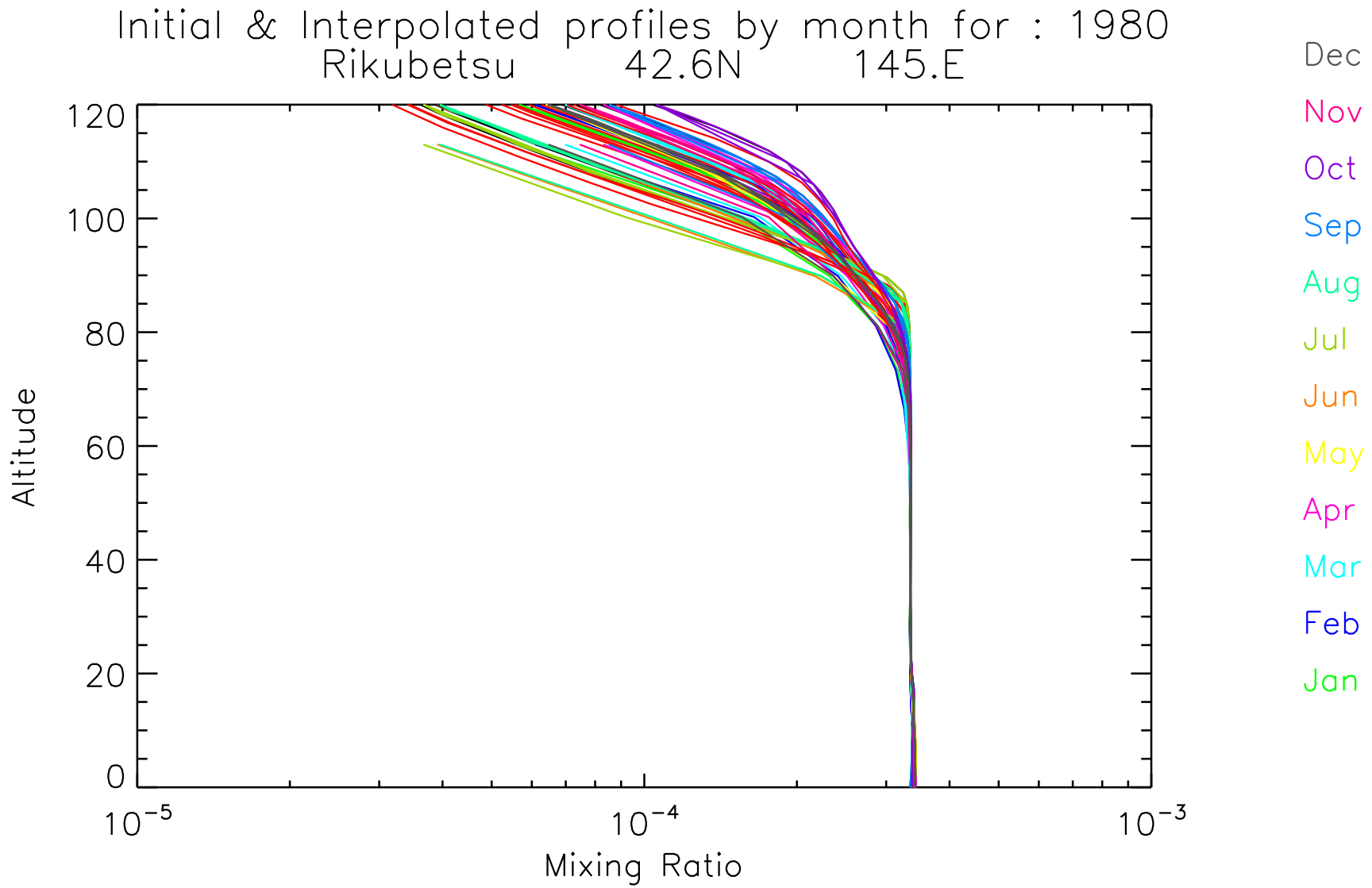
Initial & Interpolated profiles by month for : 1980
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Altitude
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Mixing Ratio
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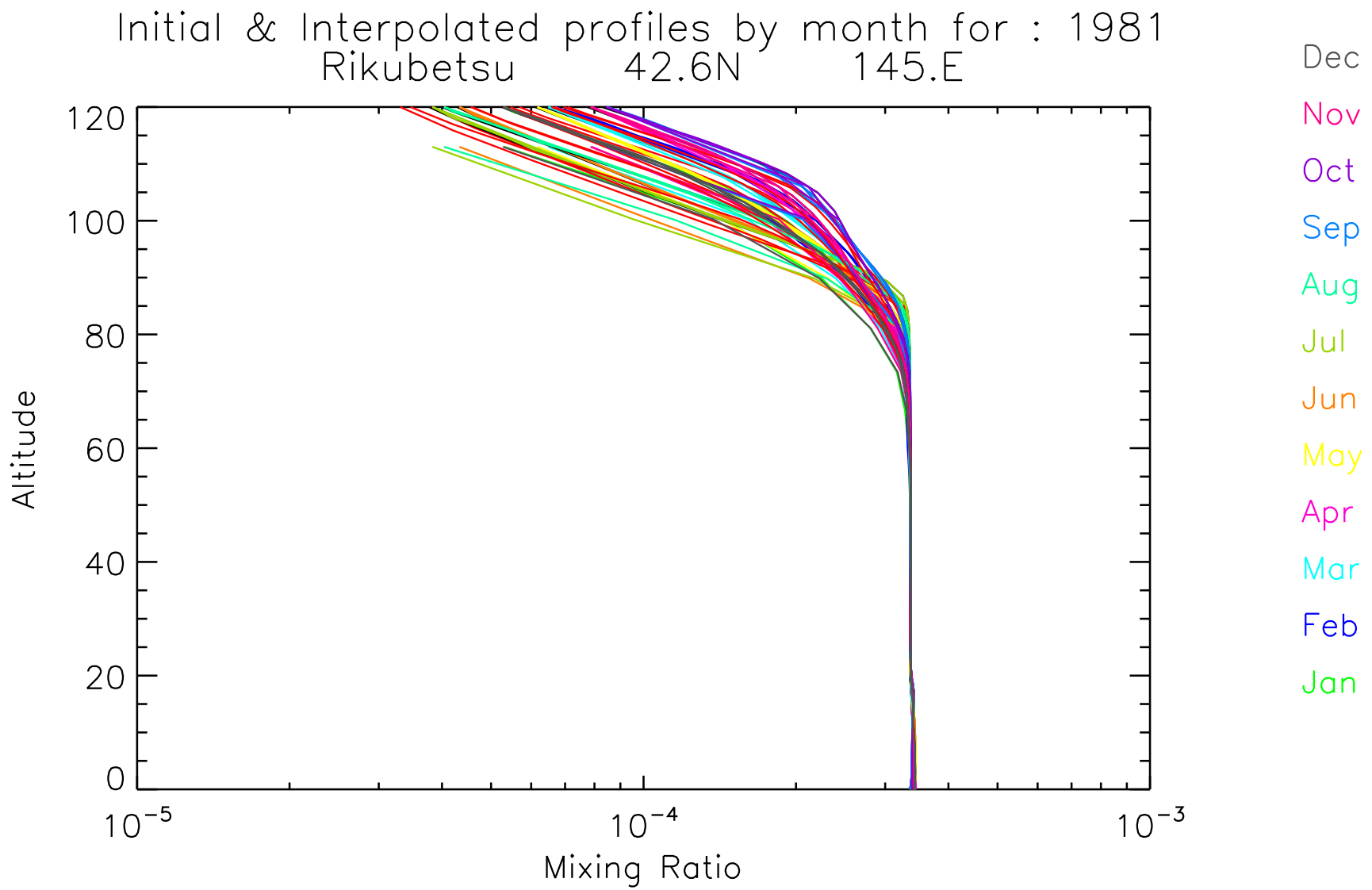
Initial & Interpolated profiles by month for : 1981
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Mixing Ratio
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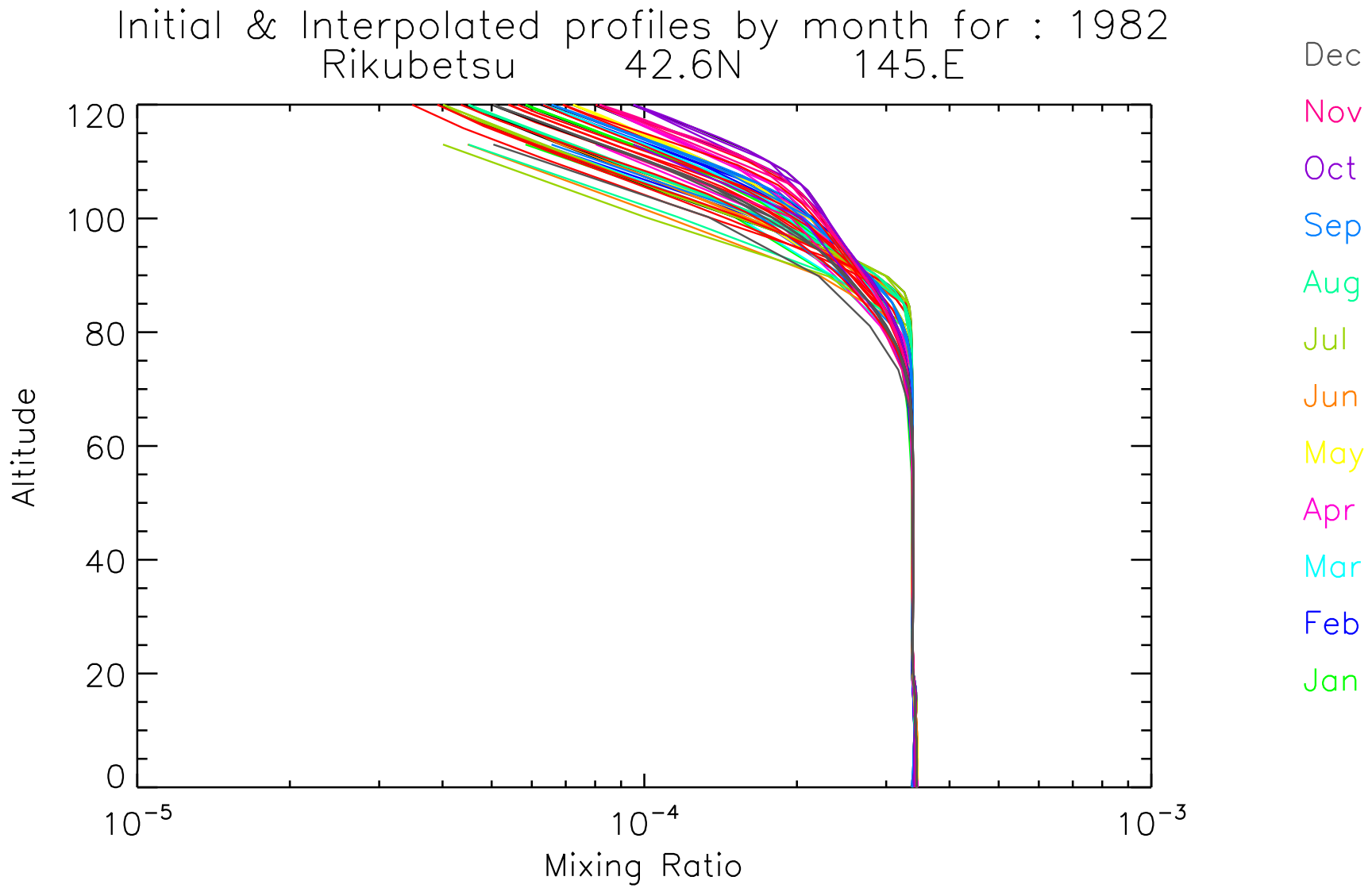
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Mixing Ratio
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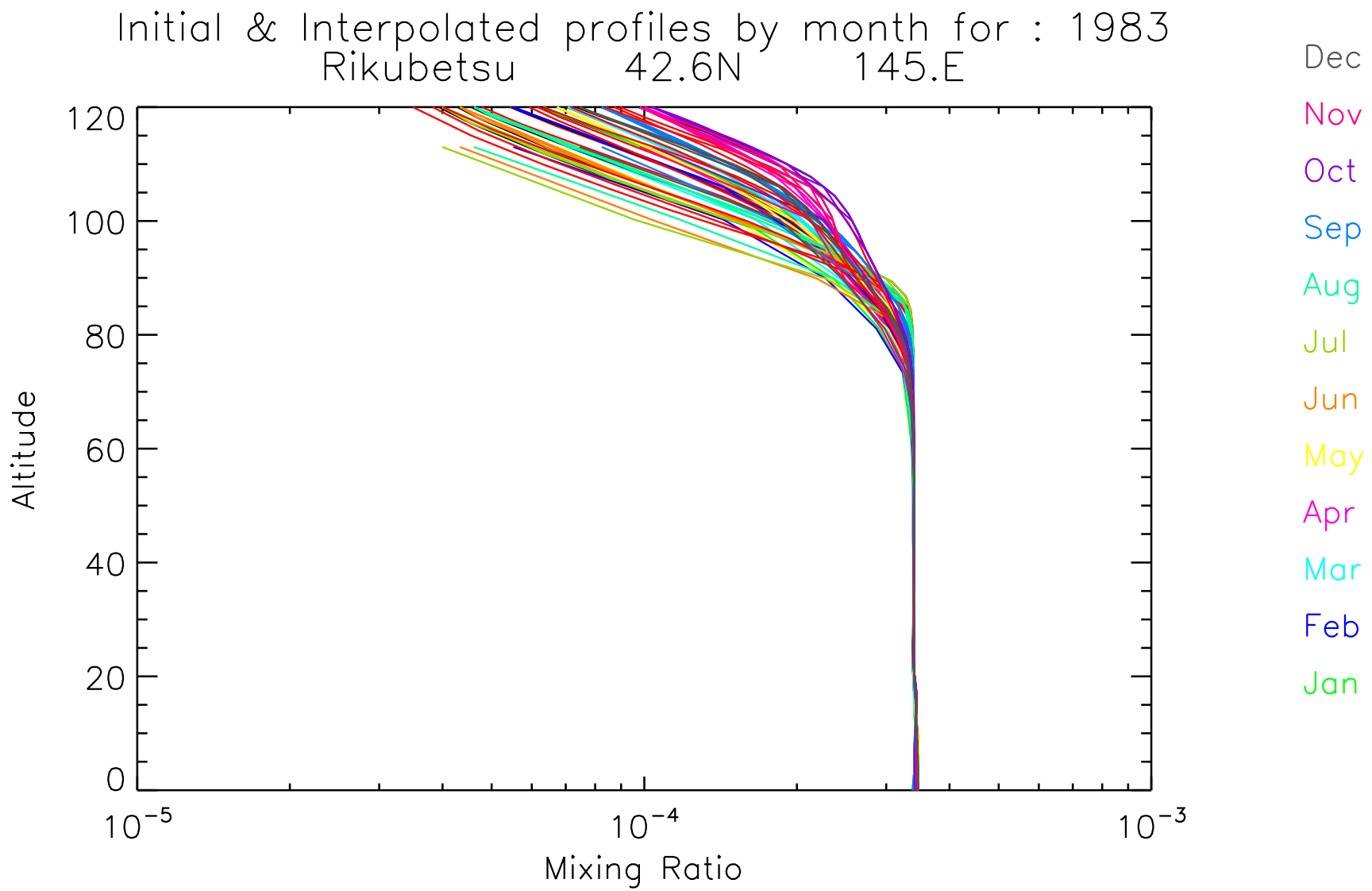
Initial & Interpolated profiles by month for : 1983
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Mixing Ratio
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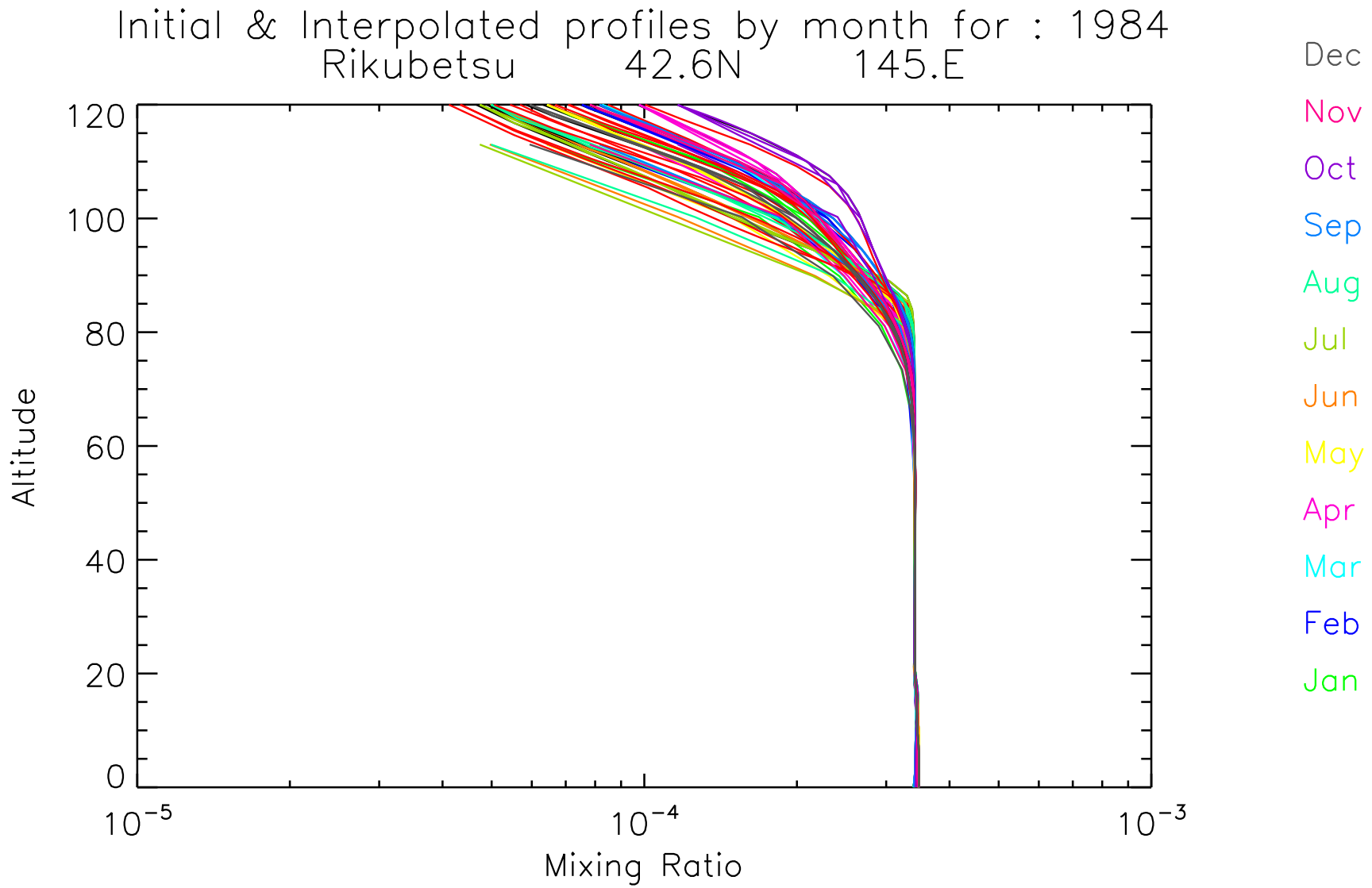
Initial & Interpolated profiles by month for : 1984
Rikubetsu 42.6N 145.E
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Mixing Ratio
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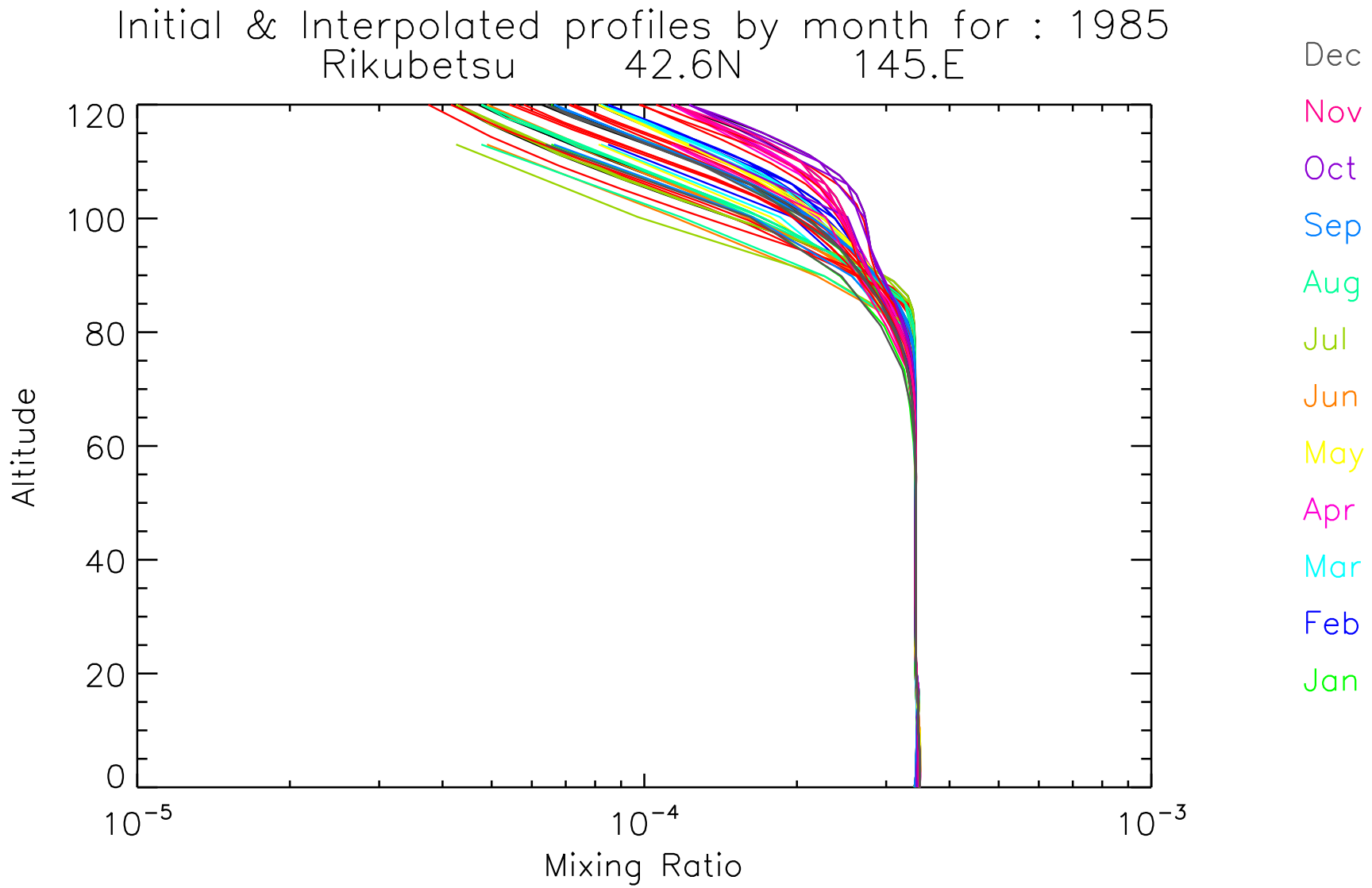
Initial & Interpolated profiles by month for : 1985
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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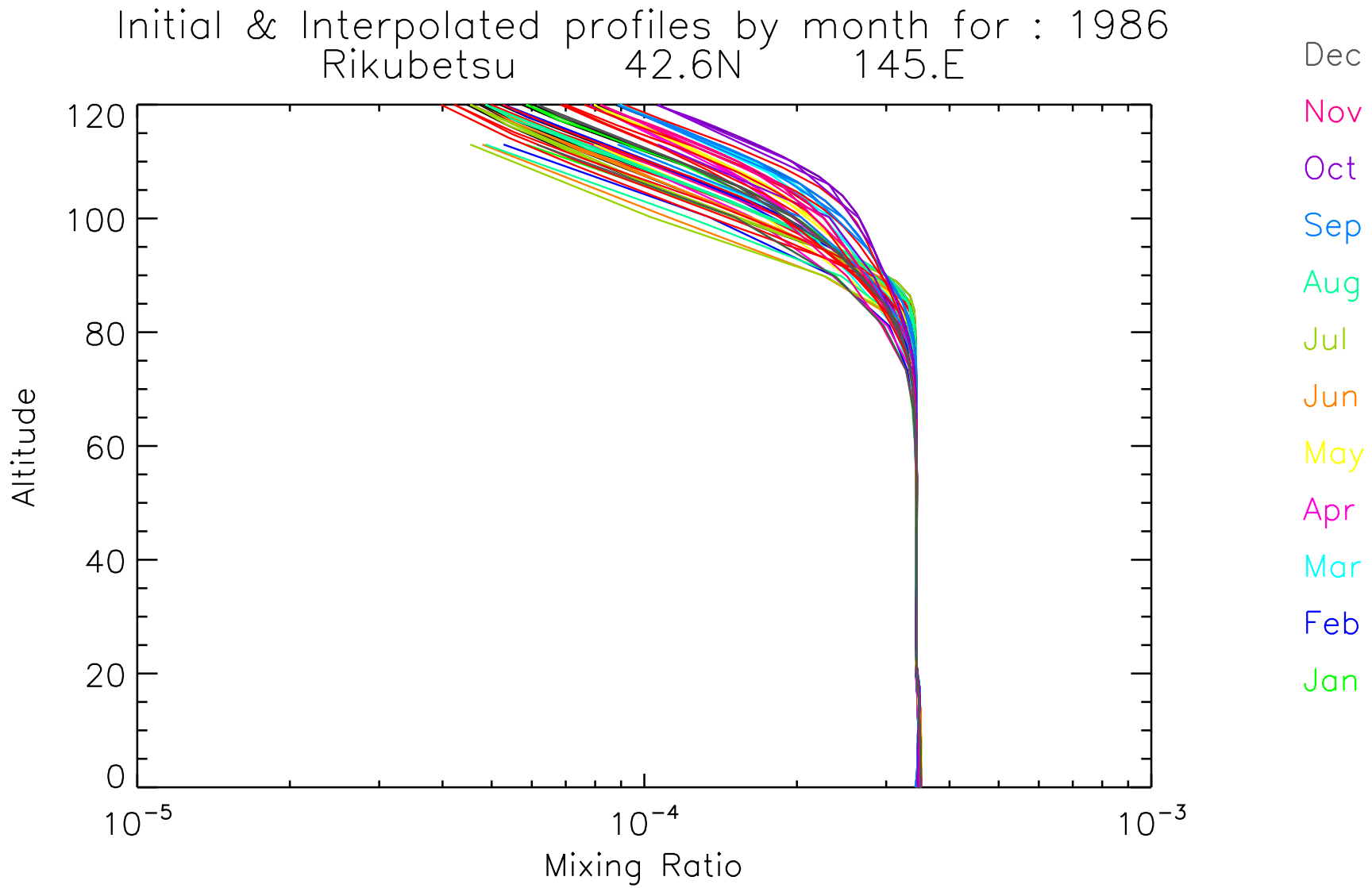
Initial & Interpolated profiles by month for : 1986
Rikubetsu 42.6N 145.E
Altitude
120
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Mixing Ratio
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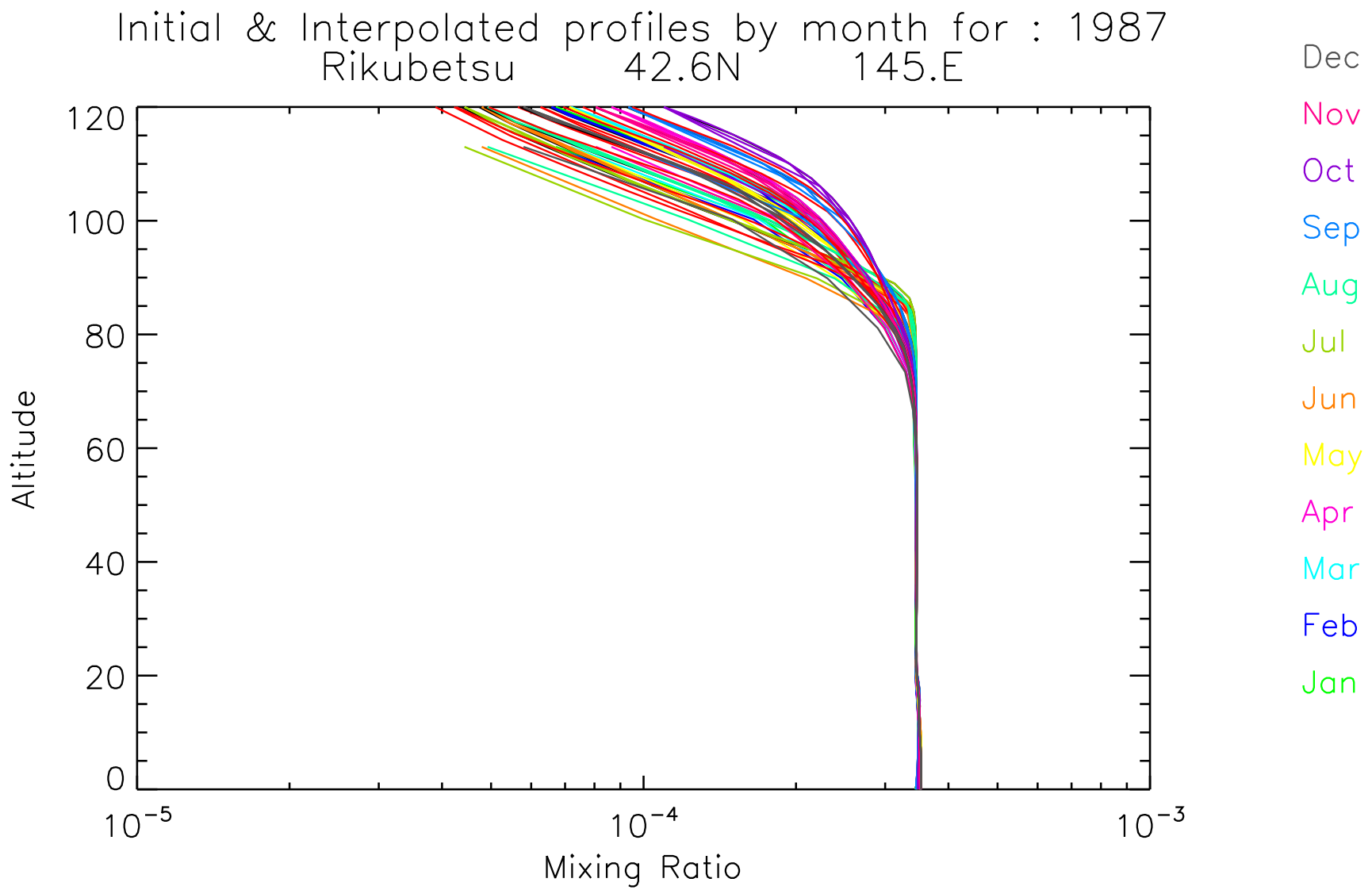
Initial & Interpolated profiles by month for : 1987
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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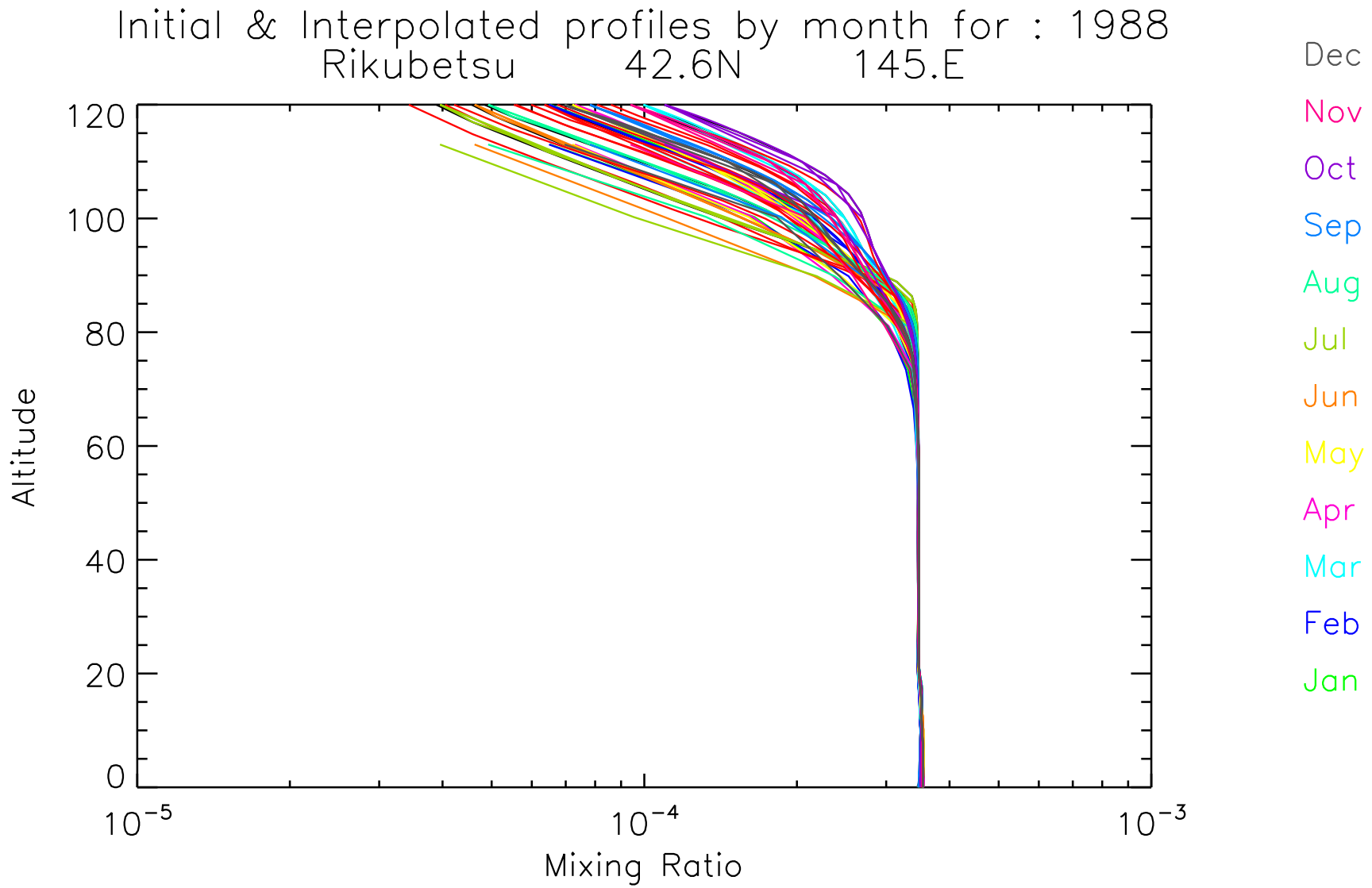
Initial & Interpolated profiles by month for : 1988
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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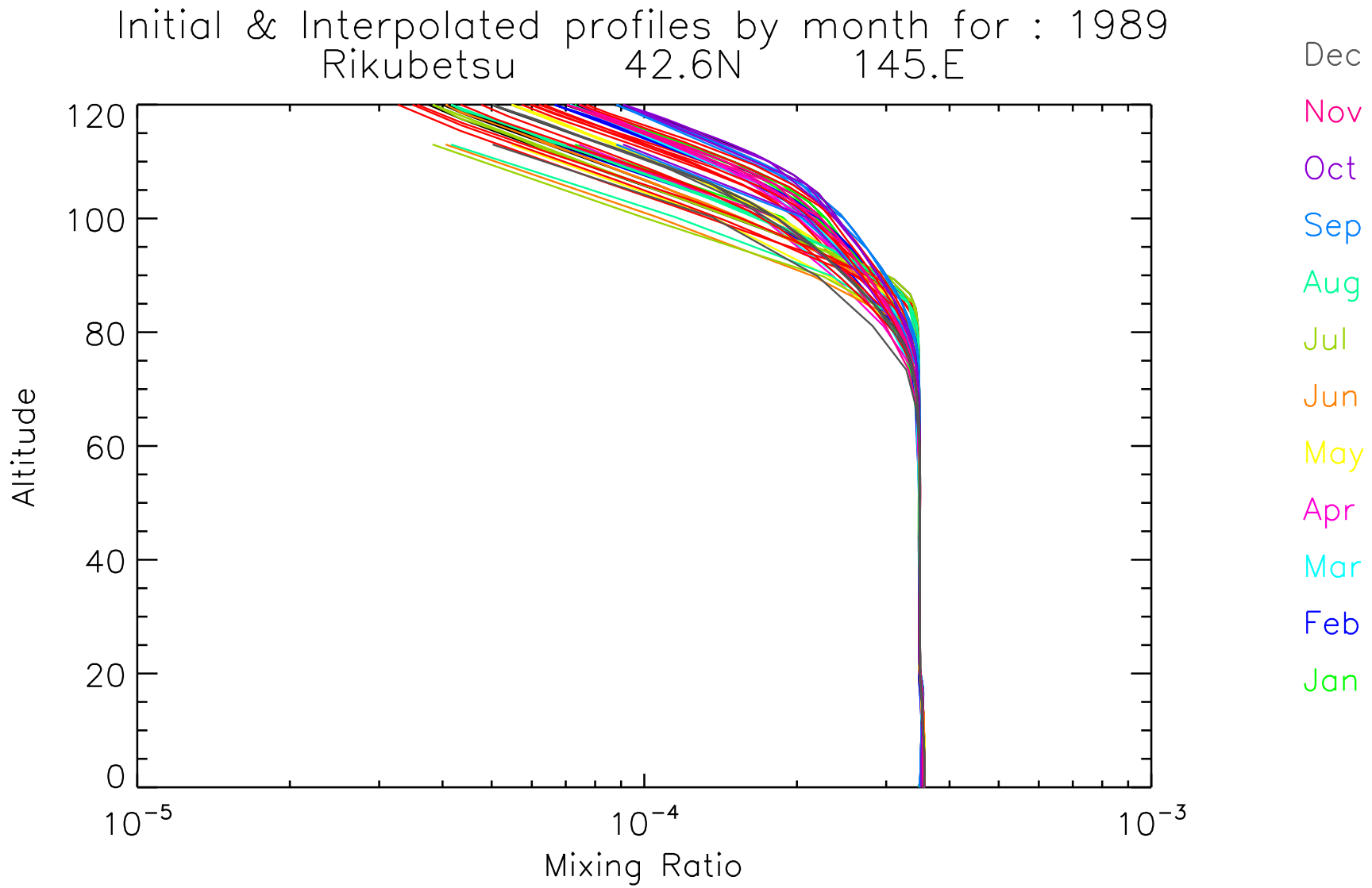
Initial & Interpolated profiles by month for : 1989
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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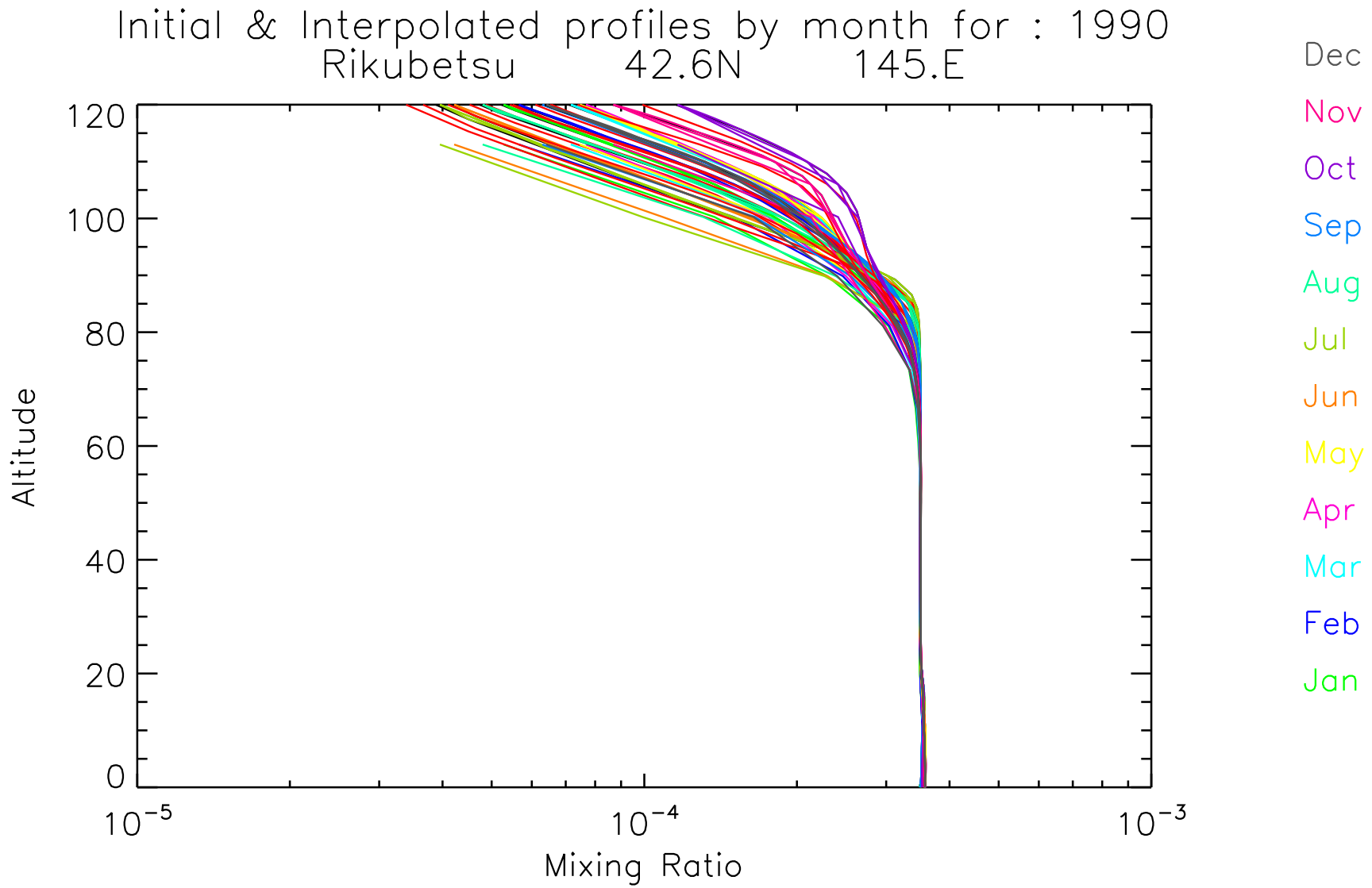
Initial & Interpolated profiles by month for : 1990
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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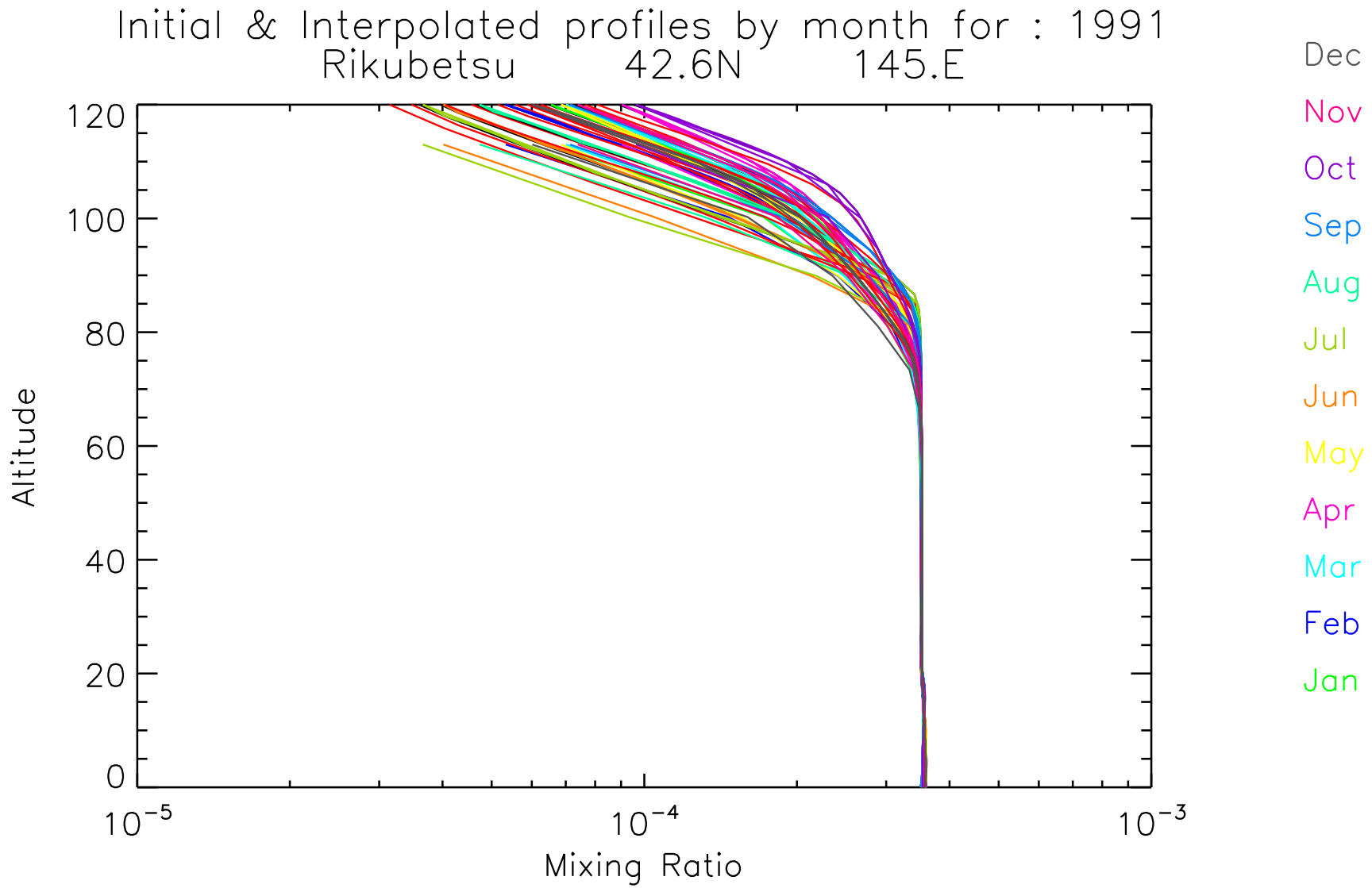
Initial & Interpolated profiles by month for : 1991
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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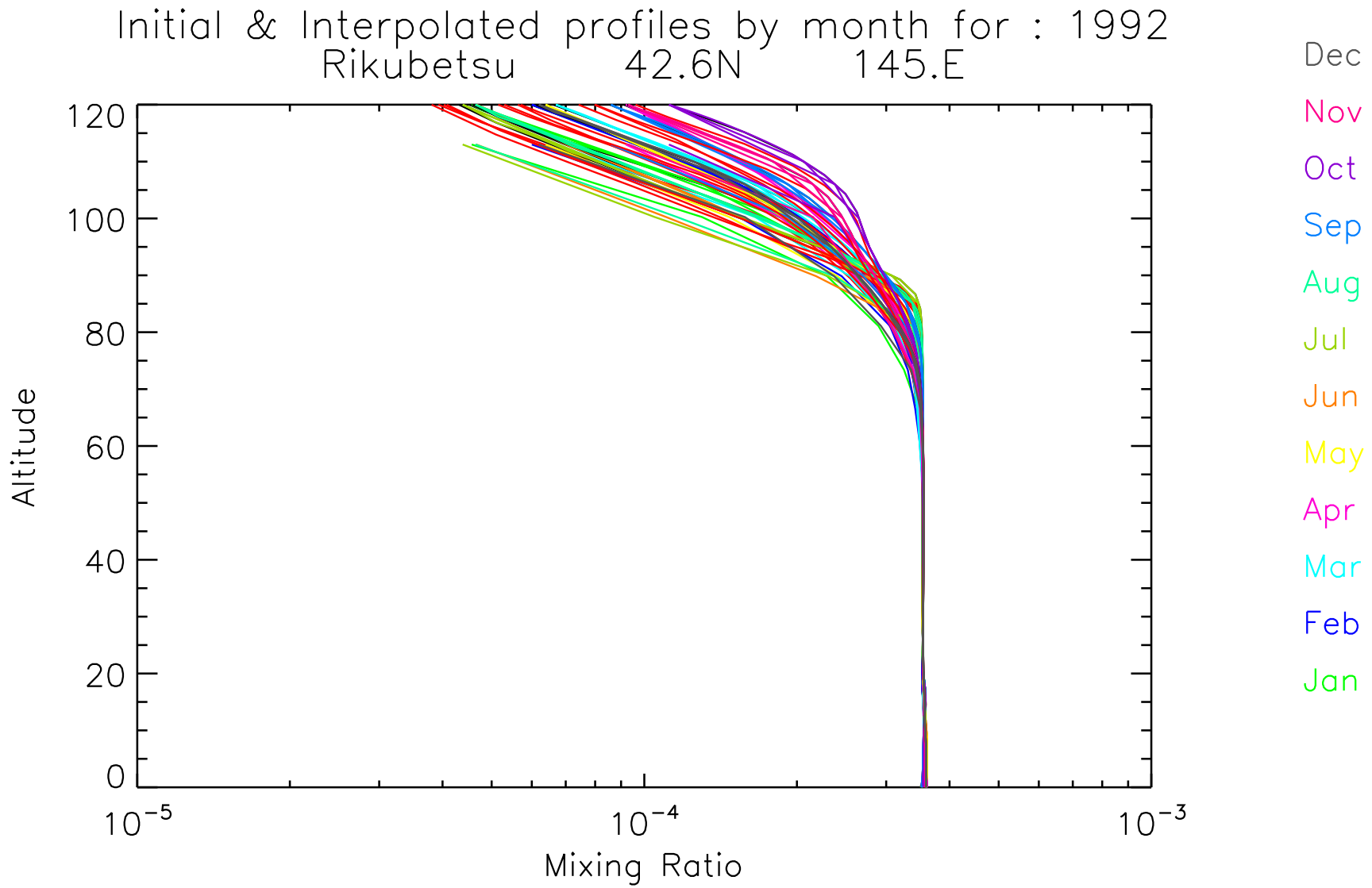
Initial & Interpolated profiles by month for : 1992
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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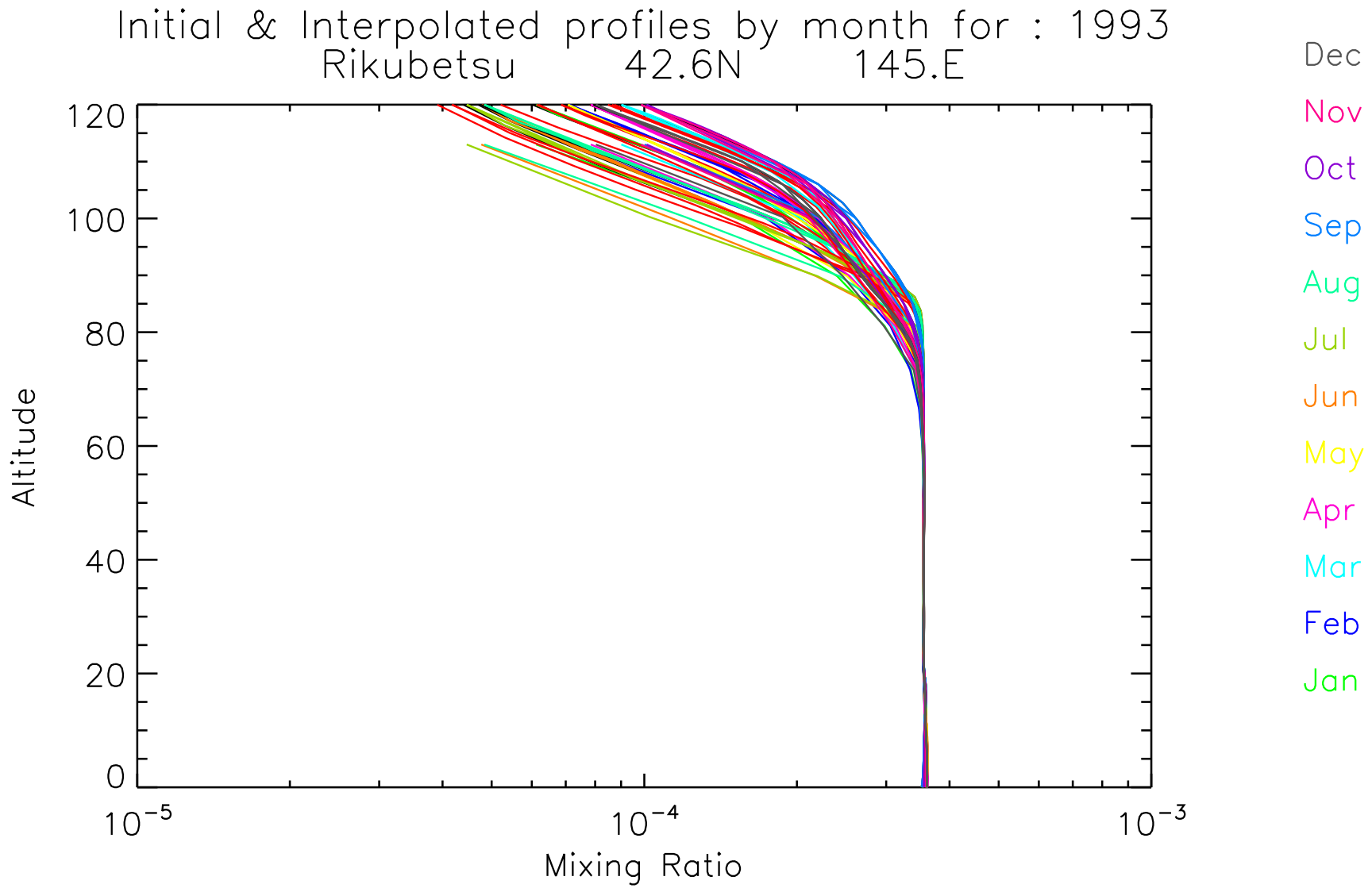
Initial & Interpolated profiles by month for : 1993
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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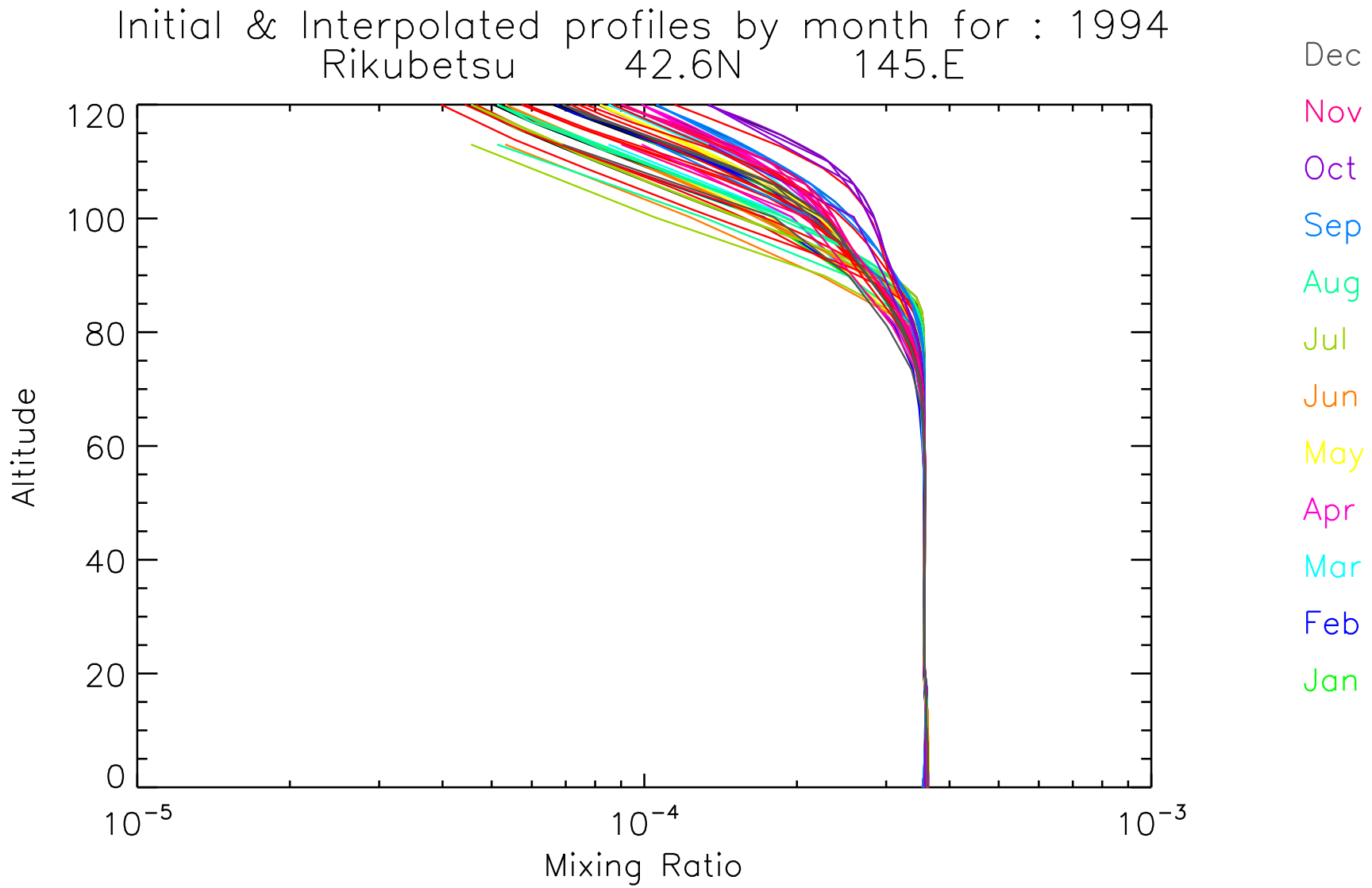
Initial & Interpolated profiles by month for : 1994
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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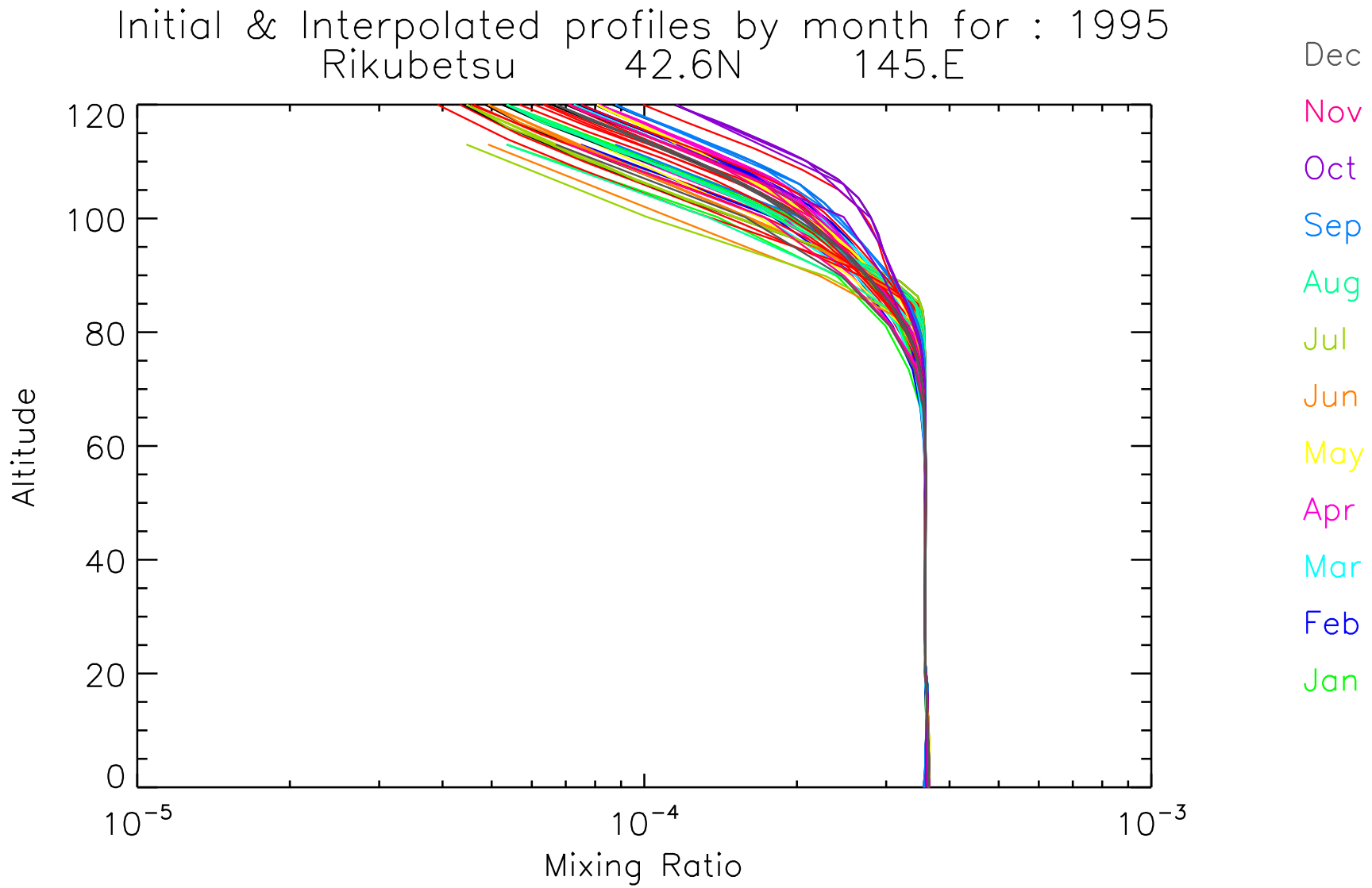
Initial & Interpolated profiles by month for : 1995
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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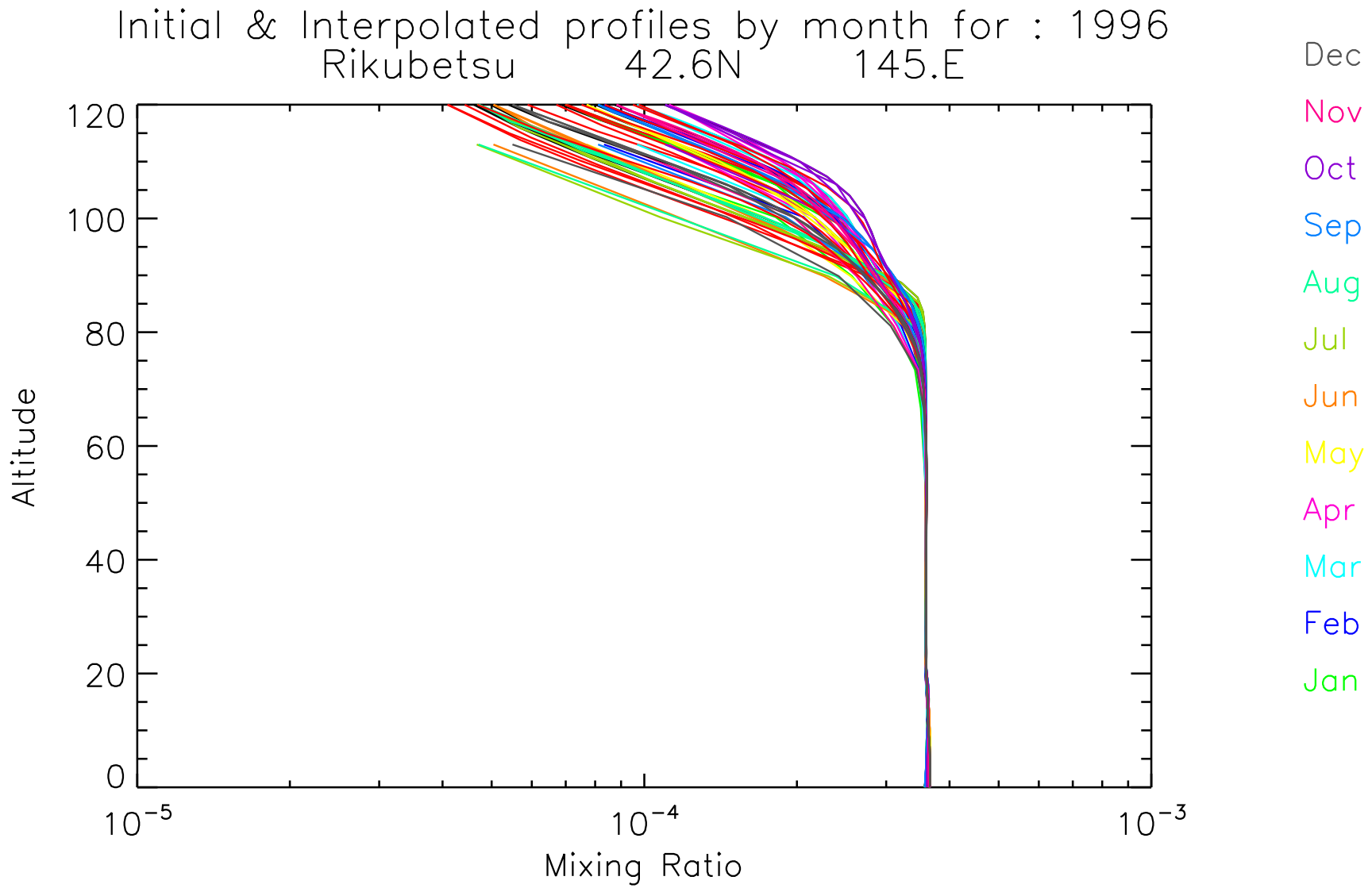
Initial & Interpolated profiles by month for : 1996
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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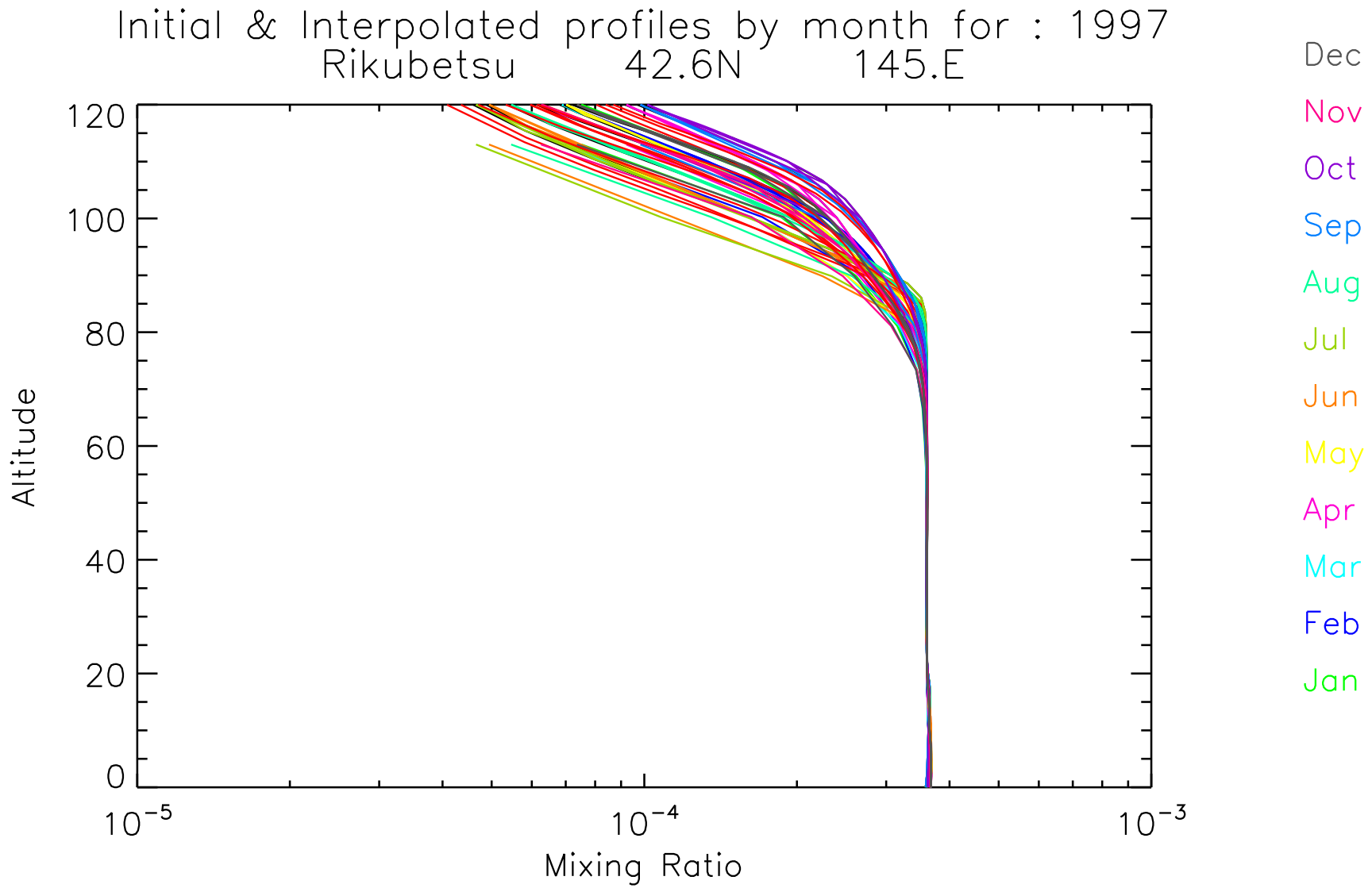
Initial & Interpolated profiles by month for : 1997
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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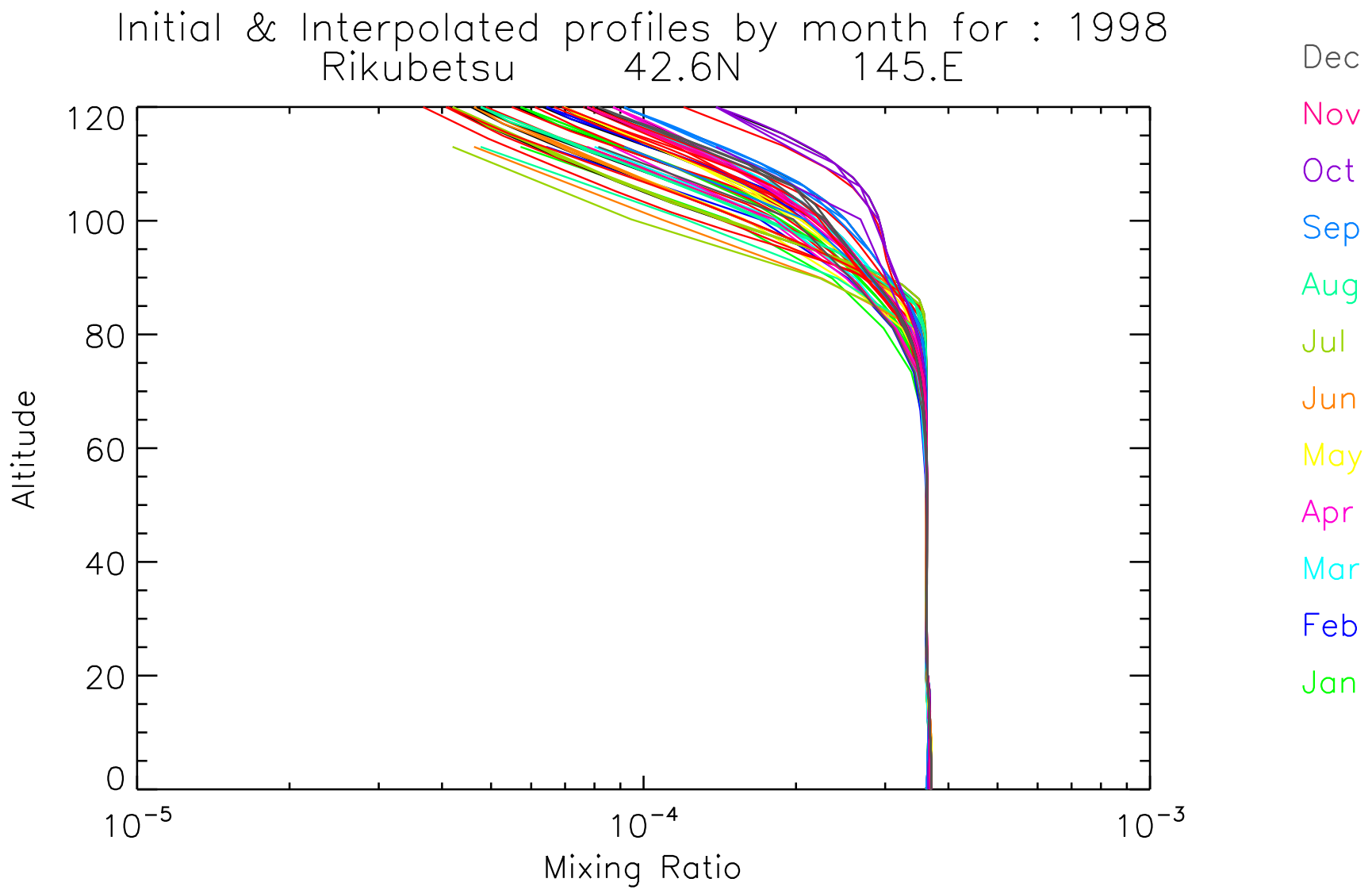
Initial & Interpolated profiles by month for : 1998
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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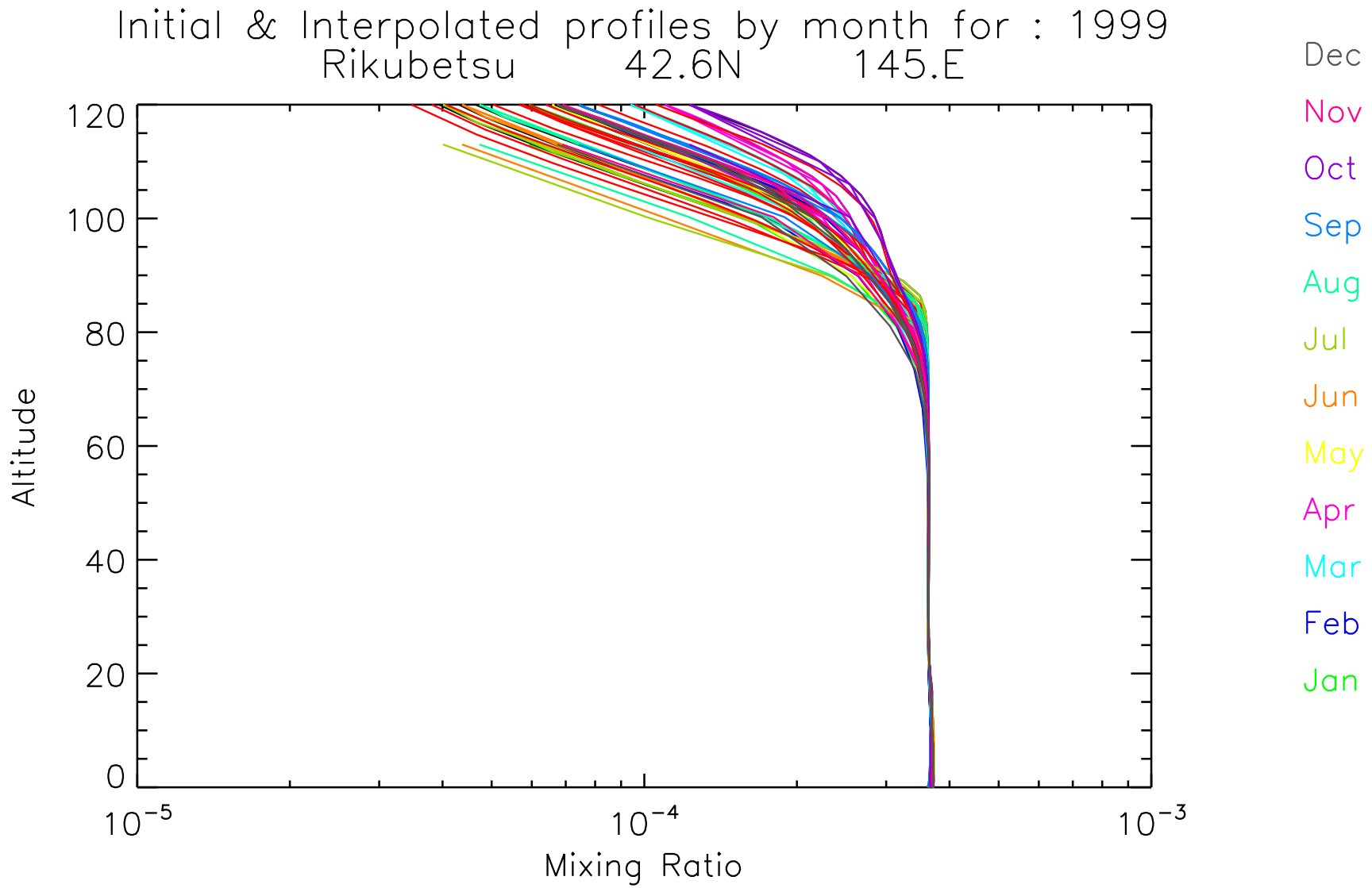
Initial & Interpolated profiles by month for : 1999
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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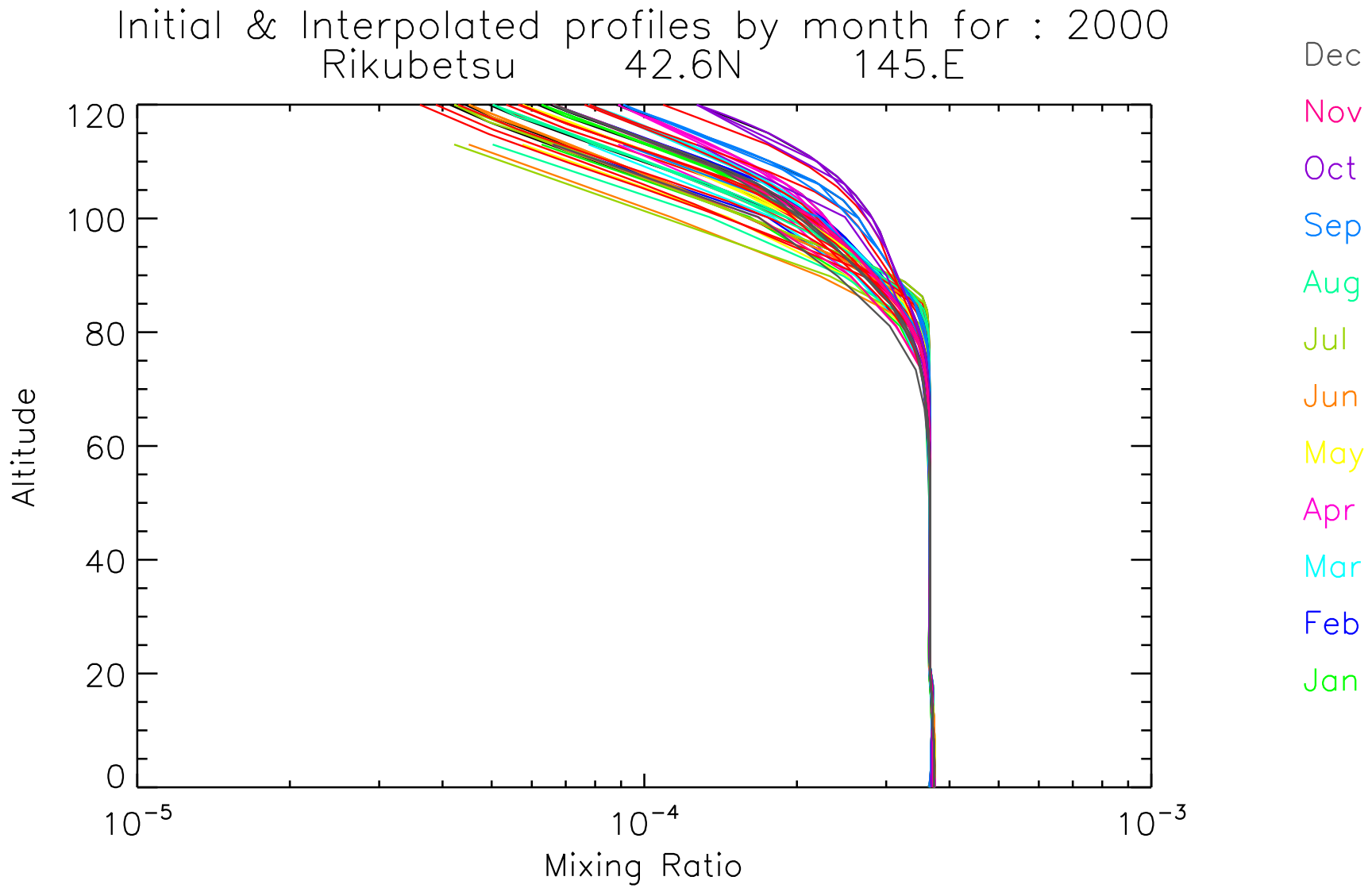
Initial & Interpolated profiles by month for : 2000
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Altitude
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Mixing Ratio
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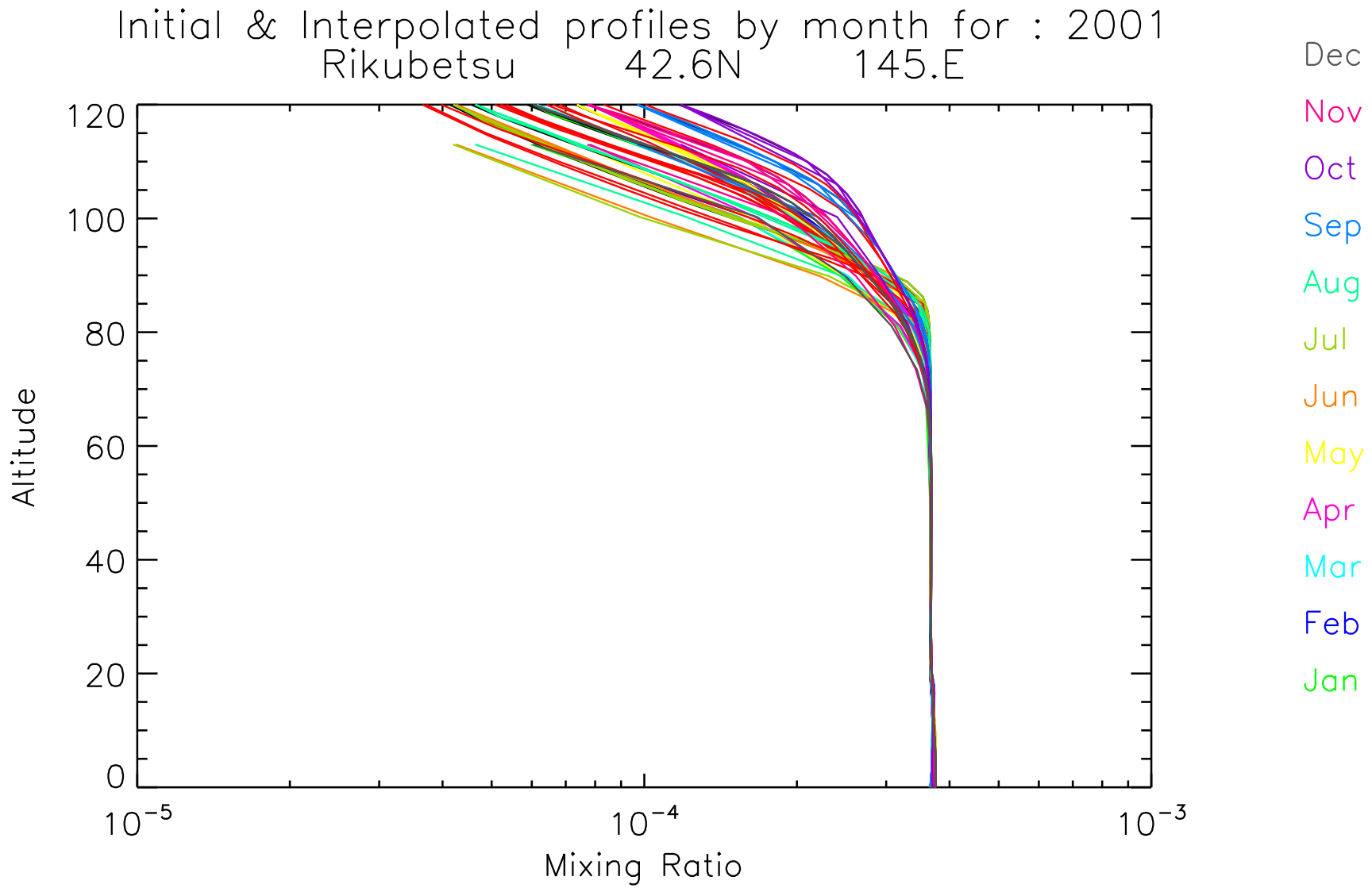
Initial & Interpolated profiles by month for : 2001
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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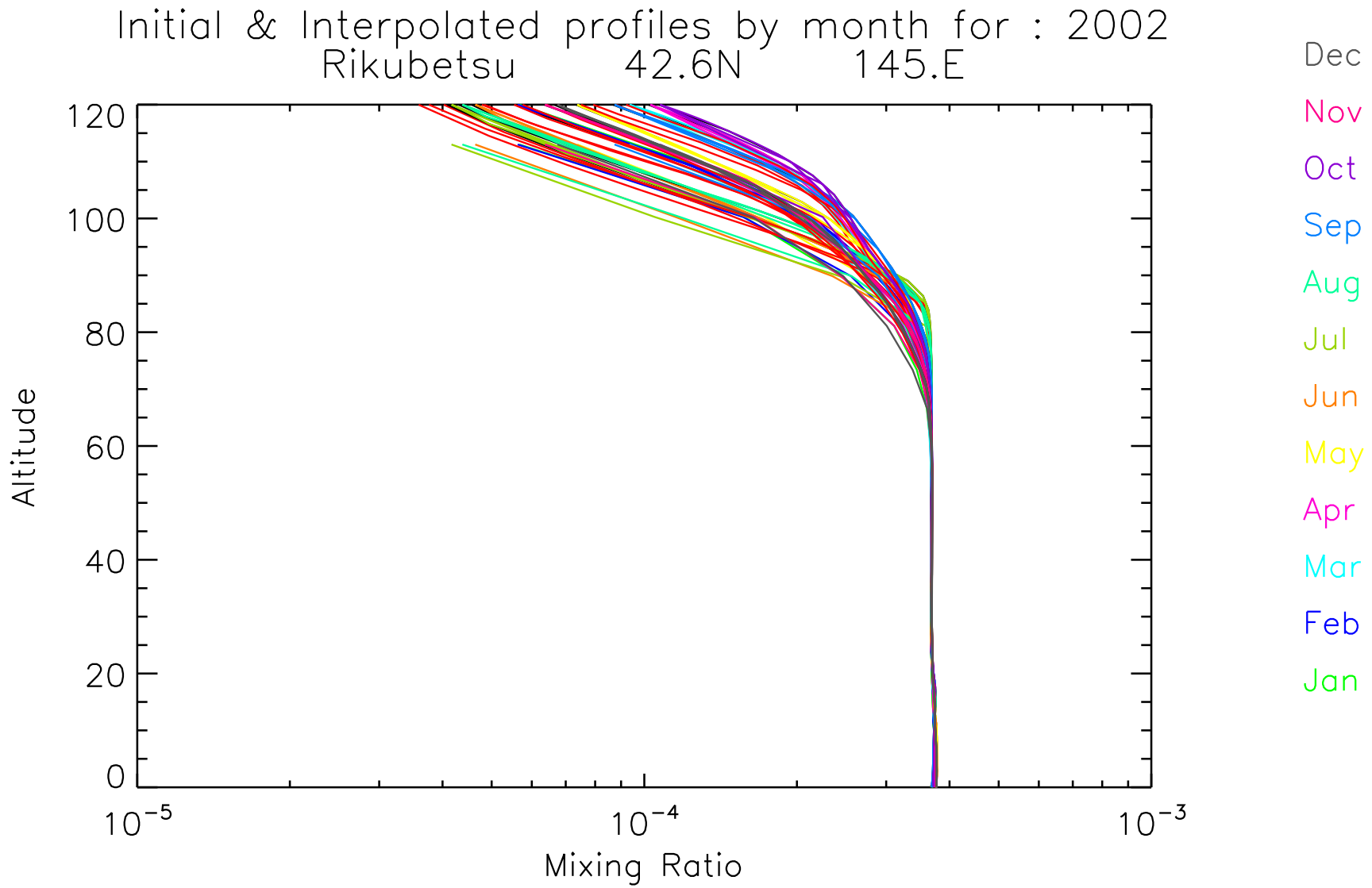
Initial & Interpolated profiles by month for : 2002
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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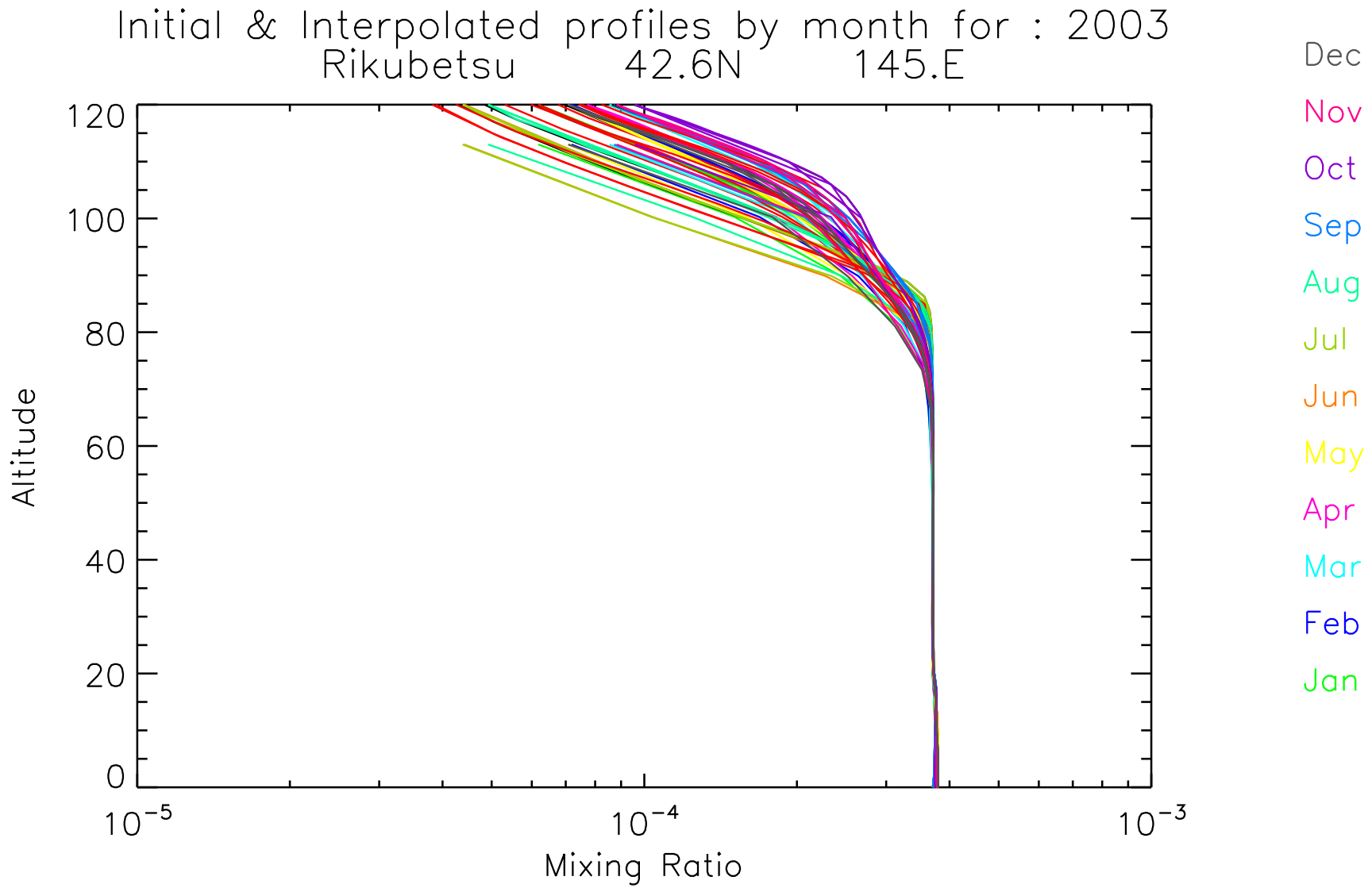
Initial & Interpolated profiles by month for : 2003
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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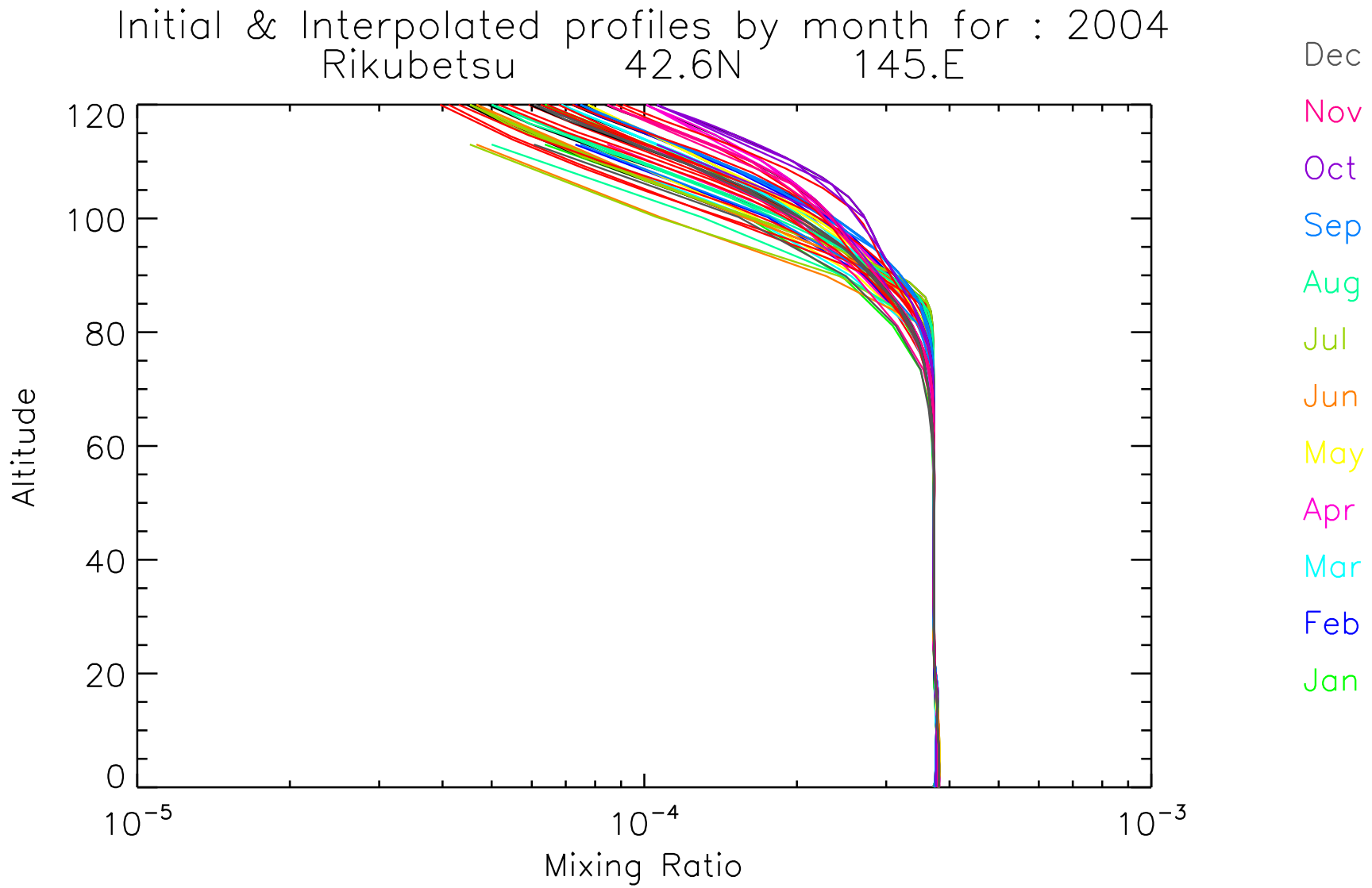
Initial & Interpolated profiles by month for : 2004
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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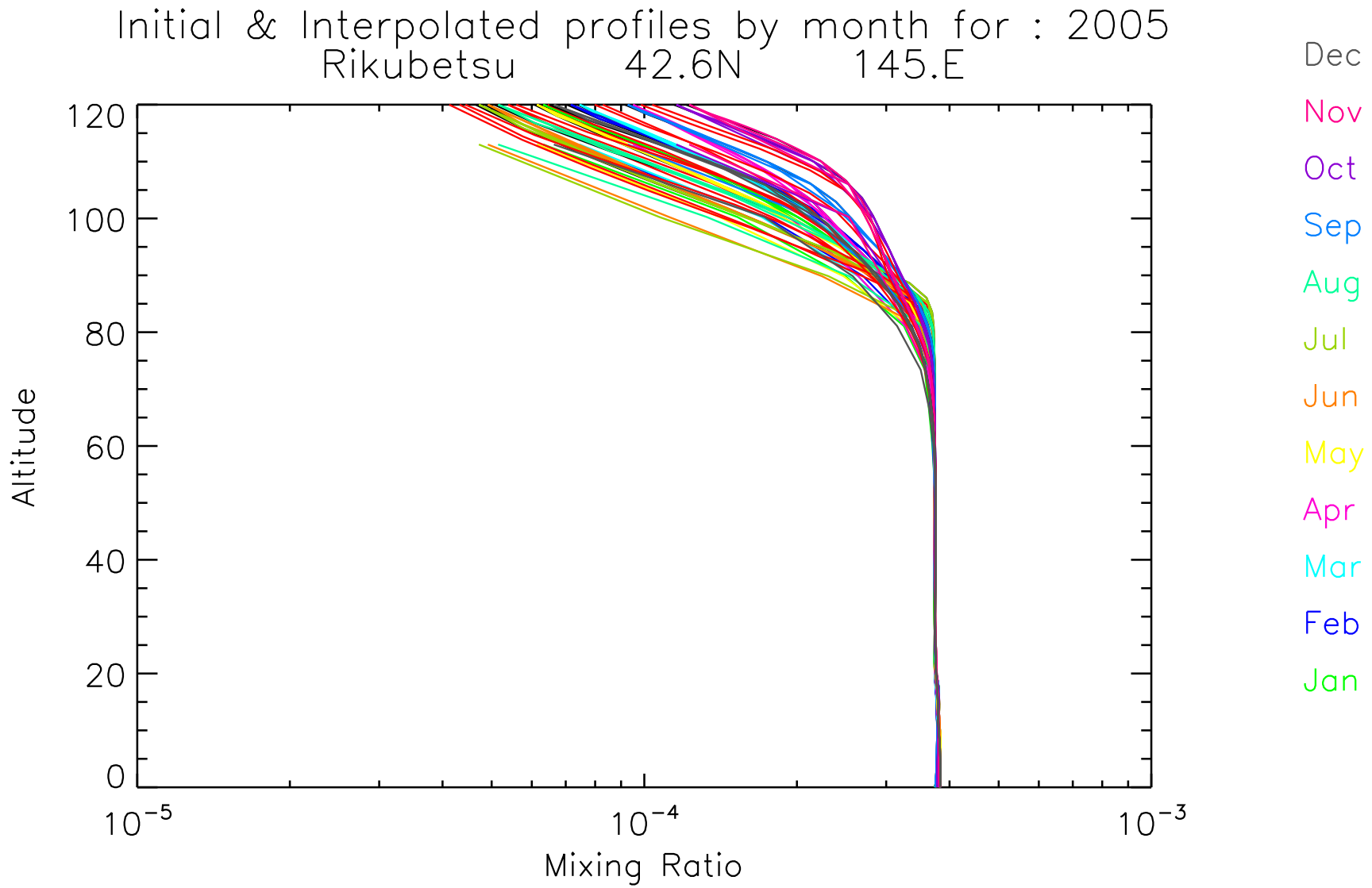
Initial & Interpolated profiles by month for : 2005
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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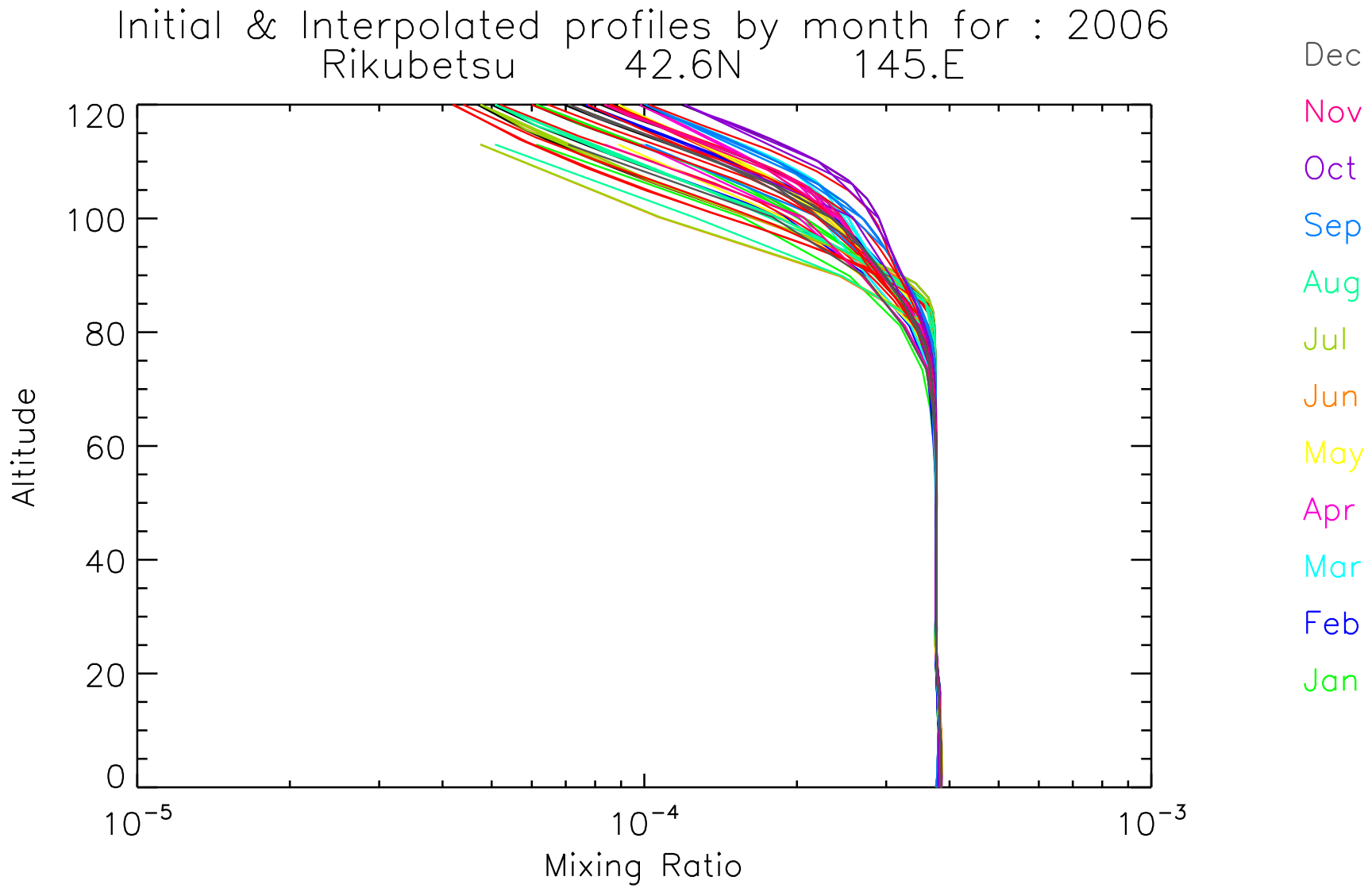
Initial & Interpolated profiles by month for : 2006
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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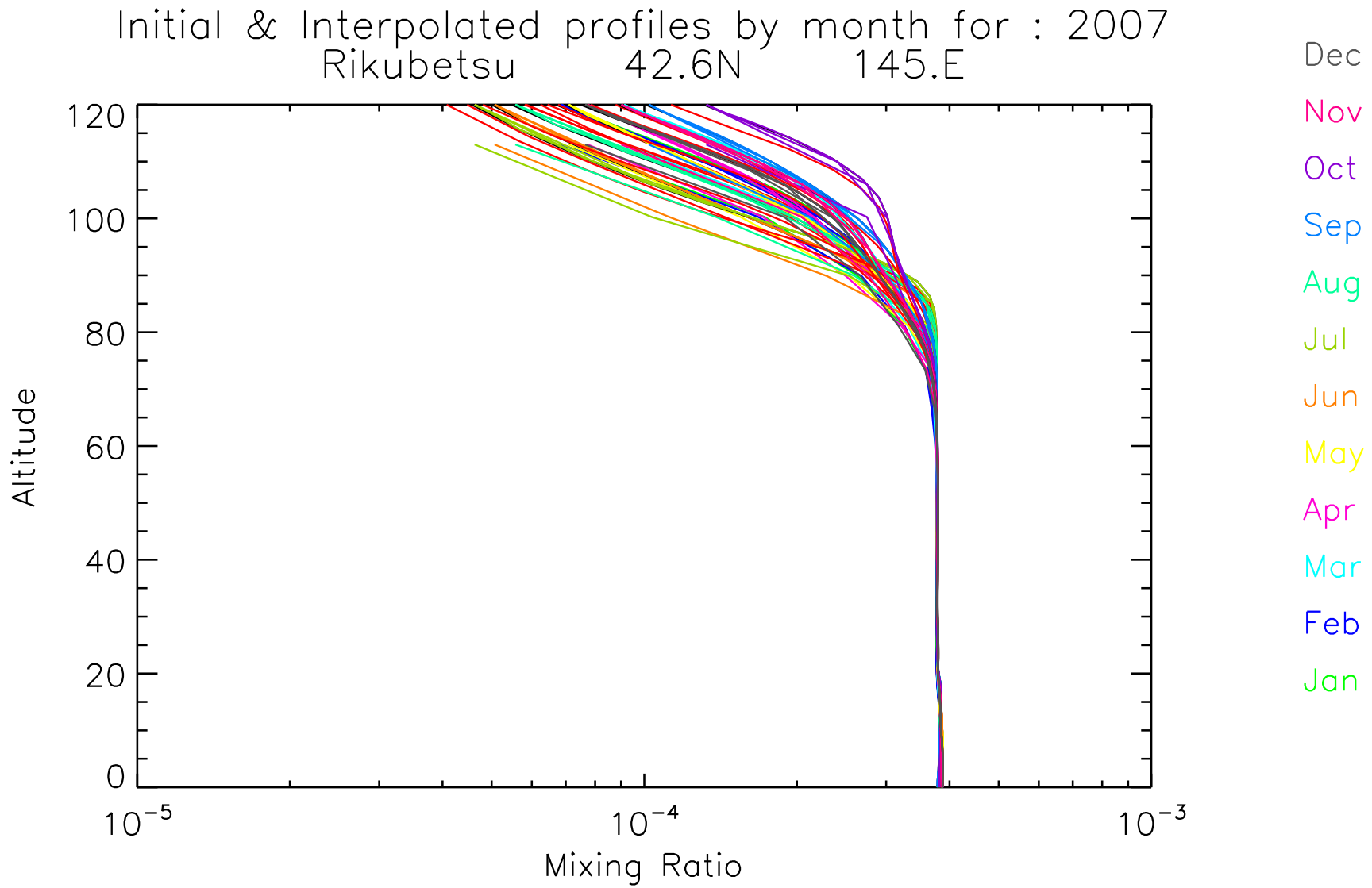
Initial & Interpolated profiles by month for : 2007
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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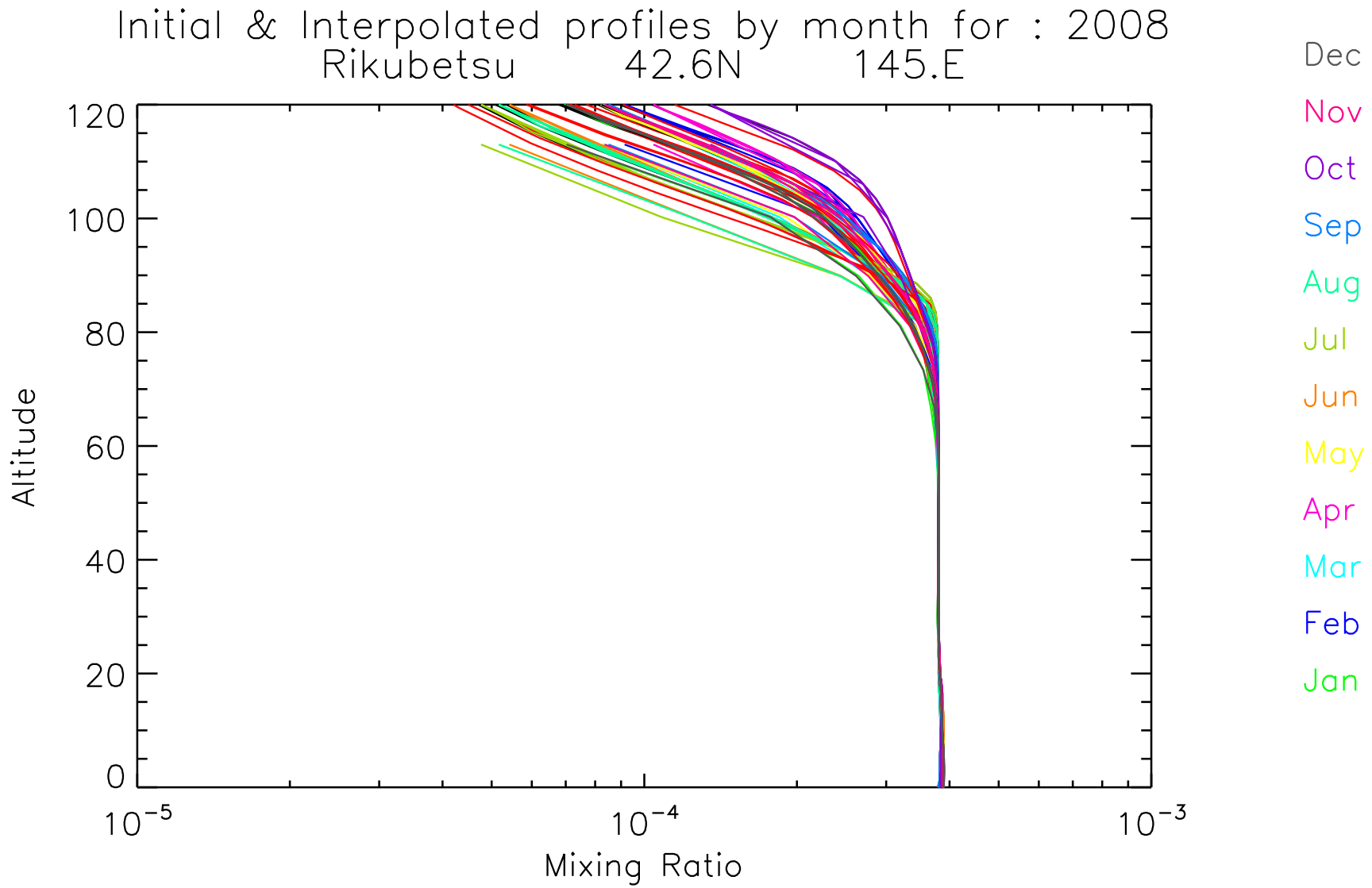
Initial & Interpolated profiles by month for : 2008
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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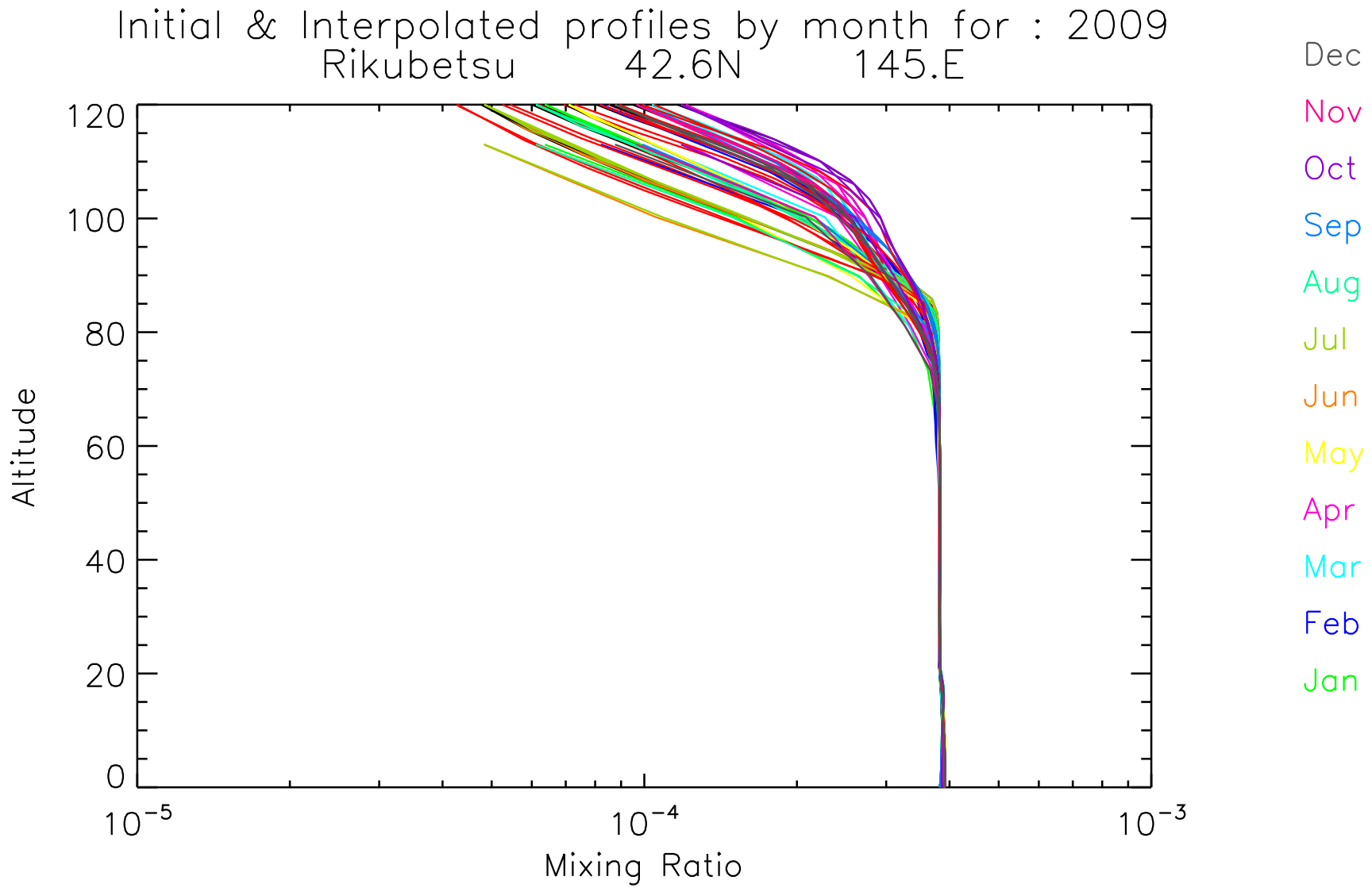
Initial & Interpolated profiles by month for : 2009
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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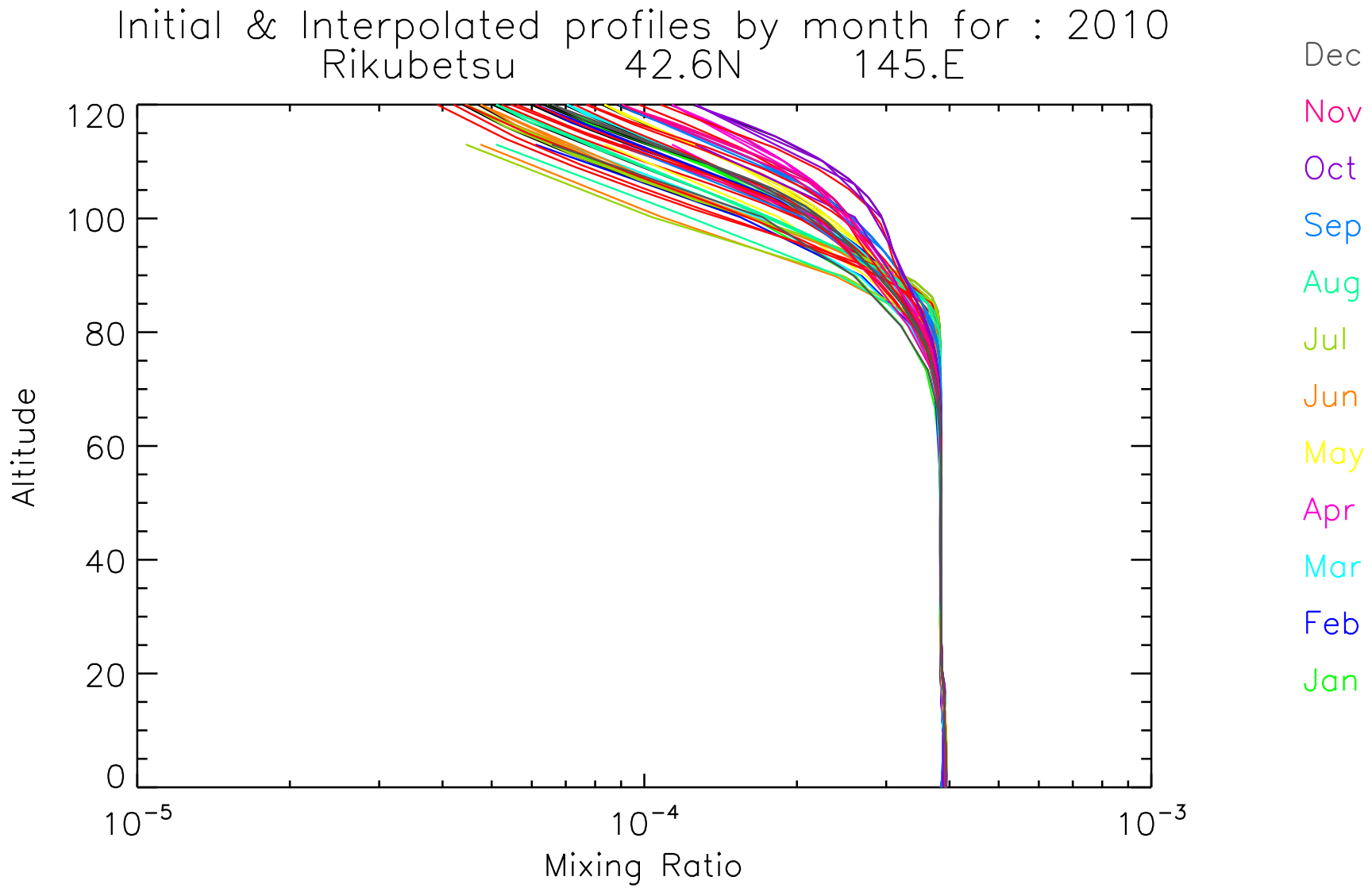
Initial & Interpolated profiles by month for : 2010
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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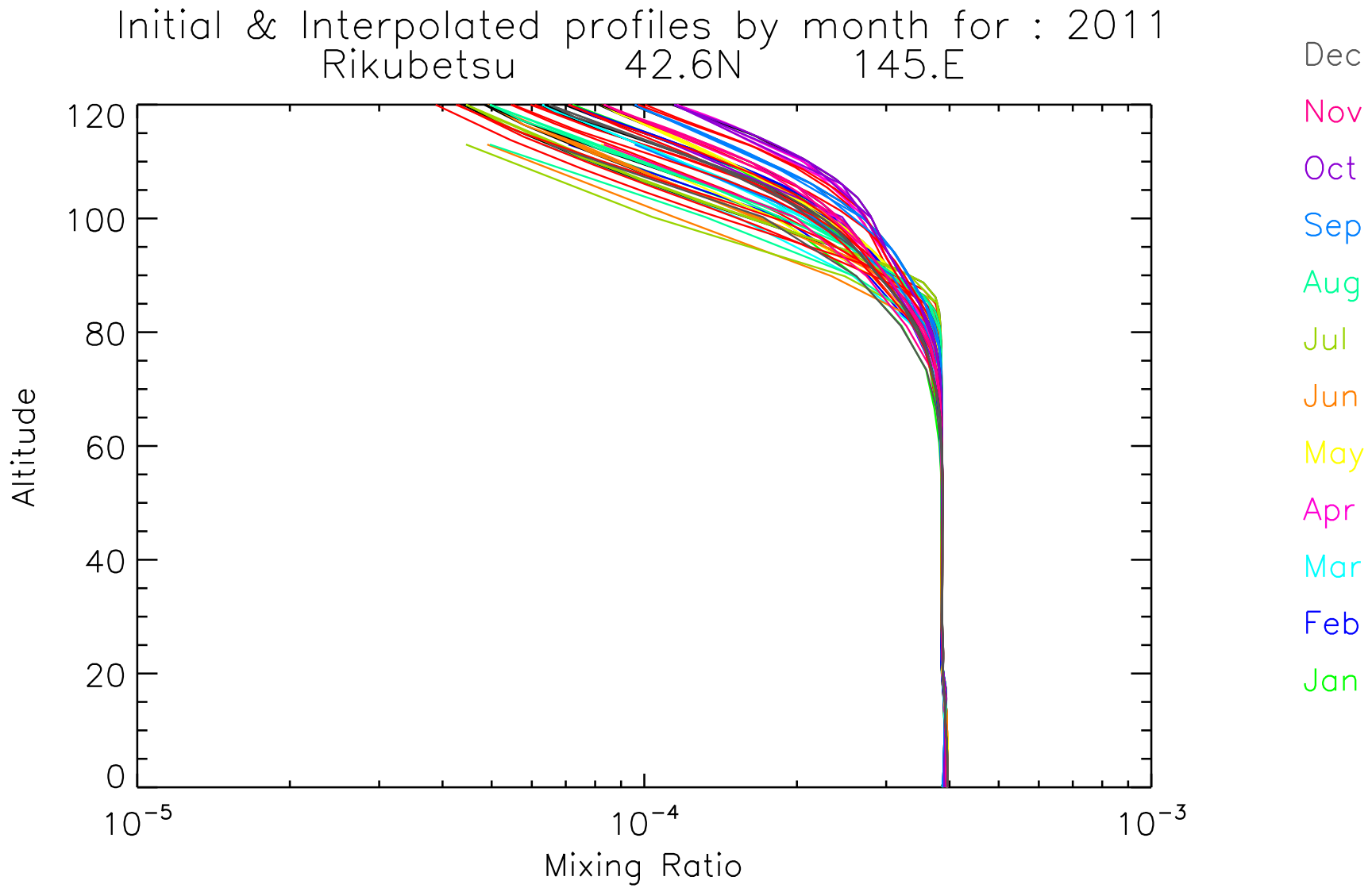
Initial & Interpolated profiles by month for : 2011
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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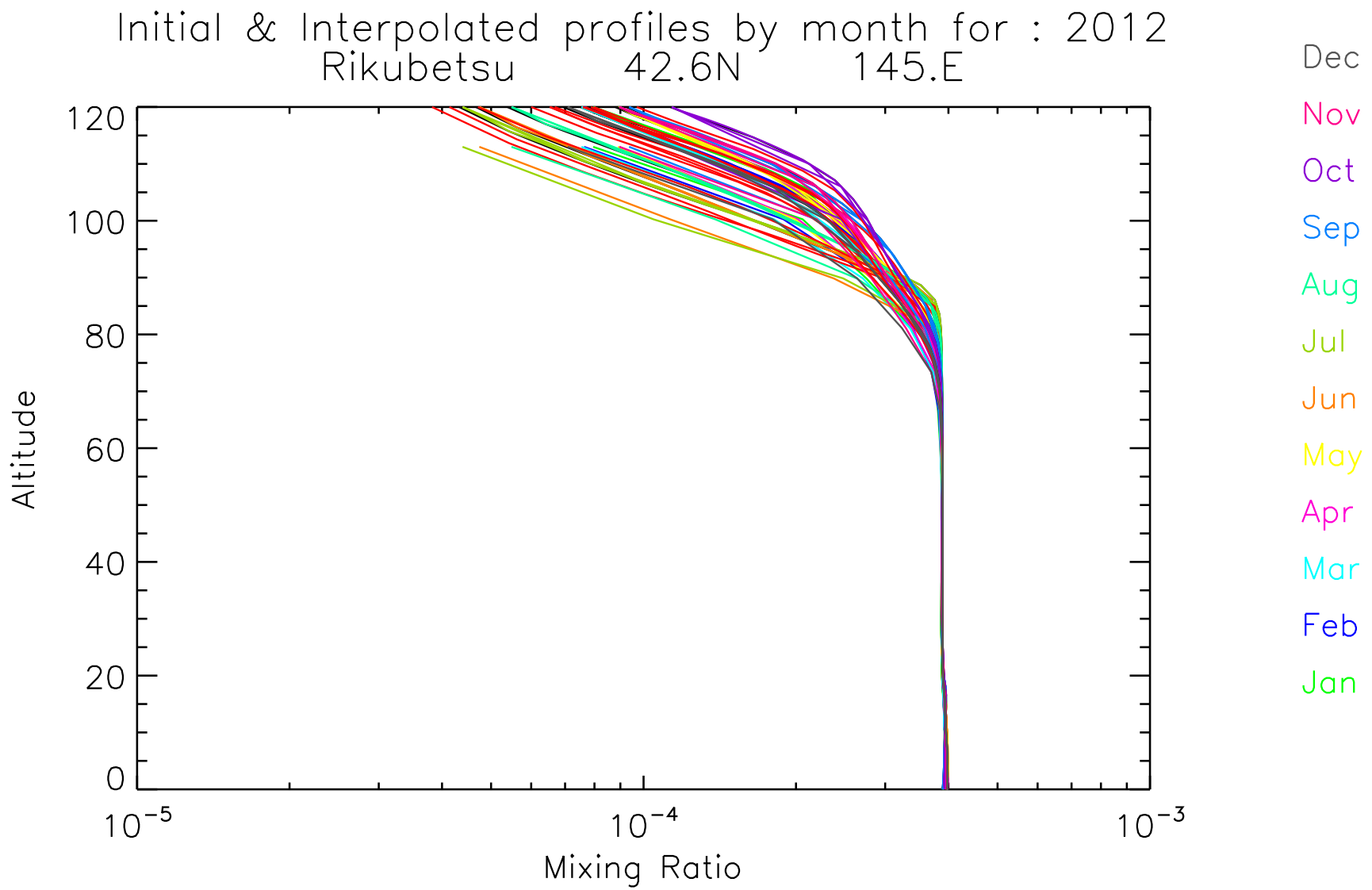
Initial & Interpolated profiles by month for : 2012
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Mixing Ratio
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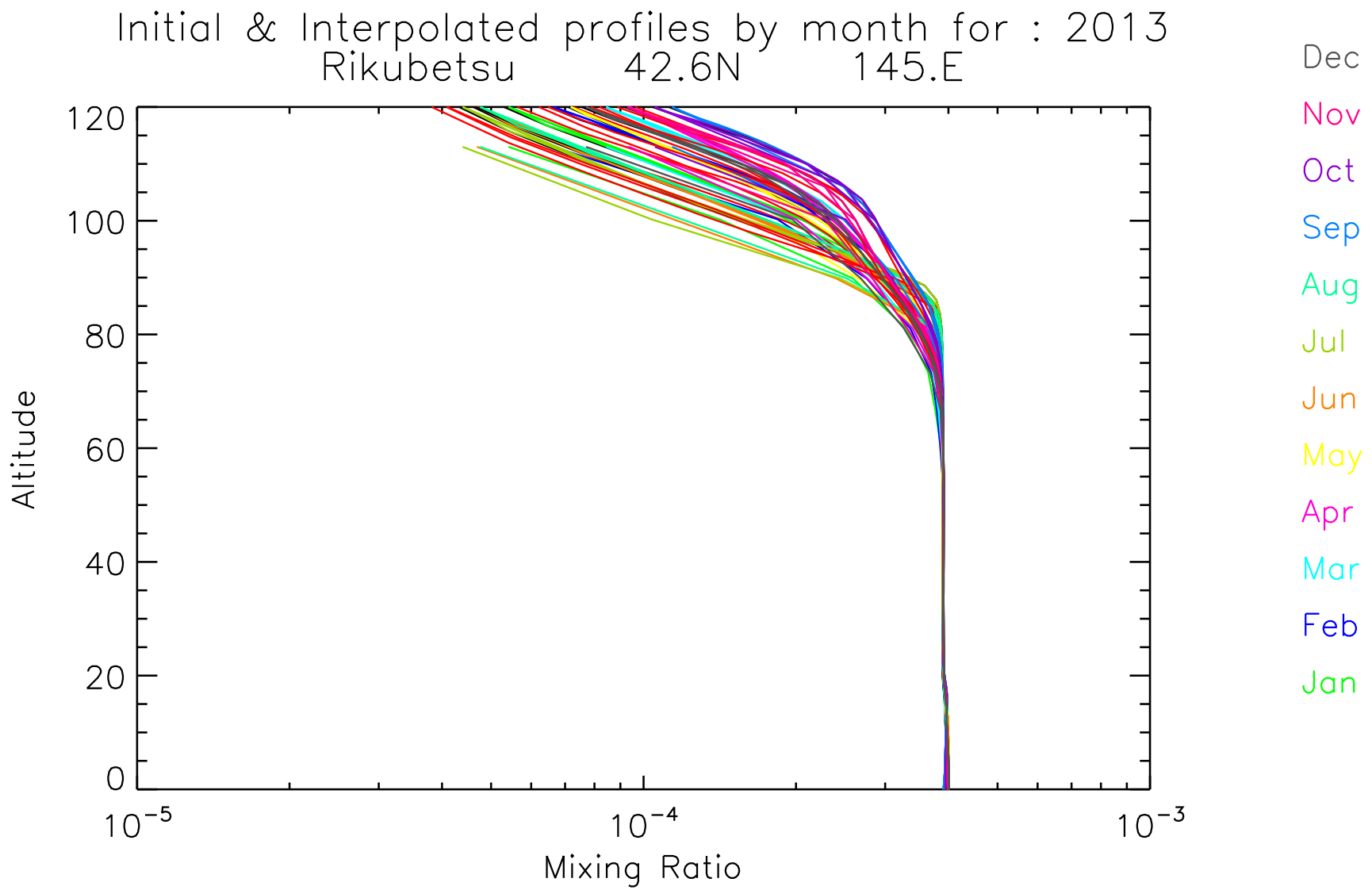
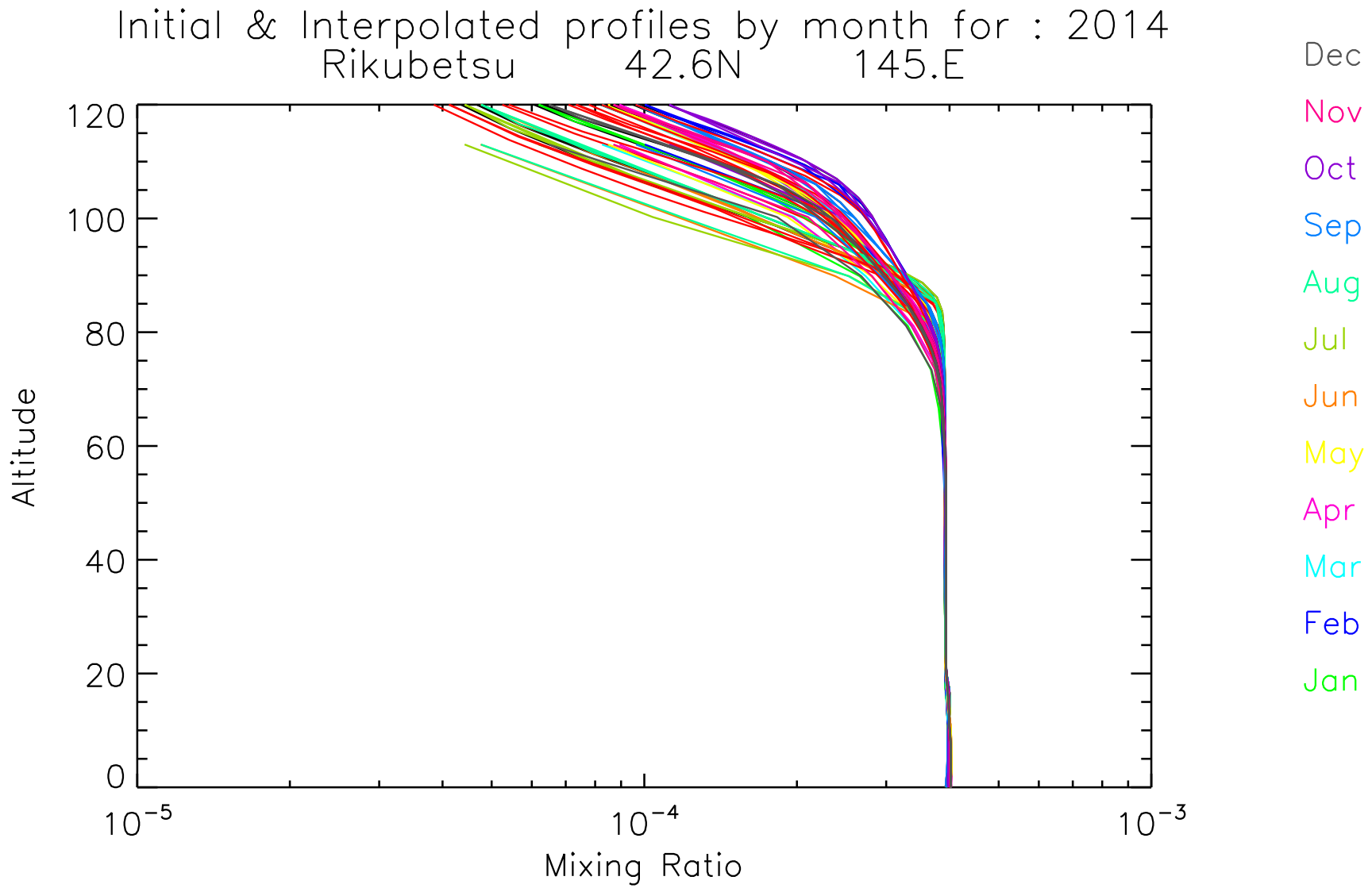
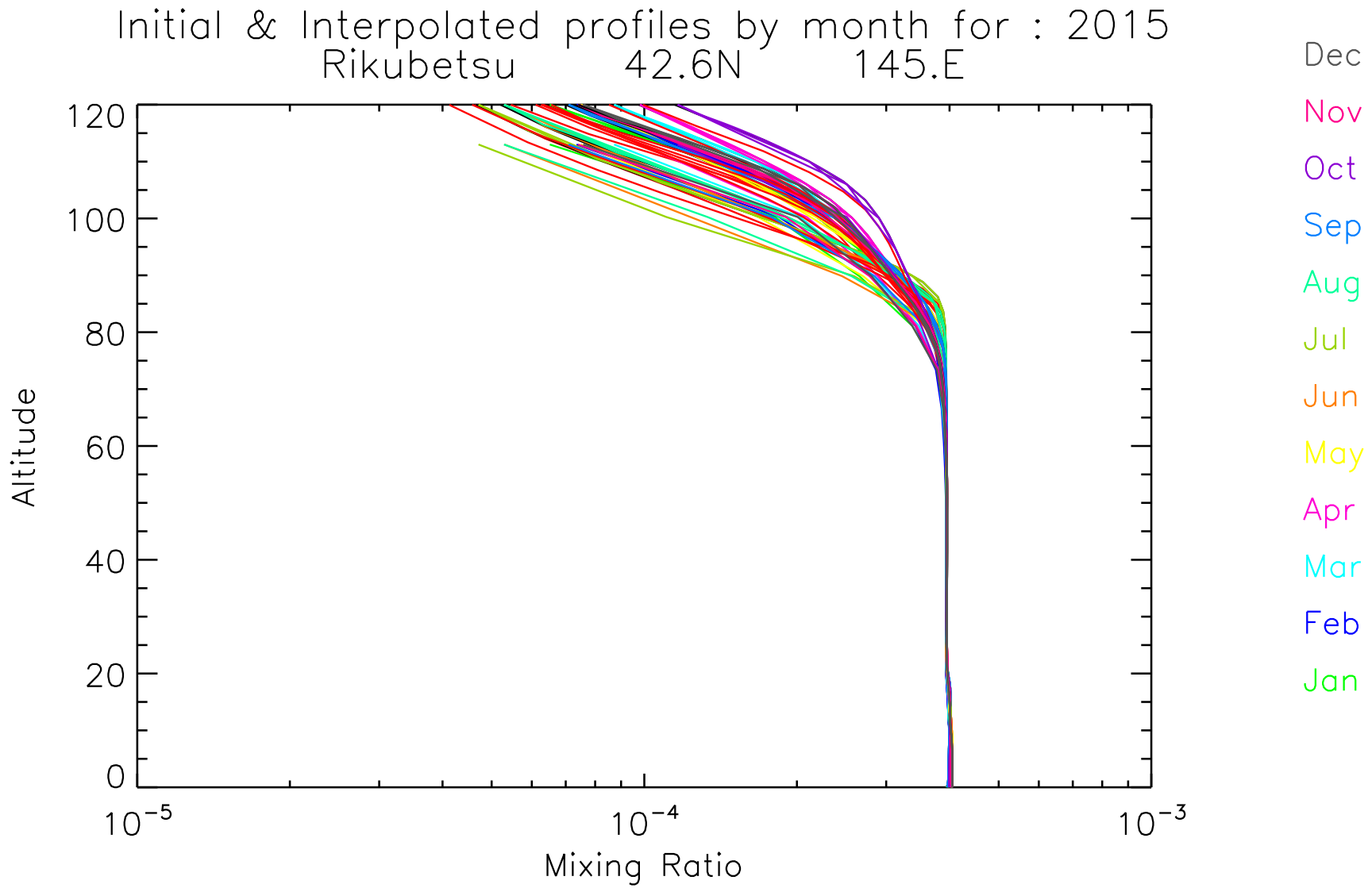
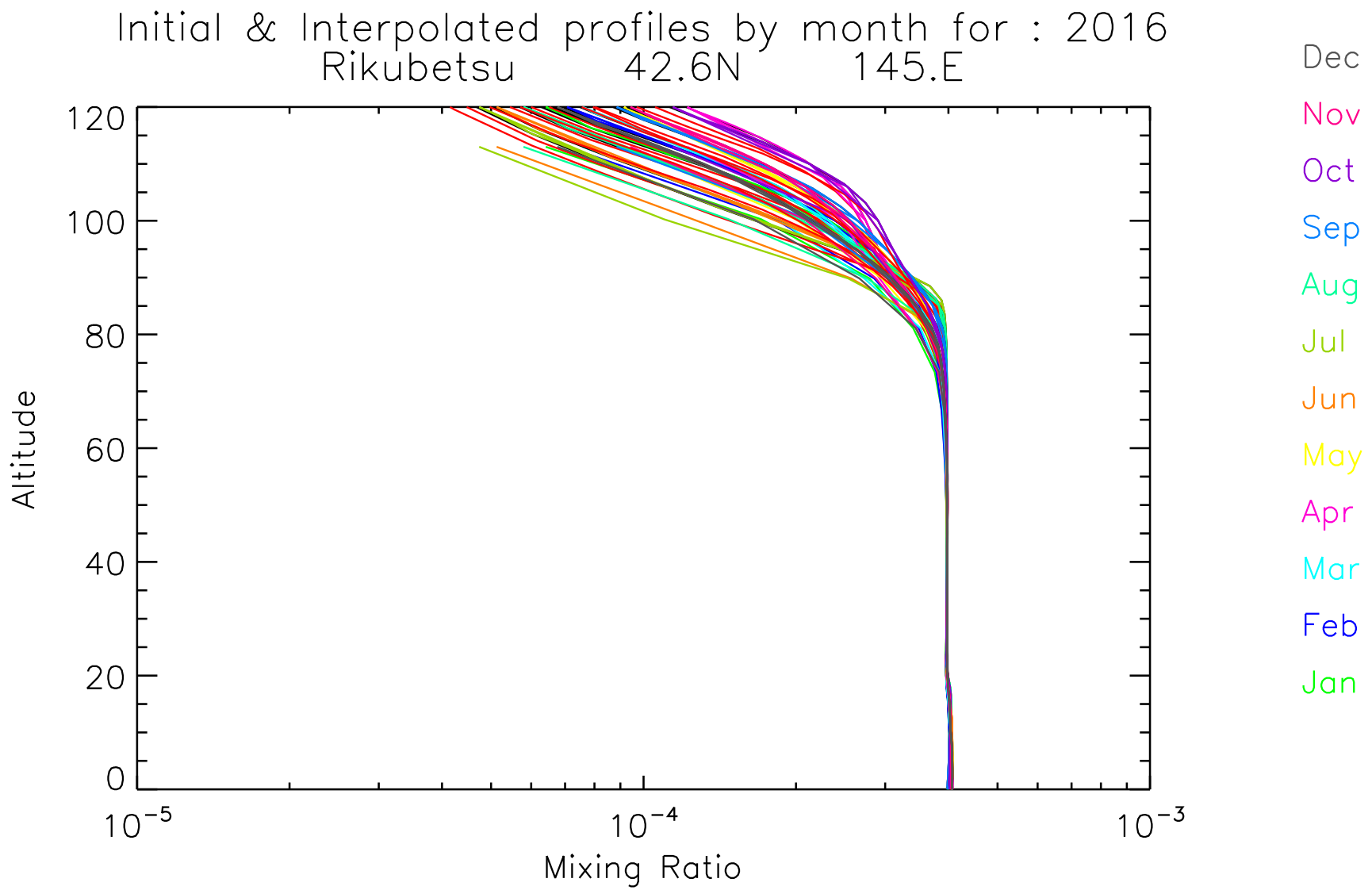
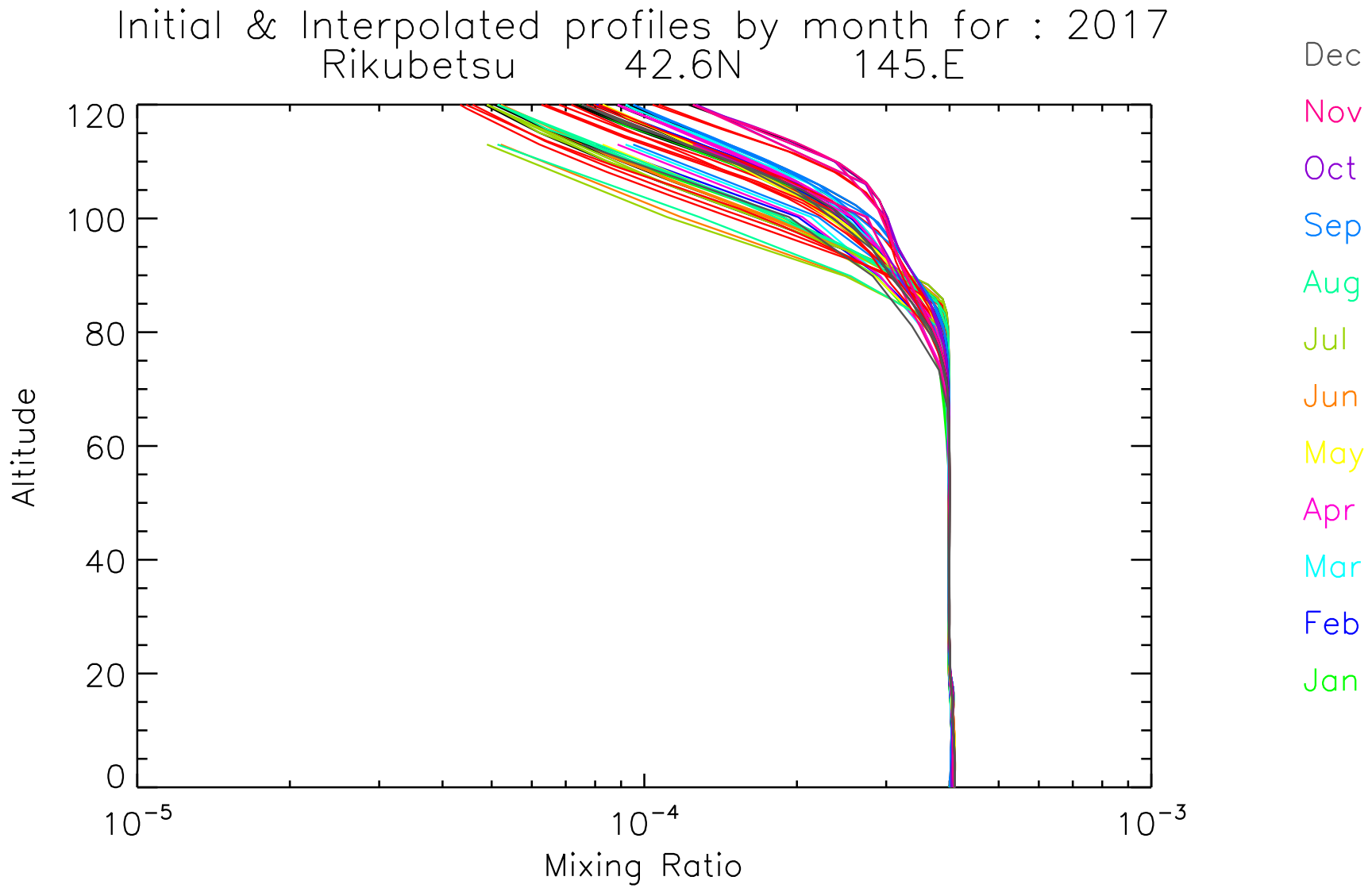
Jan

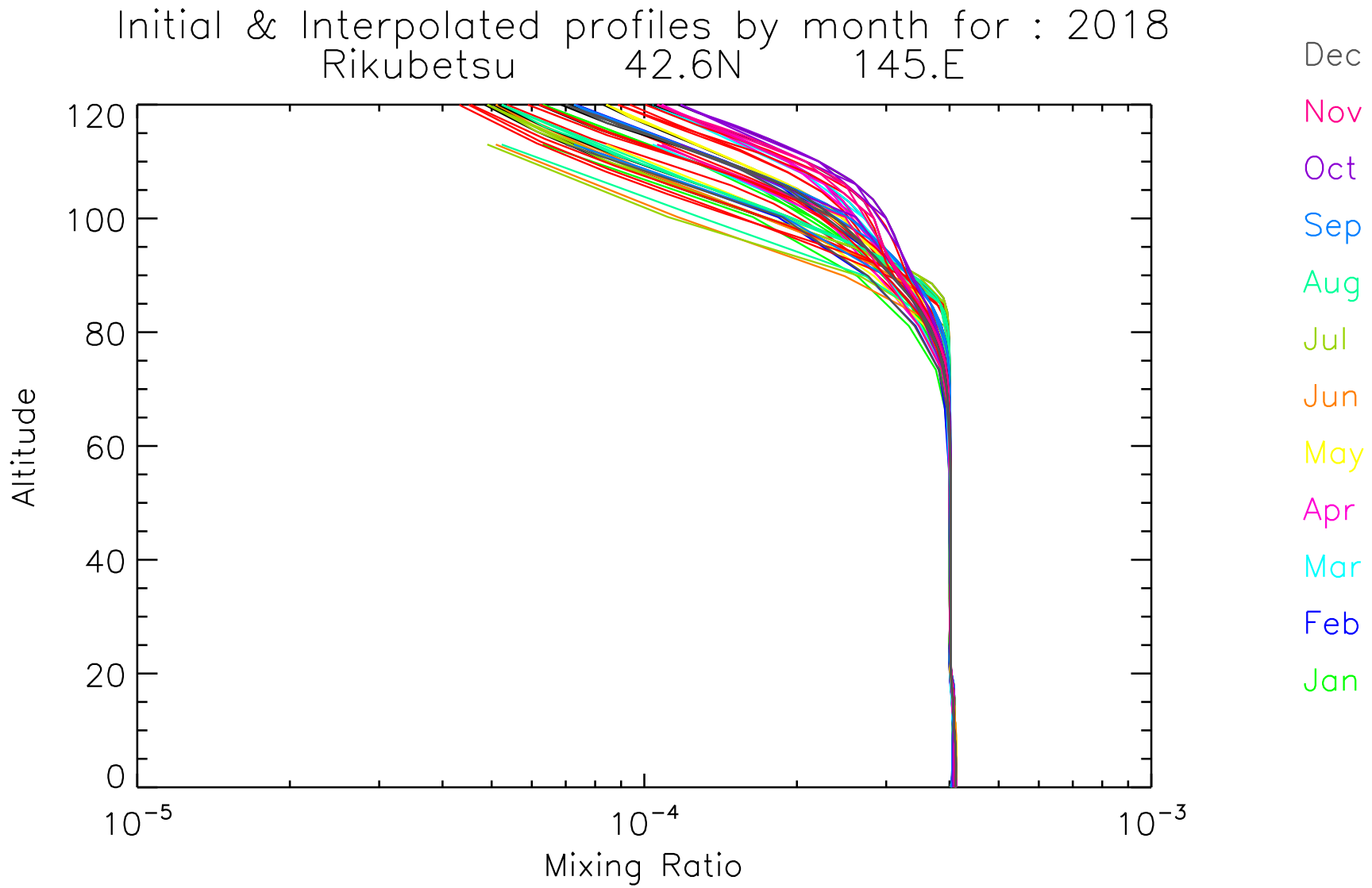

Initial & Interpolated profiles by month for : 2013
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

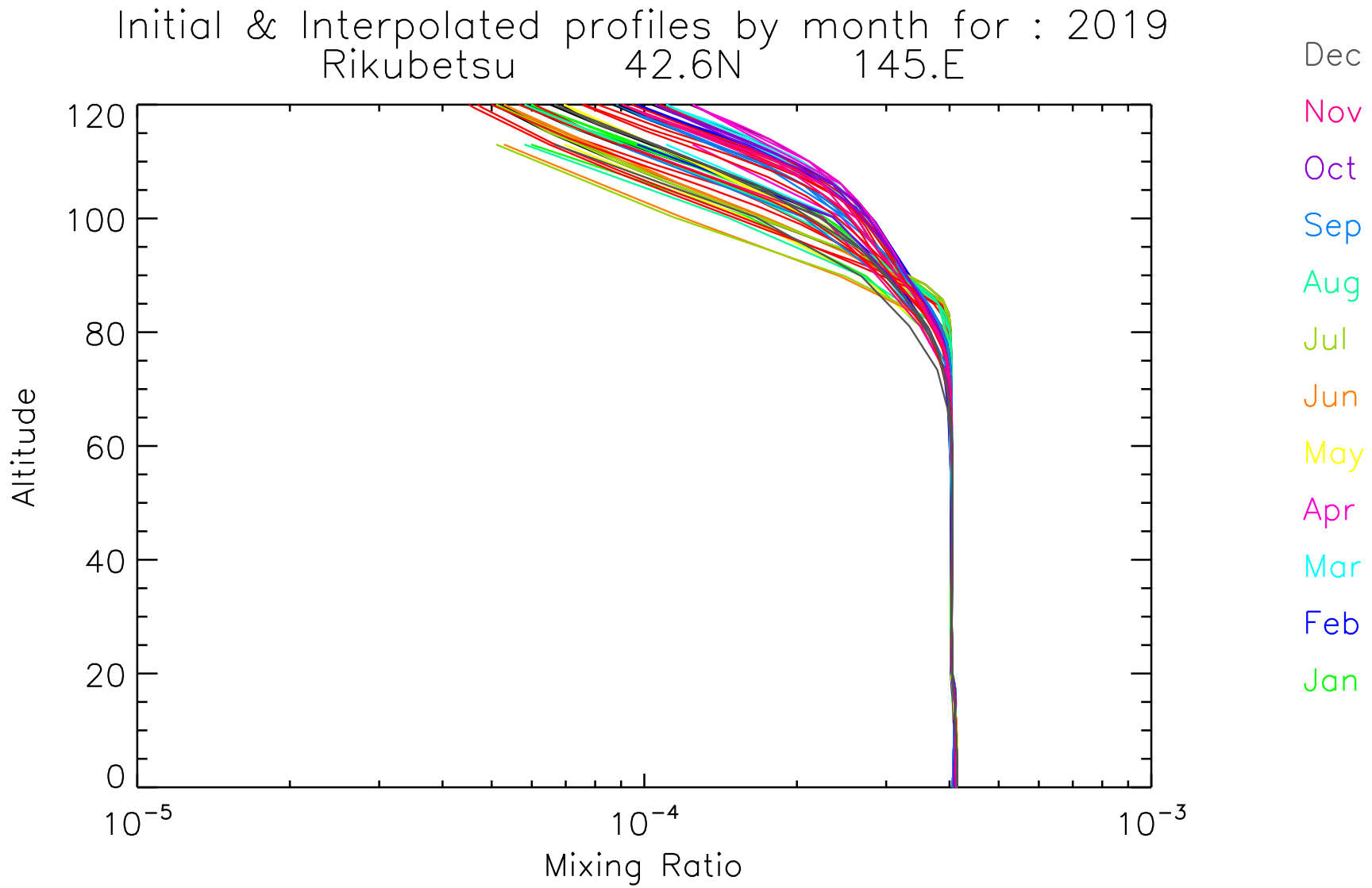

Initial & Interpolated profiles by month for : 2014
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

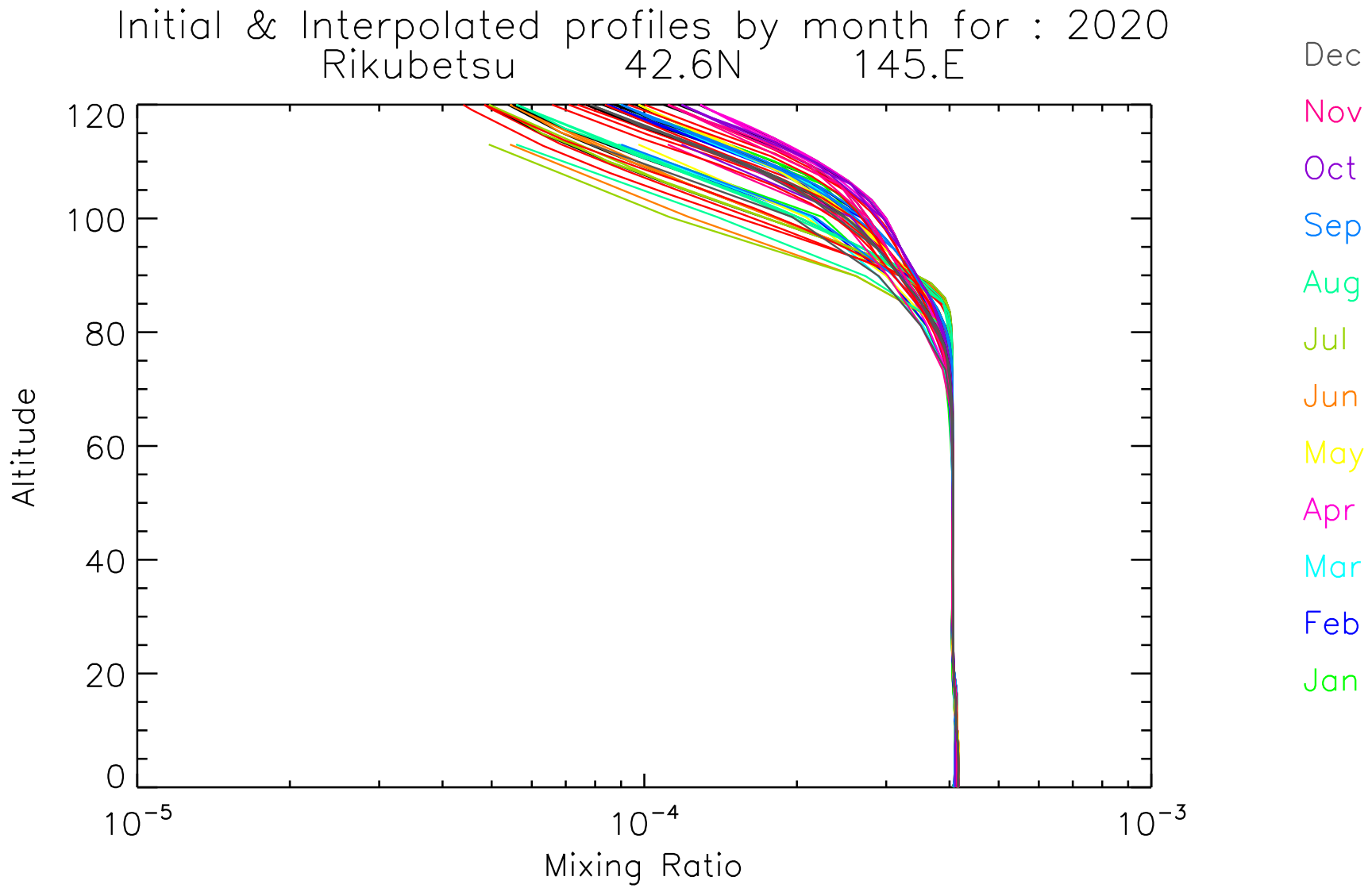

Initial & Interpolated profiles by month for : 2015
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

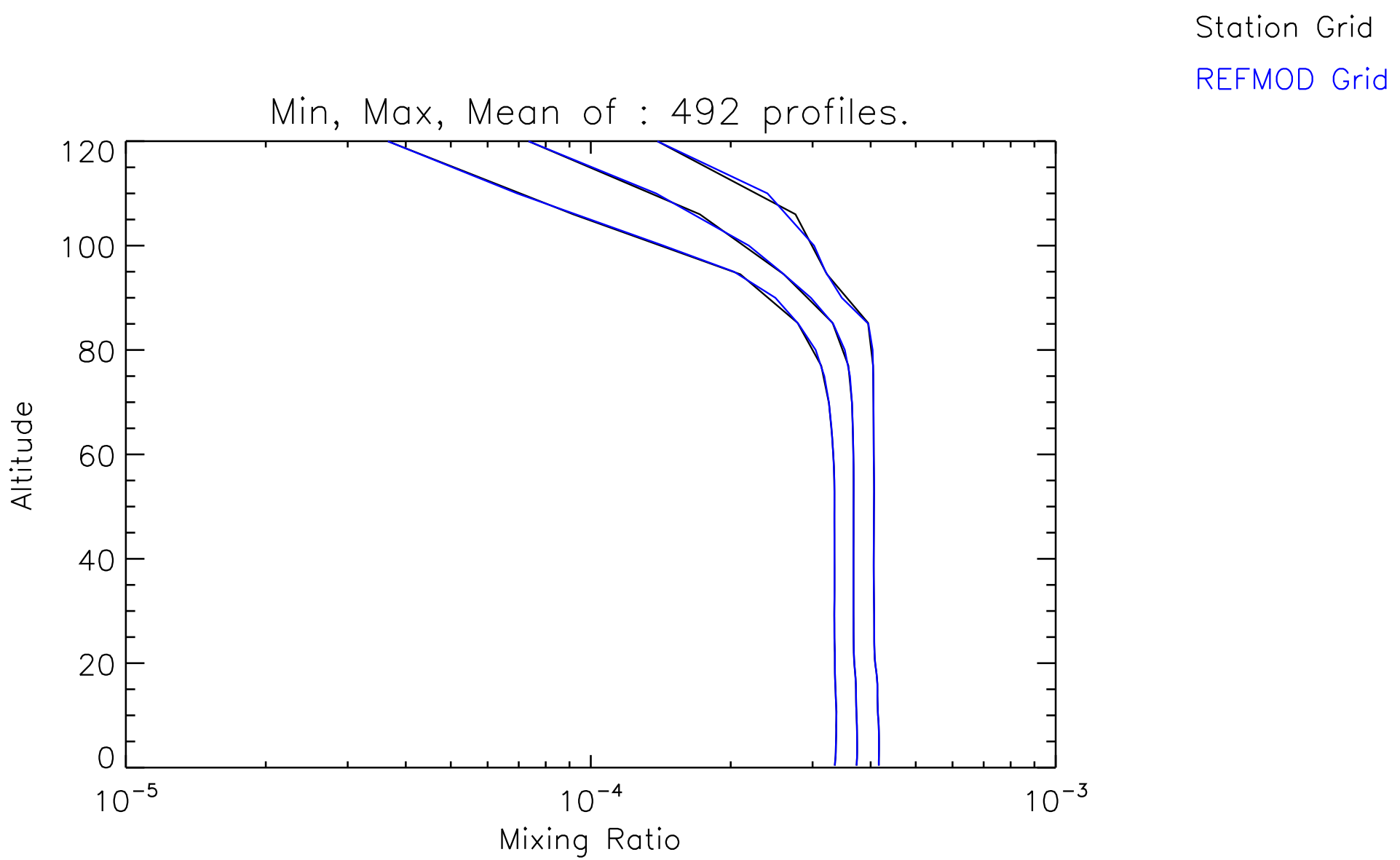

Initial & Interpolated profiles by month for : 2016
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

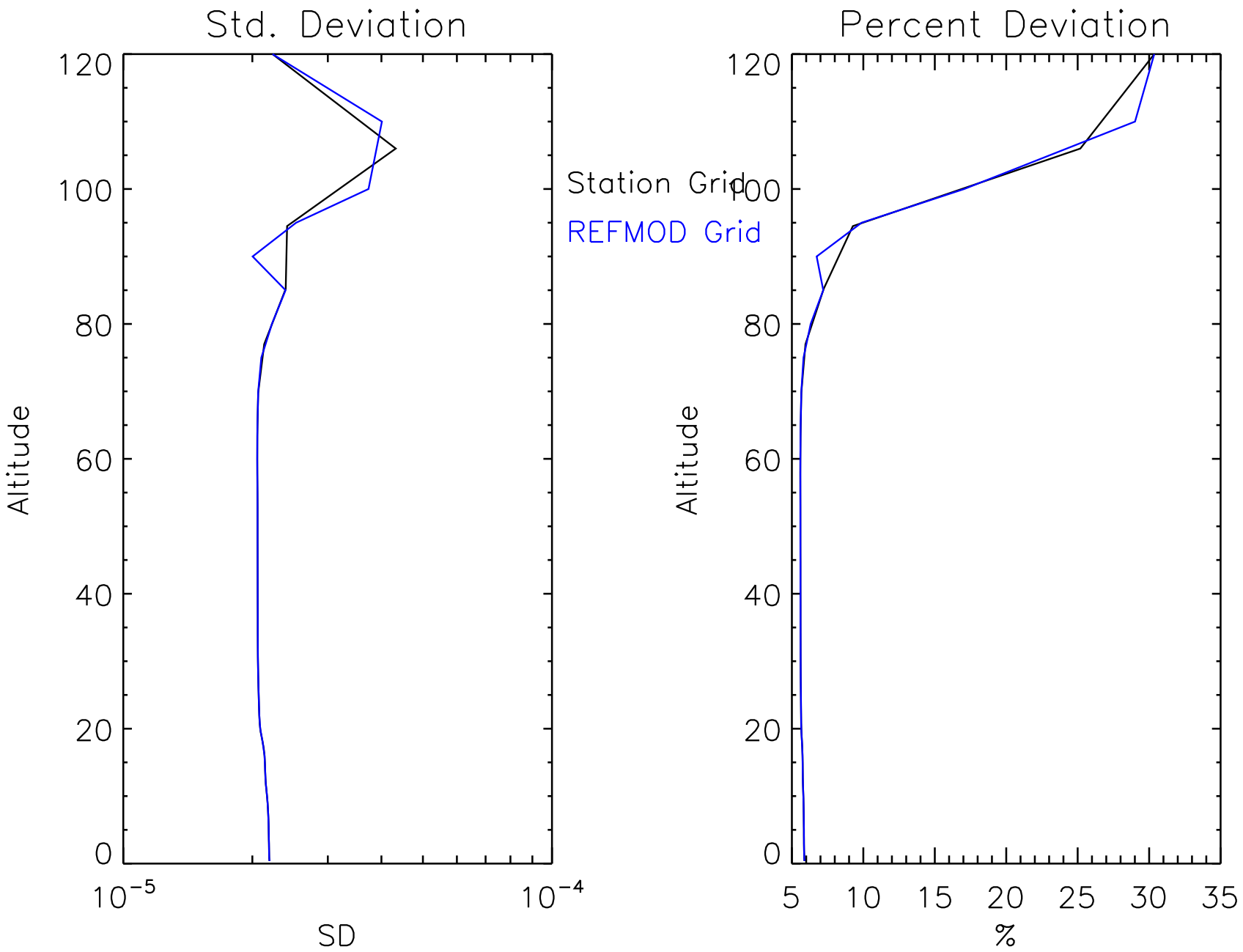

Initial & Interpolated profiles by month for : 2017
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

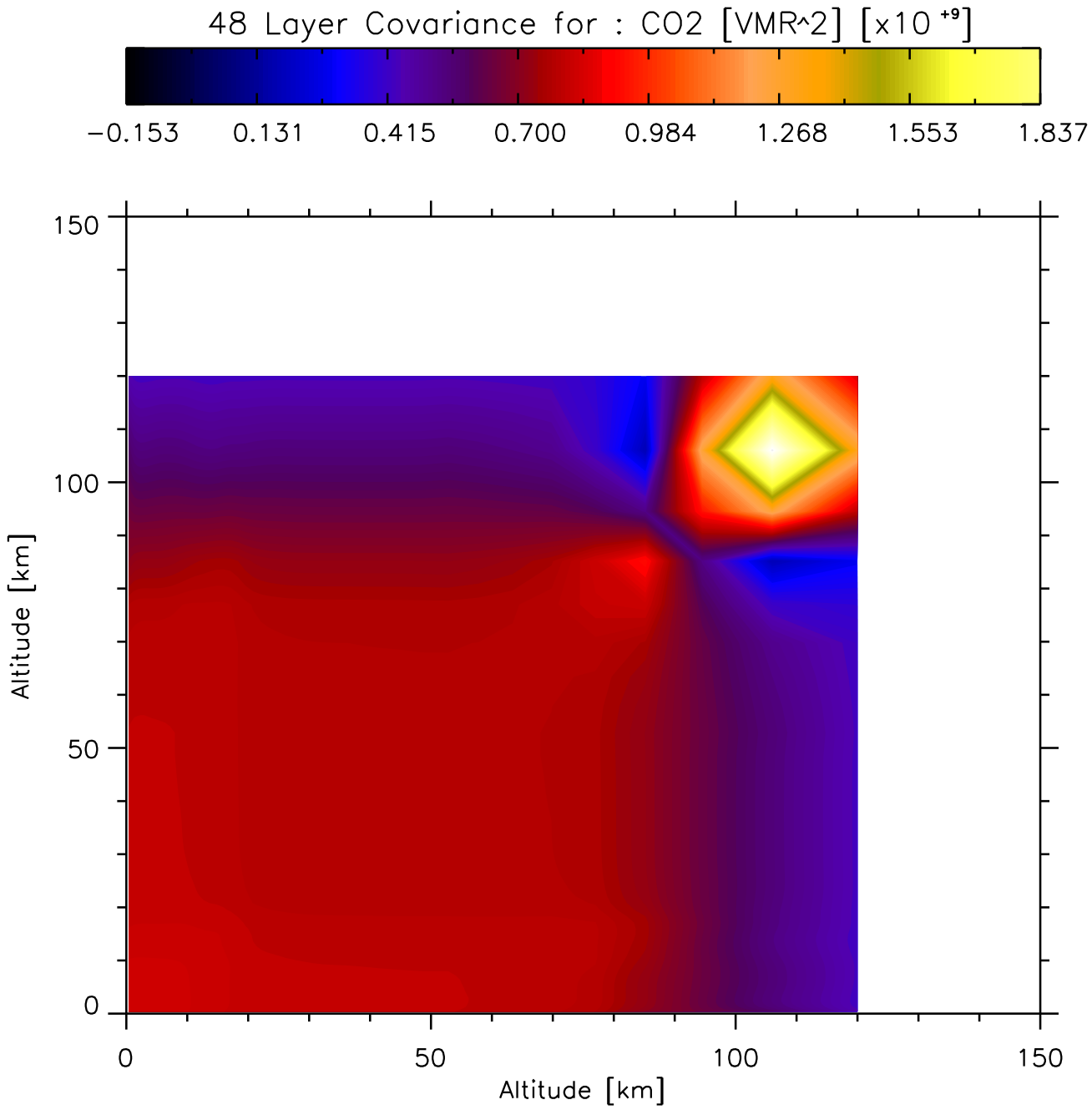

Initial & Interpolated profiles by month for : 2018
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

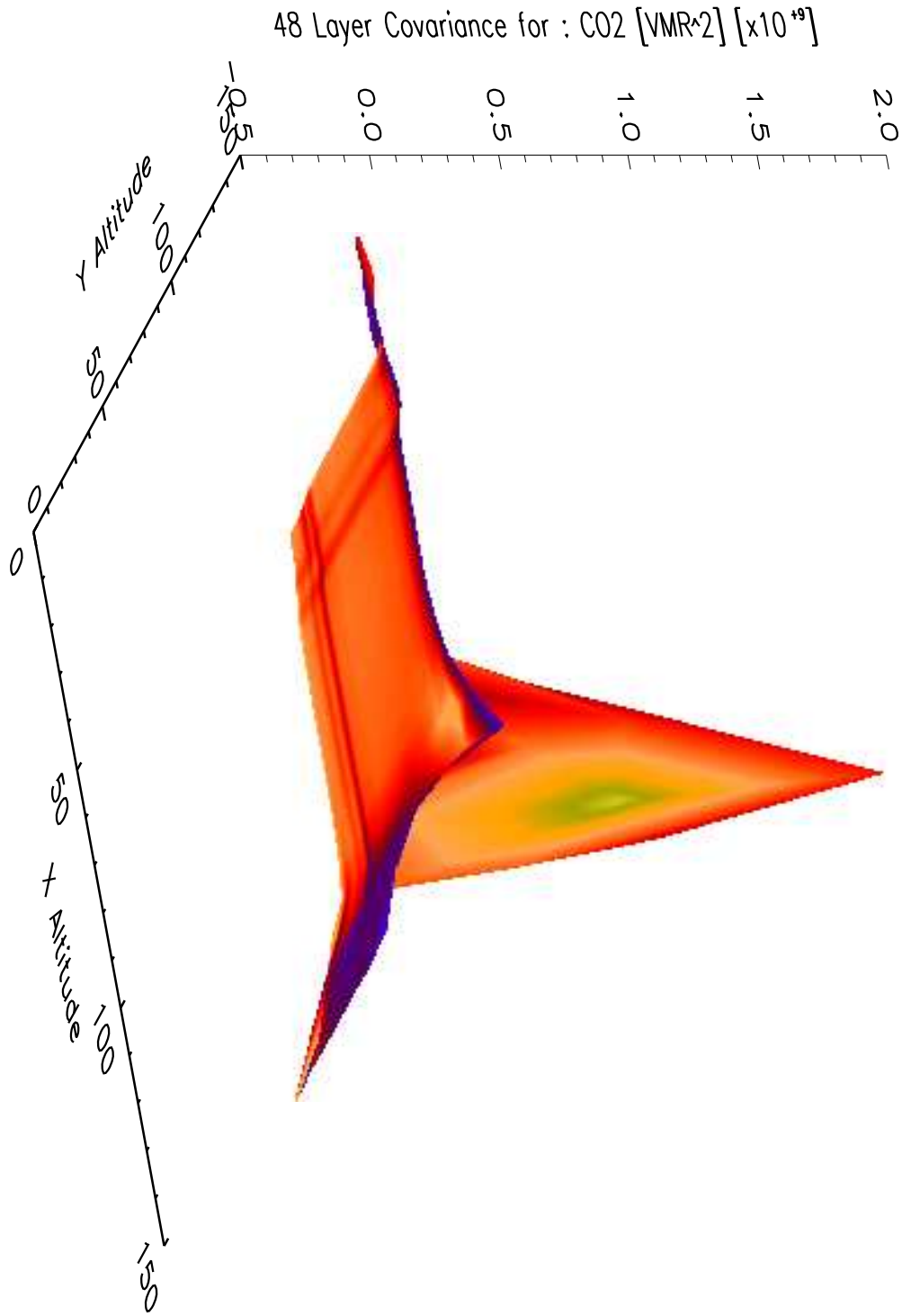

Initial & Interpolated profiles by month for : 2019
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

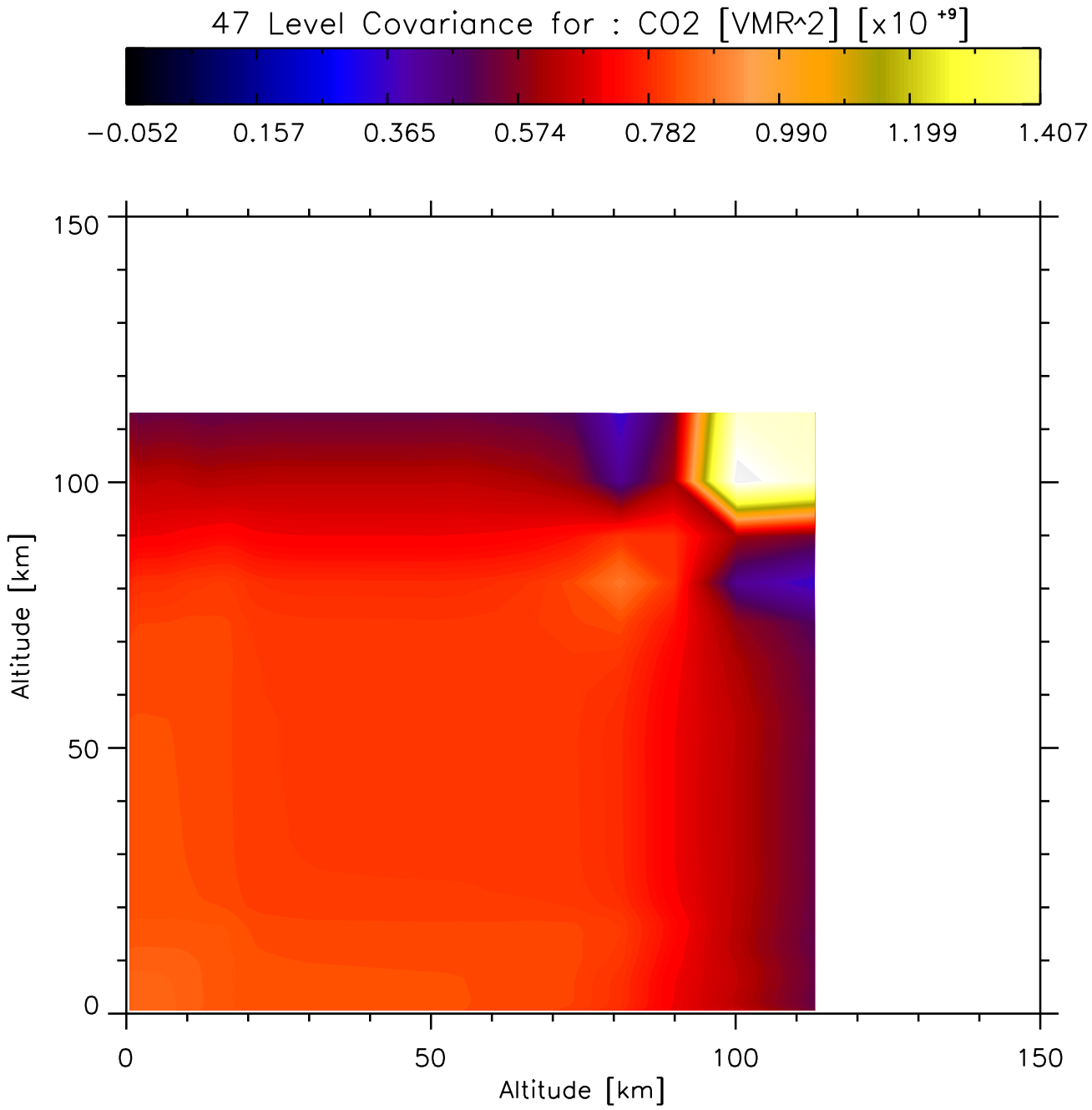

Initial & Interpolated profiles by month for : 2020
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


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


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
SD
5
10
15
20
25
30
35
%


48 Layer Covariance for : CO2 [VMR^2] [x10 +9]
−0.153
0.131
0.415
0.700
0.984
1.268
1.553
1.837
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : CO2 [VMR^2] [x10 +9]
-0.5
0.0
0.5
1.0
1.5
2.0
Y Altitude
150
100
50
0
X Altitude
0
50
100
150


47 Level Covariance for : CO2 [VMR^2] [x10 +9]
−0.052
0.157
0.365
0.574
0.782
0.990
1.199
1.407
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Level Covariance for : CO2 [VMR^2] [x10^-9]
1.5
1.0
0.5
0.0
Y Altitude
0
10
20
30
40
0
50
100
150
X Altitude