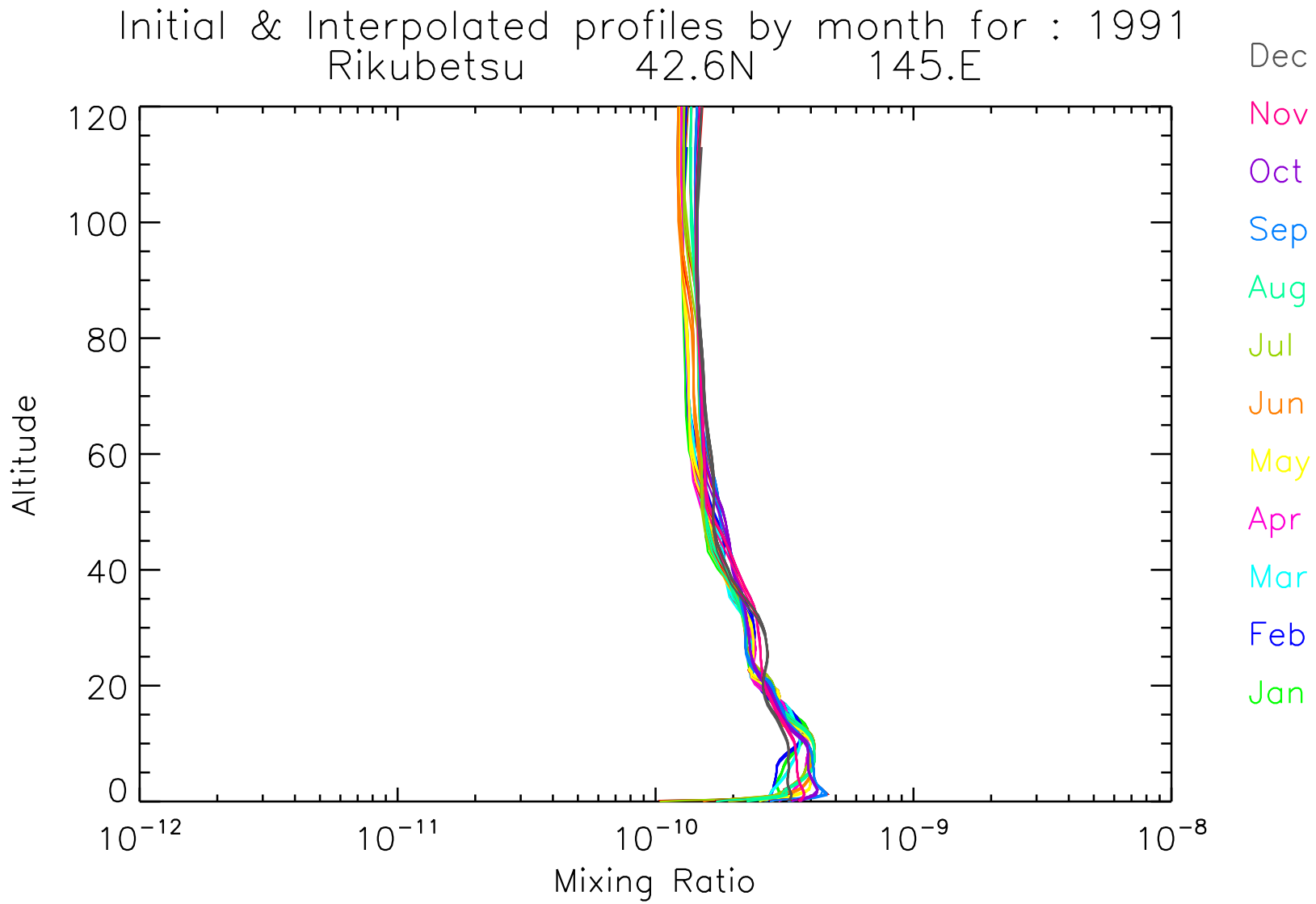
Initial & Interpolated profiles by month for : 1991
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Altitude
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Mixing Ratio
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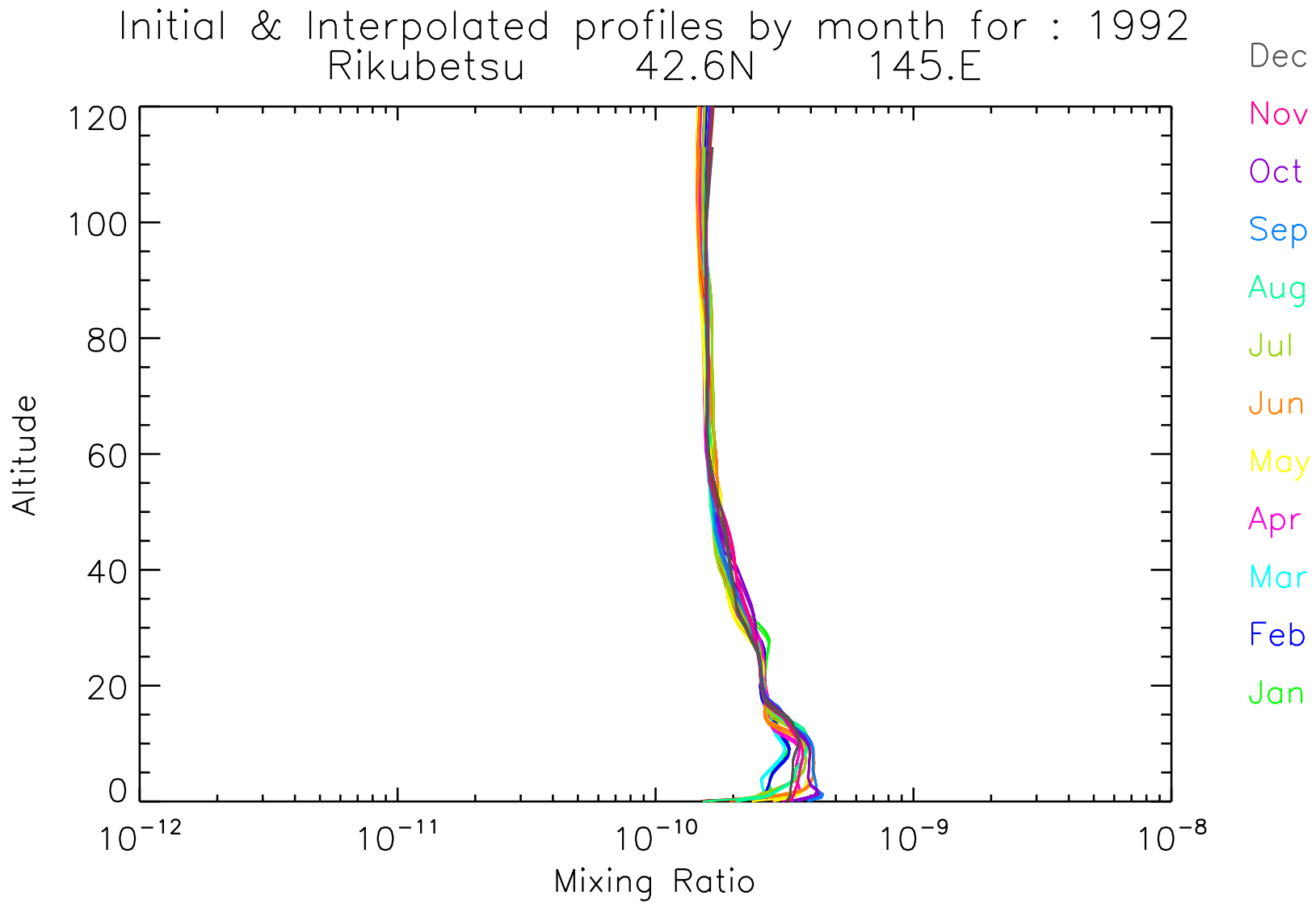
Initial & Interpolated profiles by month for : 1992
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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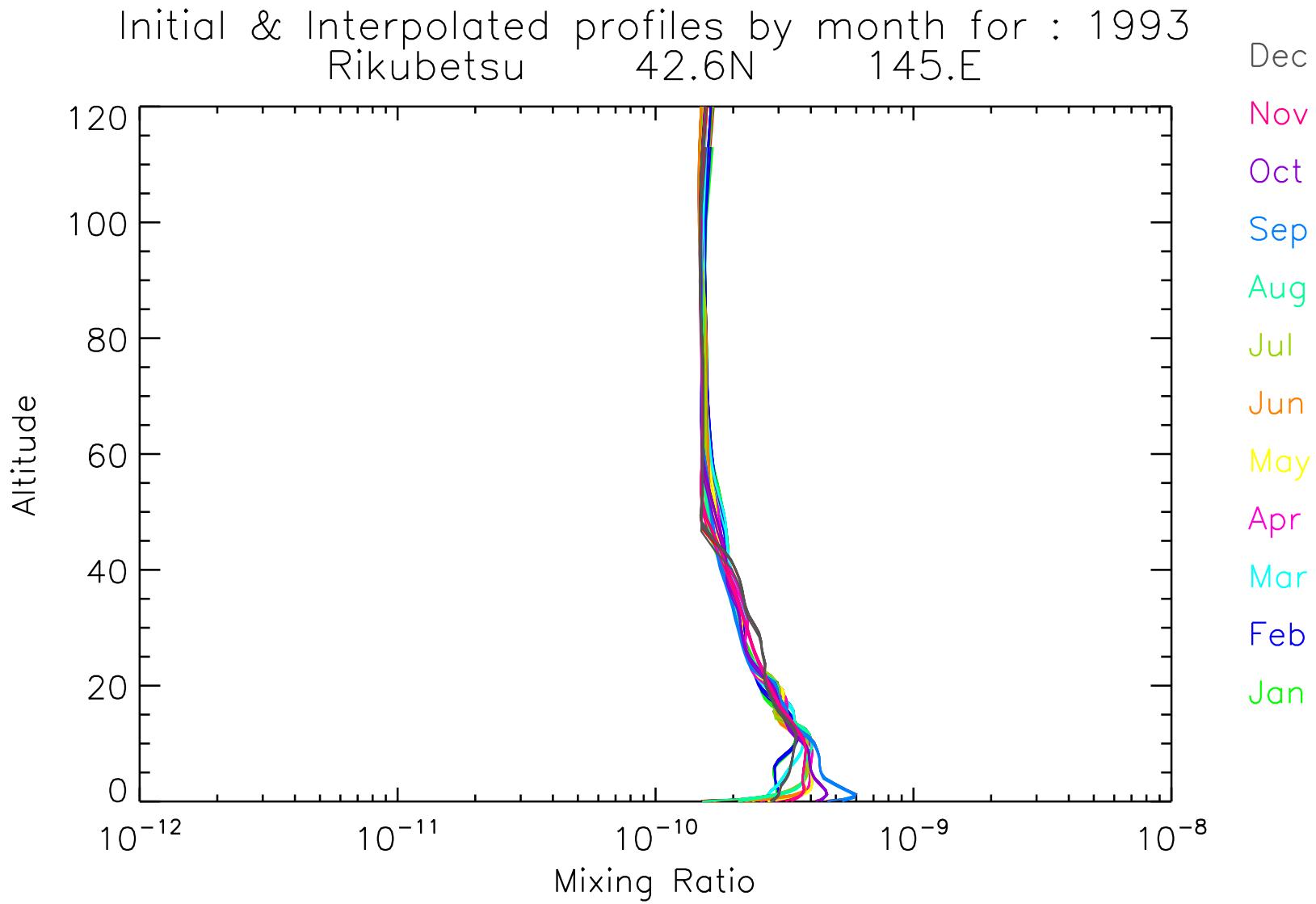
Initial & Interpolated profiles by month for : 1993
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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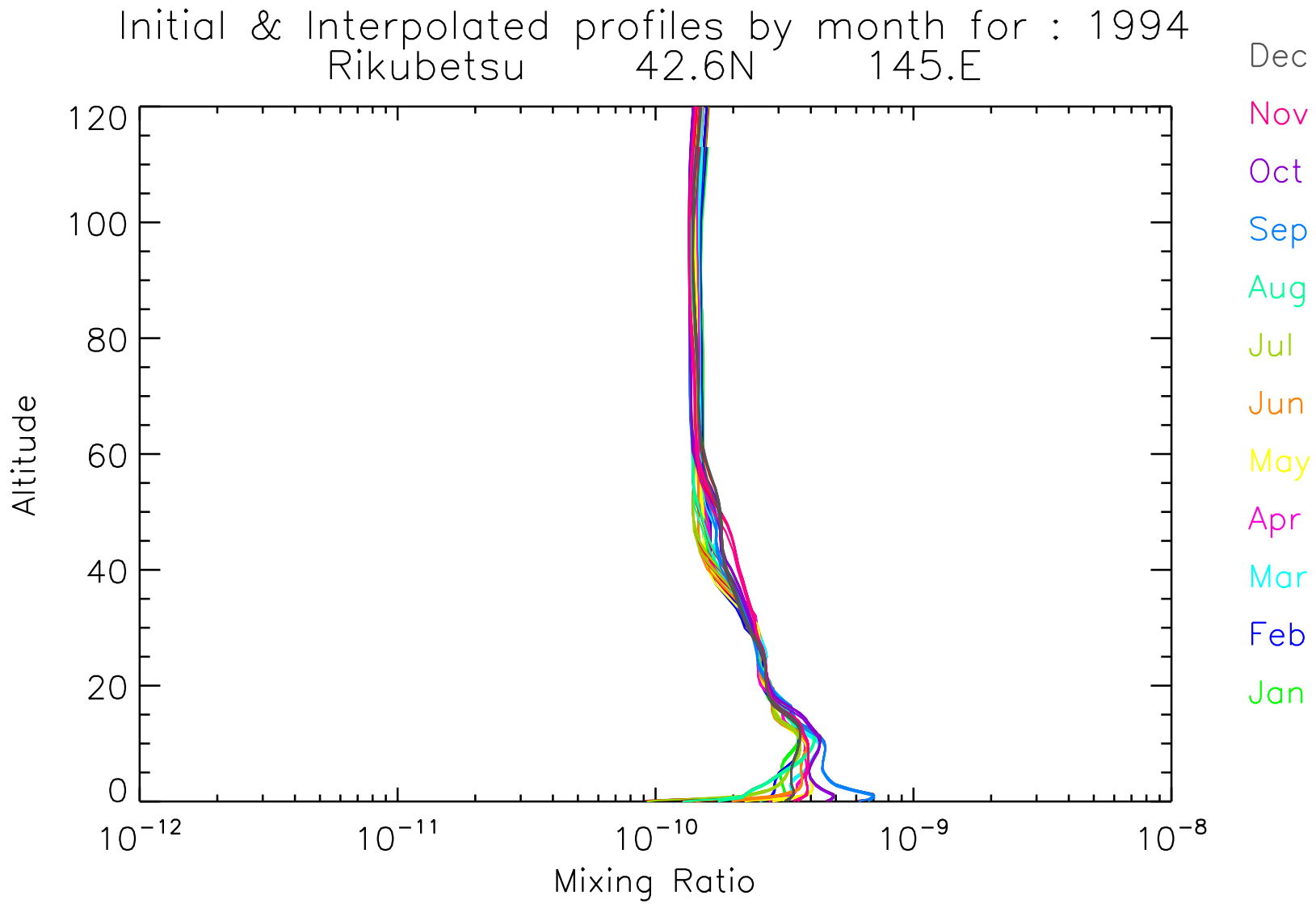
Initial & Interpolated profiles by month for : 1994
Rikubetsu 42.6N 145.E
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Altitude
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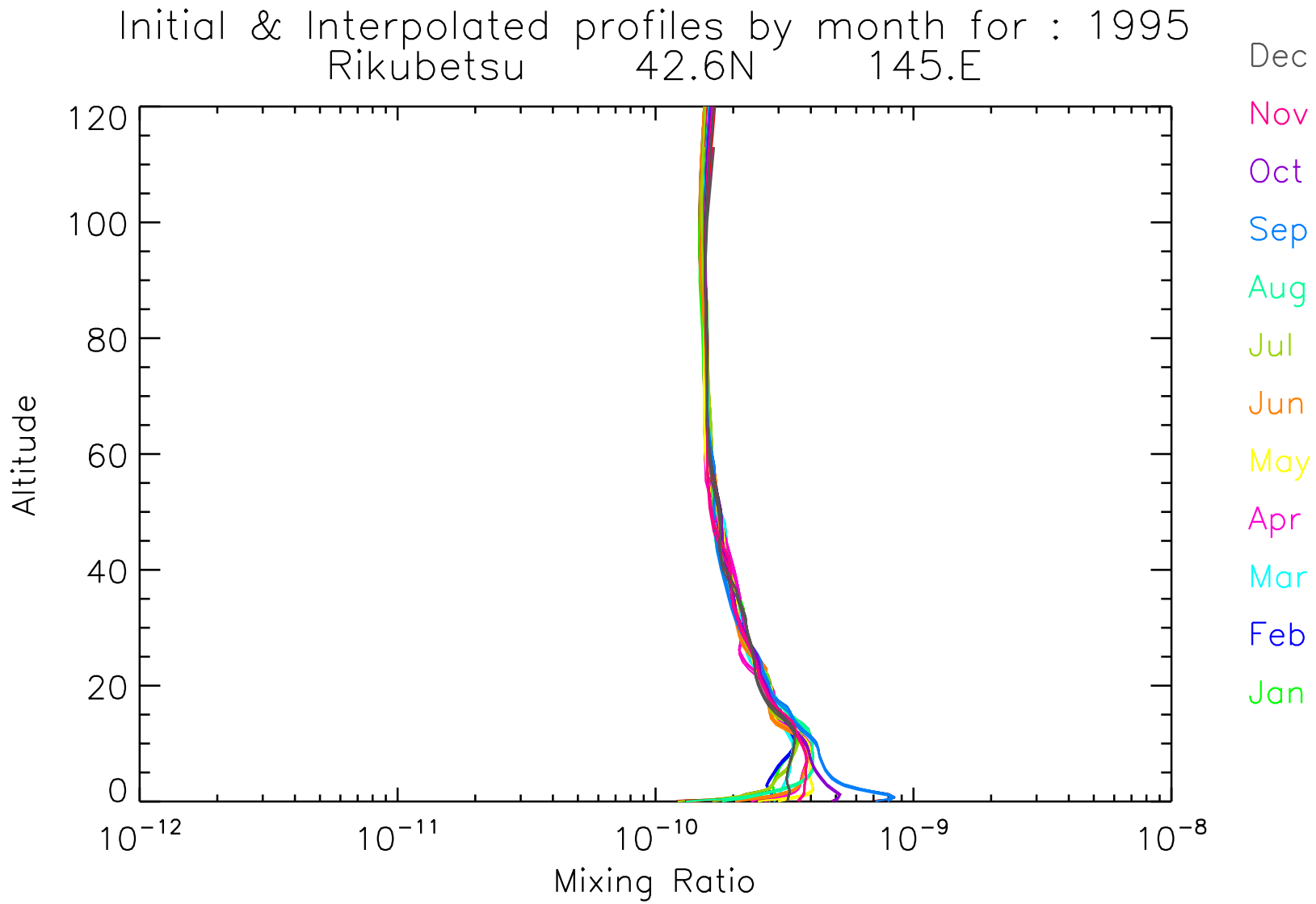
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
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Altitude
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Mixing Ratio
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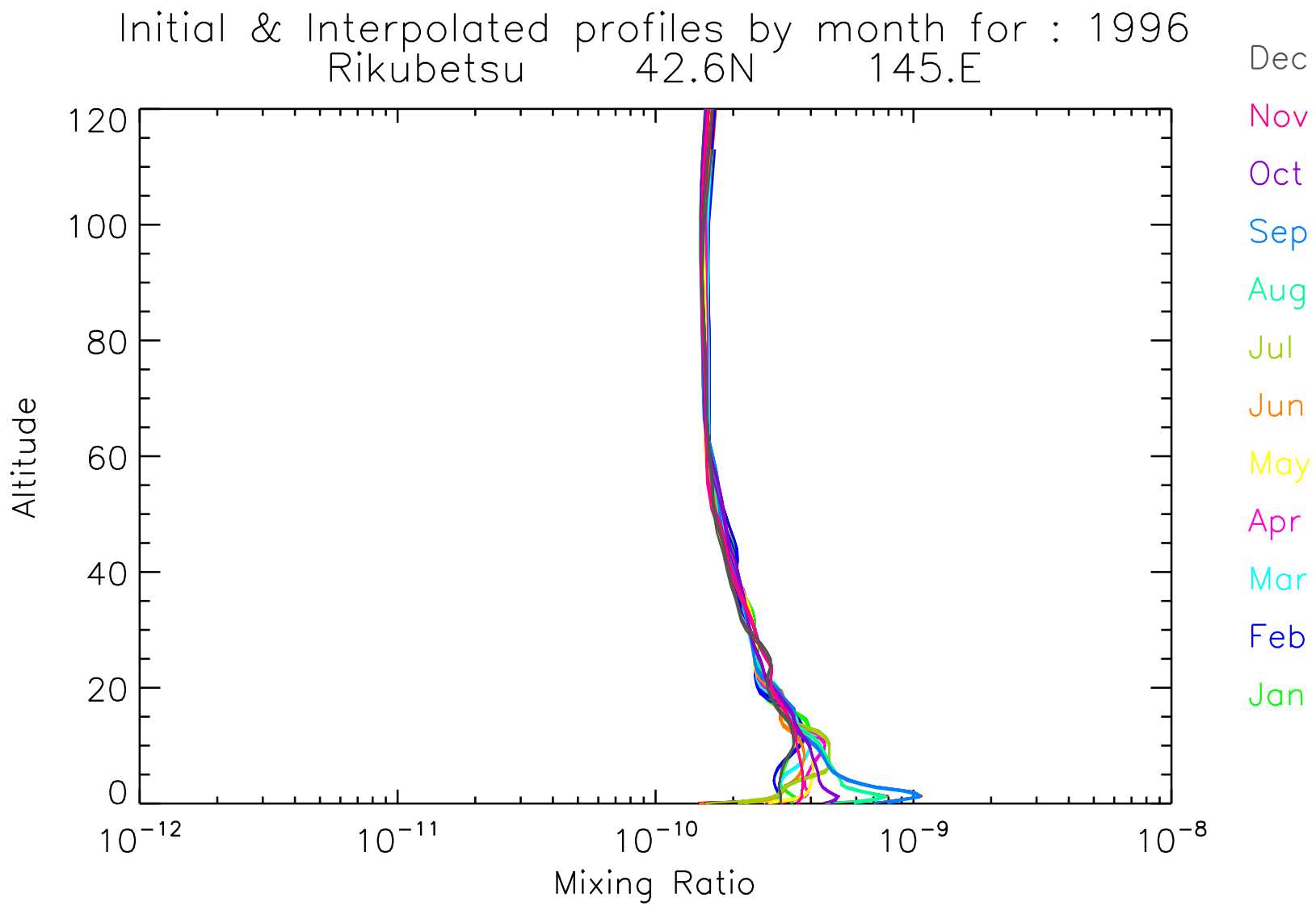
Initial & Interpolated profiles by month for : 1996
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Altitude
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Mixing Ratio
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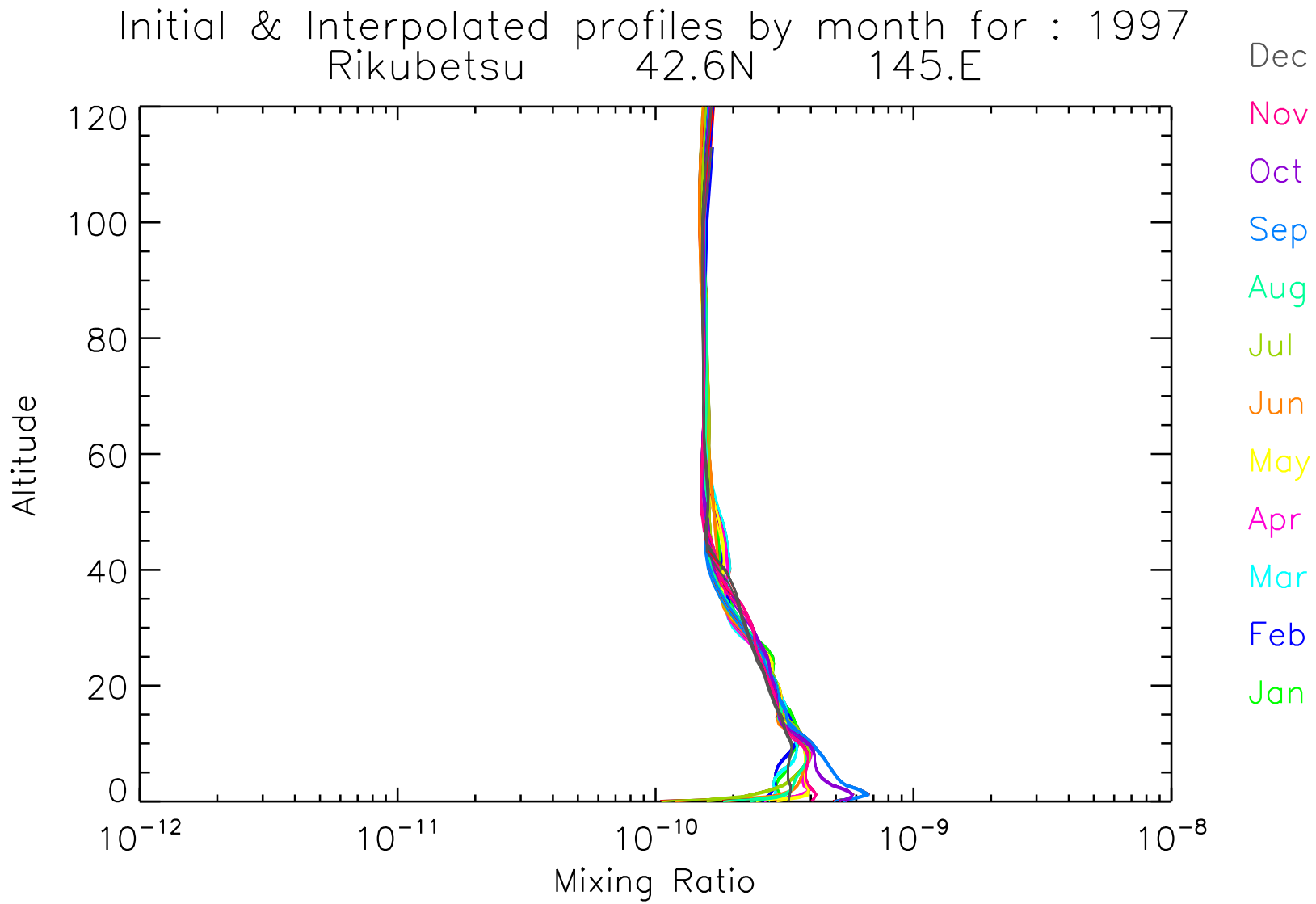
Initial & Interpolated profiles by month for : 1997
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Altitude
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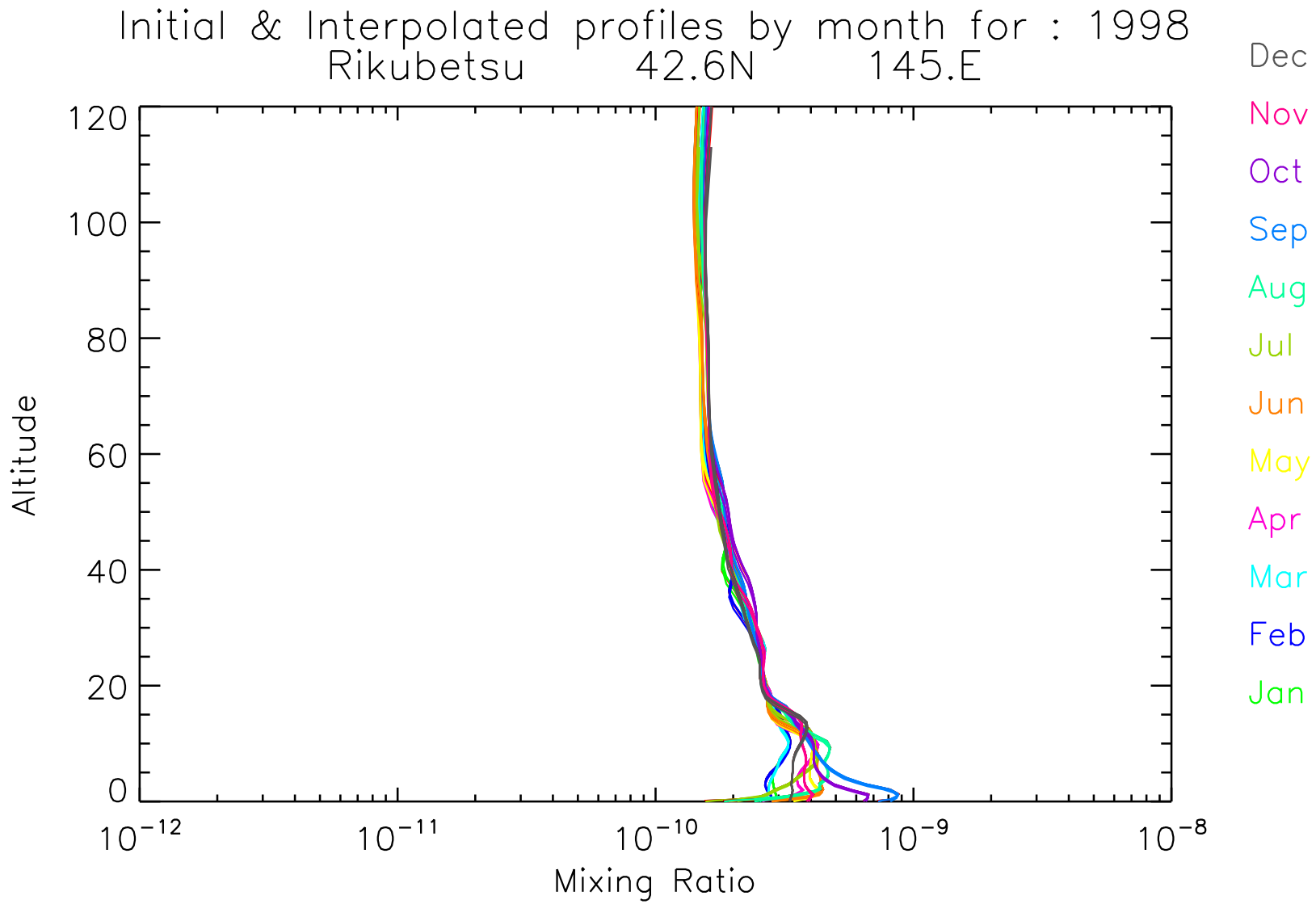
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Altitude
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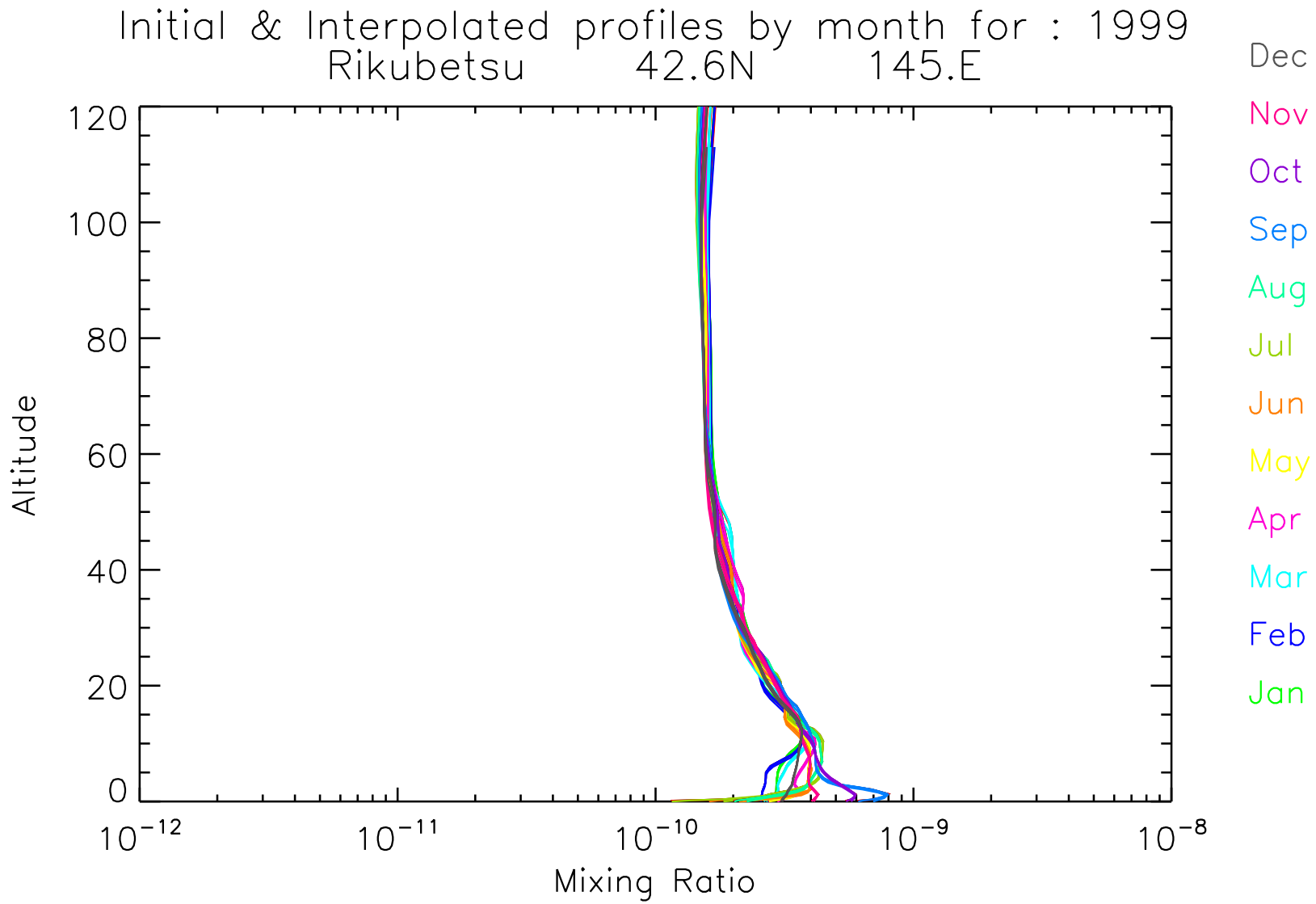
Initial & Interpolated profiles by month for : 1999
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Mixing Ratio
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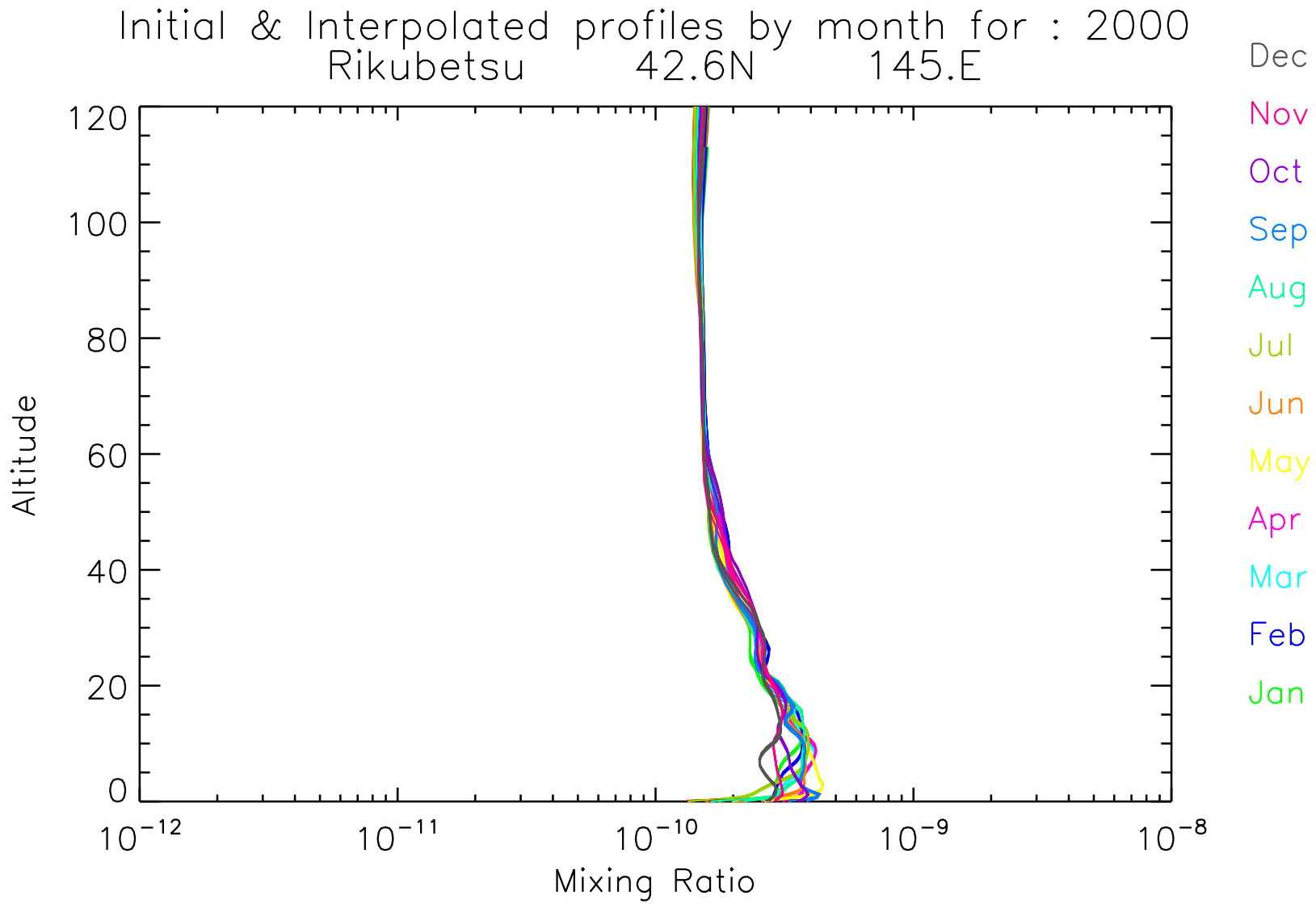
Initial & Interpolated profiles by month for : 2000
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Mixing Ratio
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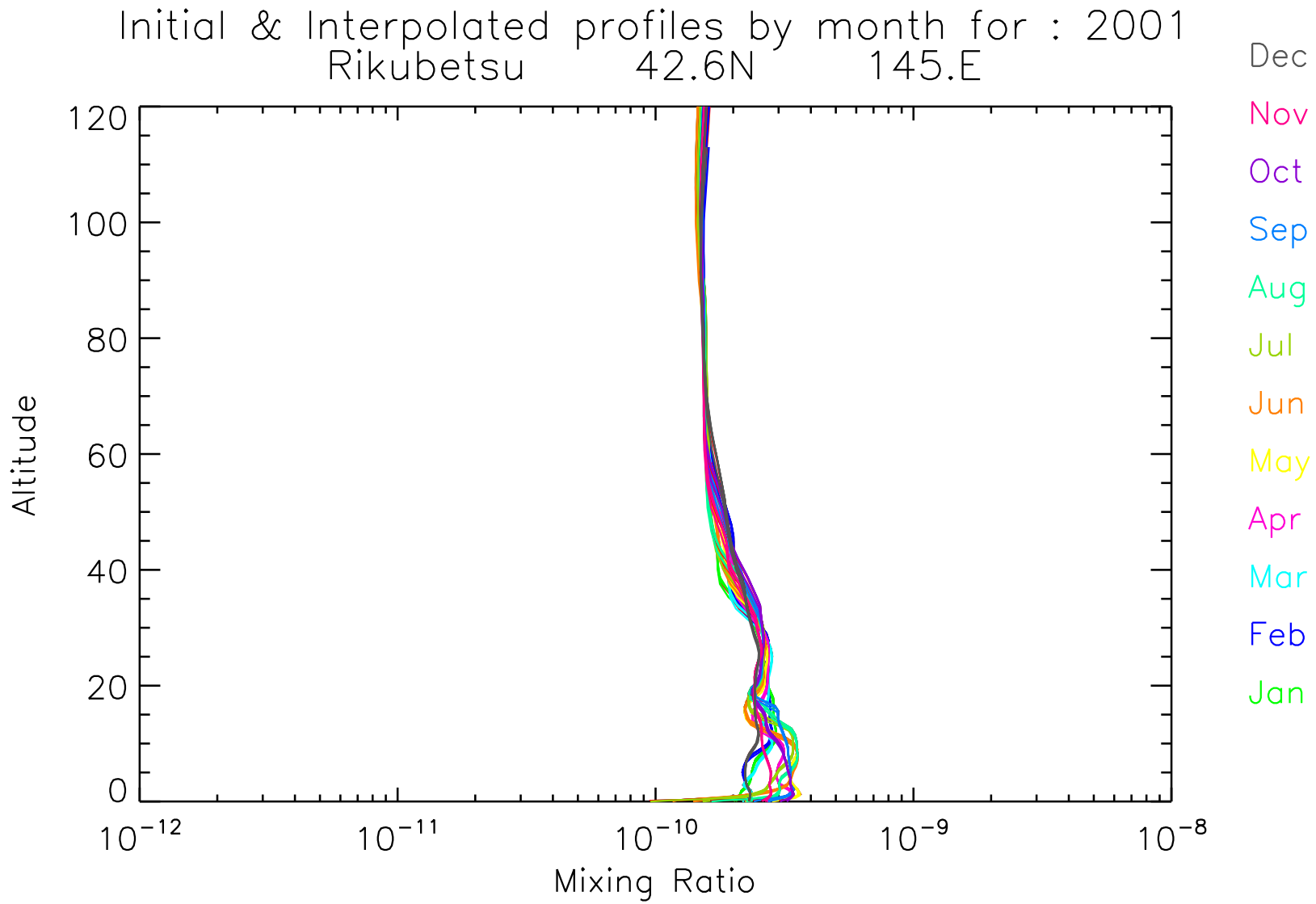
Initial & Interpolated profiles by month for : 2001
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Mixing Ratio
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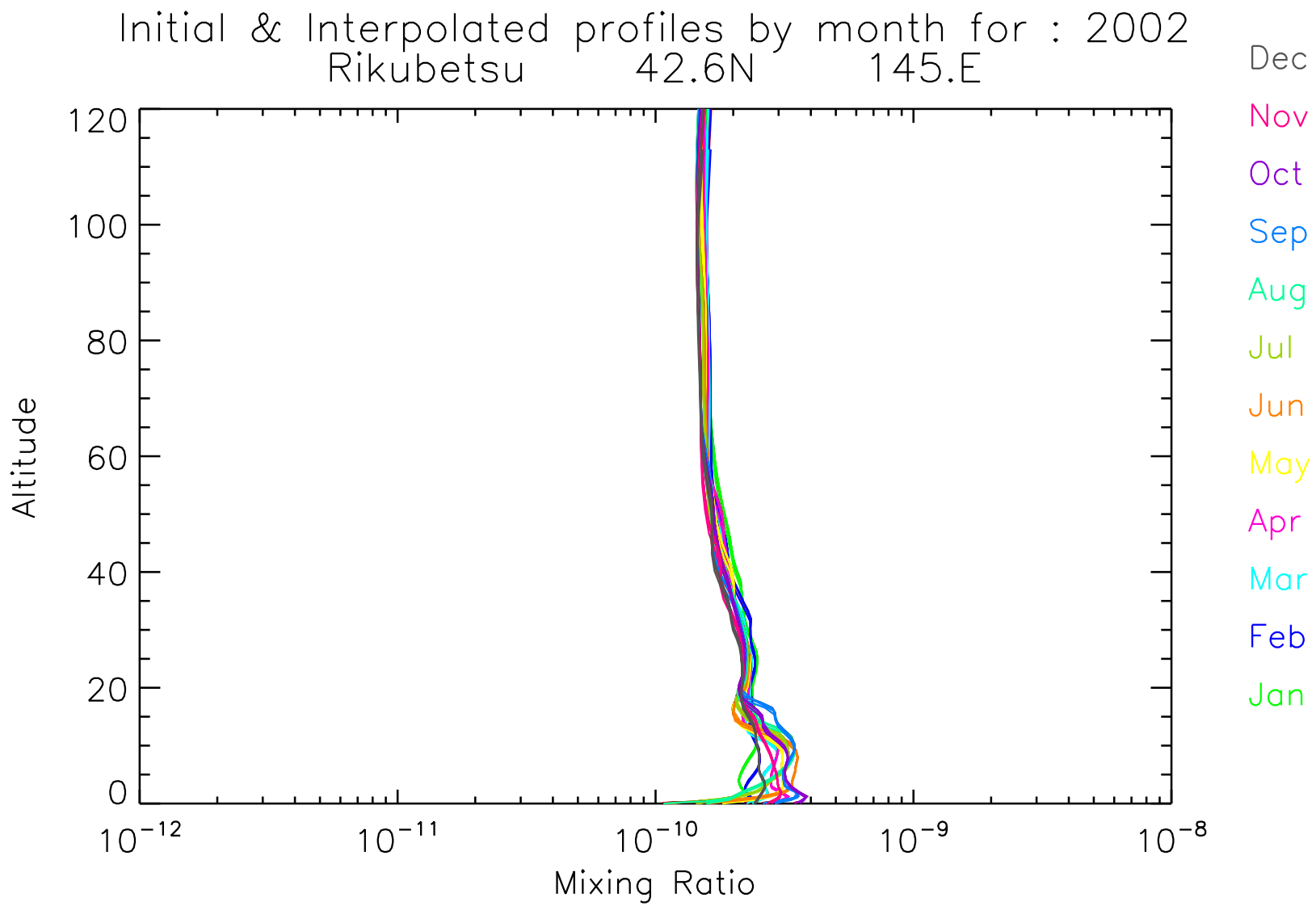
Initial & Interpolated profiles by month for : 2002
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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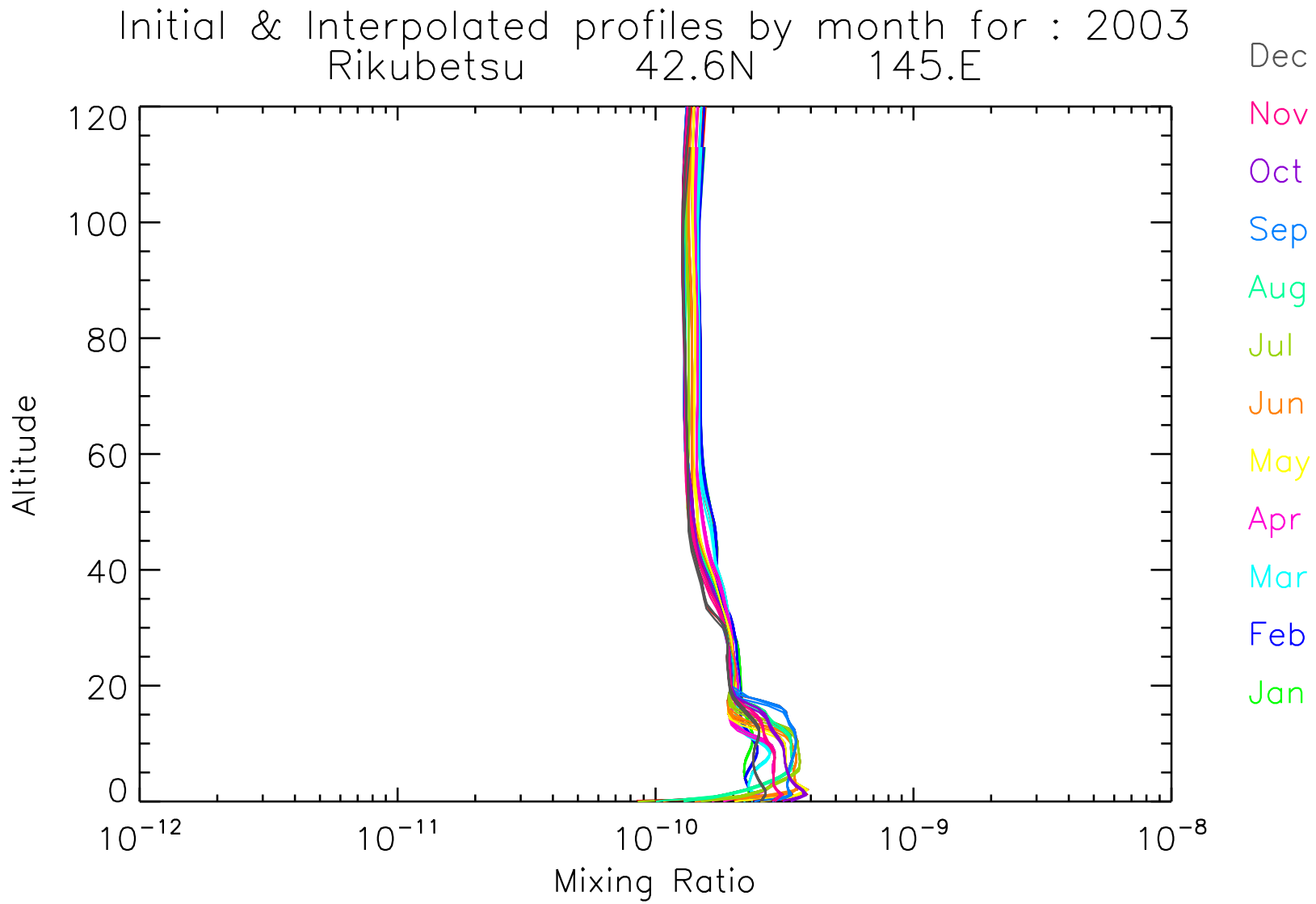
Initial & Interpolated profiles by month for : 2003
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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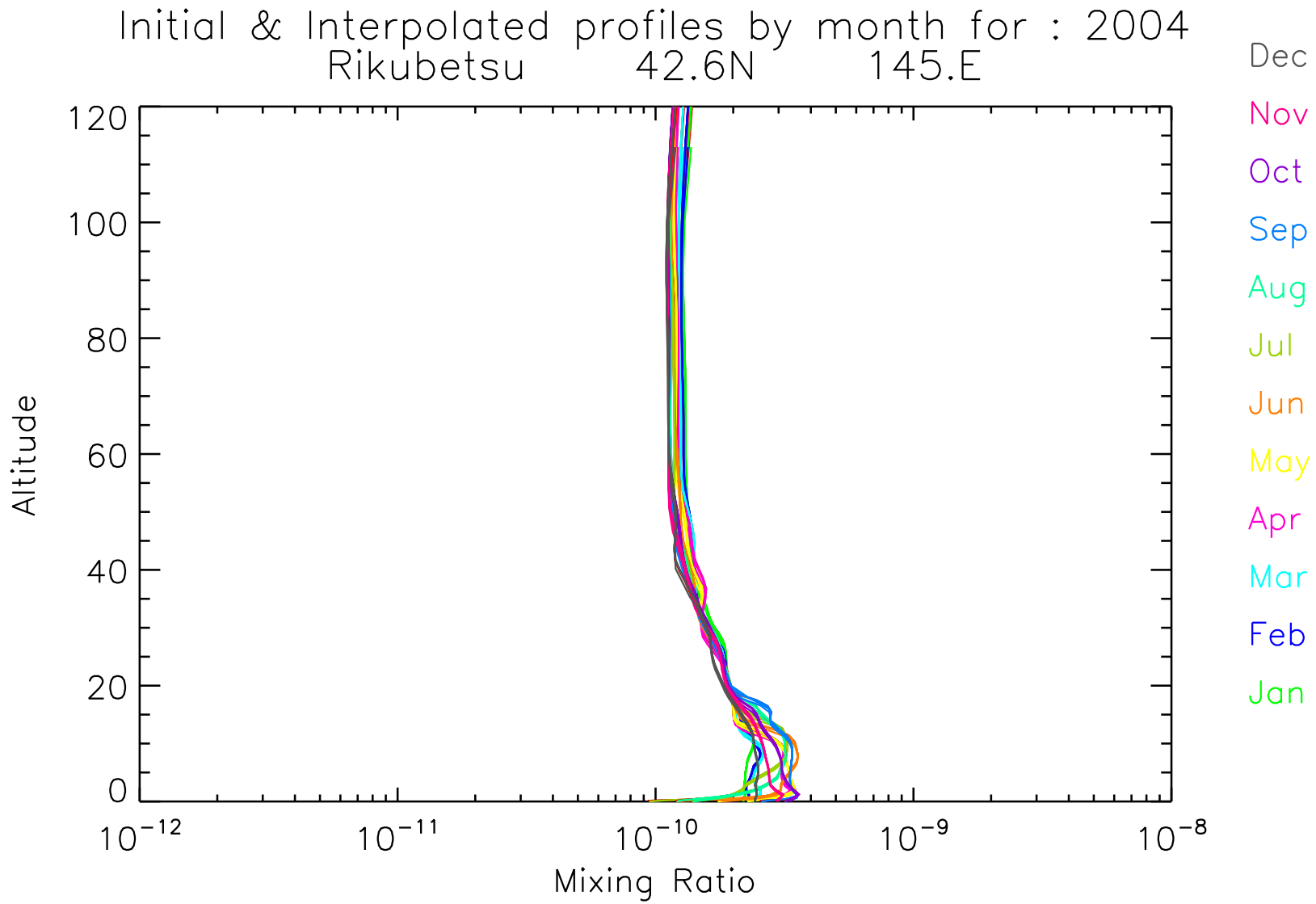
Initial & Interpolated profiles by month for : 2004
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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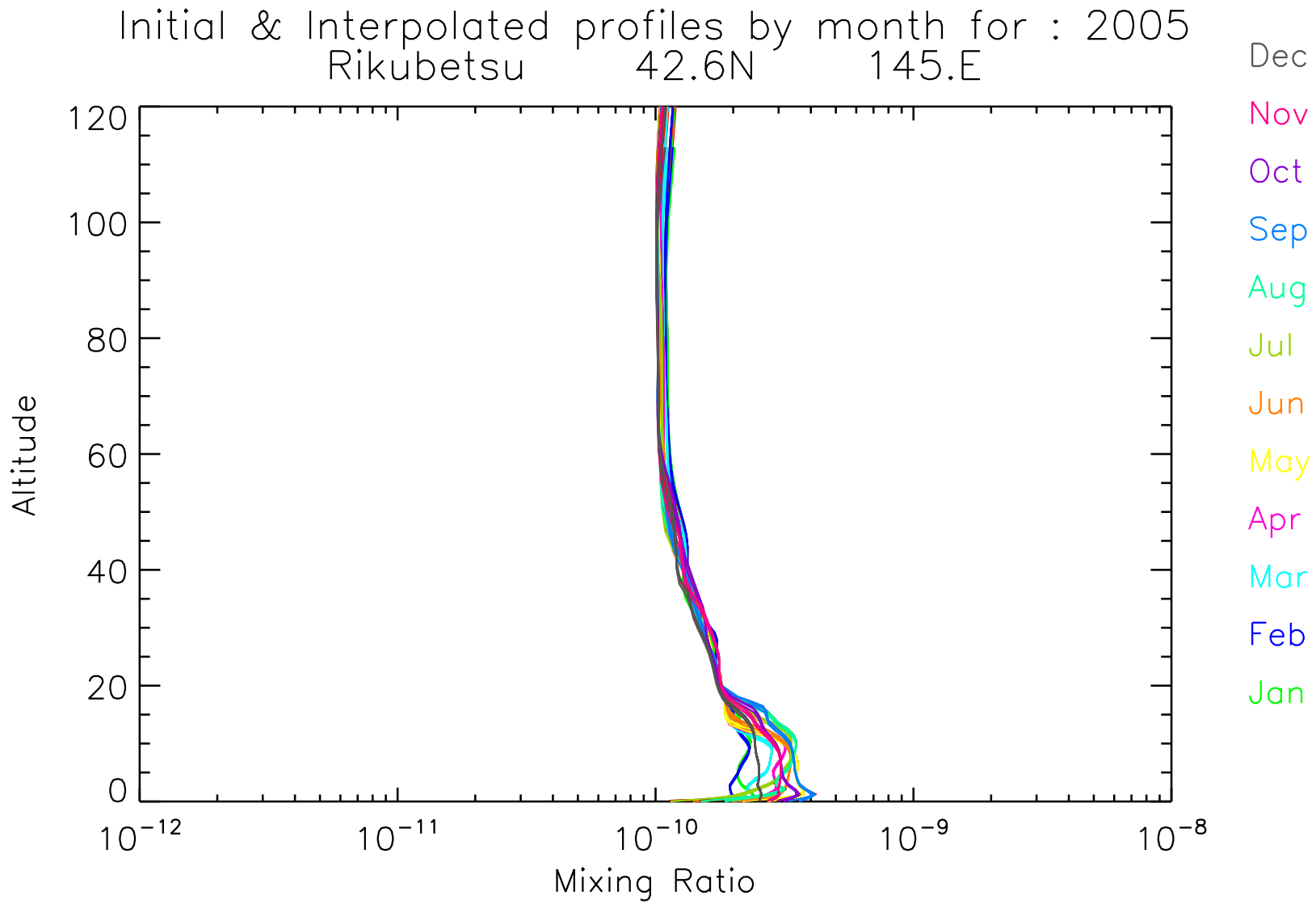
Initial & Interpolated profiles by month for : 2005
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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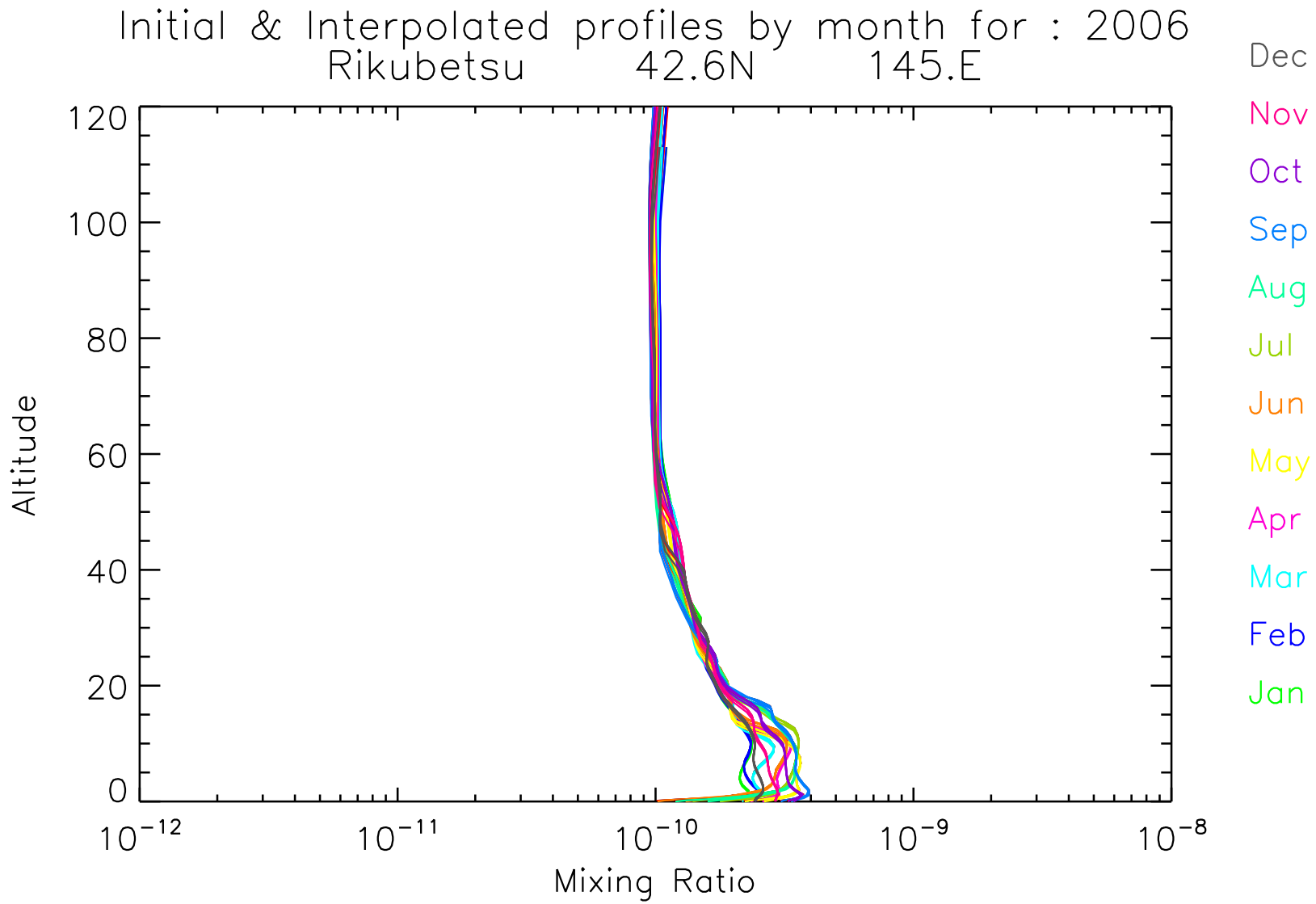
Initial & Interpolated profiles by month for : 2006
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Altitude
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Mixing Ratio
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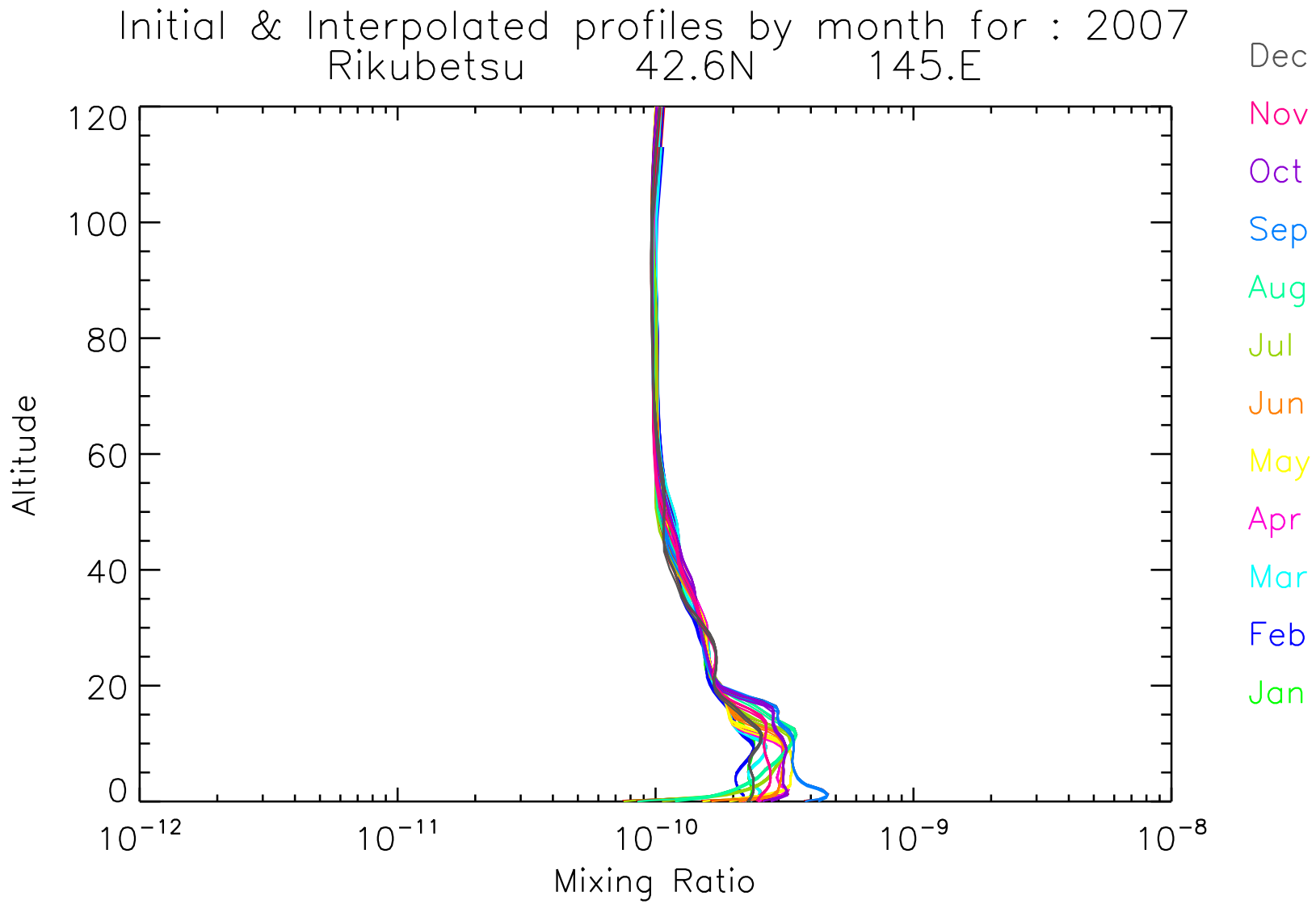
Initial & Interpolated profiles by month for : 2007
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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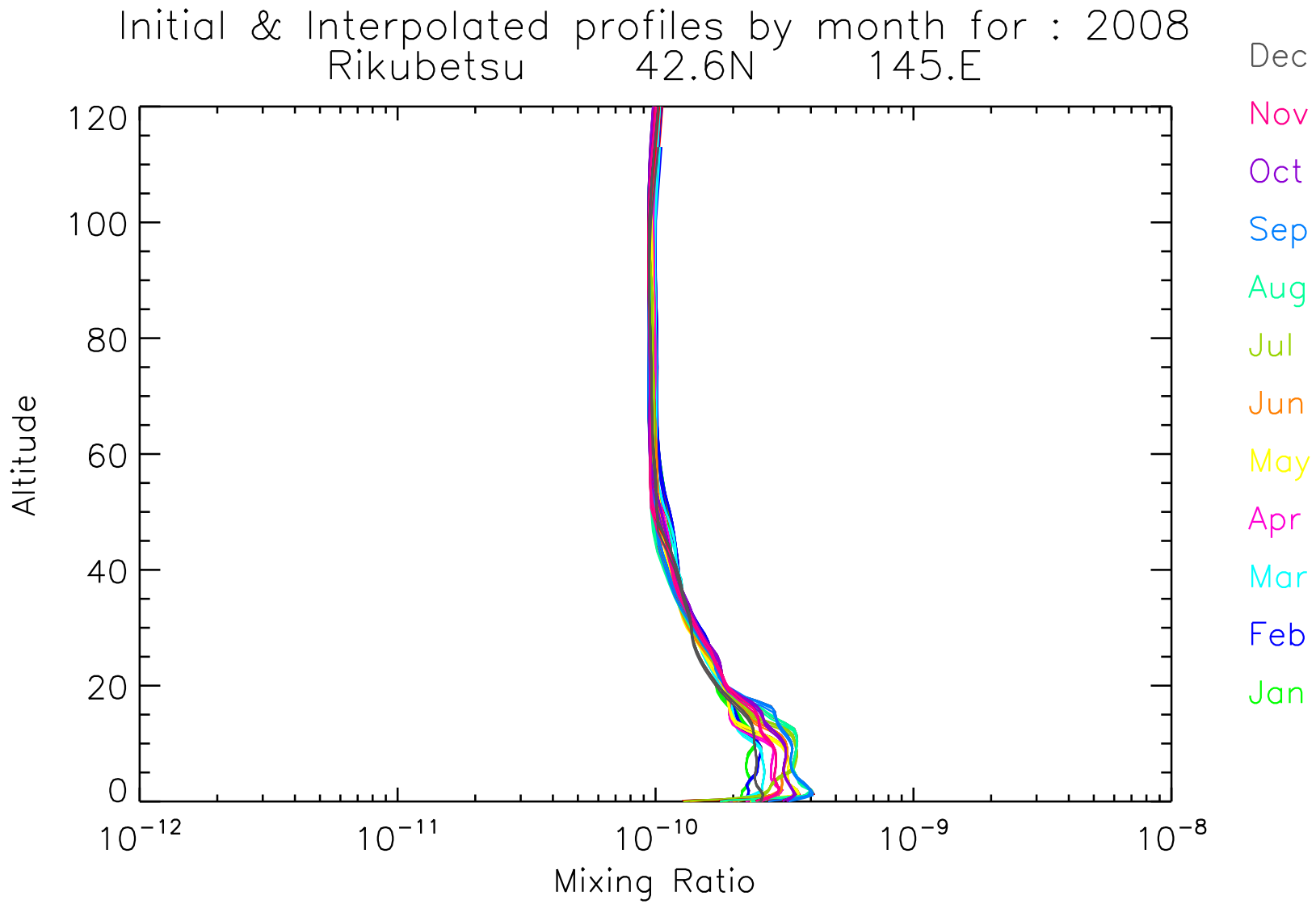
Initial & Interpolated profiles by month for : 2008
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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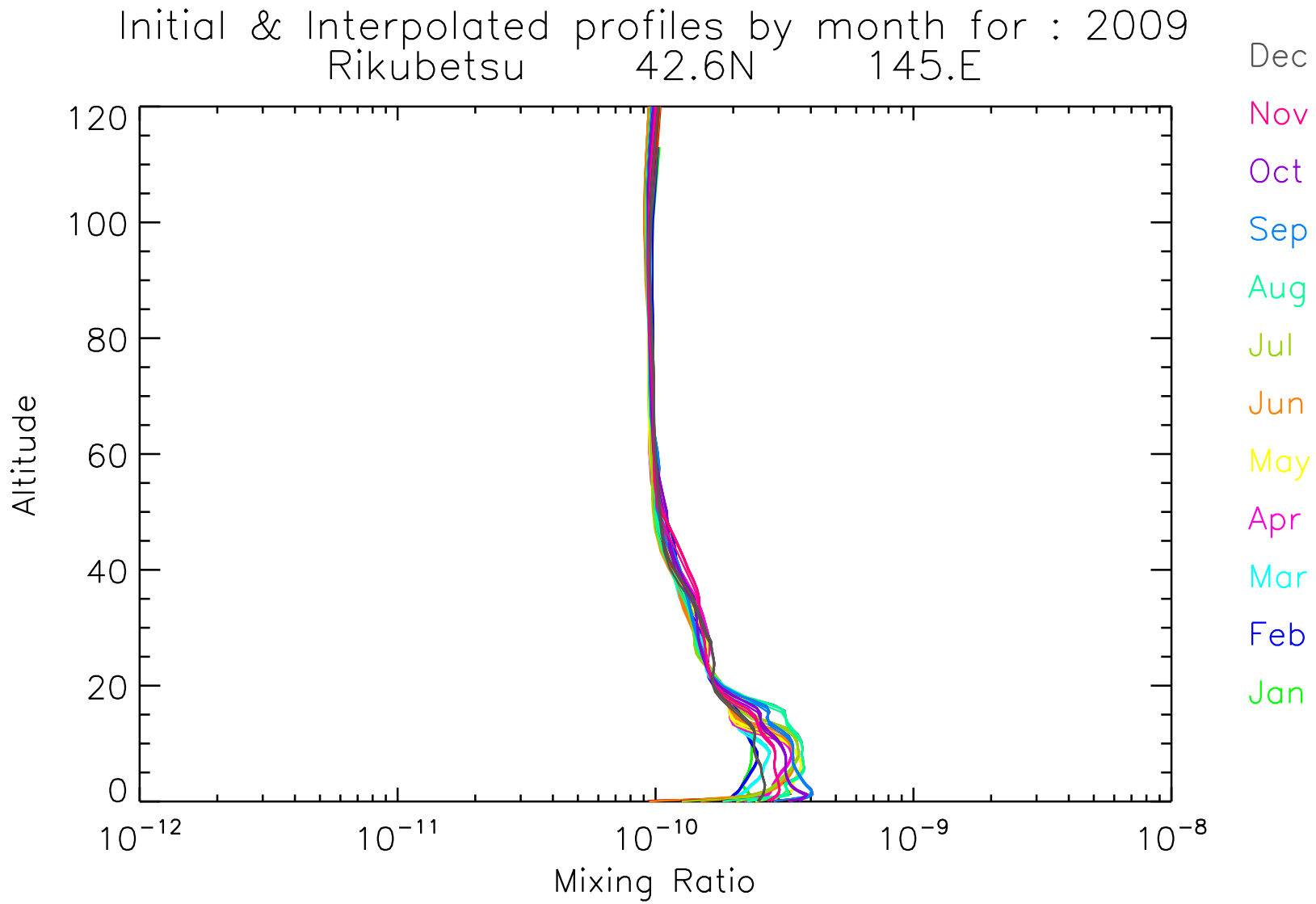
Initial & Interpolated profiles by month for : 2009
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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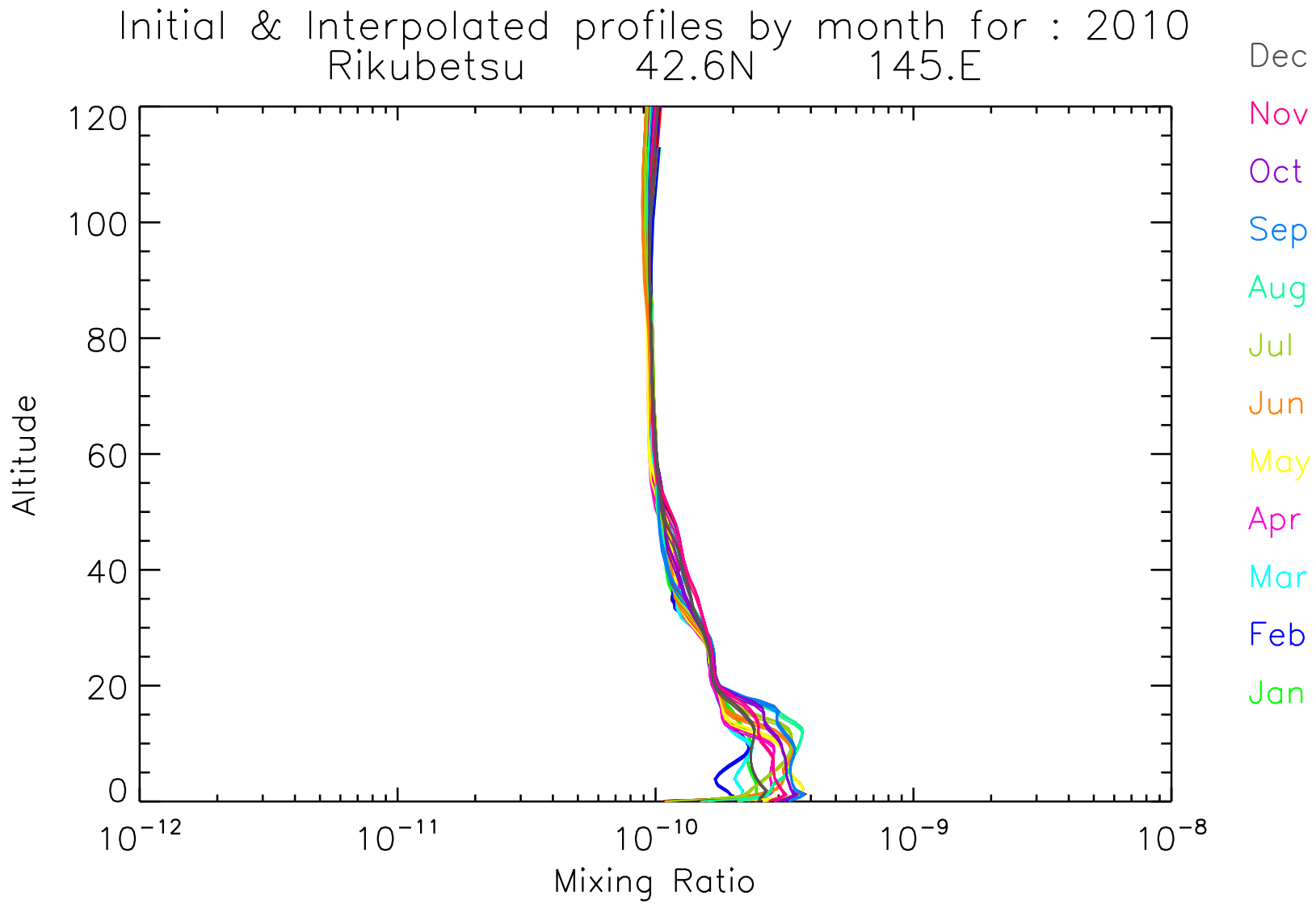
Initial & Interpolated profiles by month for : 2010
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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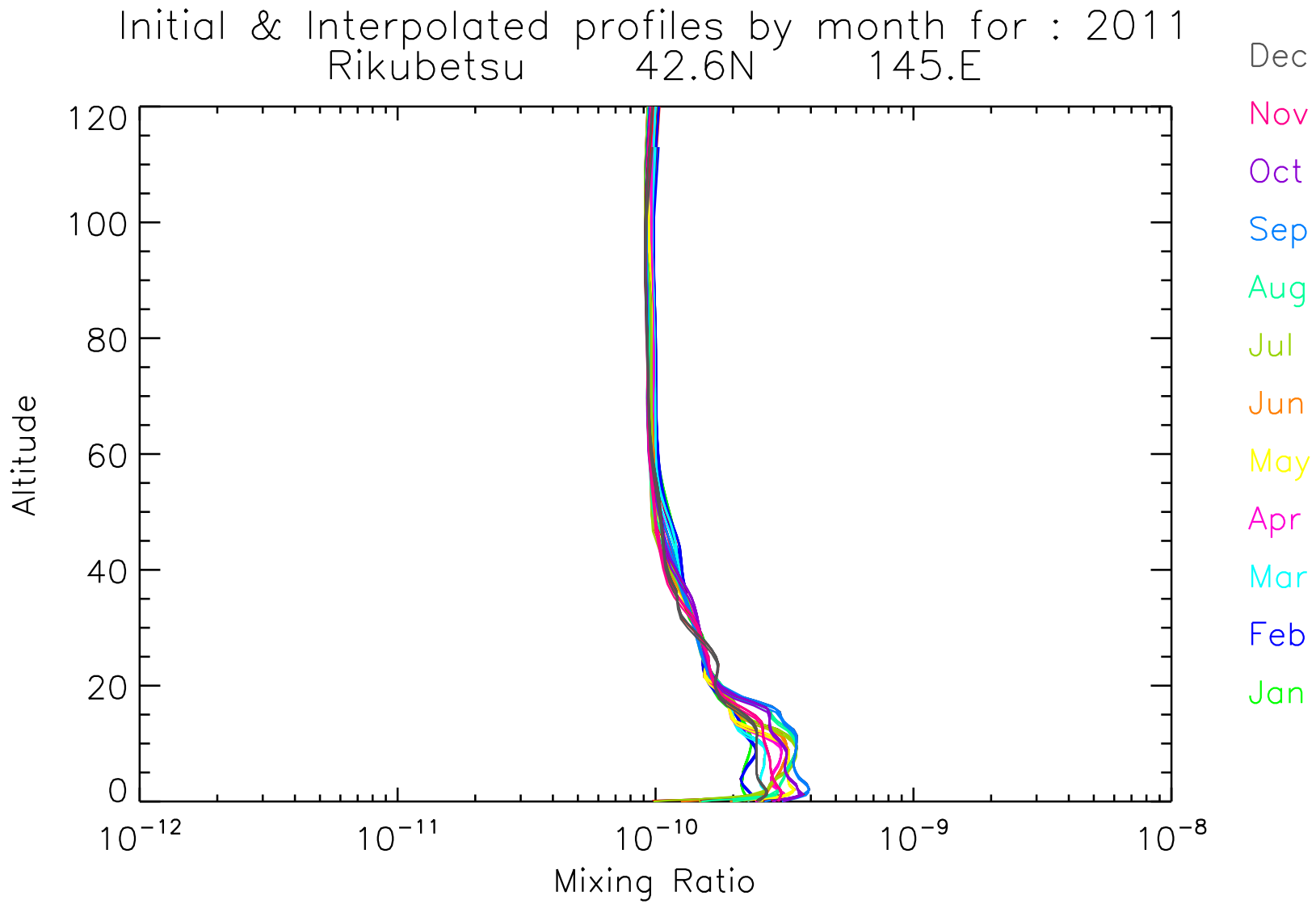
Initial & Interpolated profiles by month for : 2011
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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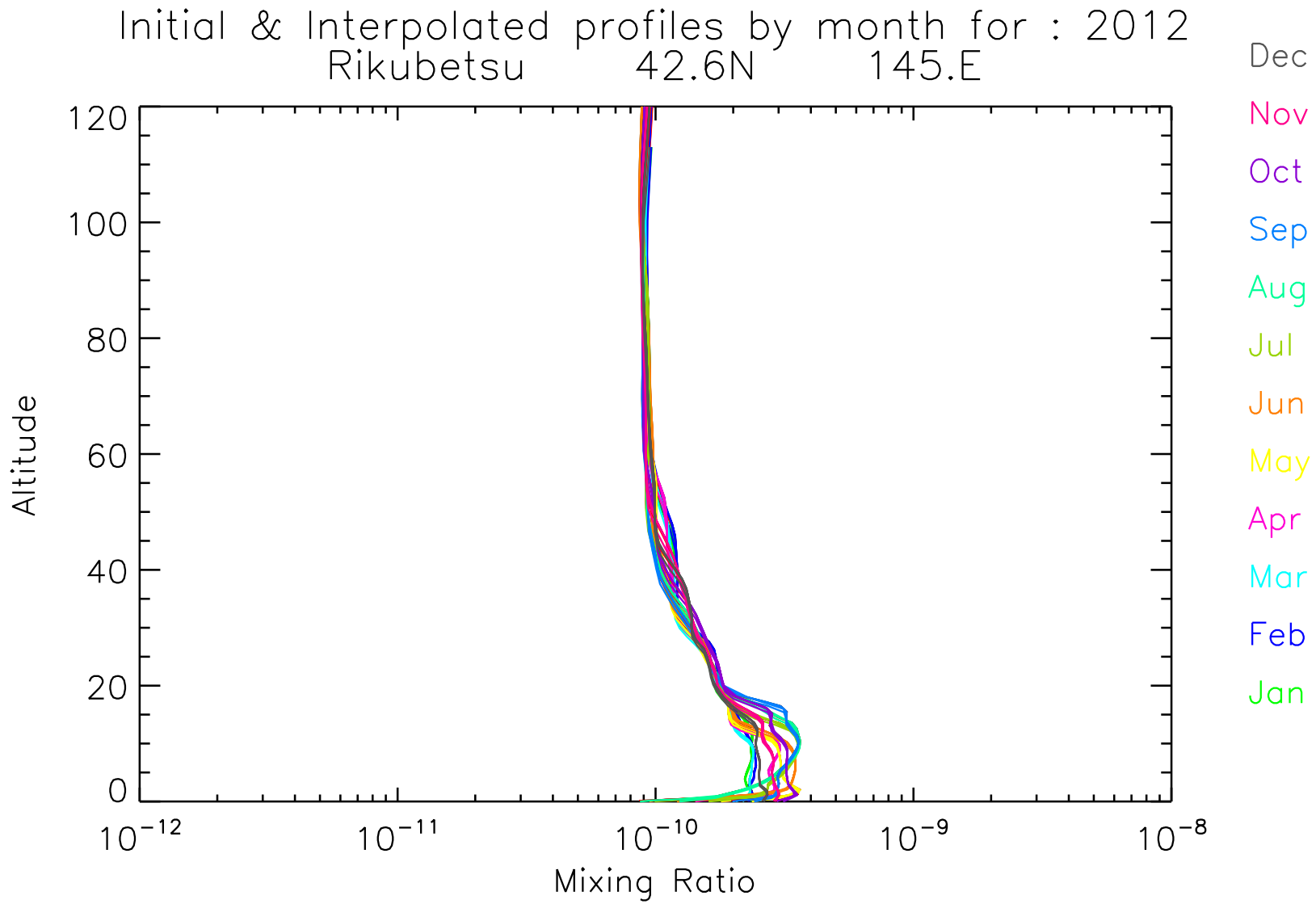
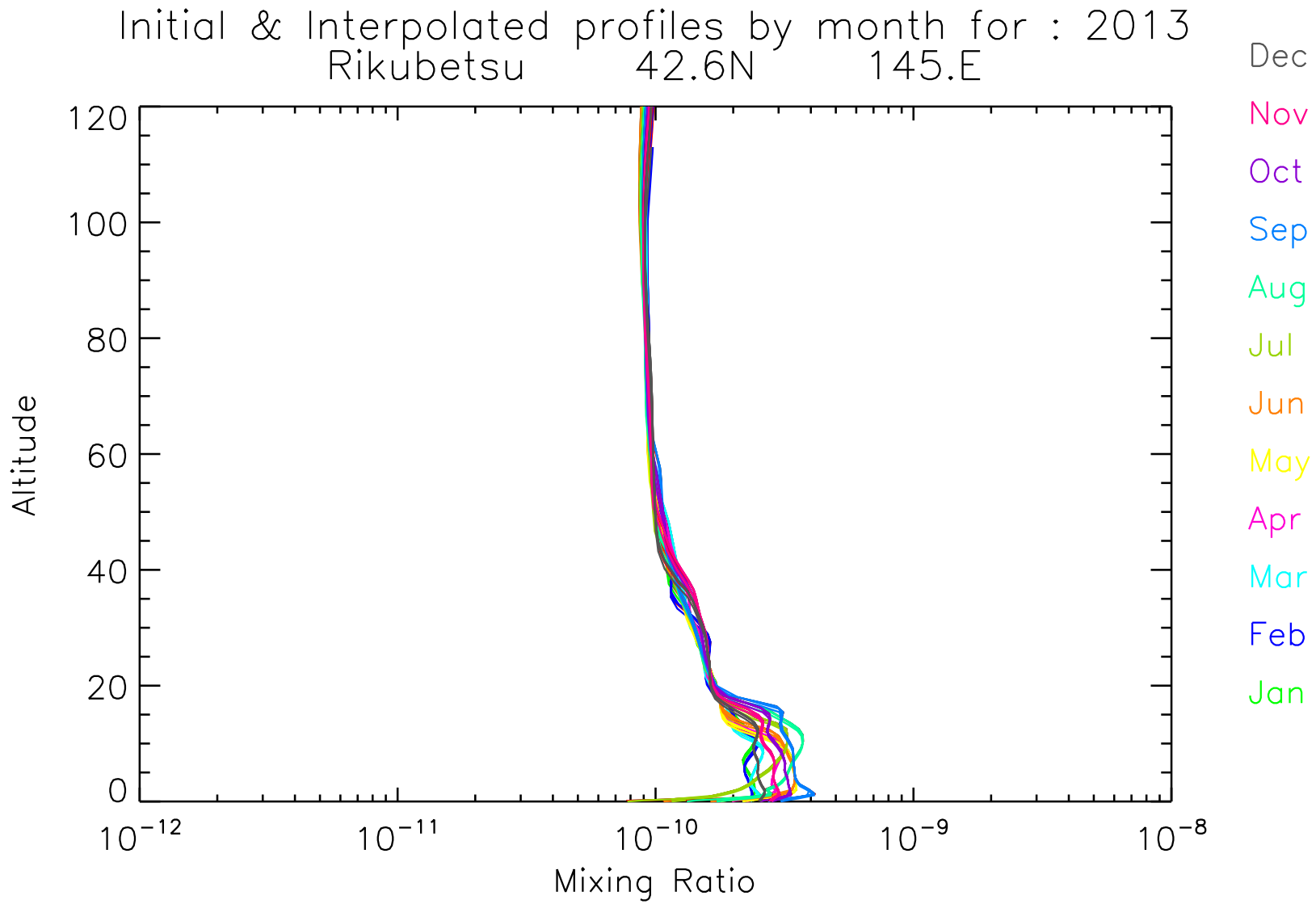
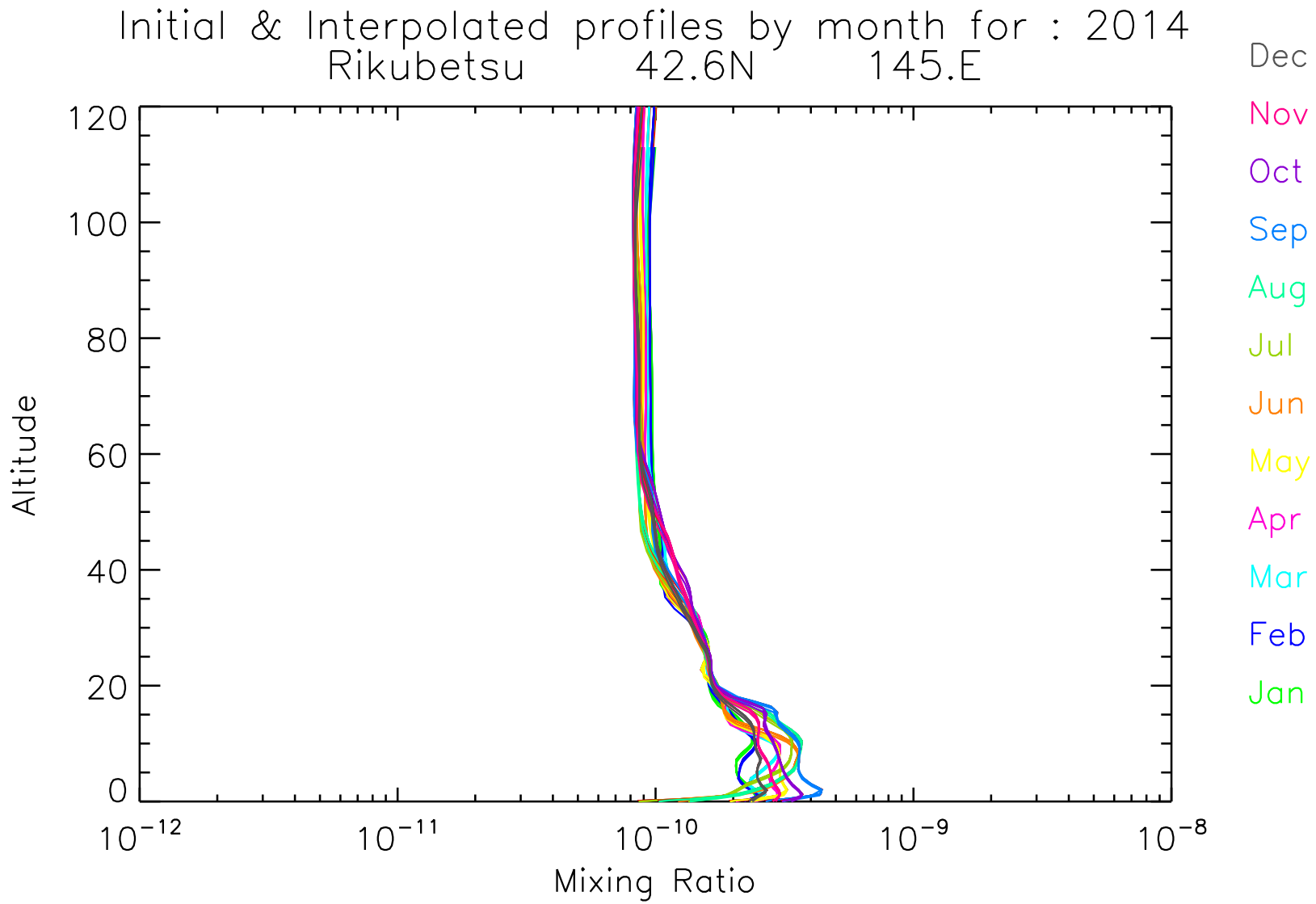
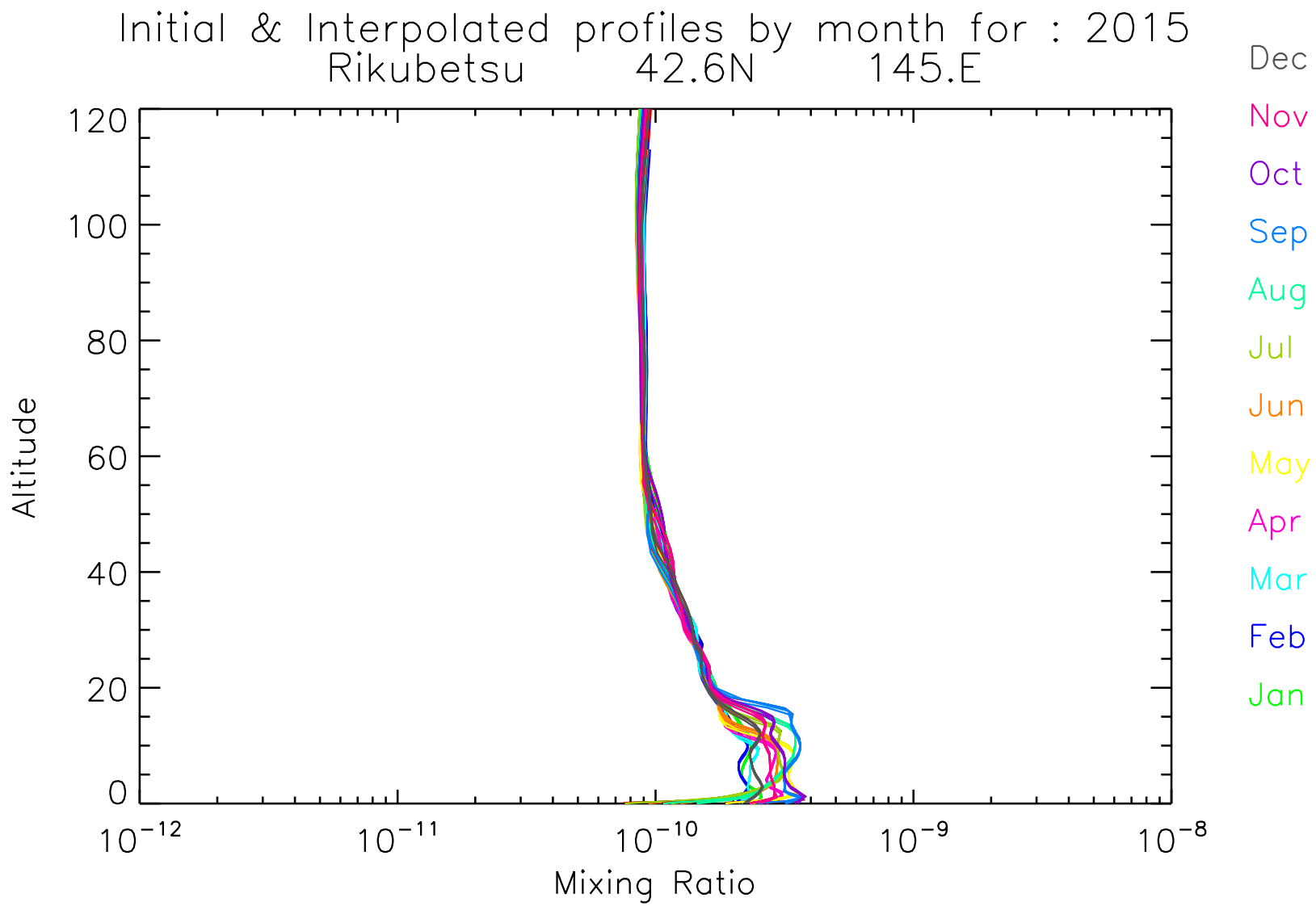
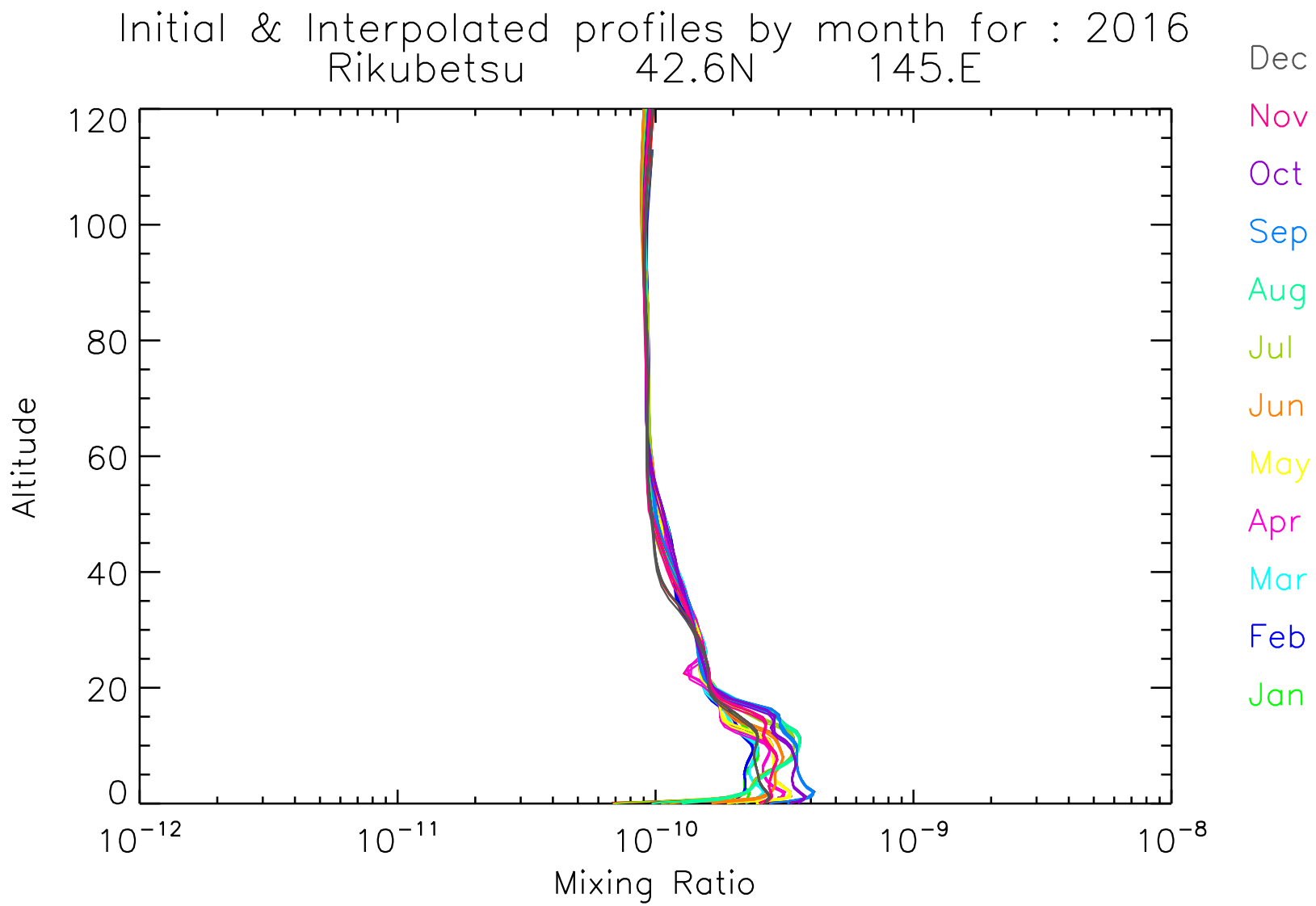
May
Apr
Mar
Feb
Jan

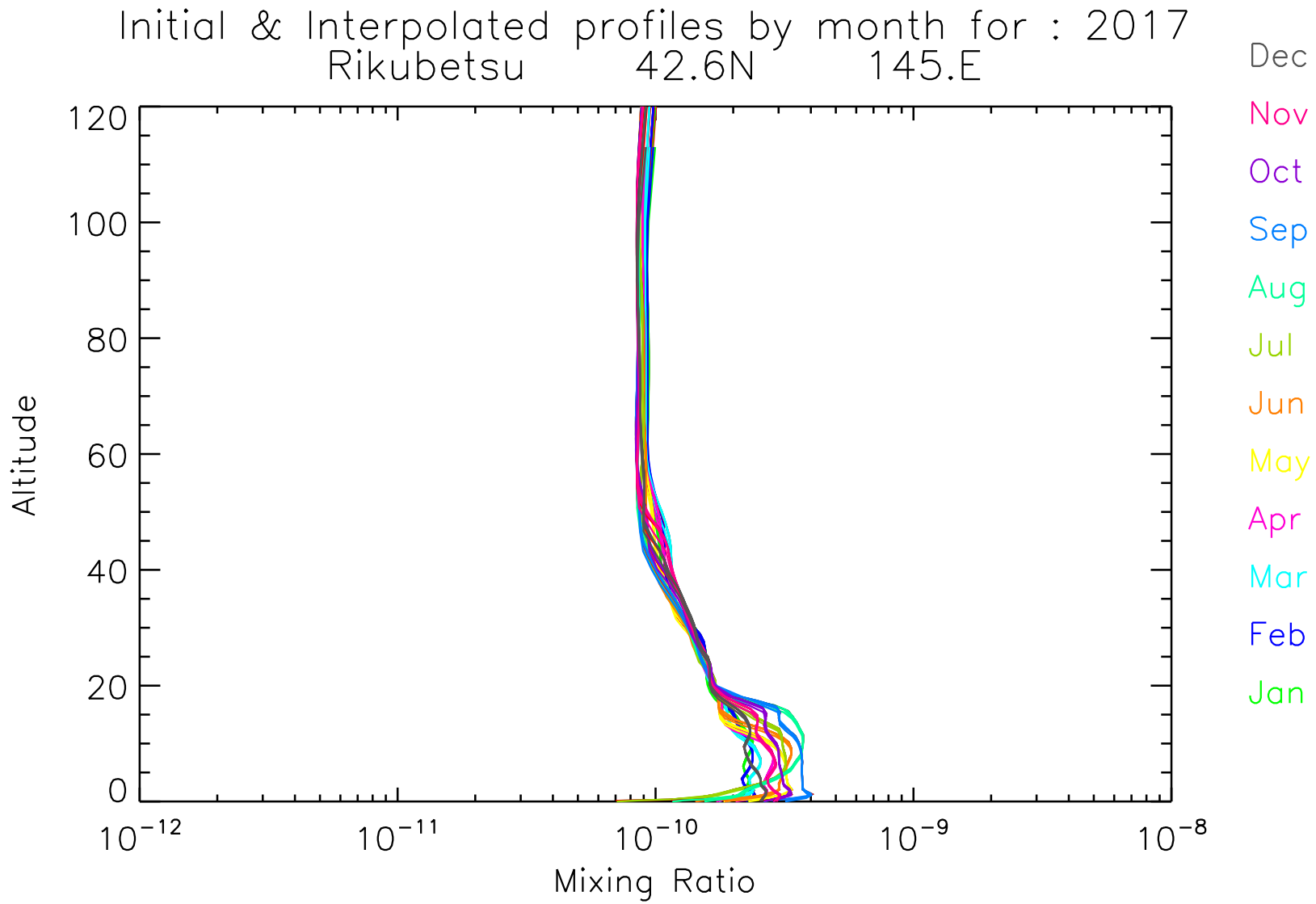

Initial & Interpolated profiles by month for : 2012
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

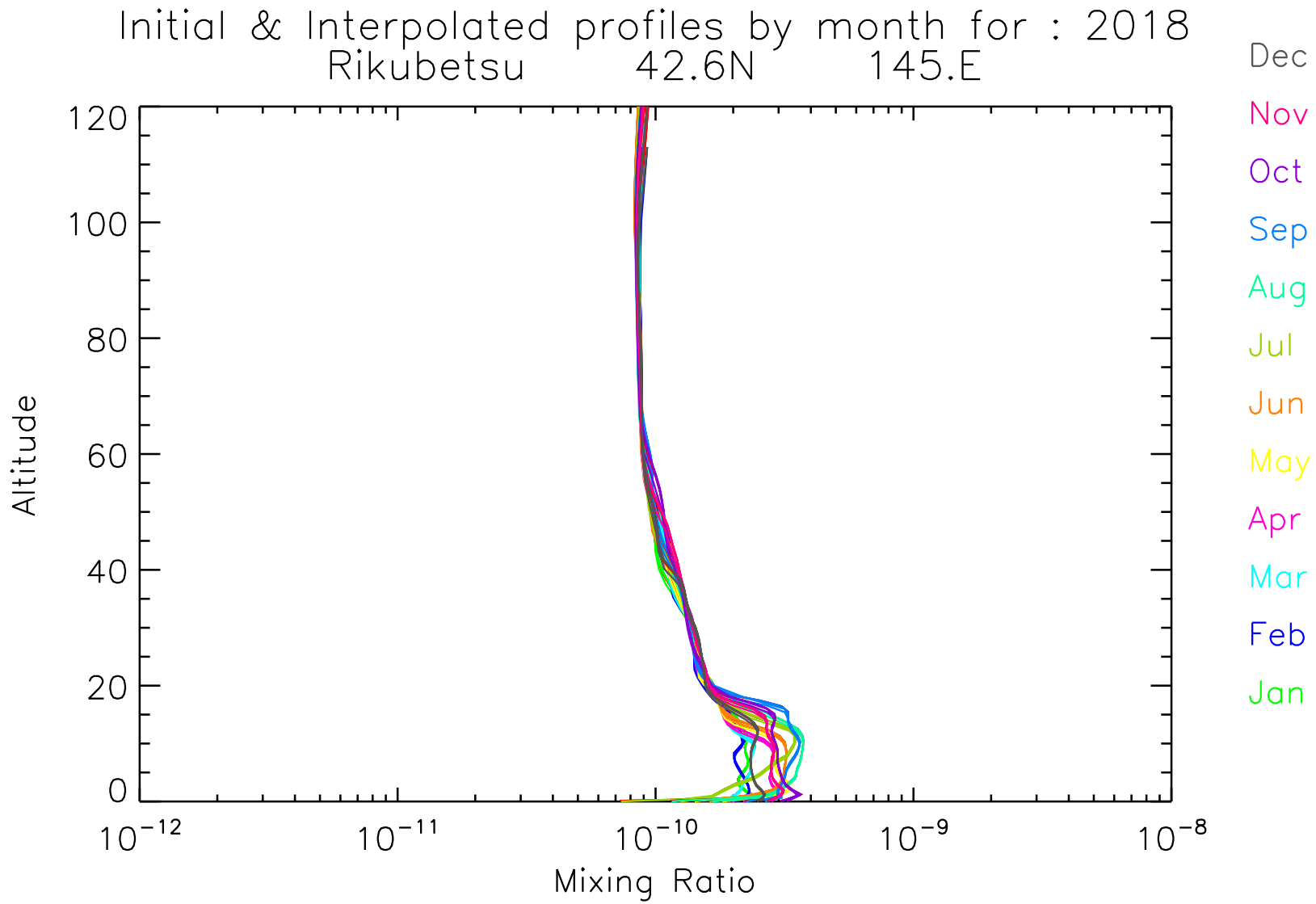

Initial & Interpolated profiles by month for : 2013
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

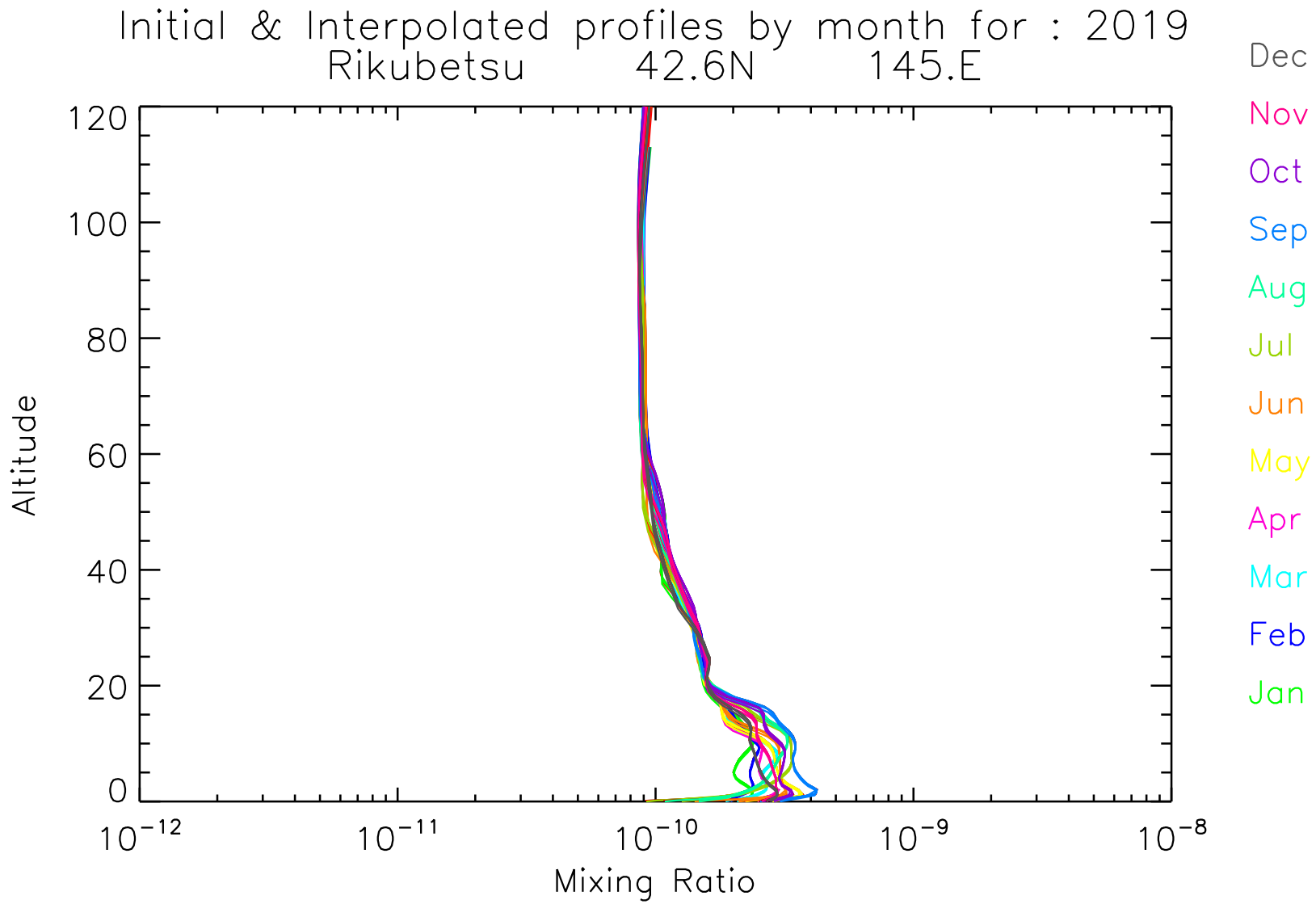

Initial & Interpolated profiles by month for : 2014
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

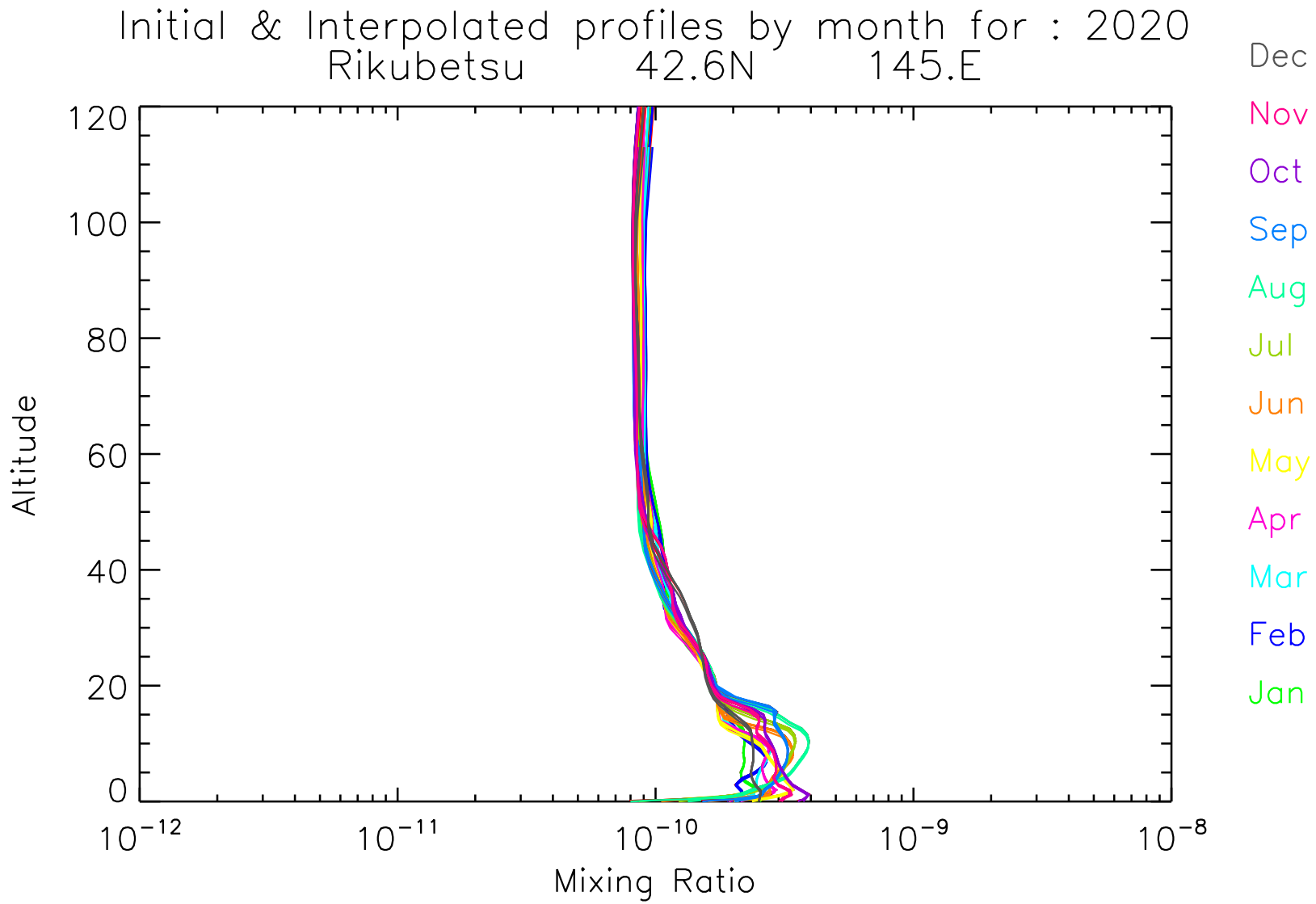

Initial & Interpolated profiles by month for : 2015
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

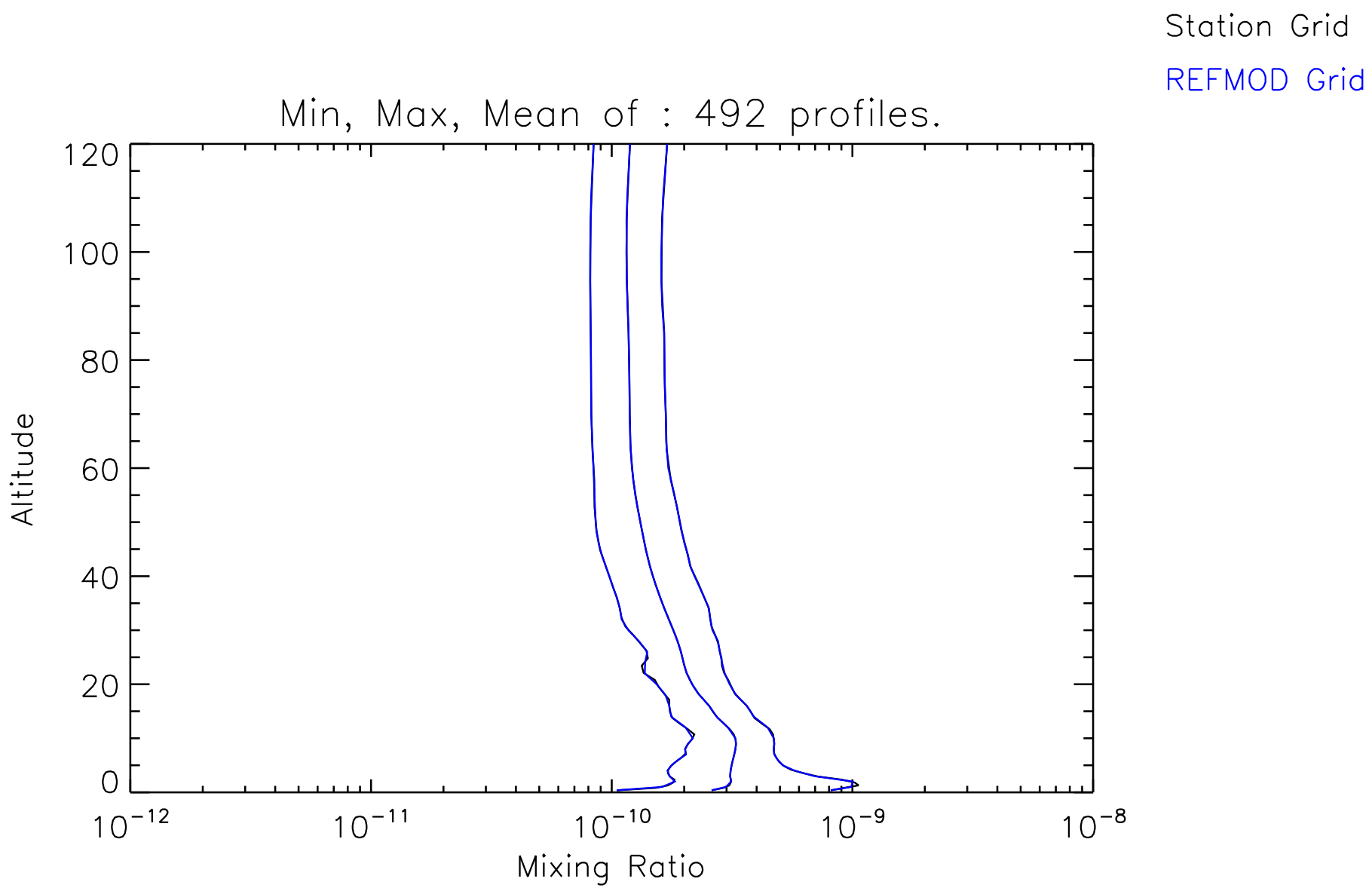

Initial & Interpolated profiles by month for : 2016
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

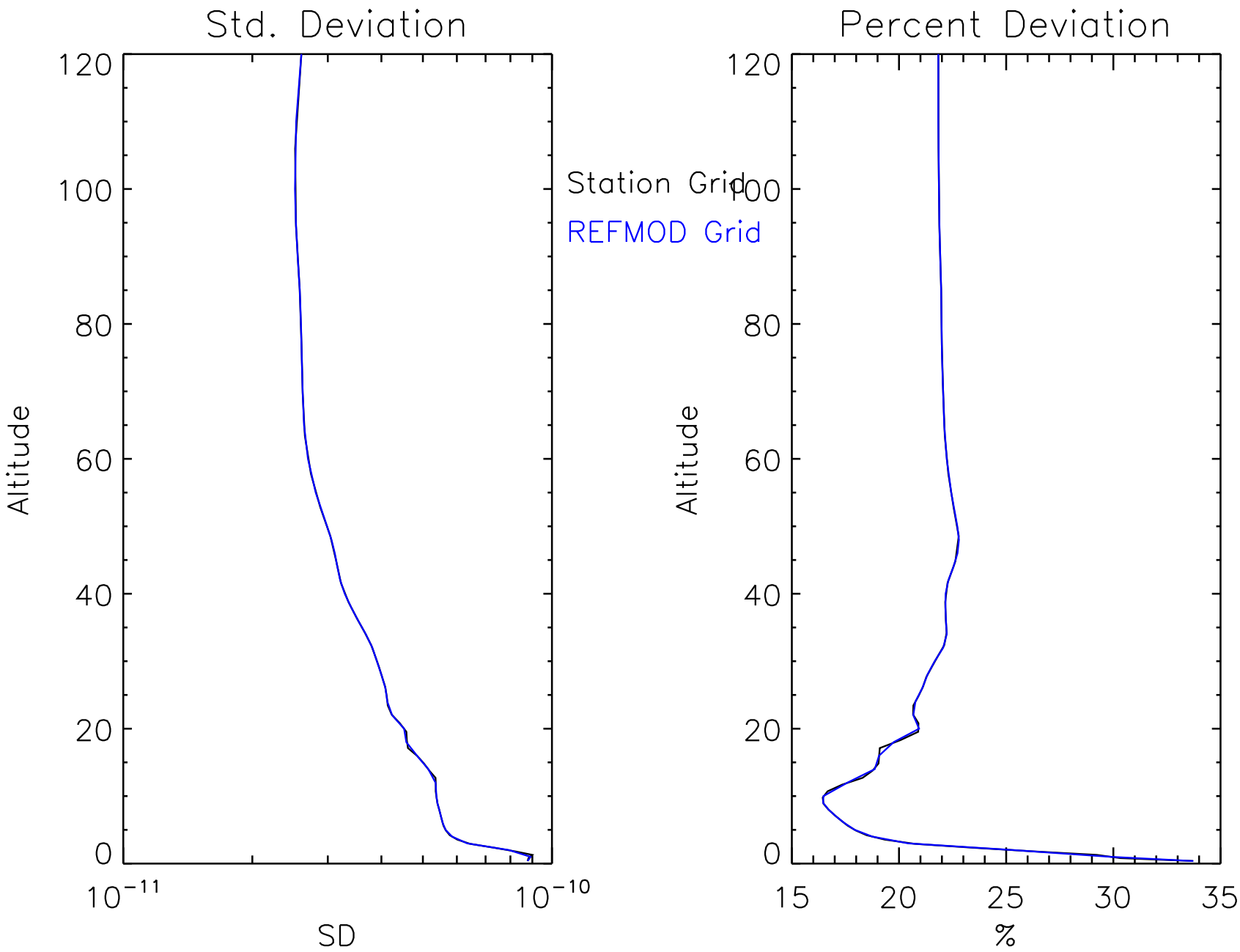

Initial & Interpolated profiles by month for : 2017
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

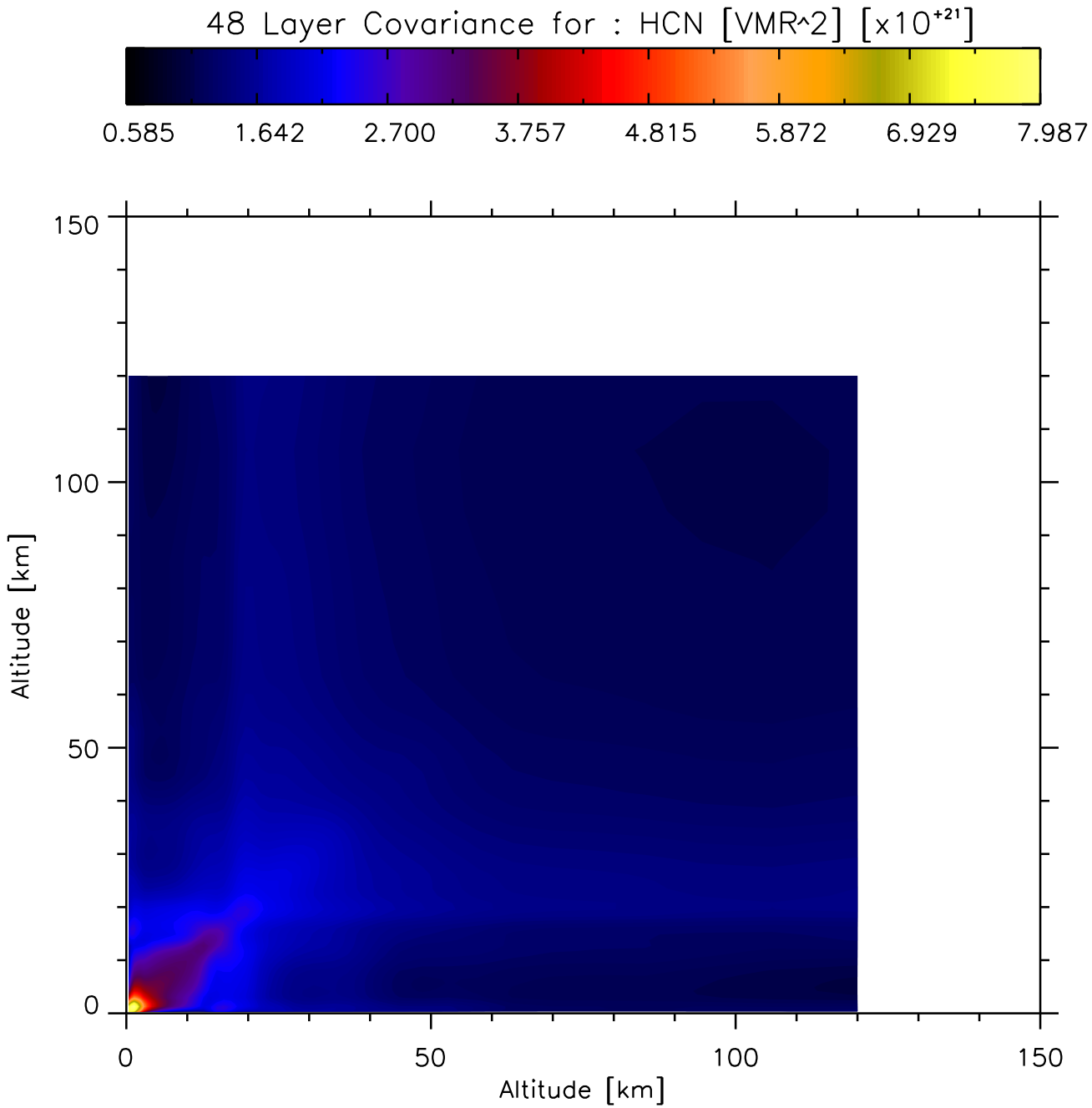

Initial & Interpolated profiles by month for : 2018
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

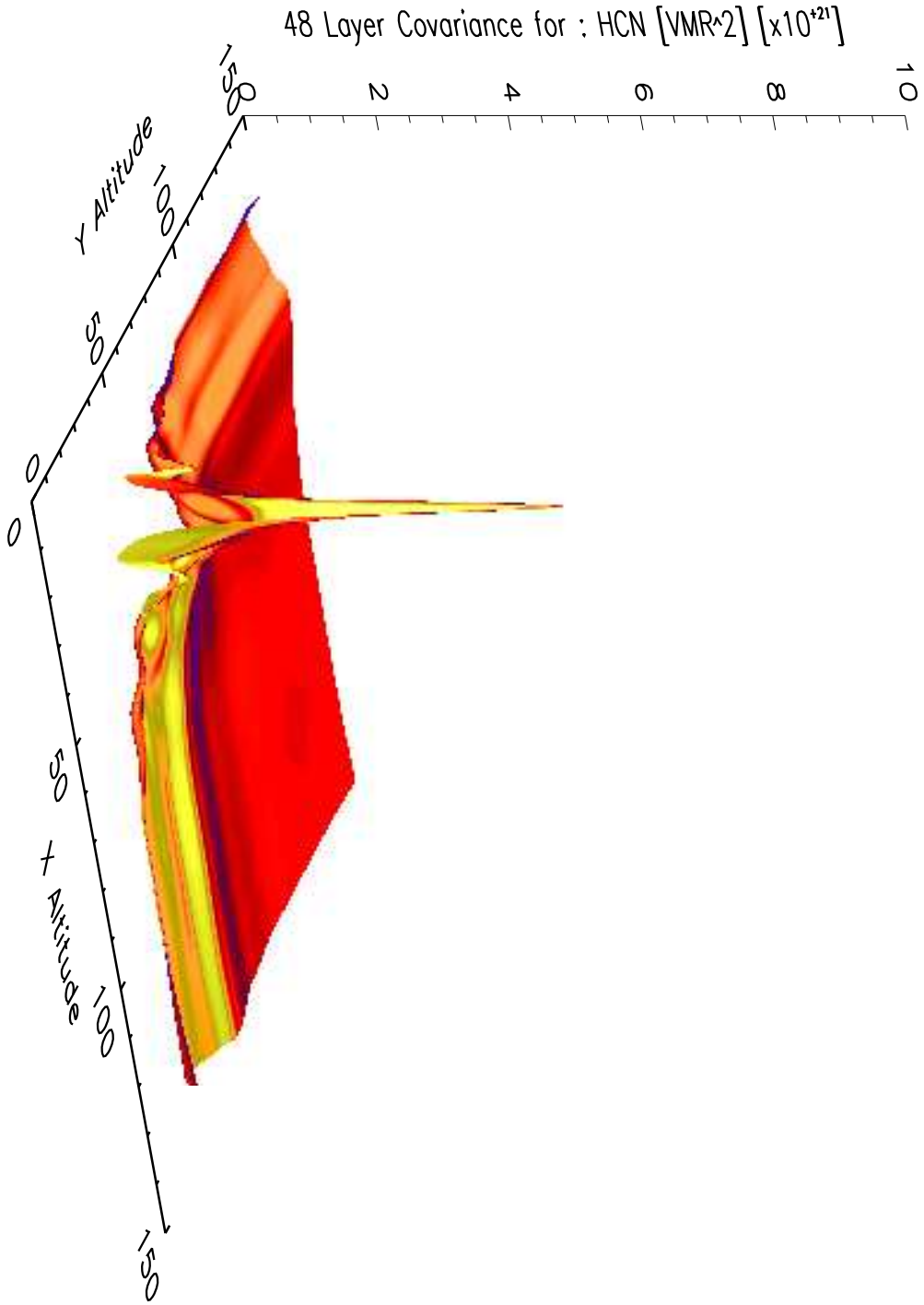

Initial & Interpolated profiles by month for : 2019
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

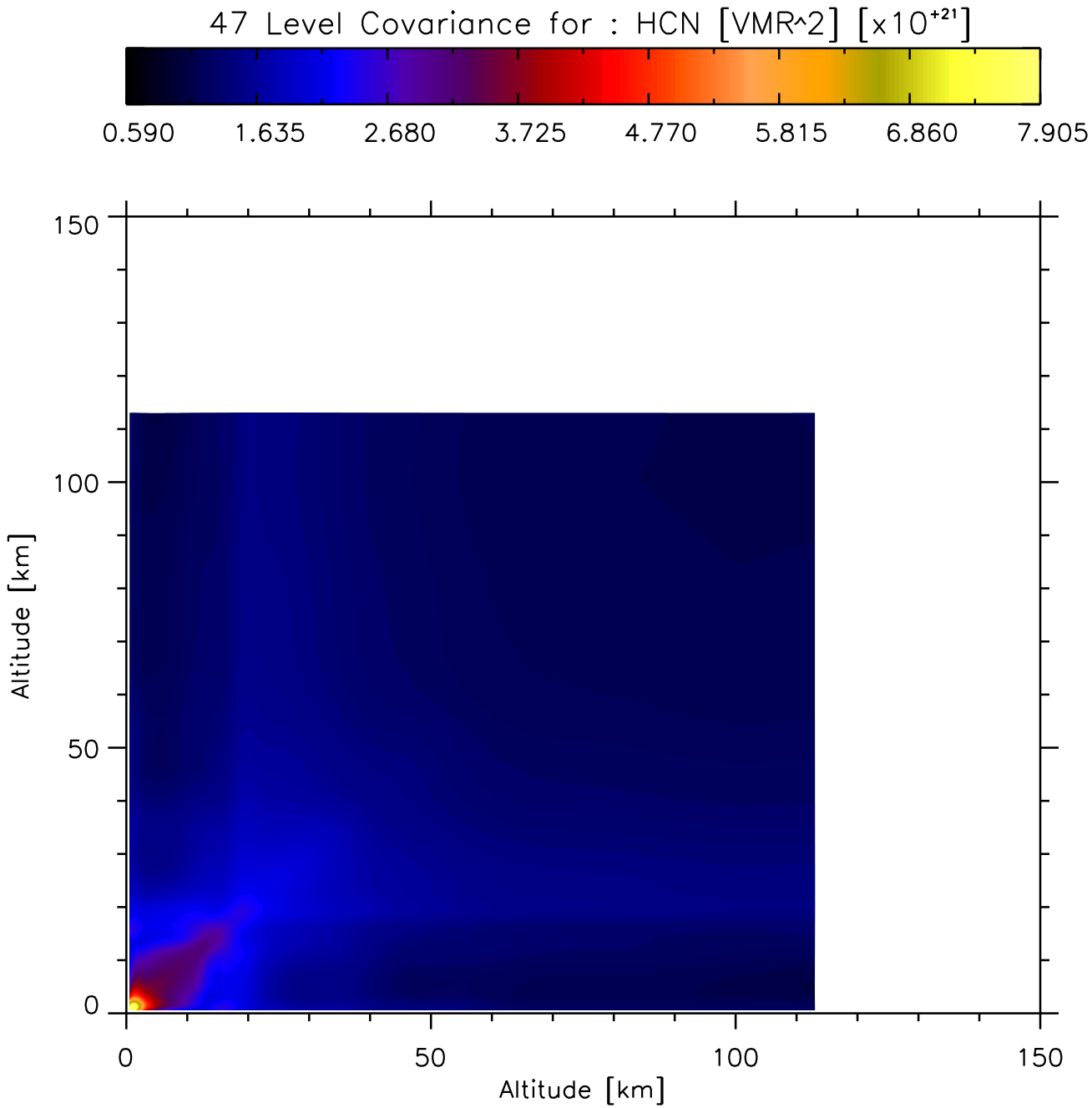

Initial & Interpolated profiles by month for : 2020
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

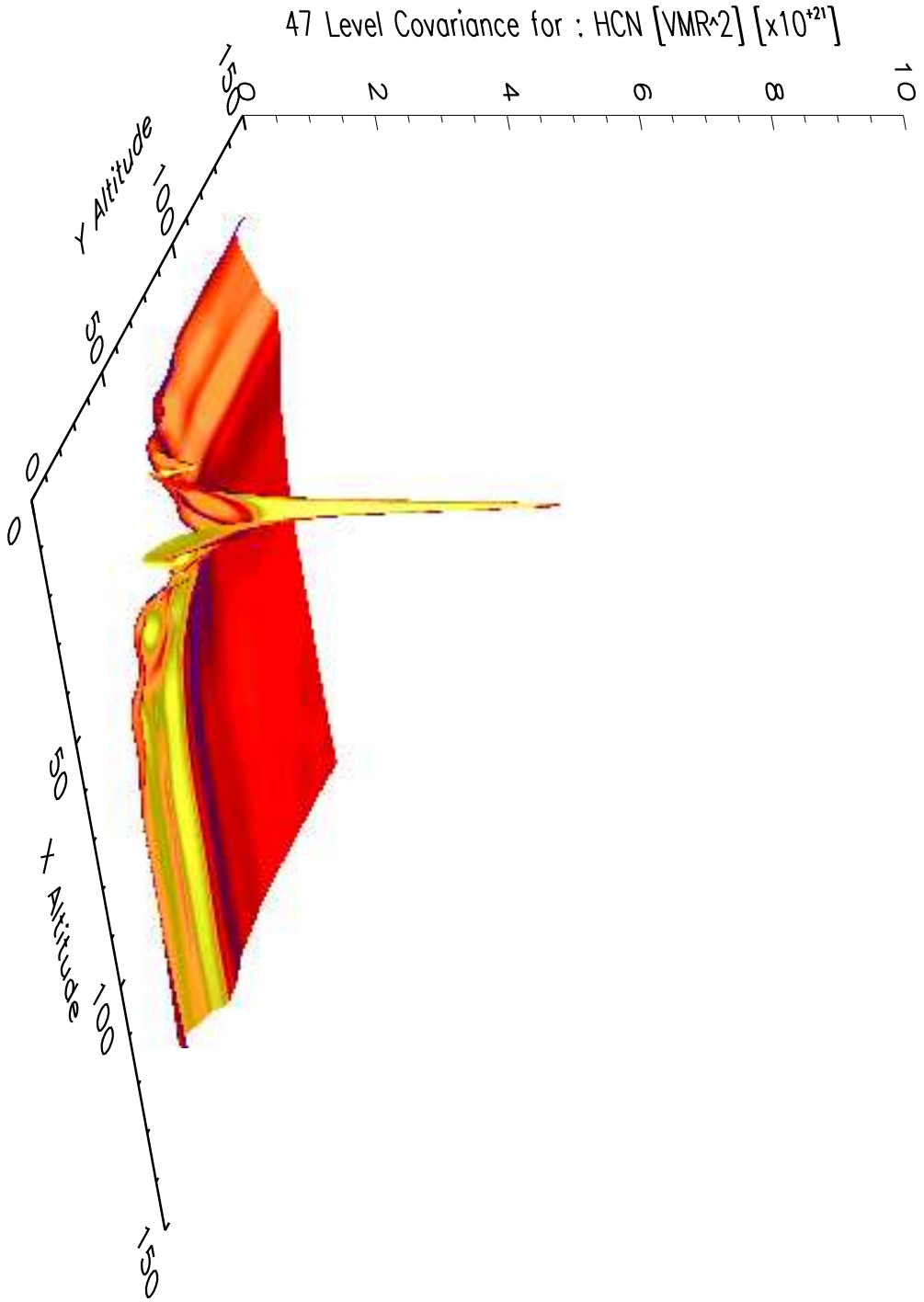

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-11}
10^{-10}
SD
15
20
25
30
35
%


48 Layer Covariance for : HCN [VMR^2] [x10^+21]
0.585
1.642
2.700
3.757
4.815
5.872
6.929
7.987
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : HCN [VMR^2] [x10^+21]
150
2
4
6
8
10
Y Altitude
100
50
0
0
50
X Altitude
100
150


47 Level Covariance for : HCN [VMR^2] [x10^+21]
0.590
1.635
2.680
3.725
4.770
5.815
6.860
7.905
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


47 Level Covariance for : HCN [VMR^2] [x10^+21]
150
2
4
6
8
10
Y Altitude
100
50
0
0
50
X Altitude
100
150