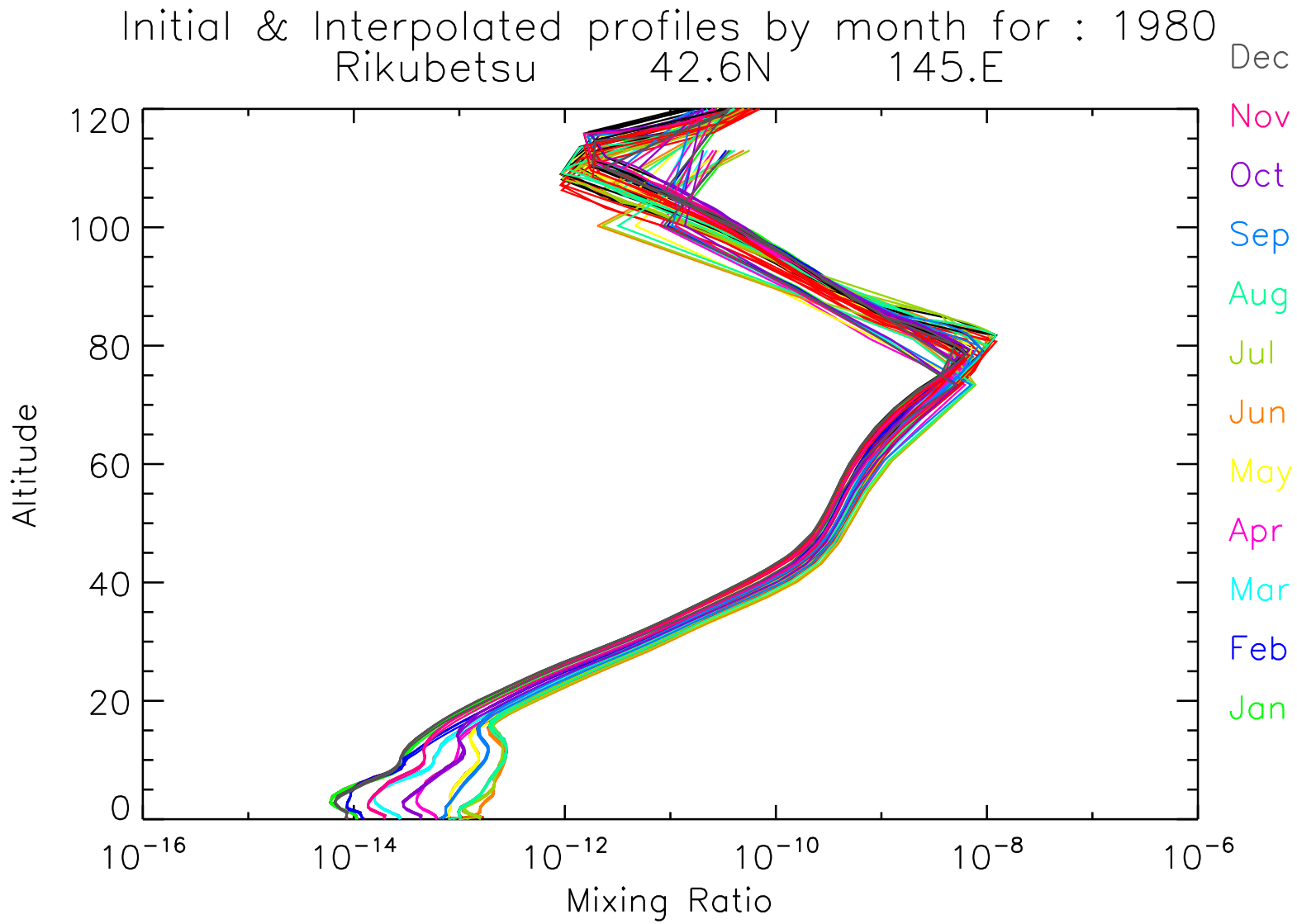
Initial & Interpolated profiles by month for : 1980
Rikubetsu 42.6N 145.E
Dec
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Altitude
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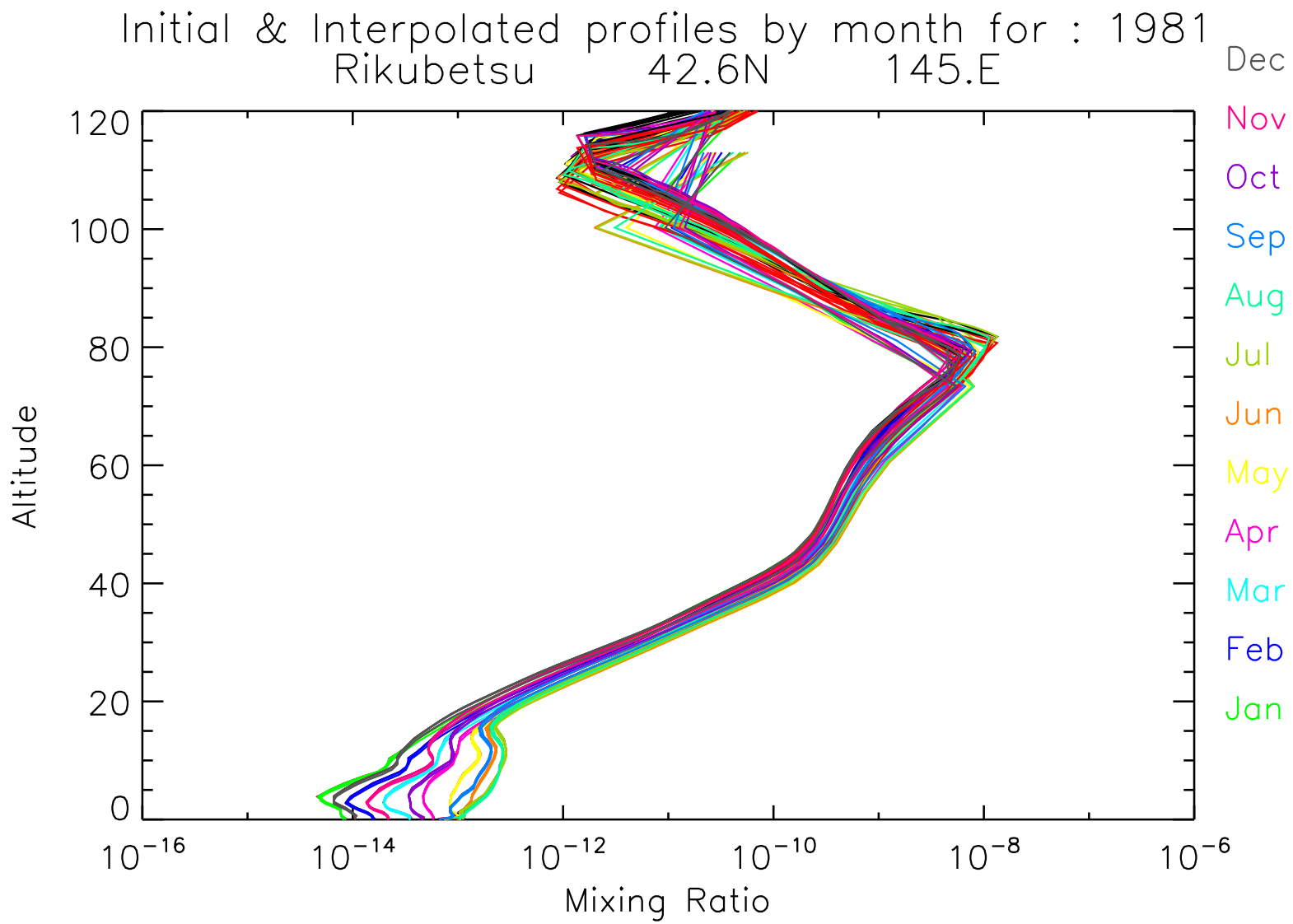
Mixing Ratio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Altitude
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Mixing Ratio
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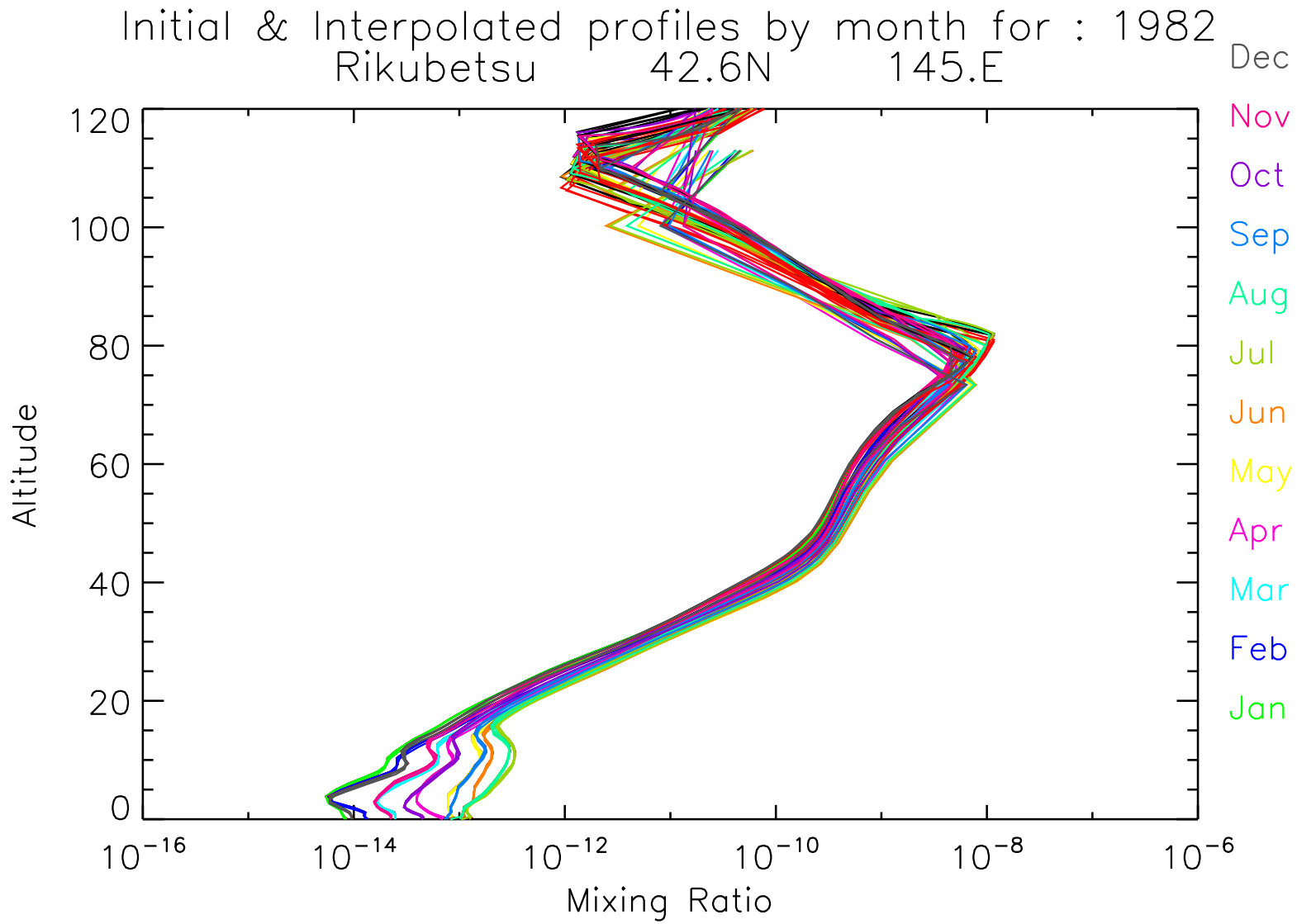
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Altitude
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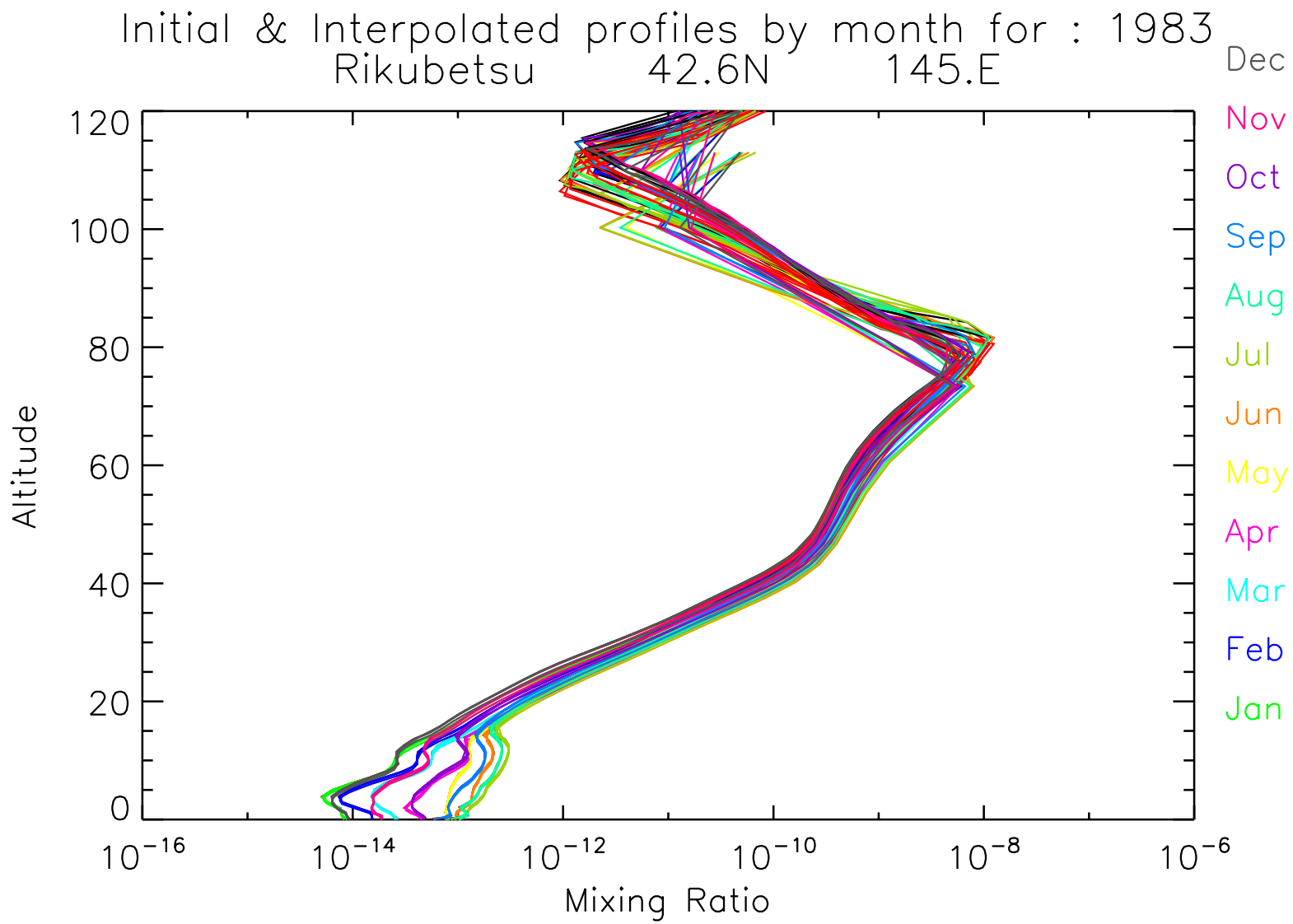
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
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Altitude
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Mixing Ratio
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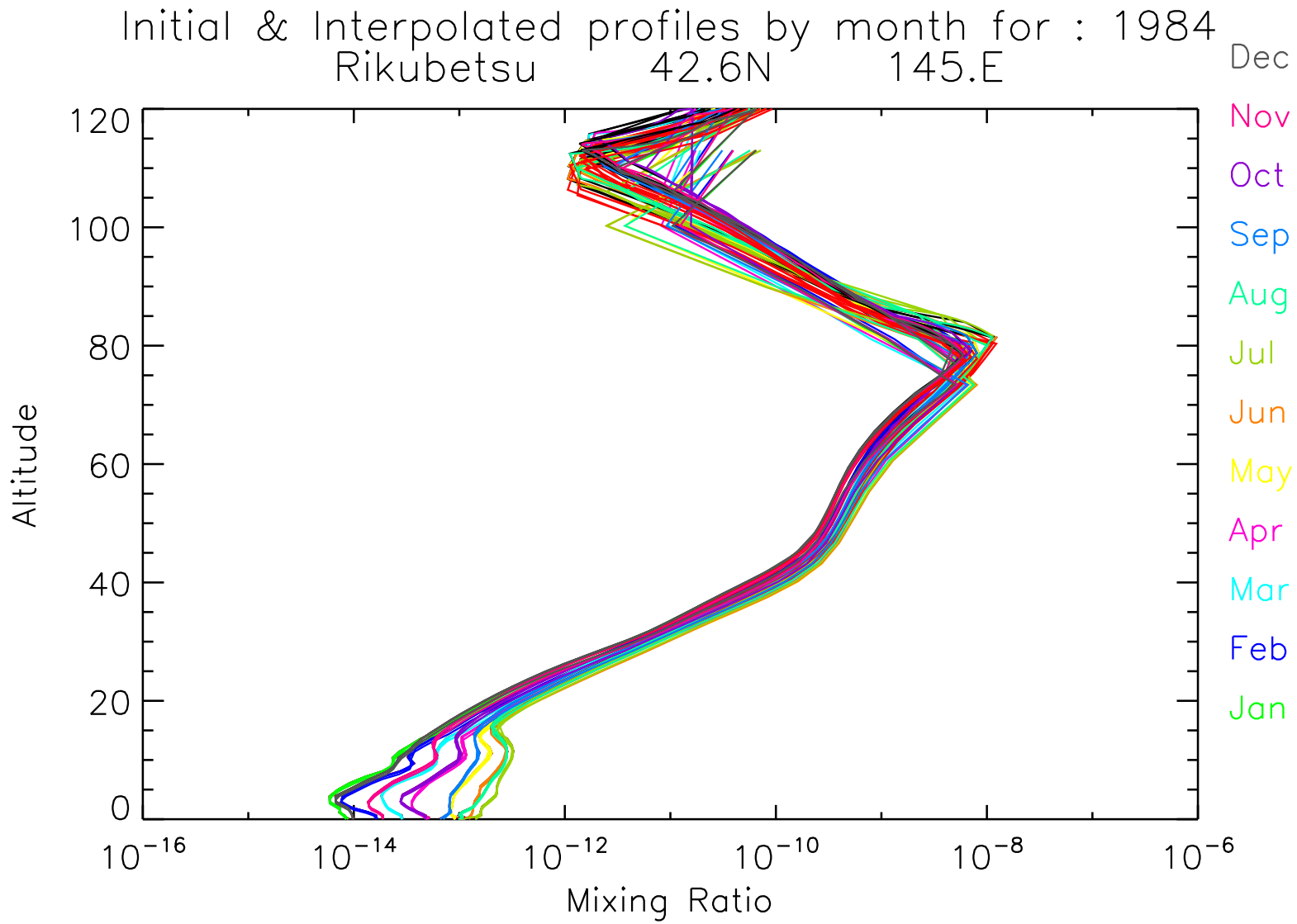
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Altitude
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Mixing Ratio
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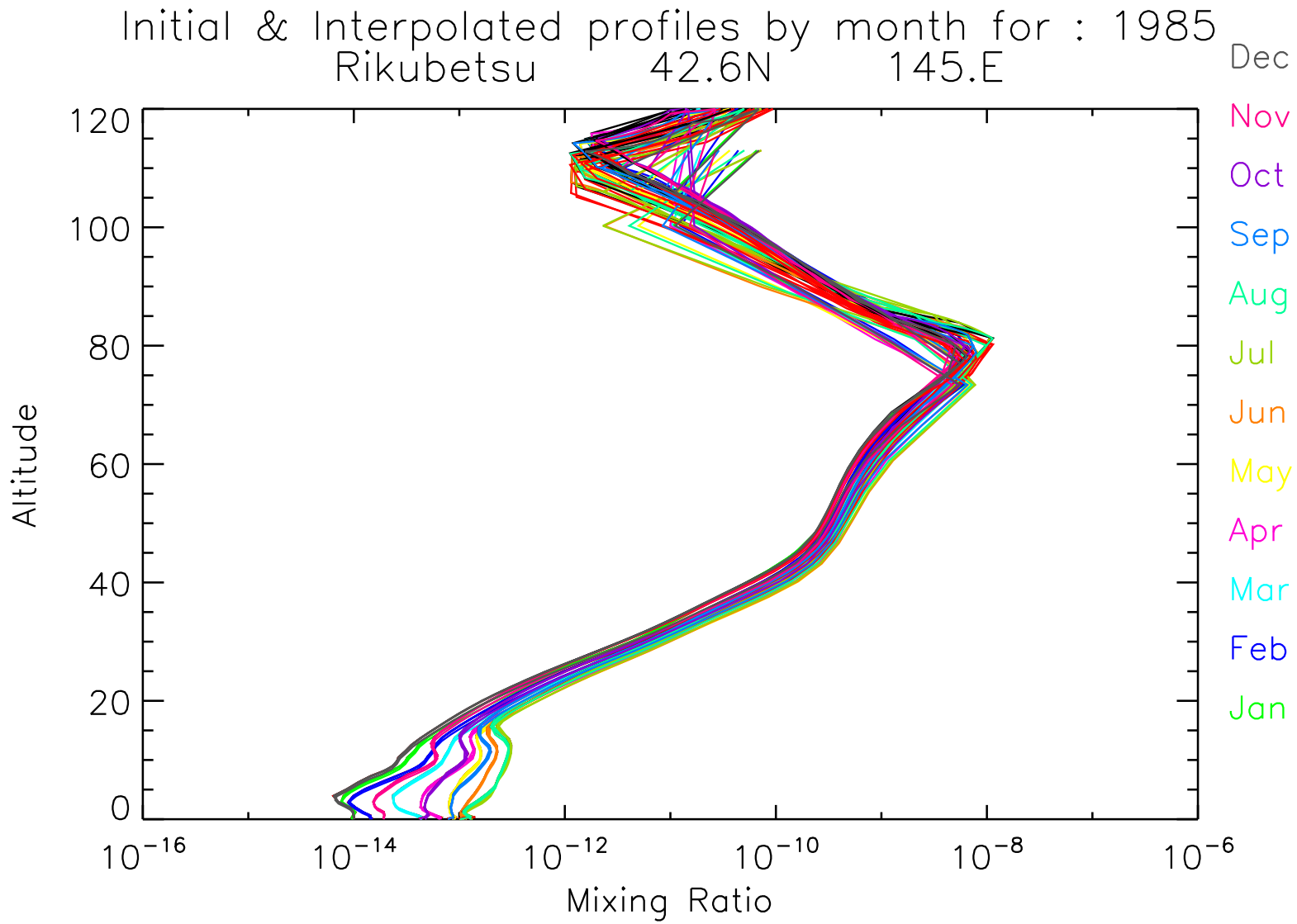
Initial & Interpolated profiles by month for : 1985
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Altitude
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Mixing Ratio
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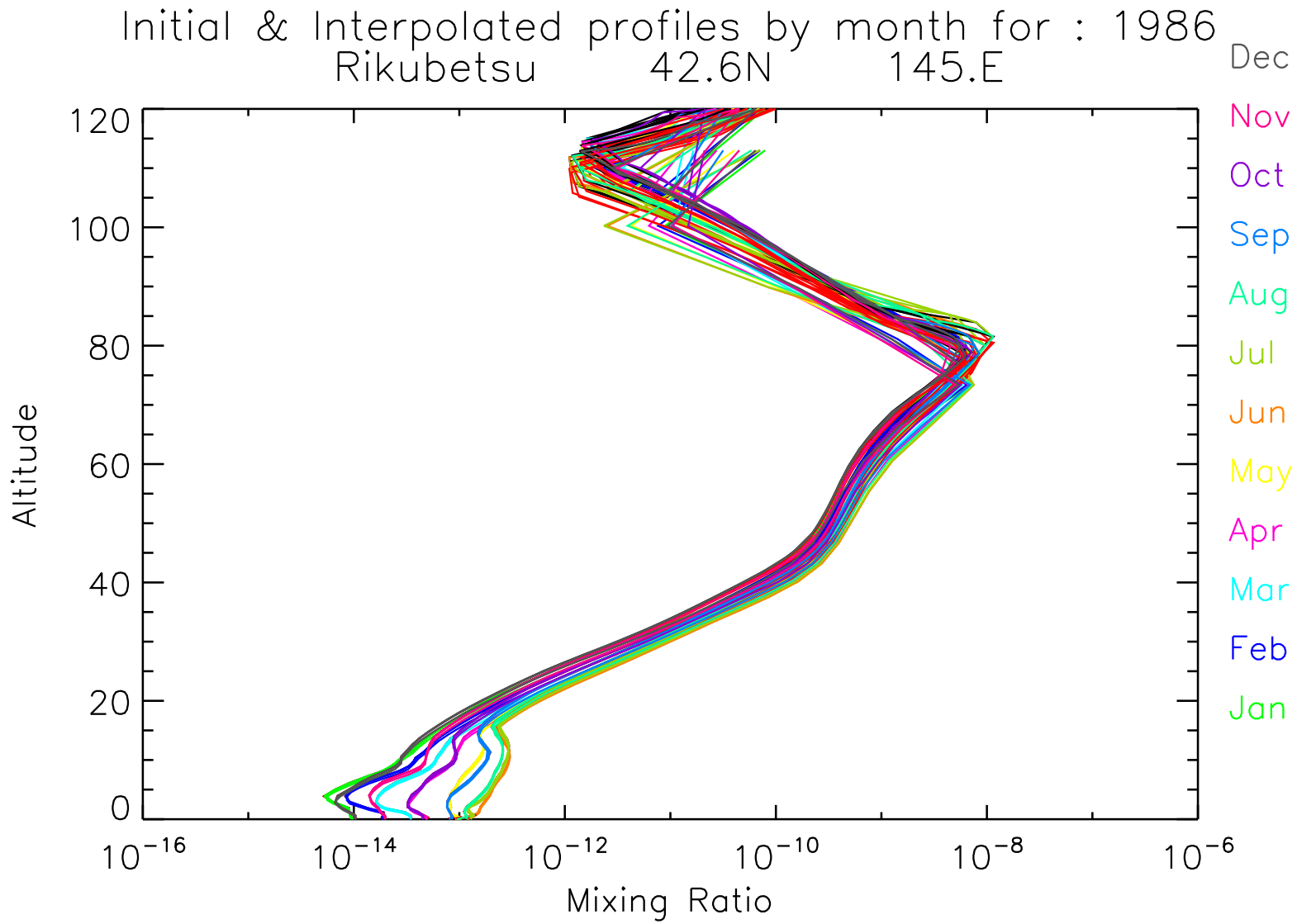
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Altitude
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Mixing Ratio
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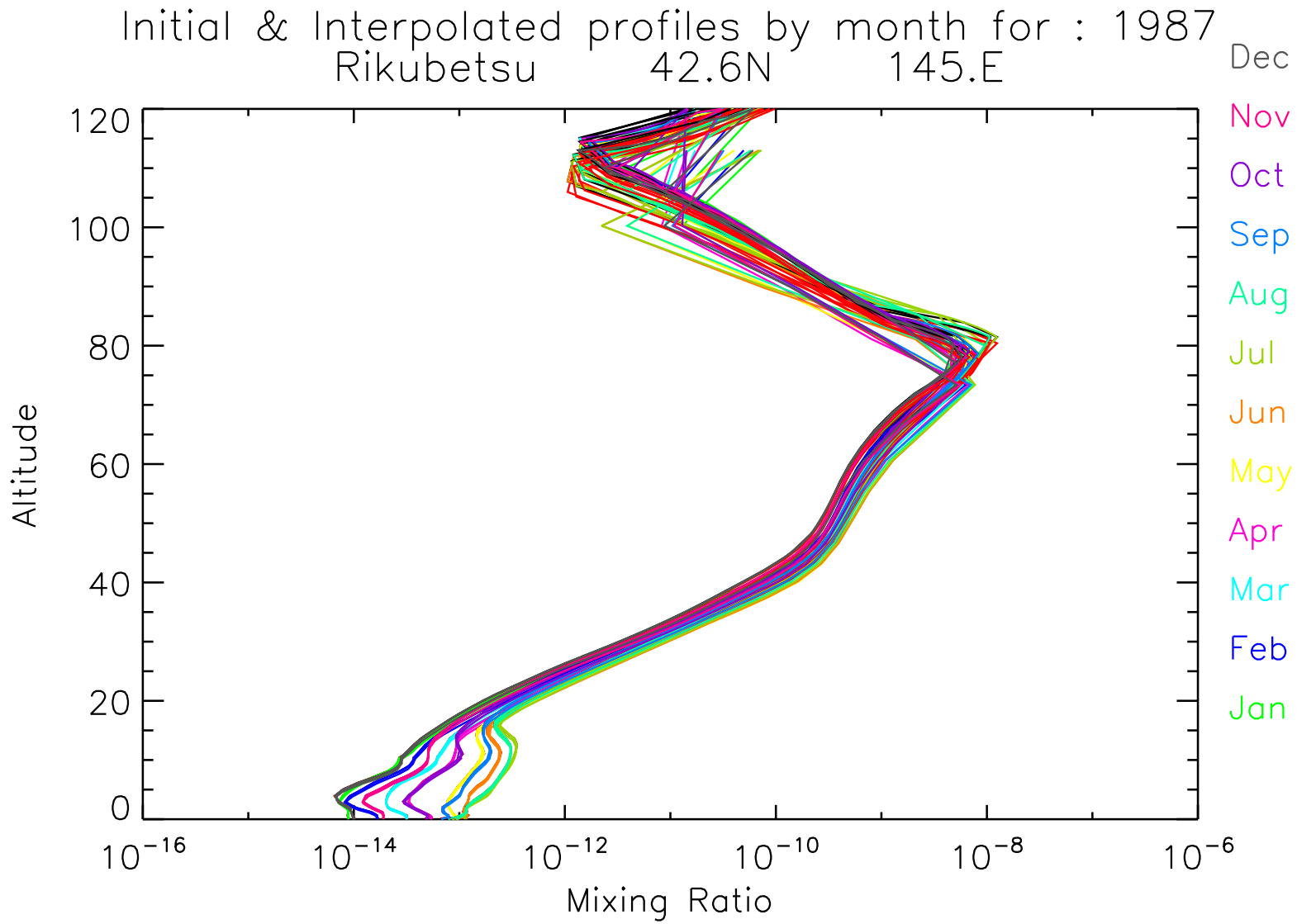
Initial & Interpolated profiles by month for : 1987
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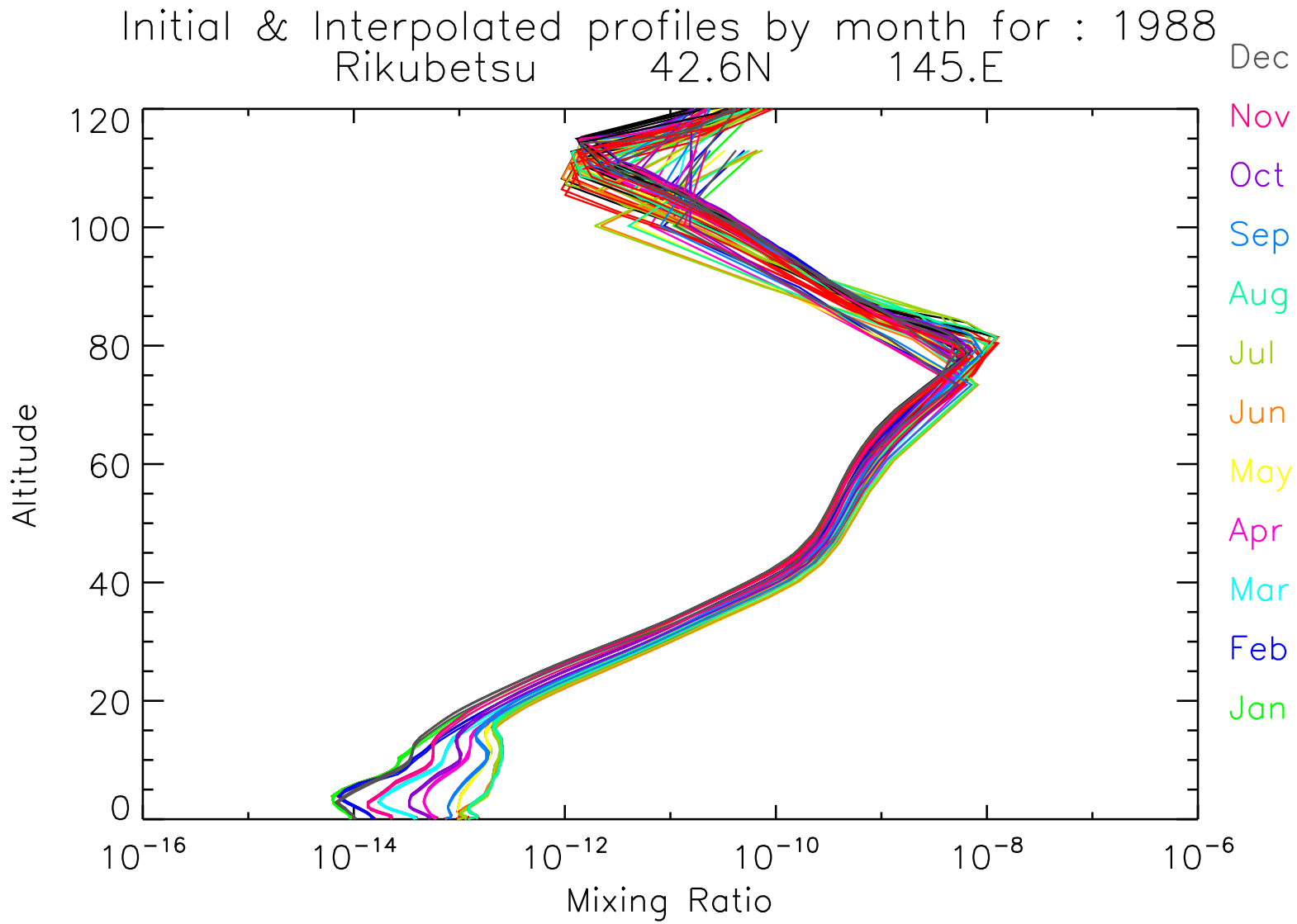
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
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Altitude
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Mixing Ratio
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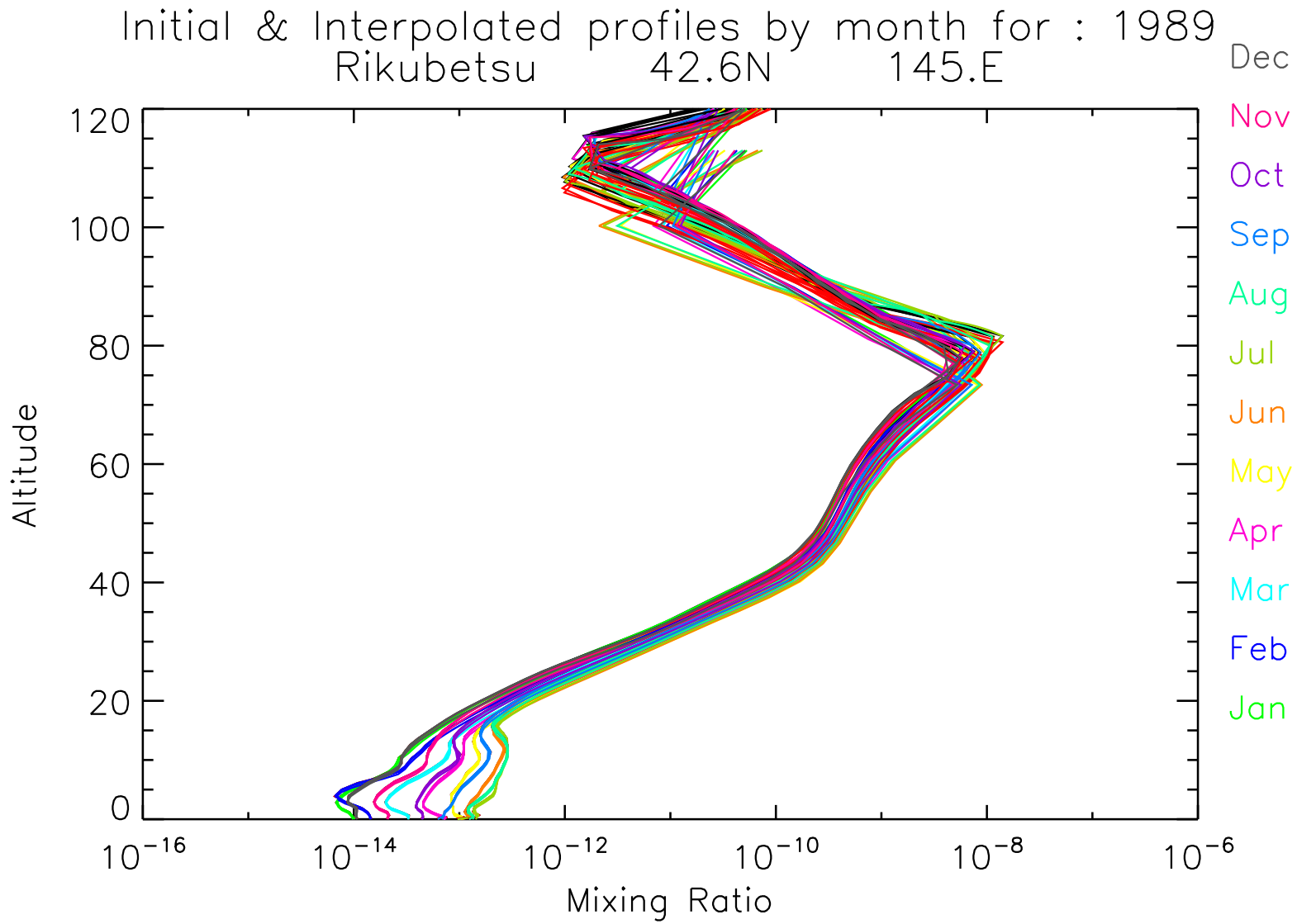
Initial & Interpolated profiles by month for : 1989
Rikubetsu 42.6N 145.E
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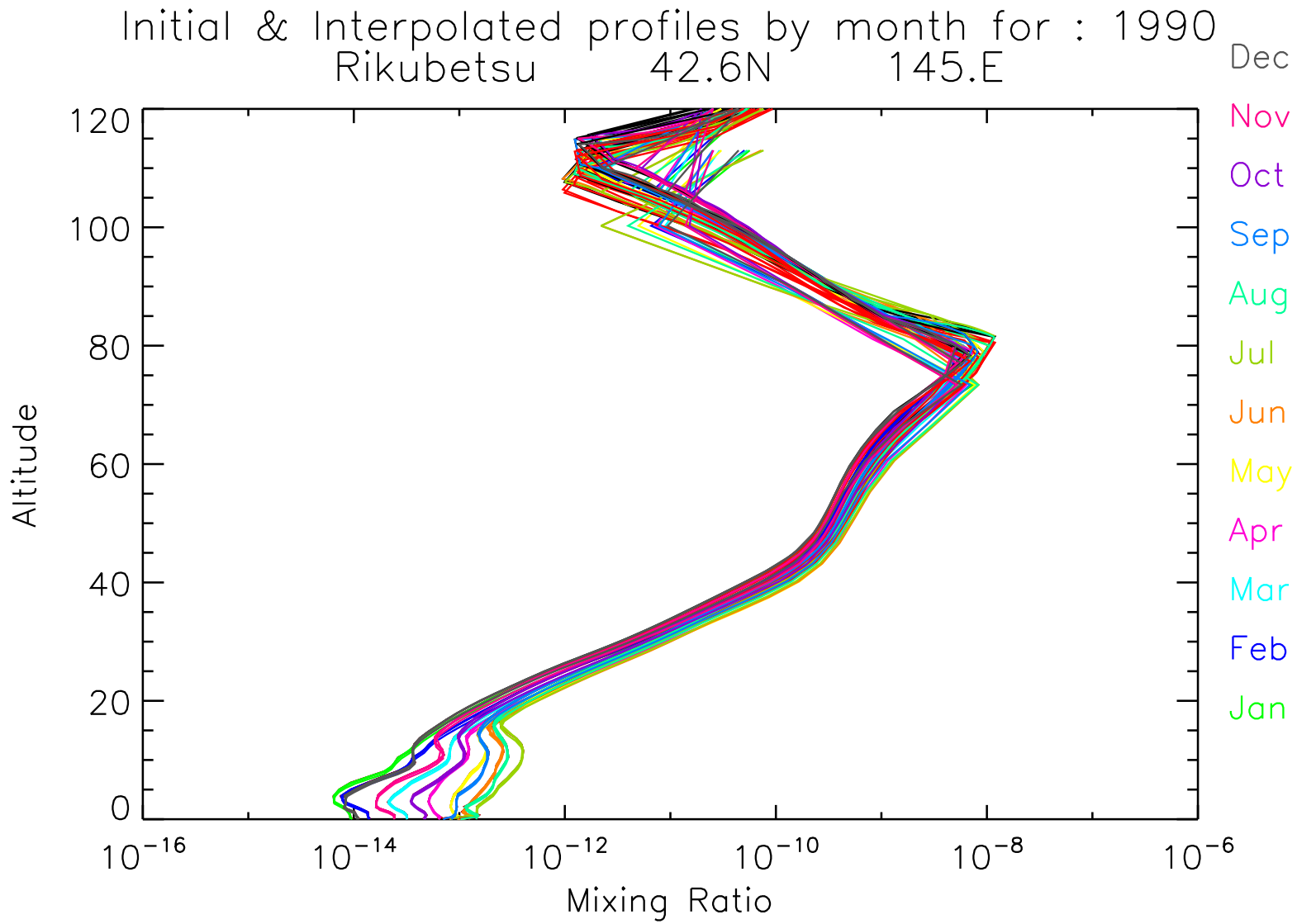
Mixing Ratio


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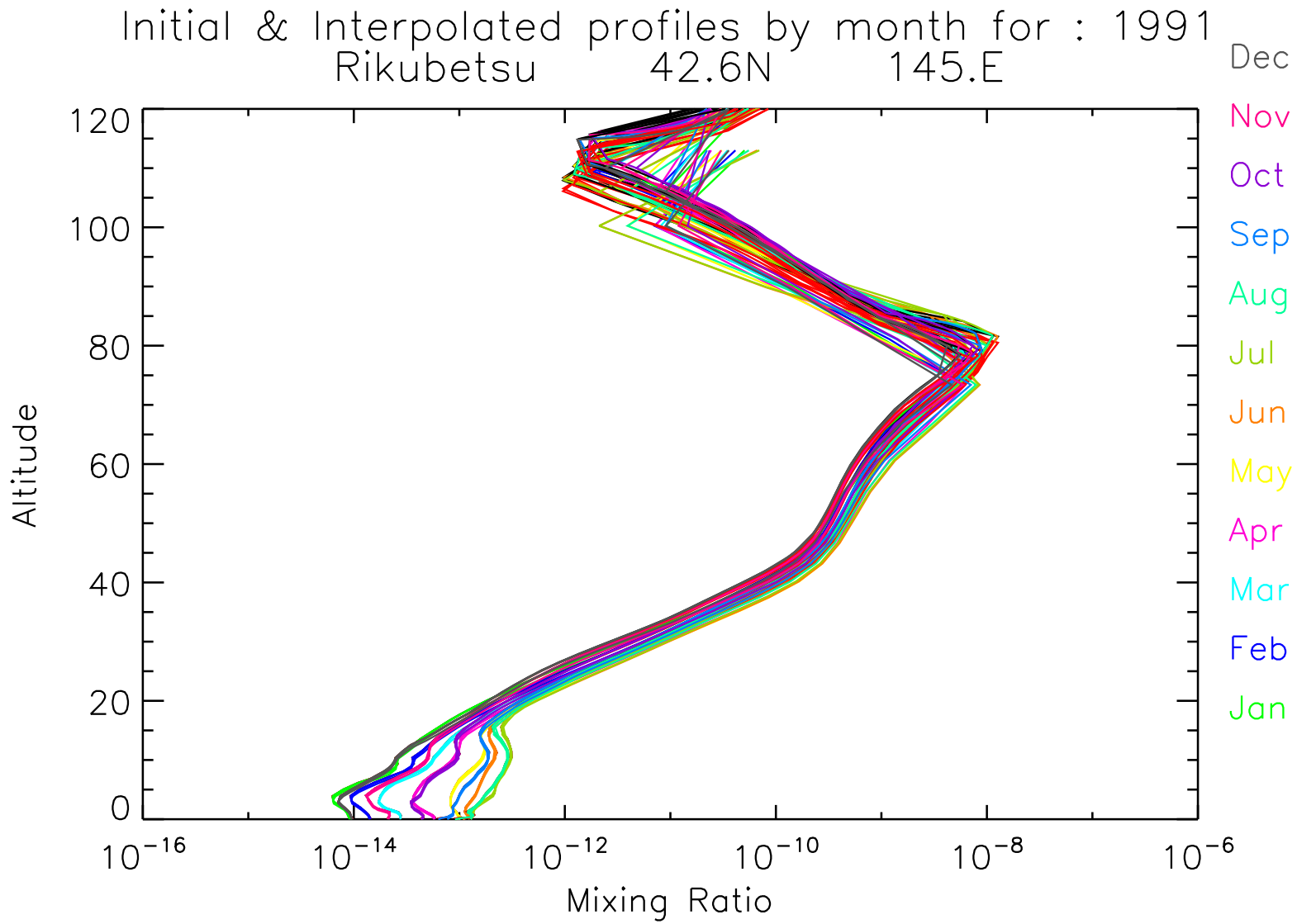
Initial & Interpolated profiles by month for : 1991
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Altitude
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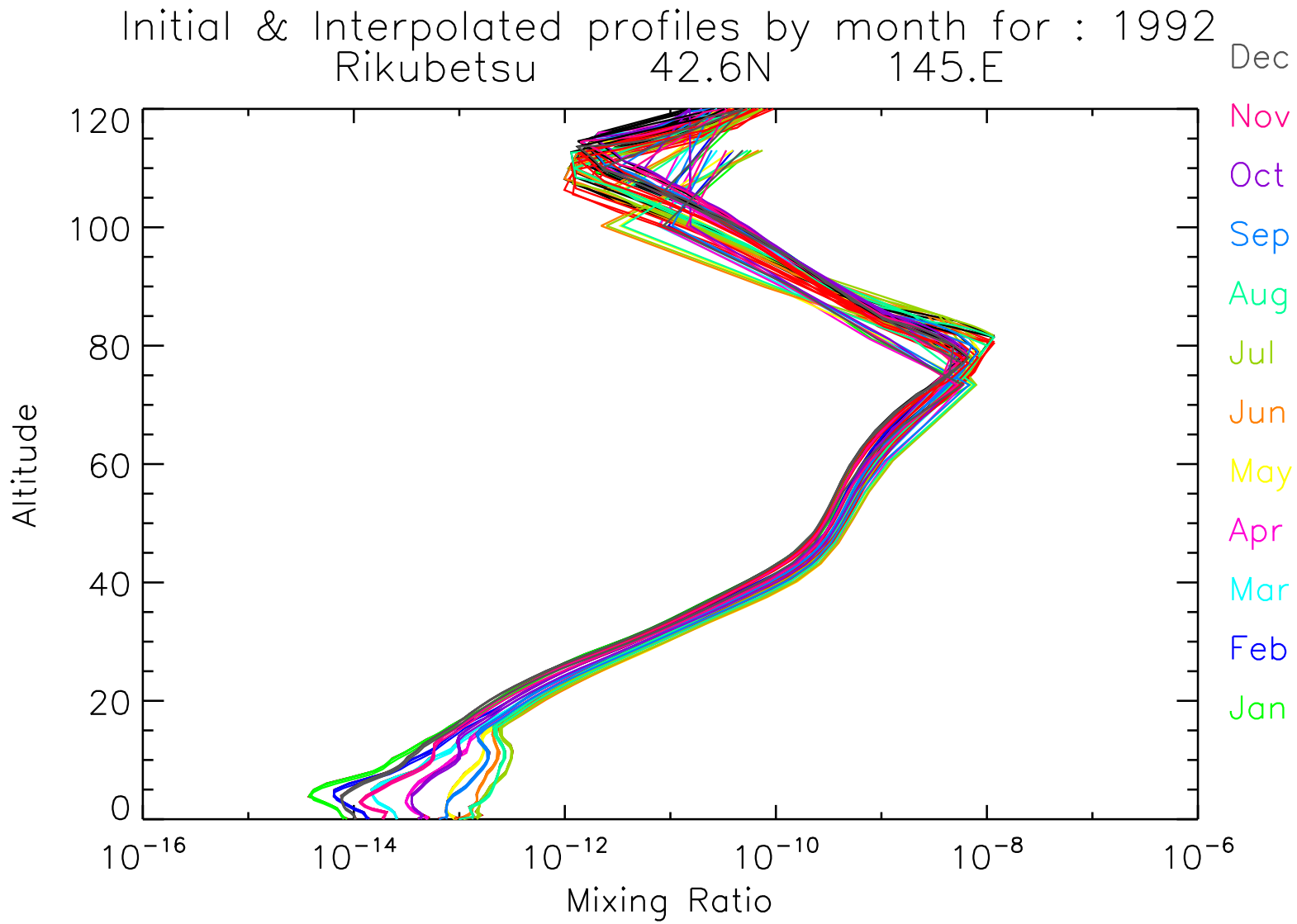
Initial & Interpolated profiles by month for : 1992
Rikubetsu 42.6N 145.E
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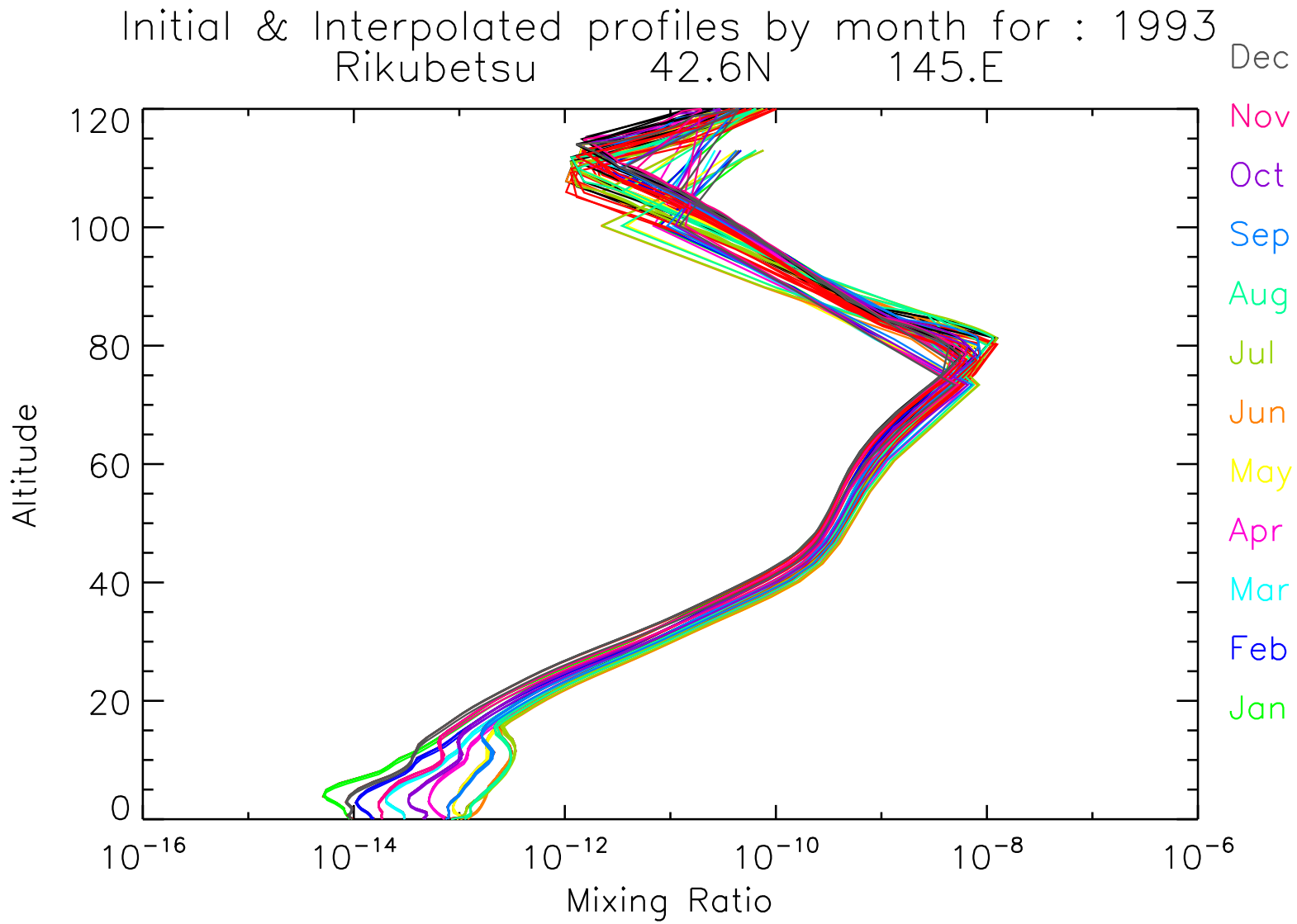
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
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Altitude
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Mixing Ratio
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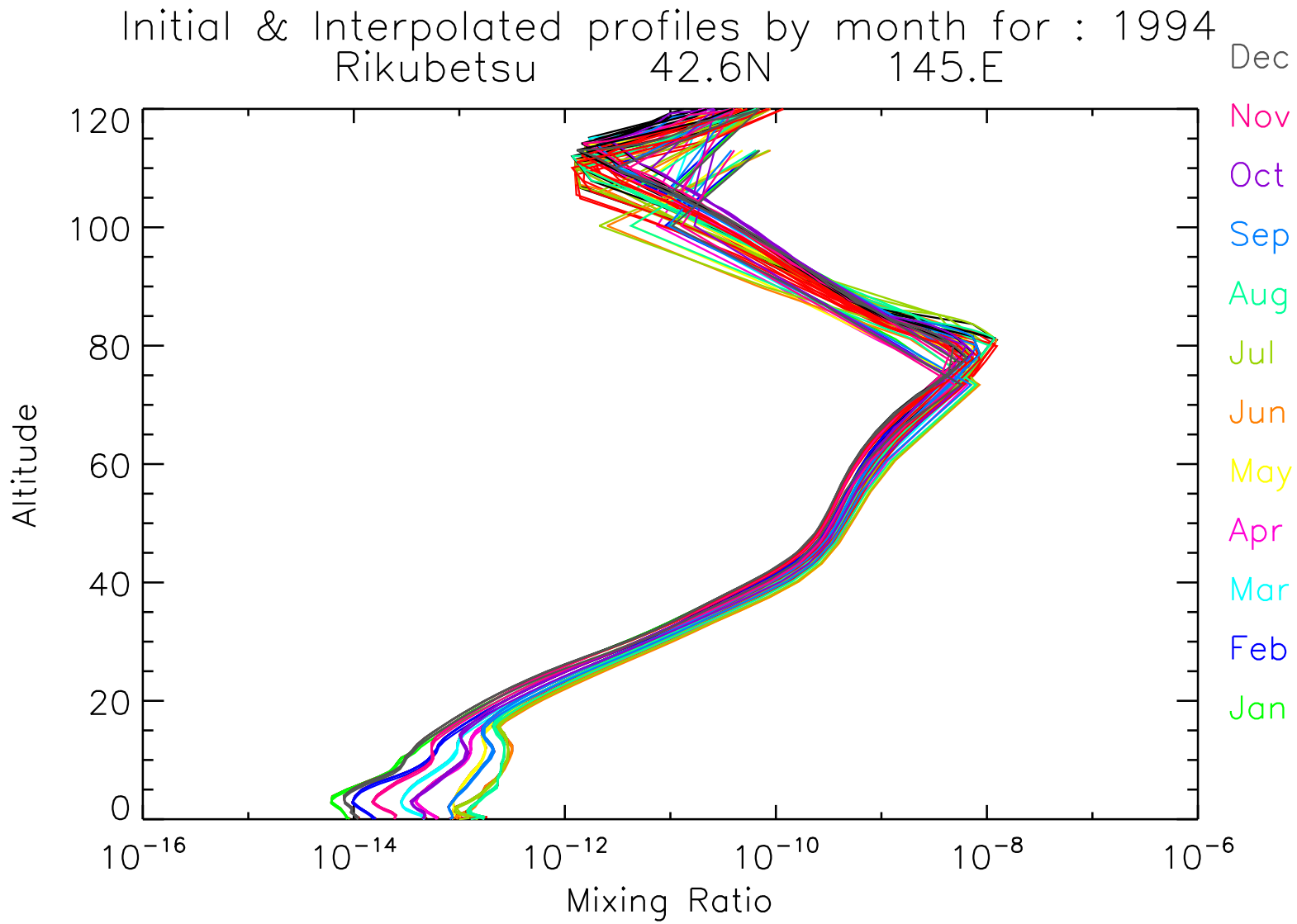
Initial & Interpolated profiles by month for : 1994
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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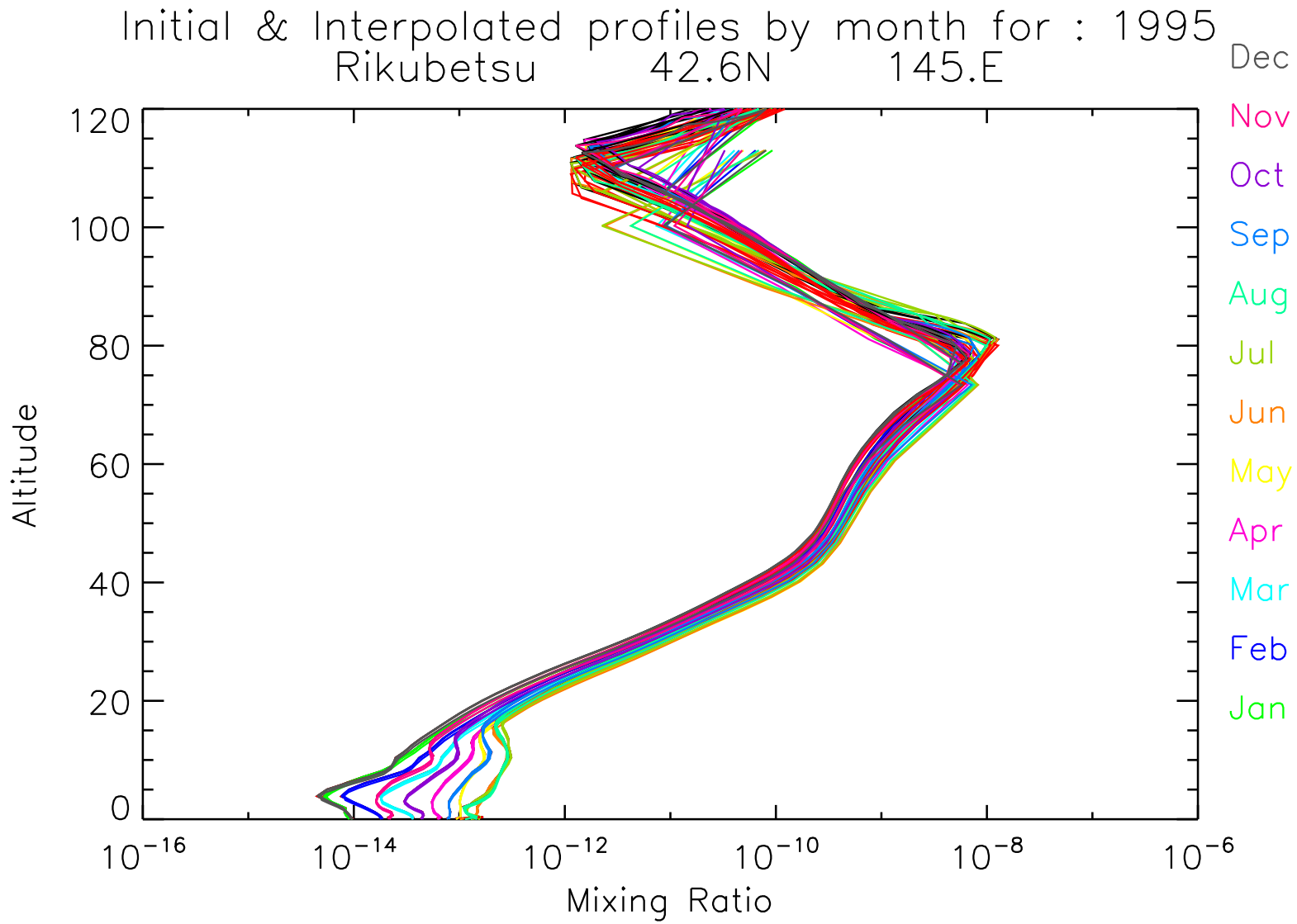
Initial & Interpolated profiles by month for : 1995
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Altitude
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Mixing Ratio
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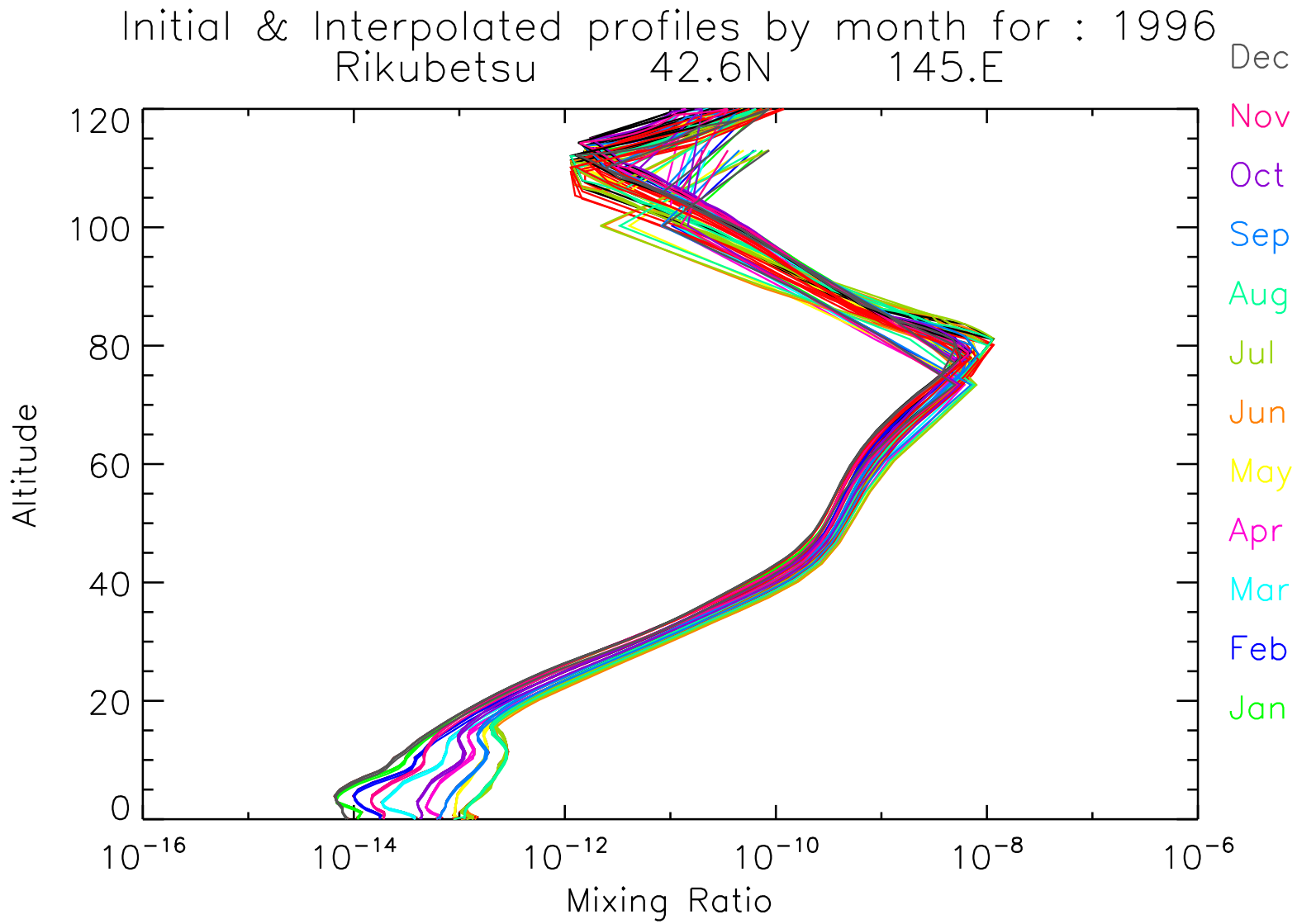
Initial & Interpolated profiles by month for : 1996
Rikubetsu 42.6N 145.E
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Altitude
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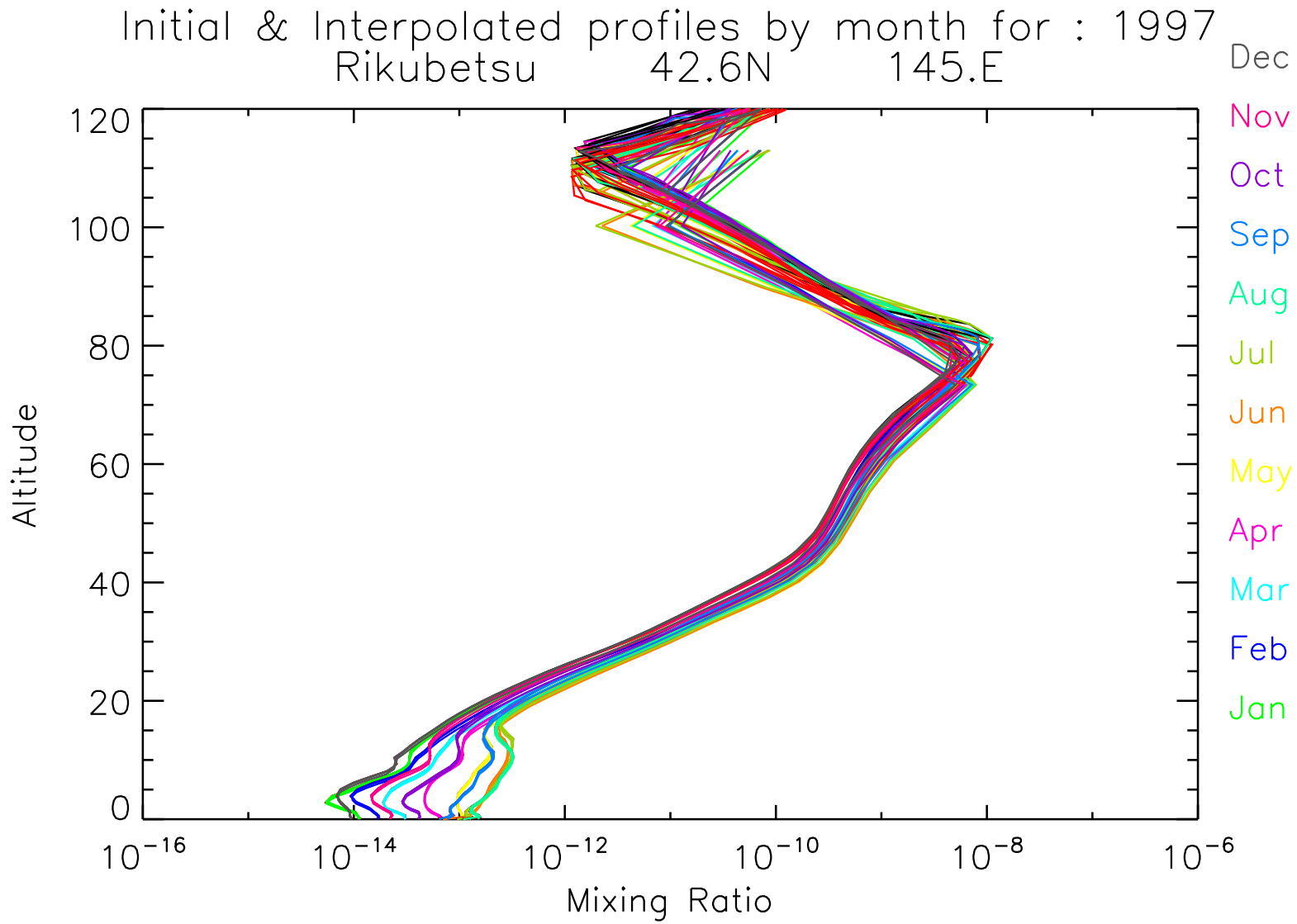
Mixing Ratio


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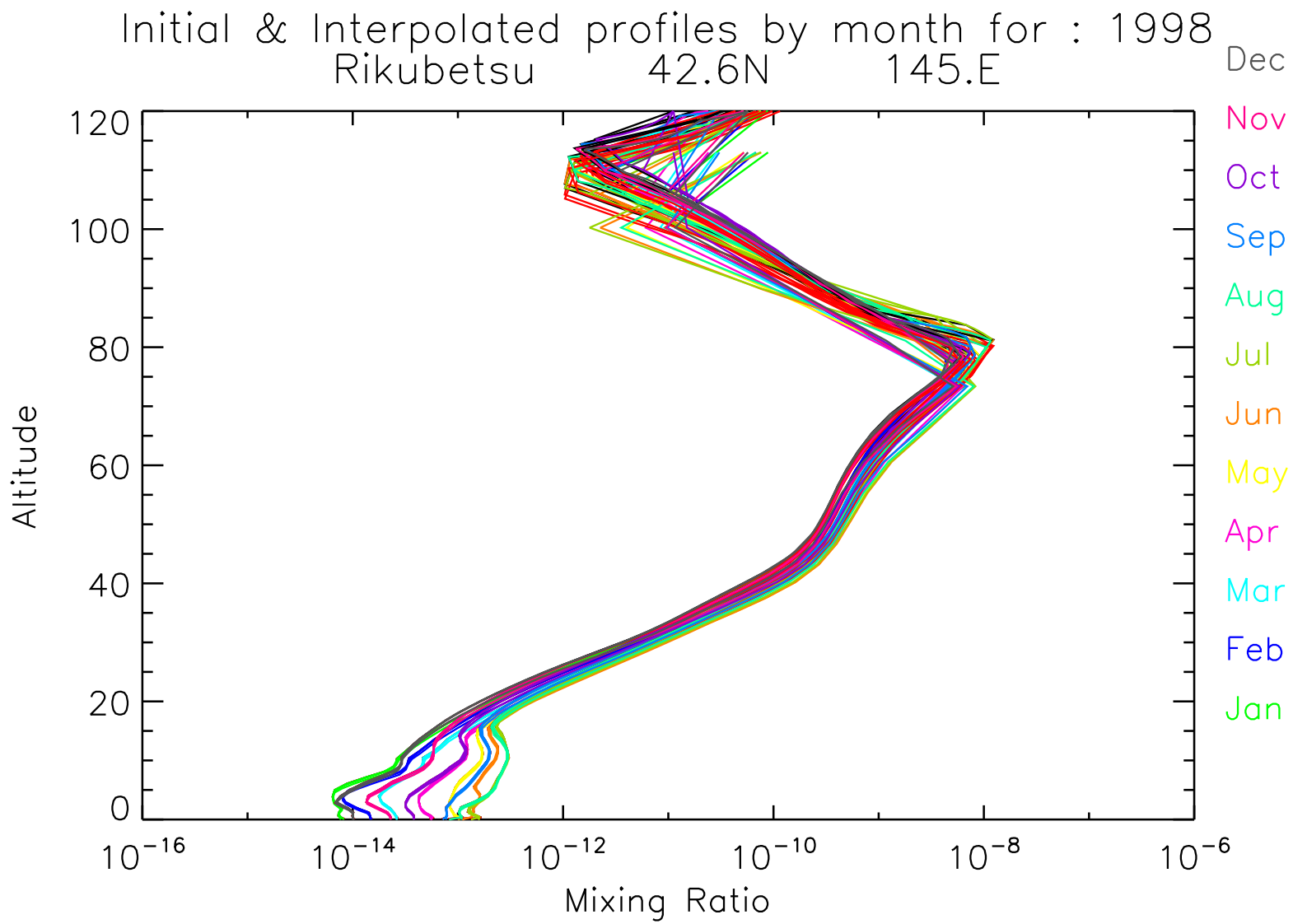
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Mixing Ratio
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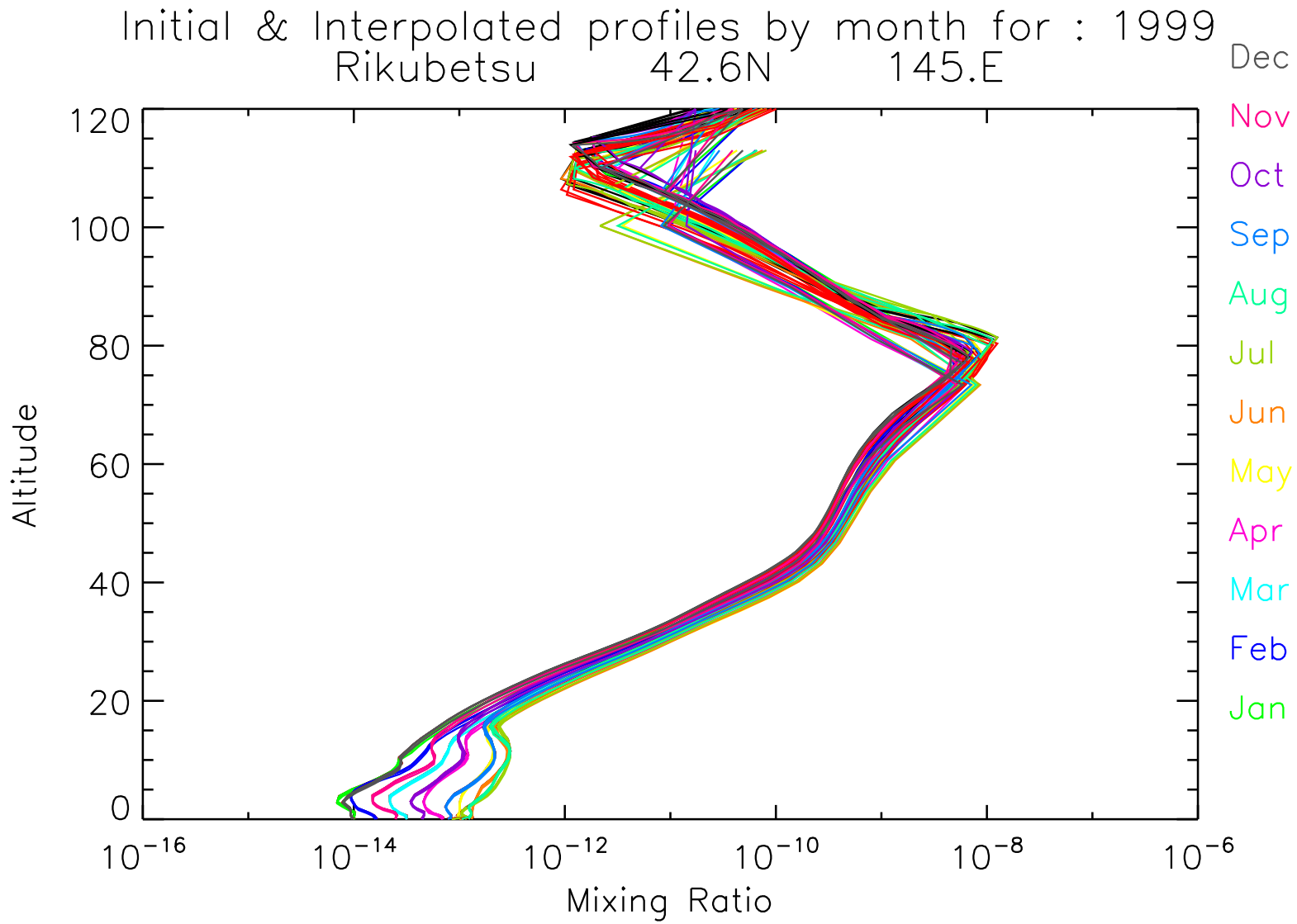
Initial & Interpolated profiles by month for : 1999
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Altitude
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Mixing Ratio
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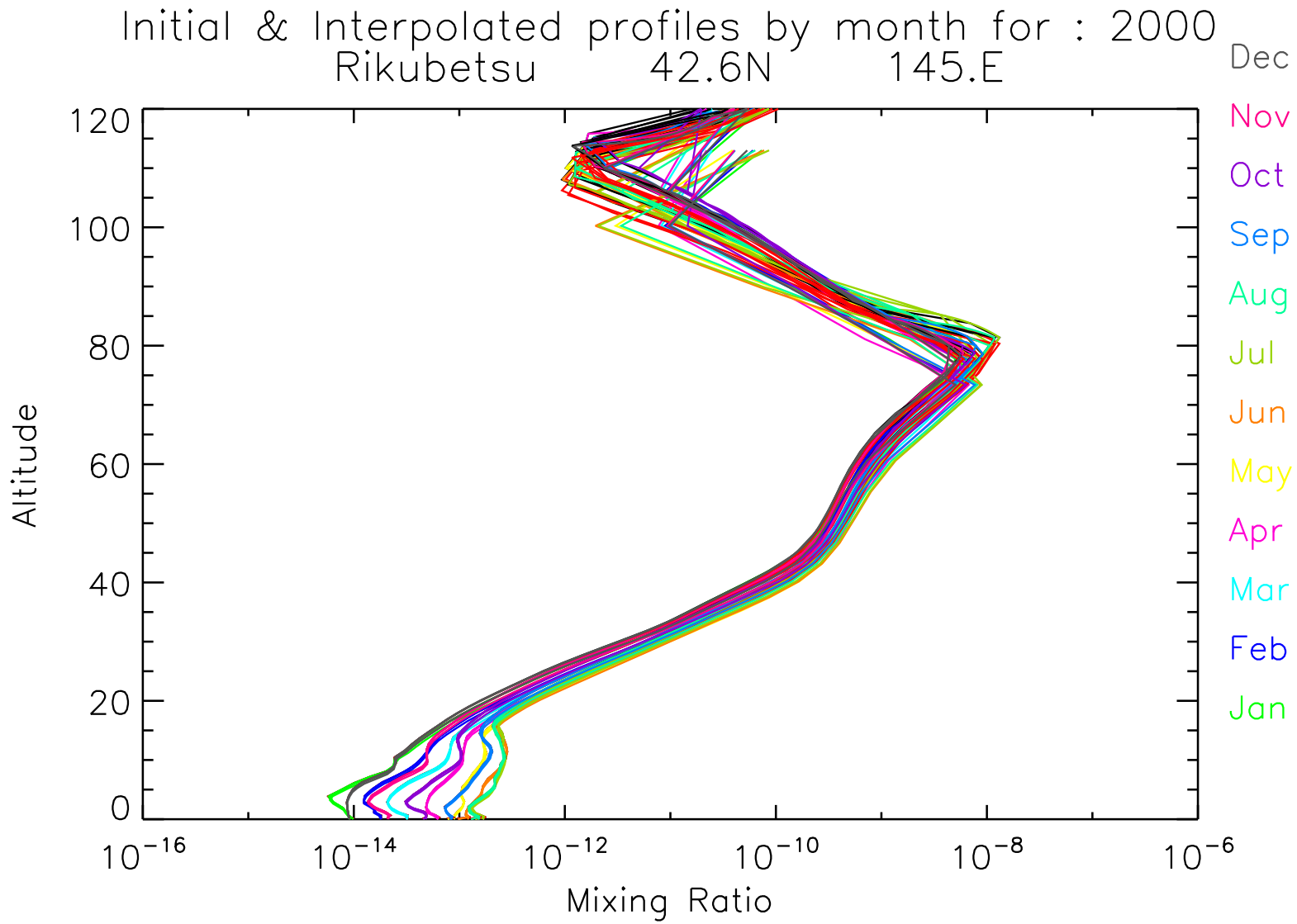
Initial & Interpolated profiles by month for : 2000
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Altitude
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Mixing Ratio
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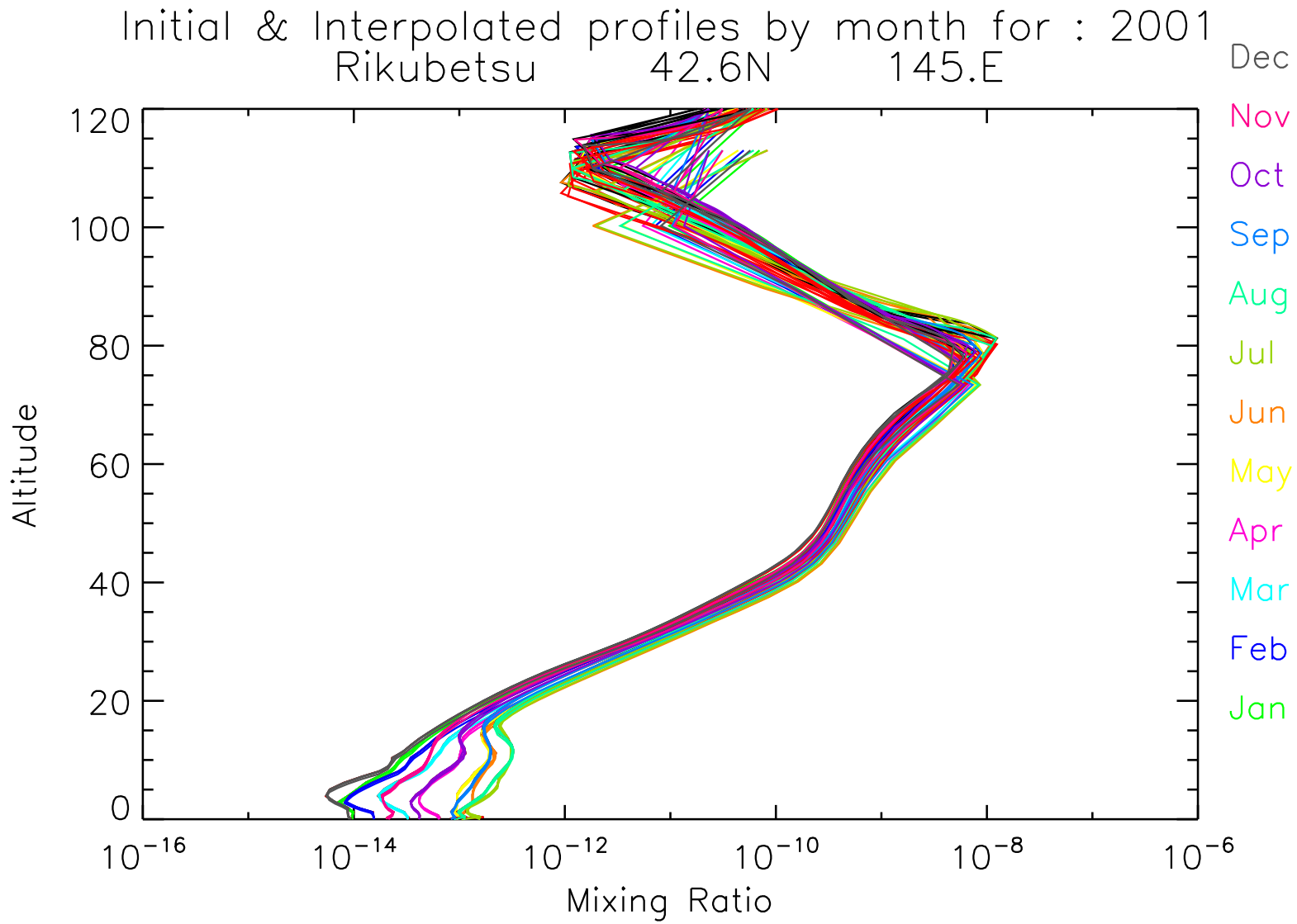
Initial & Interpolated profiles by month for : 2001
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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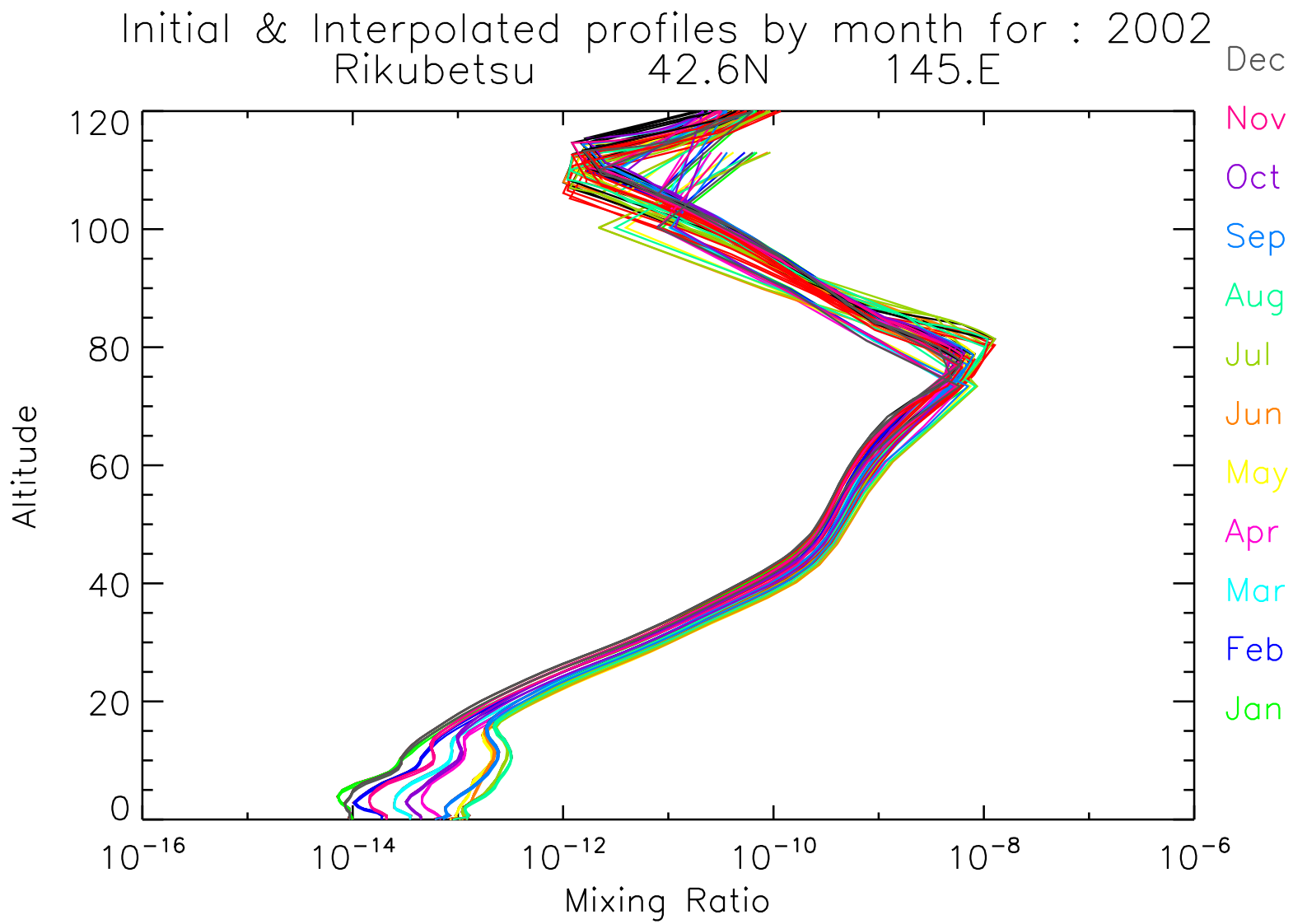
Initial & Interpolated profiles by month for : 2002
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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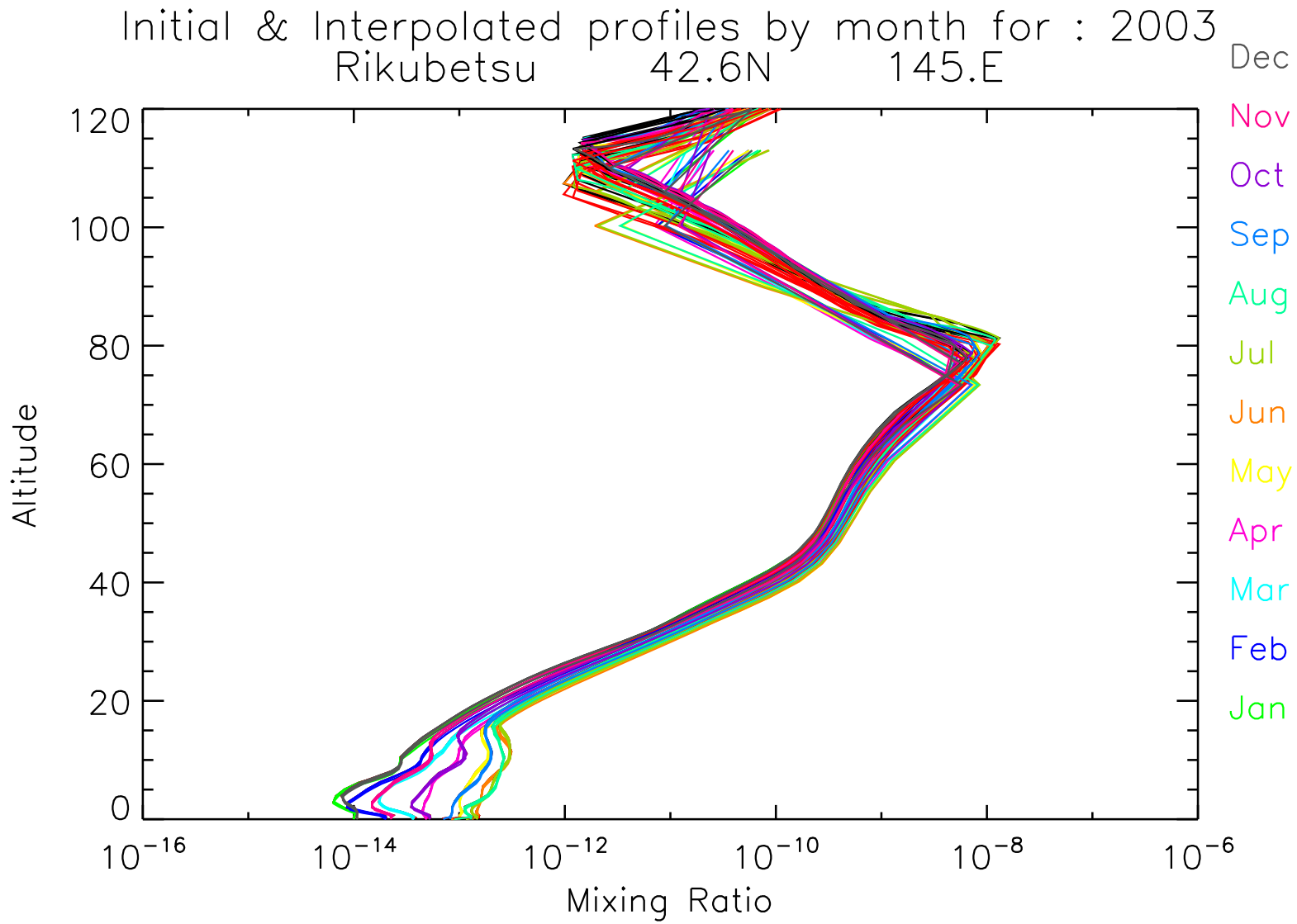
Initial & Interpolated profiles by month for : 2003
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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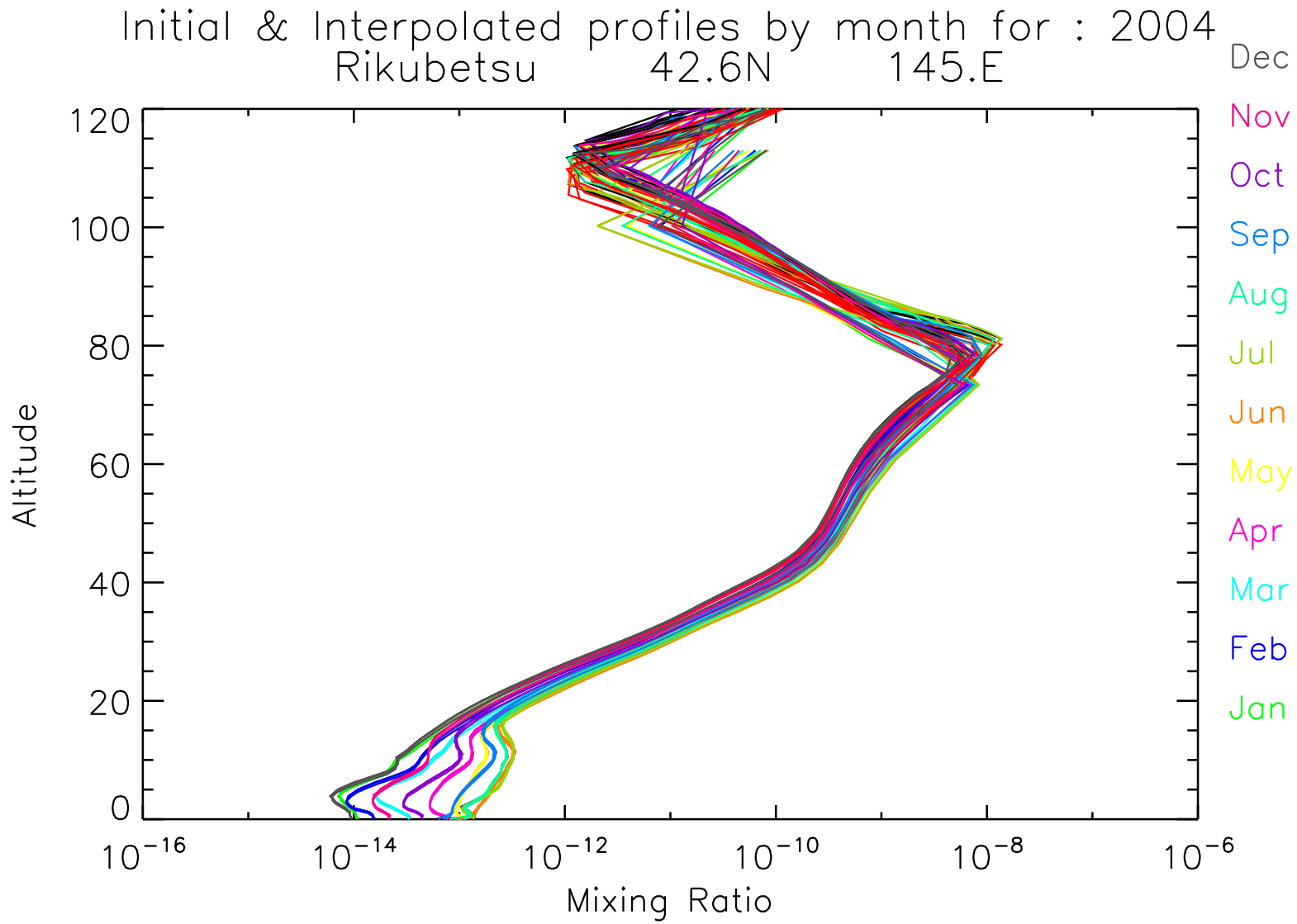
Initial & Interpolated profiles by month for : 2004
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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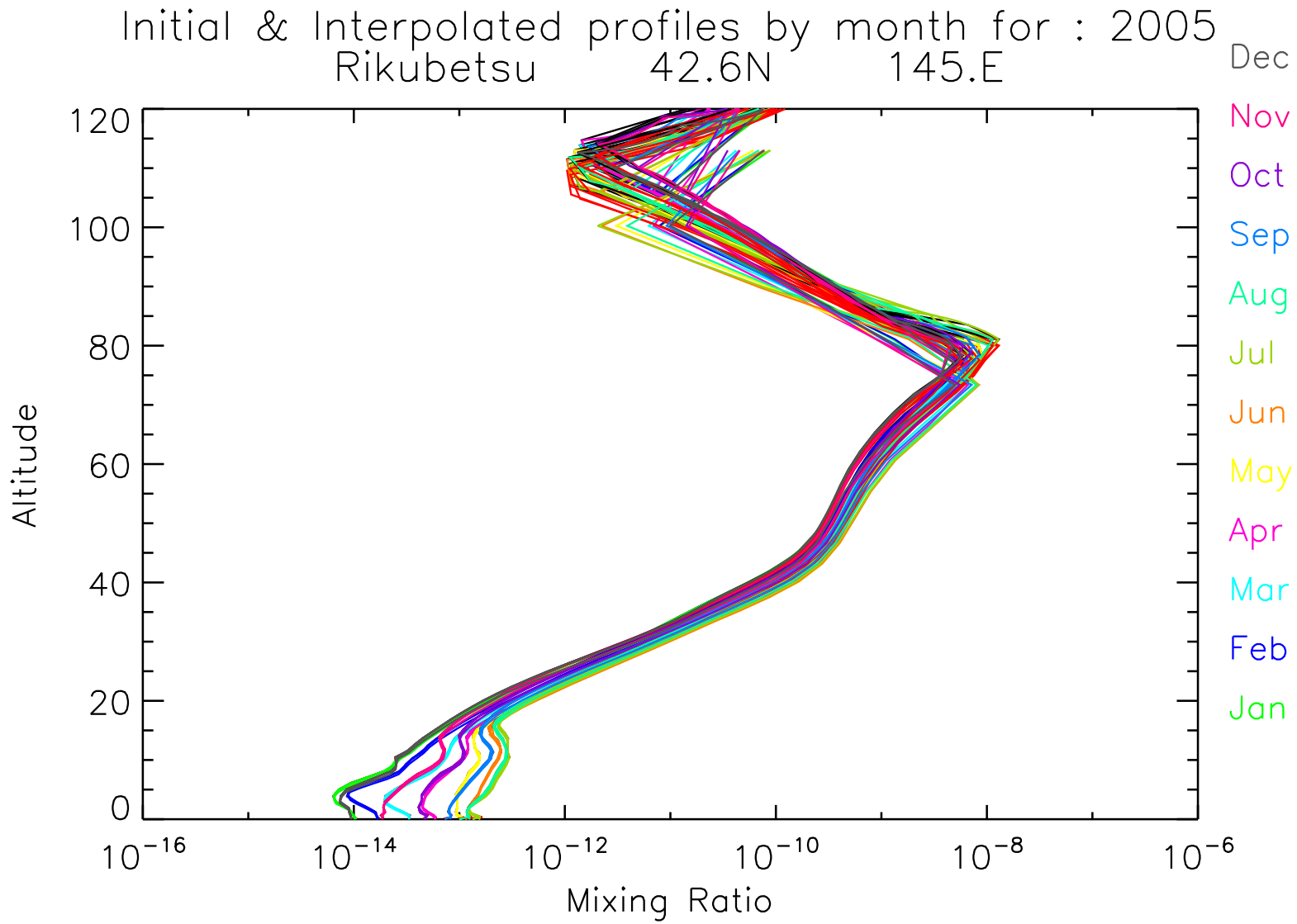
Initial & Interpolated profiles by month for : 2005
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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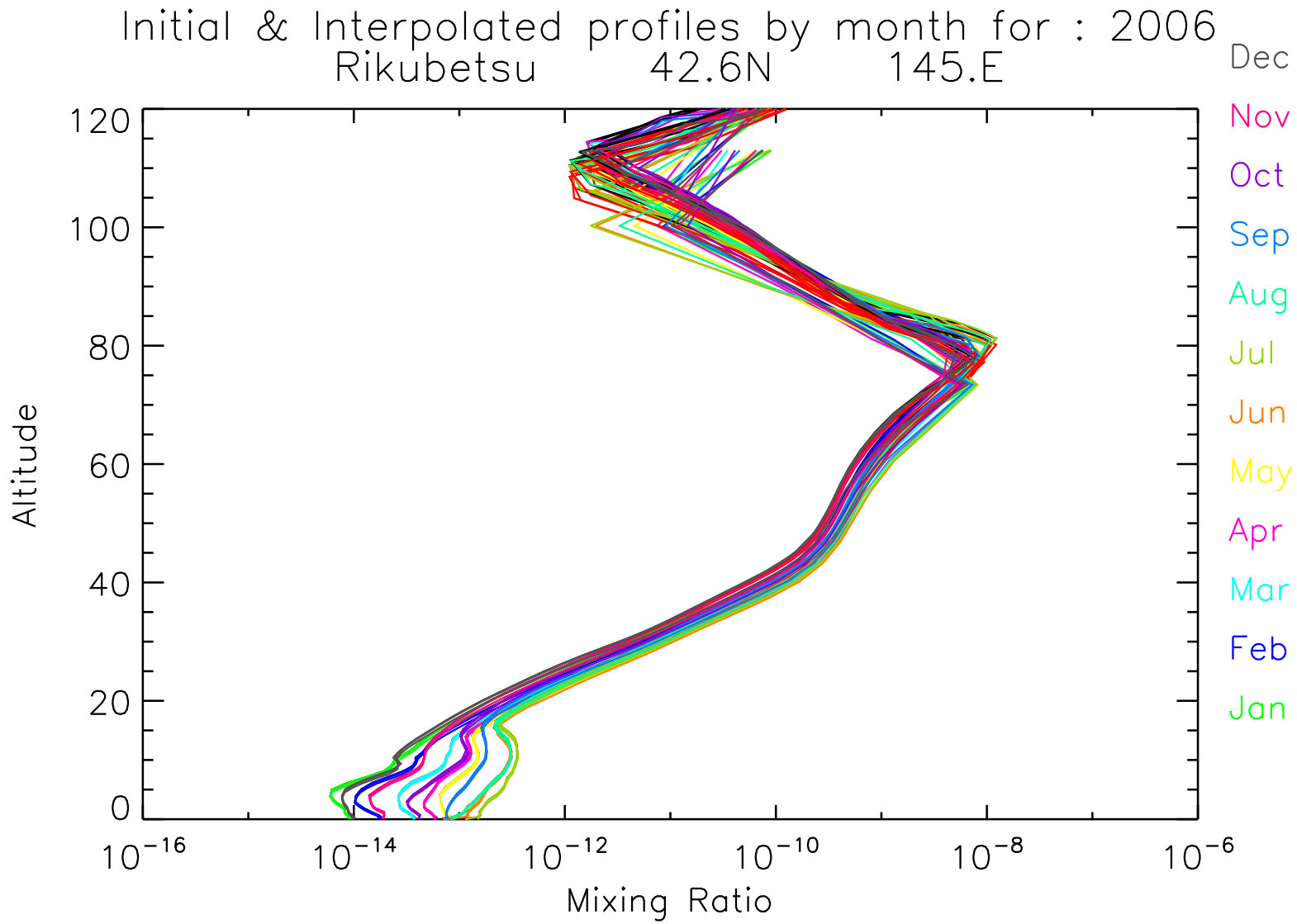
Initial & Interpolated profiles by month for : 2006
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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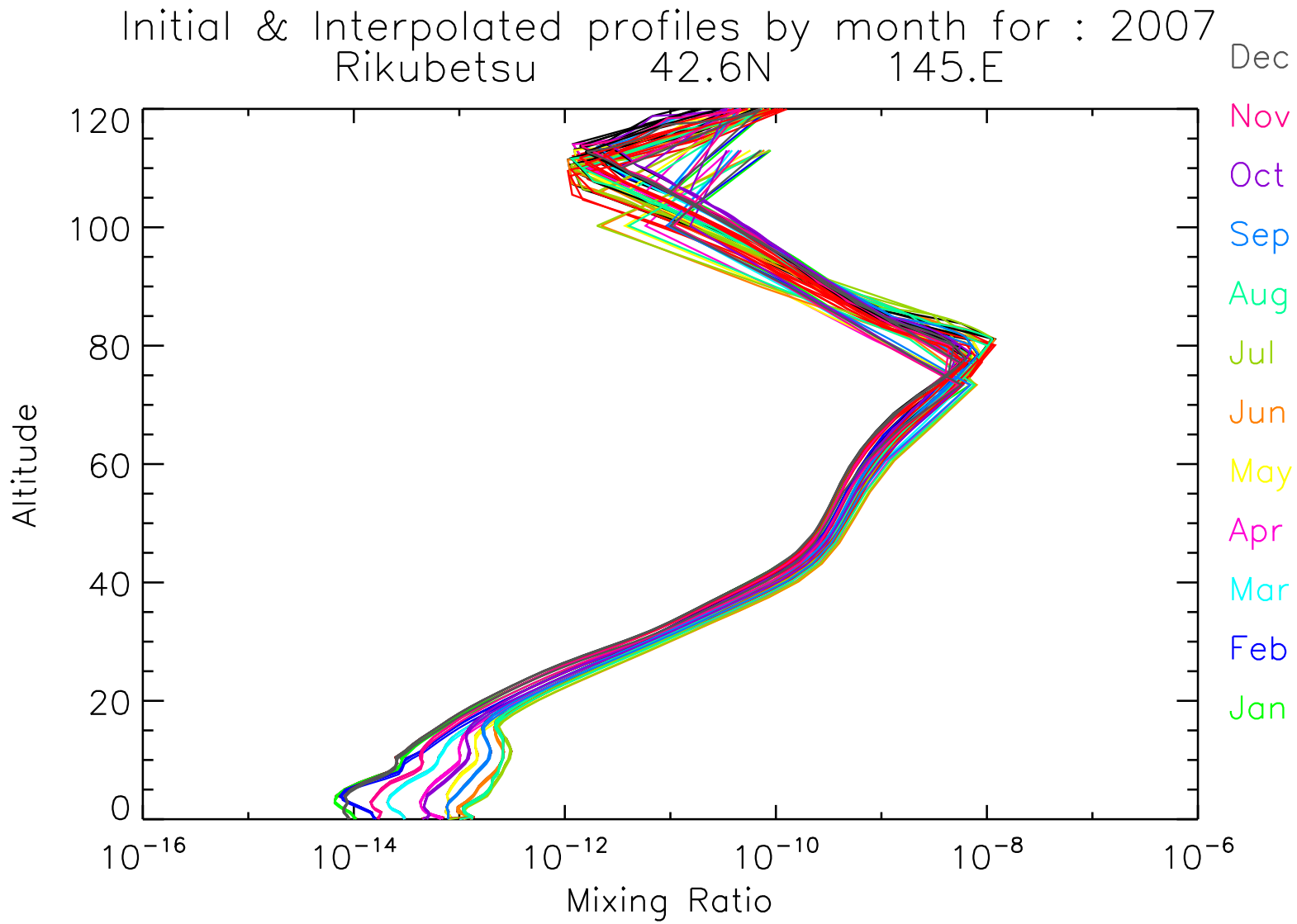
Initial & Interpolated profiles by month for : 2007
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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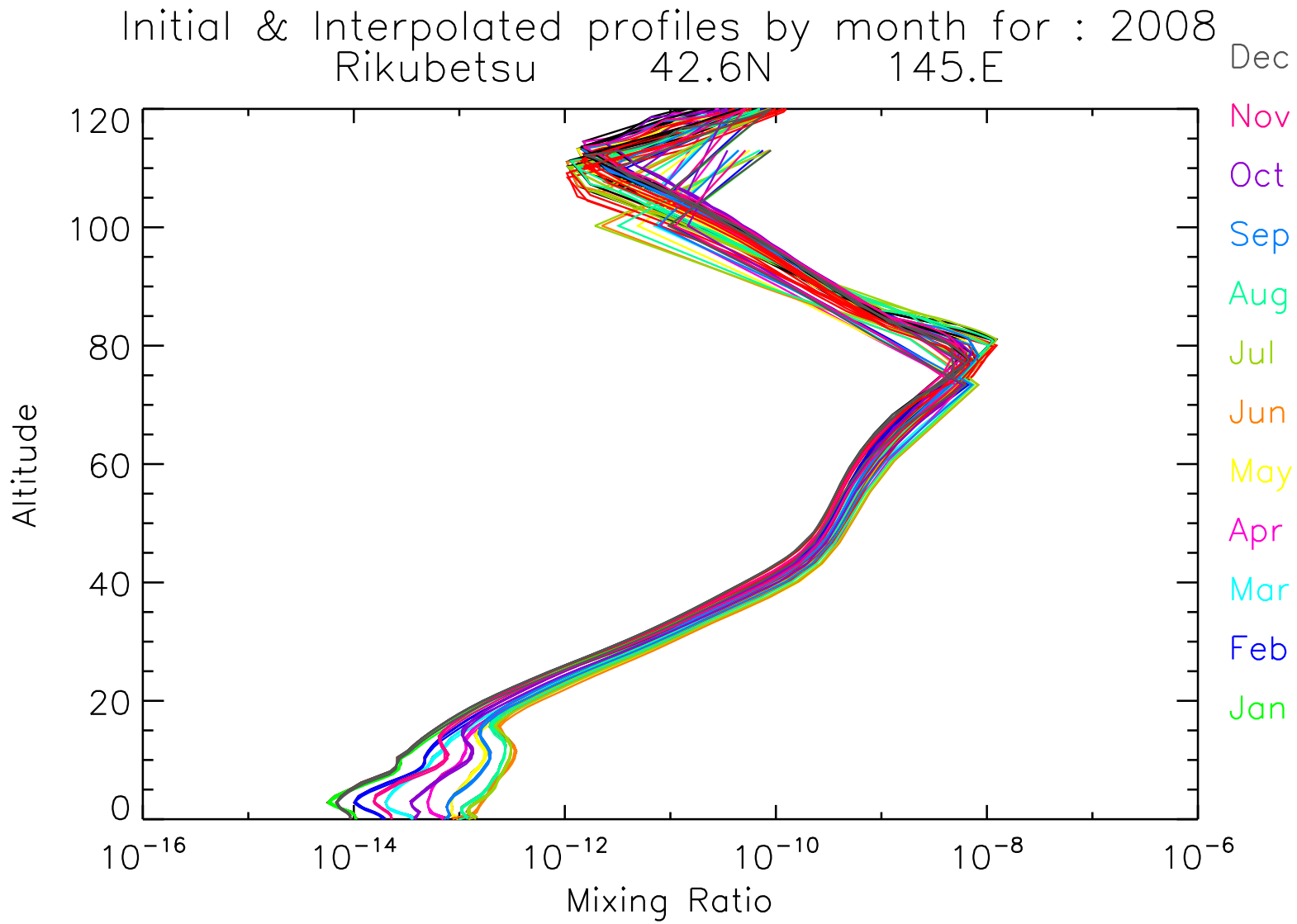
Initial & Interpolated profiles by month for : 2008
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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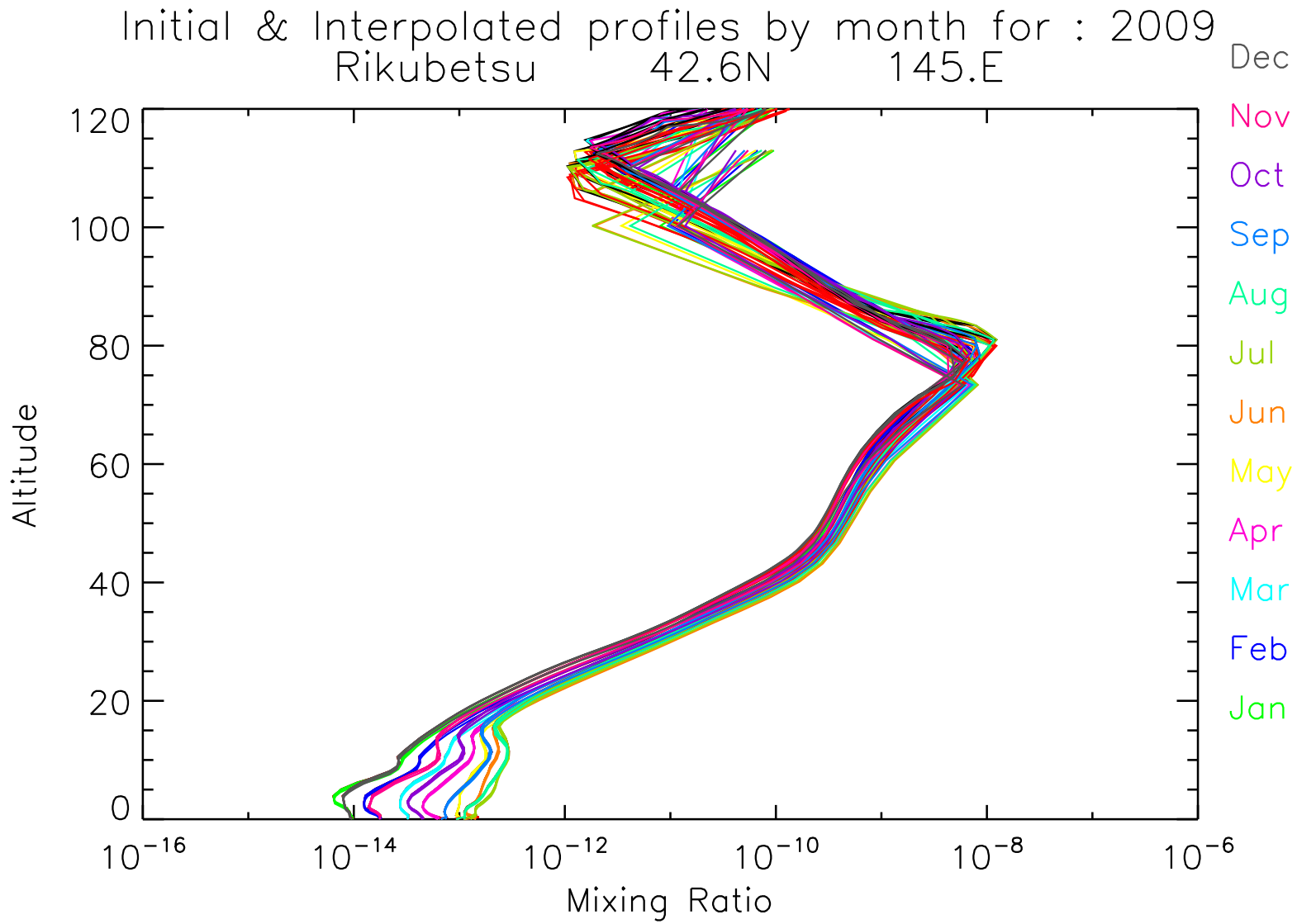
Initial & Interpolated profiles by month for : 2009
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Altitude
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Mixing Ratio
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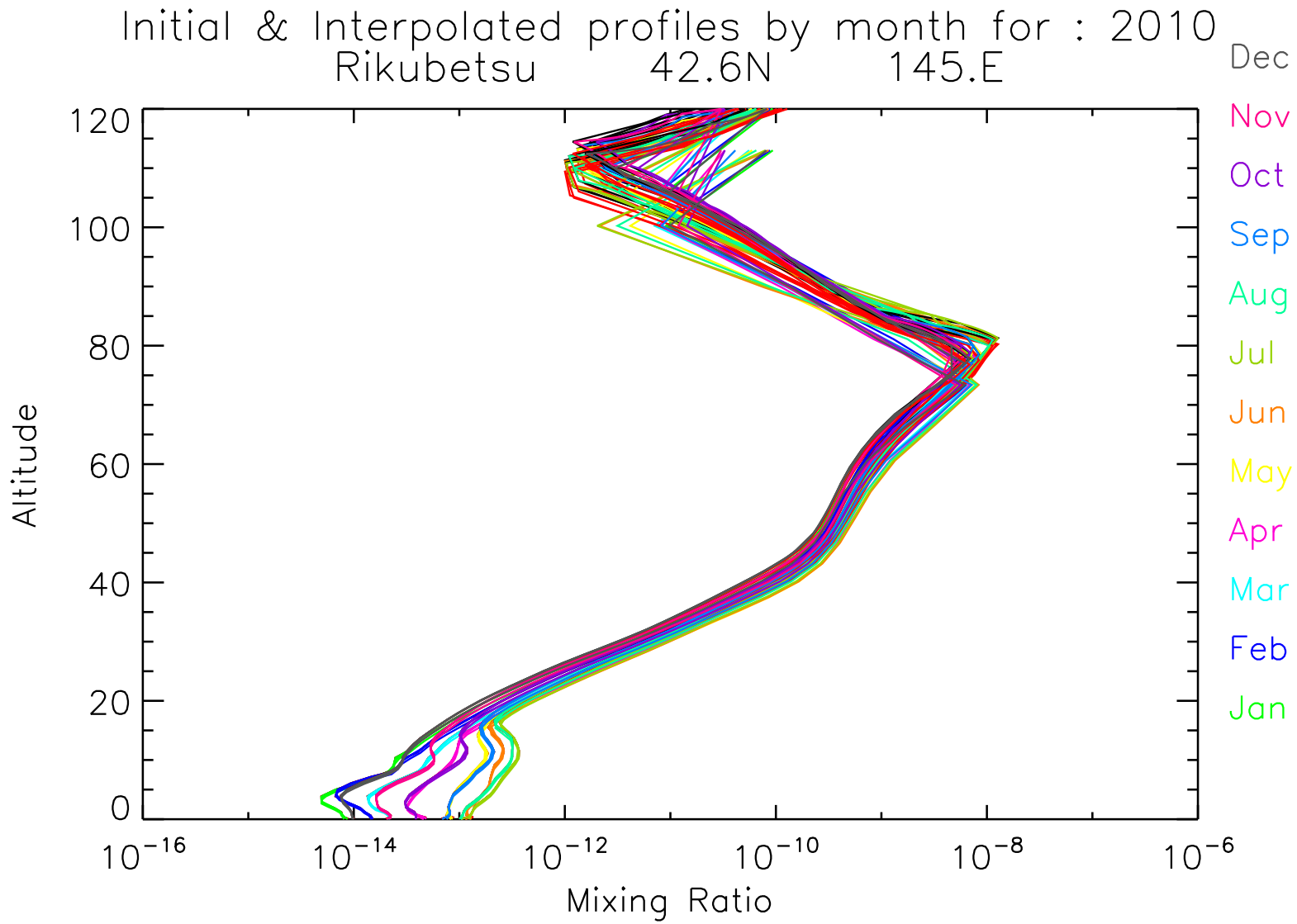
Initial & Interpolated profiles by month for : 2010
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Altitude
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Mixing Ratio
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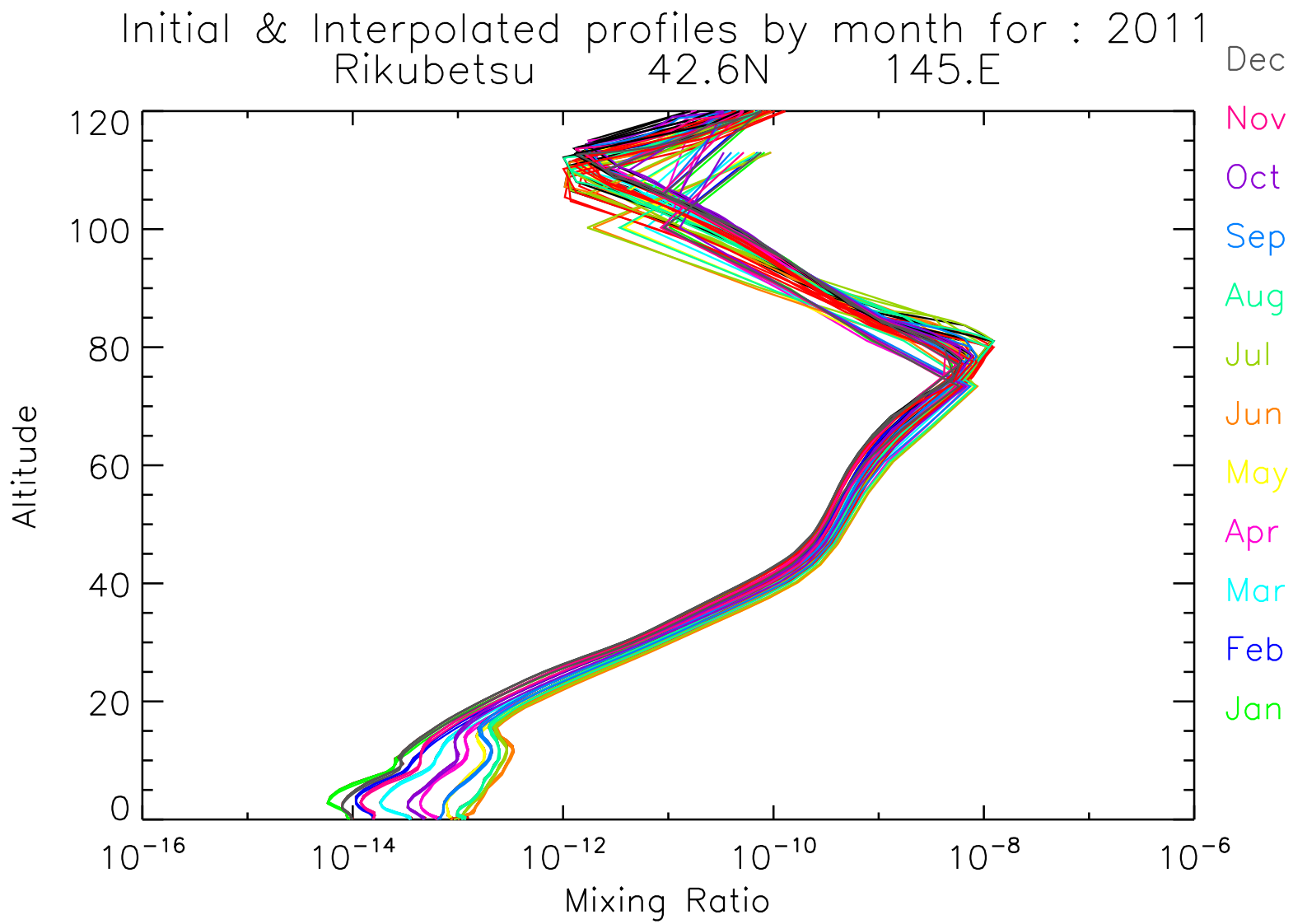
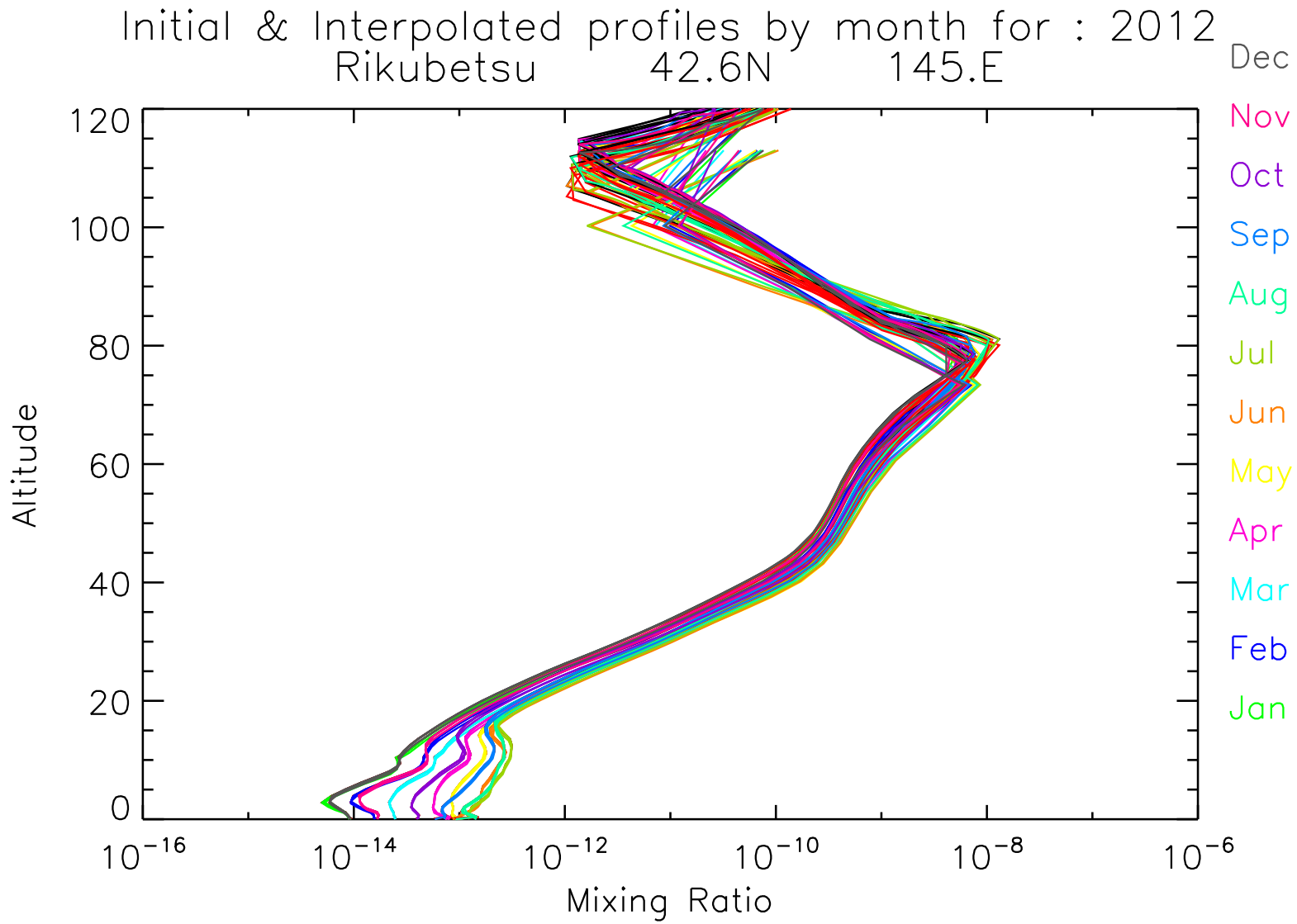
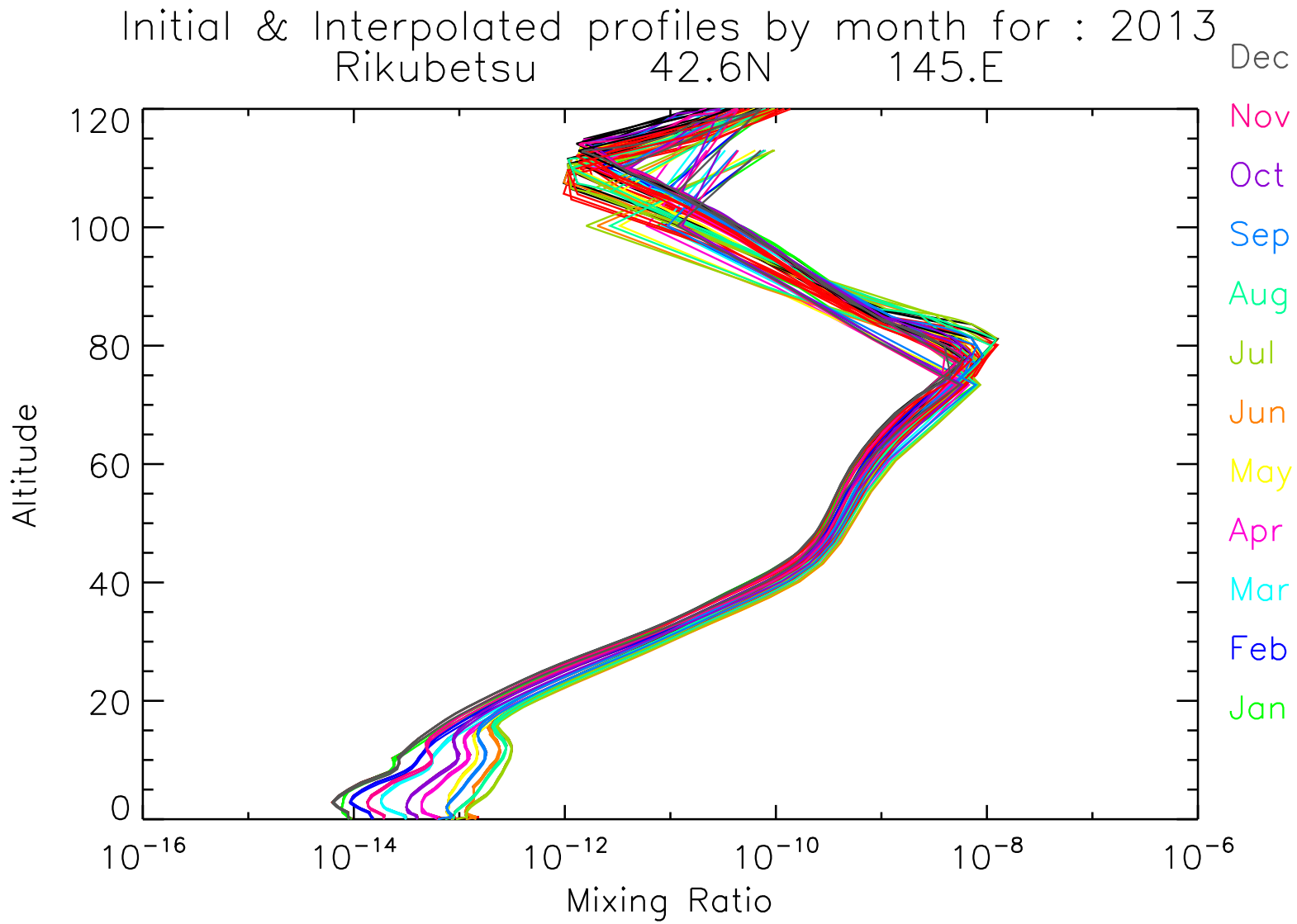
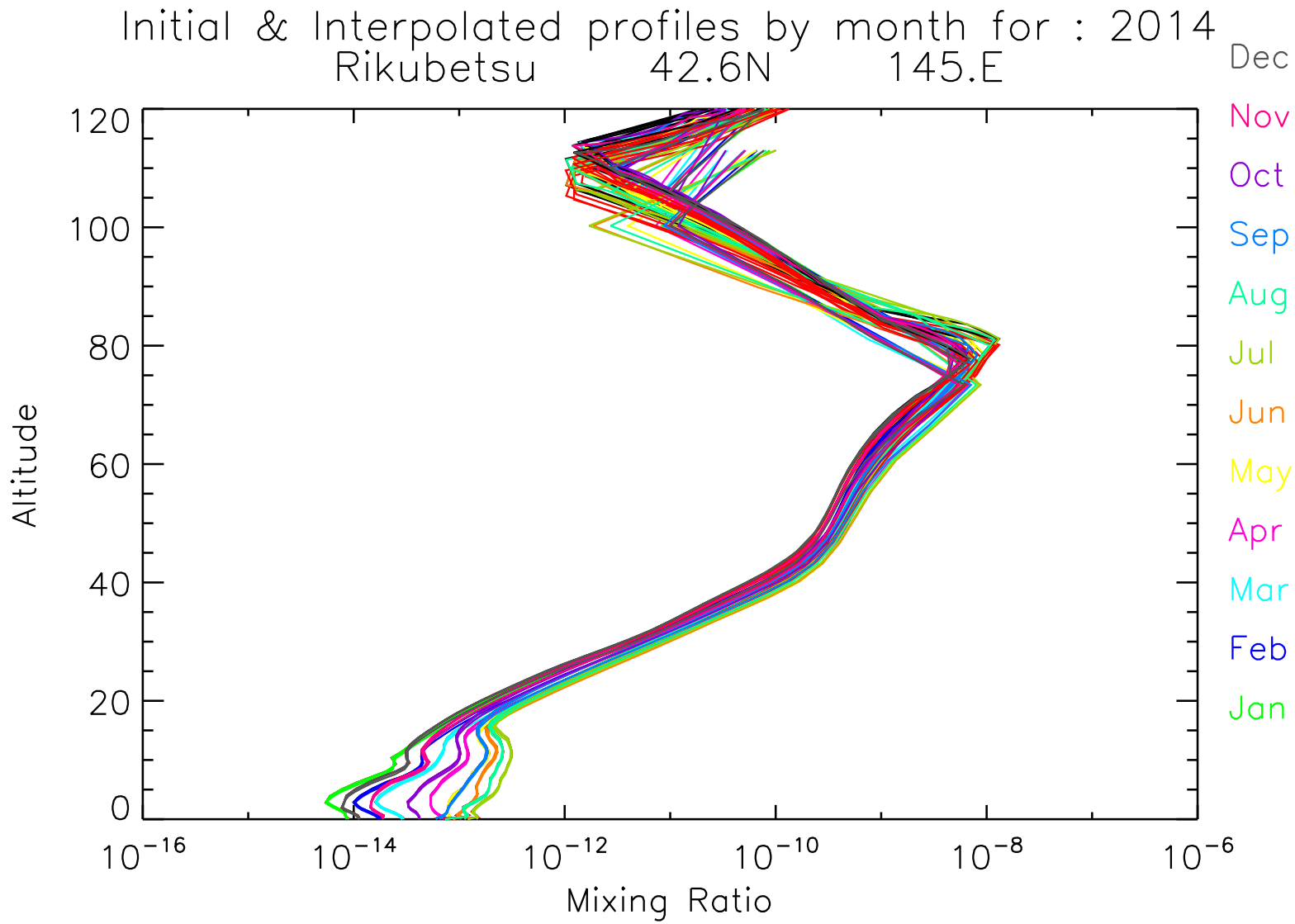
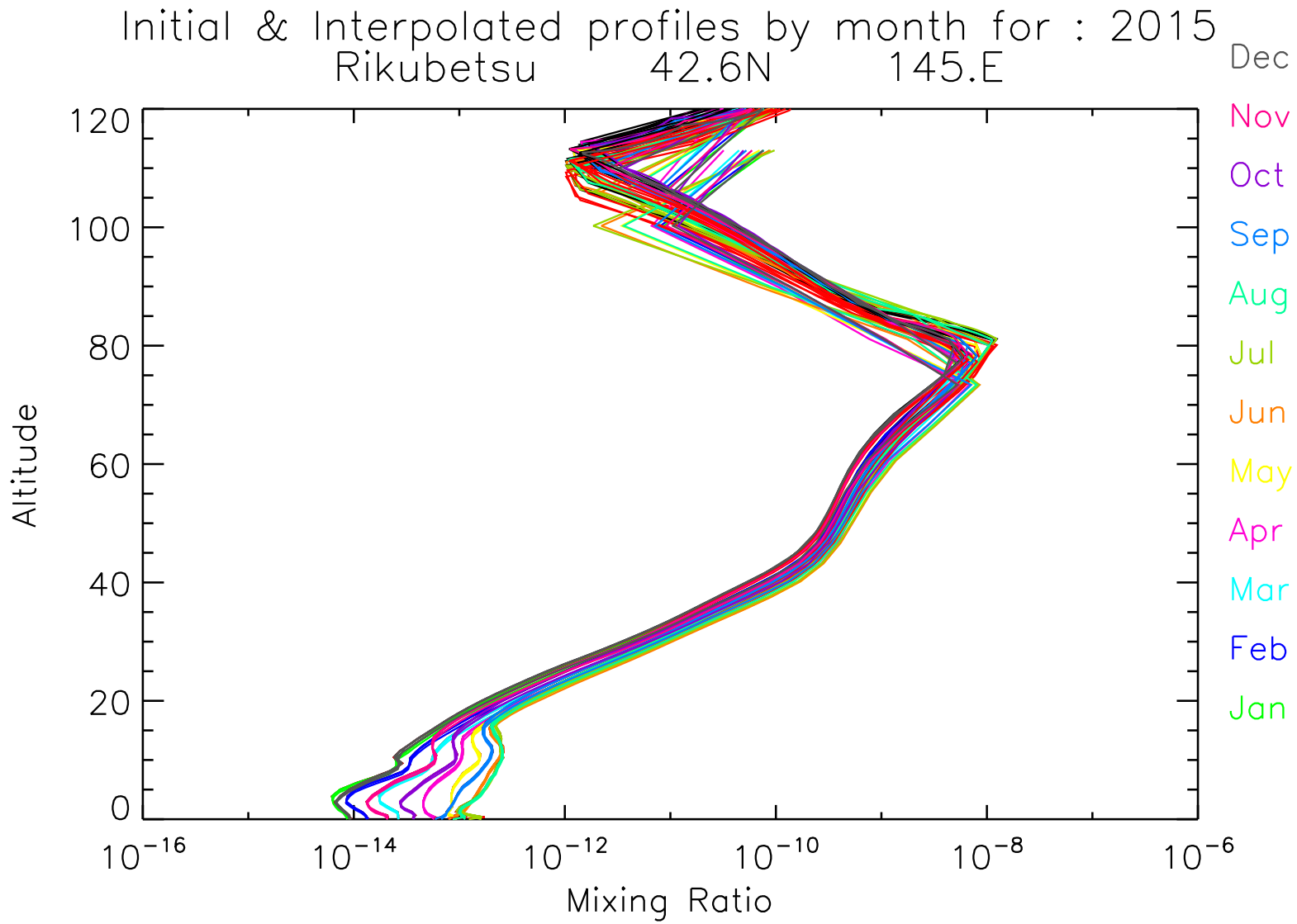
Feb
Jan

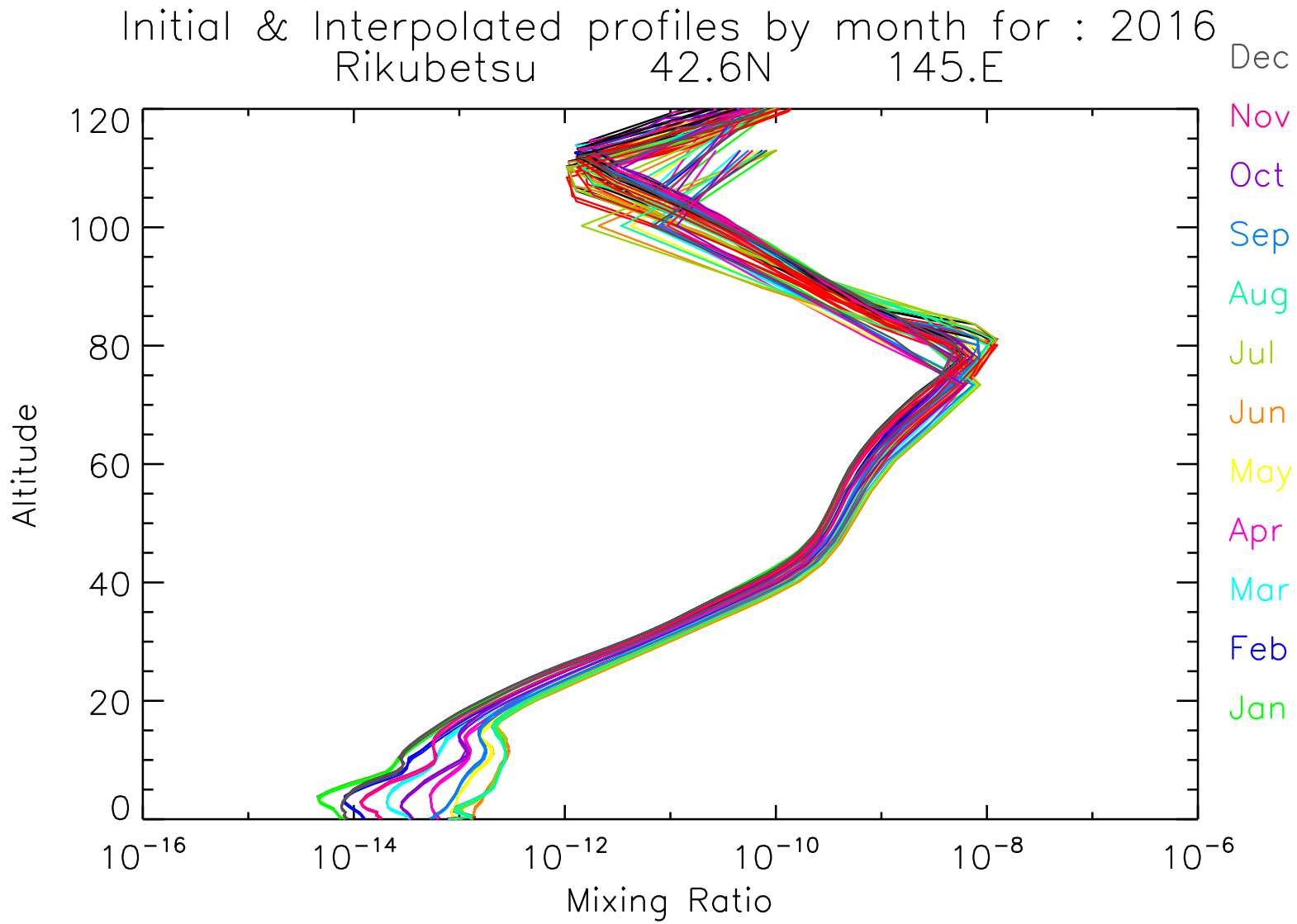

Initial & Interpolated profiles by month for : 2011
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

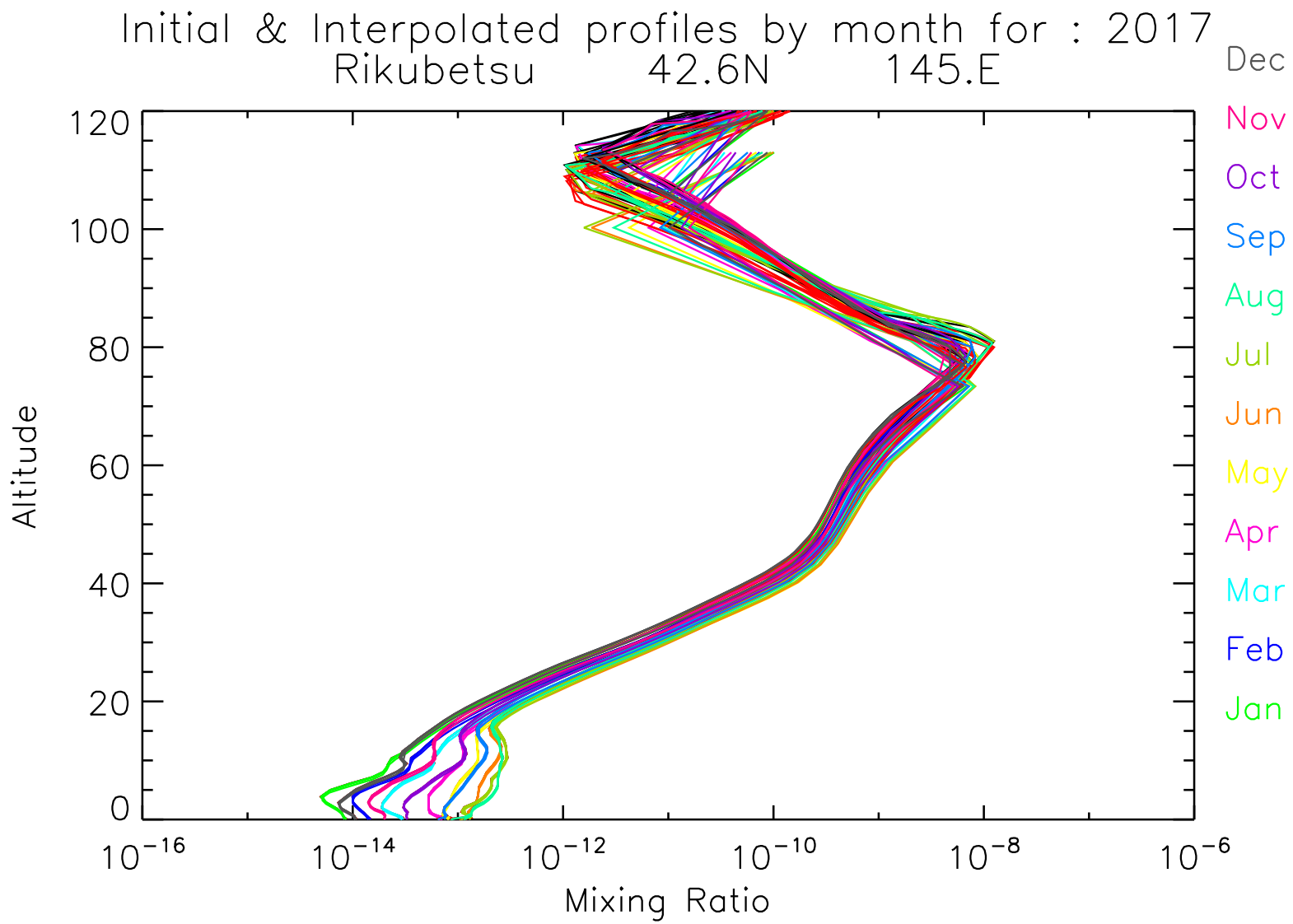

Initial & Interpolated profiles by month for : 2012
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

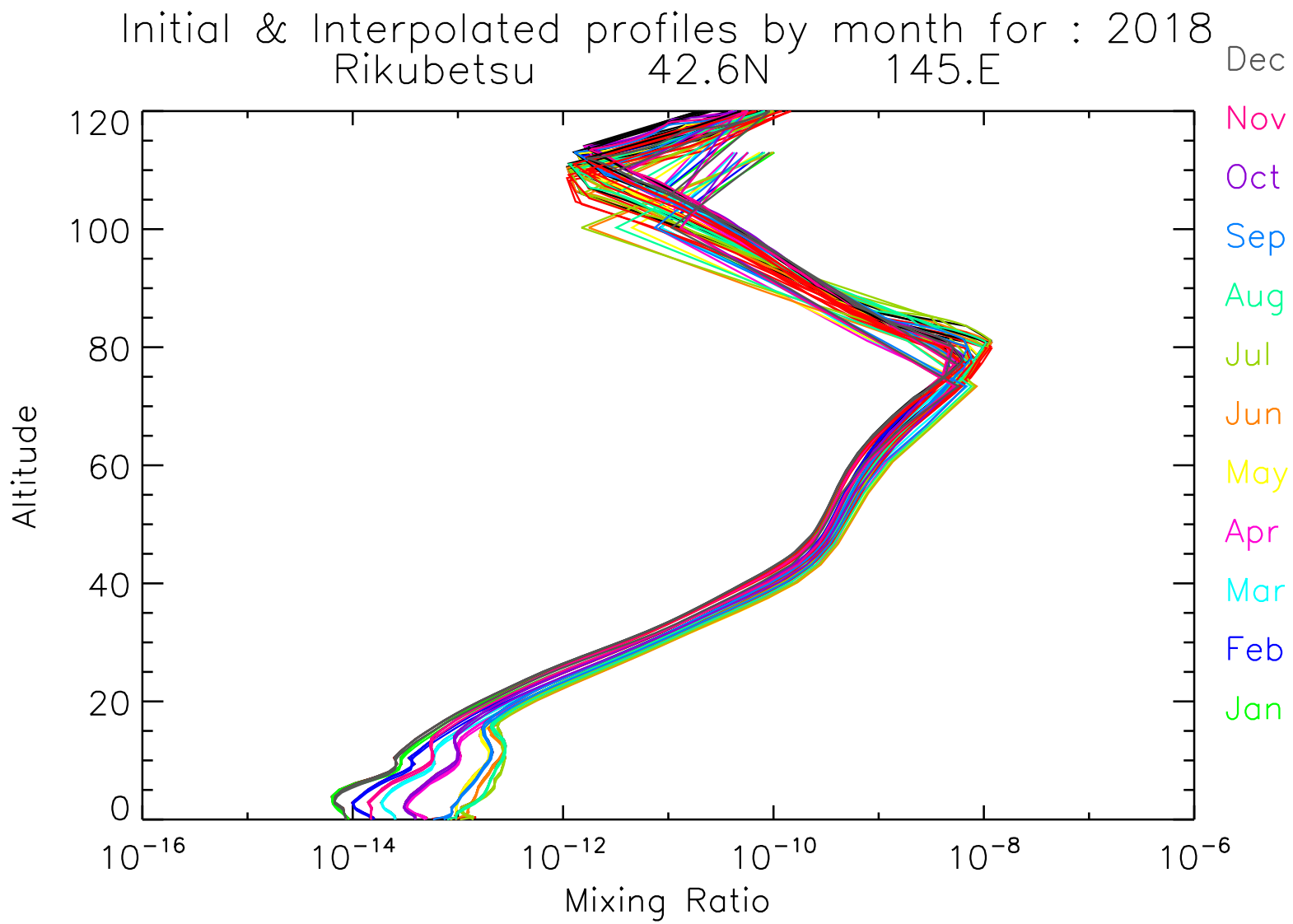

Initial & Interpolated profiles by month for : 2013
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

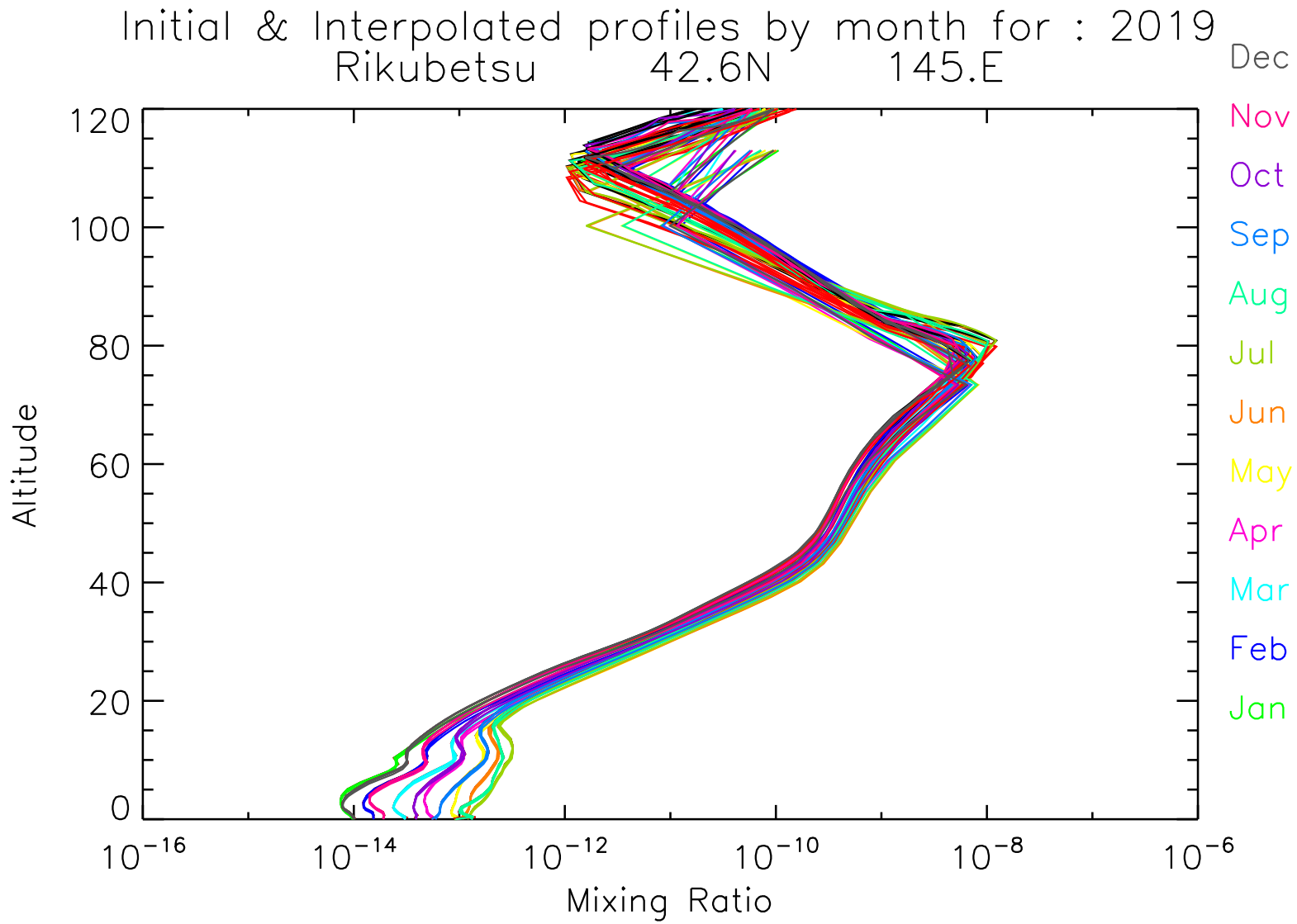

Initial & Interpolated profiles by month for : 2014
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

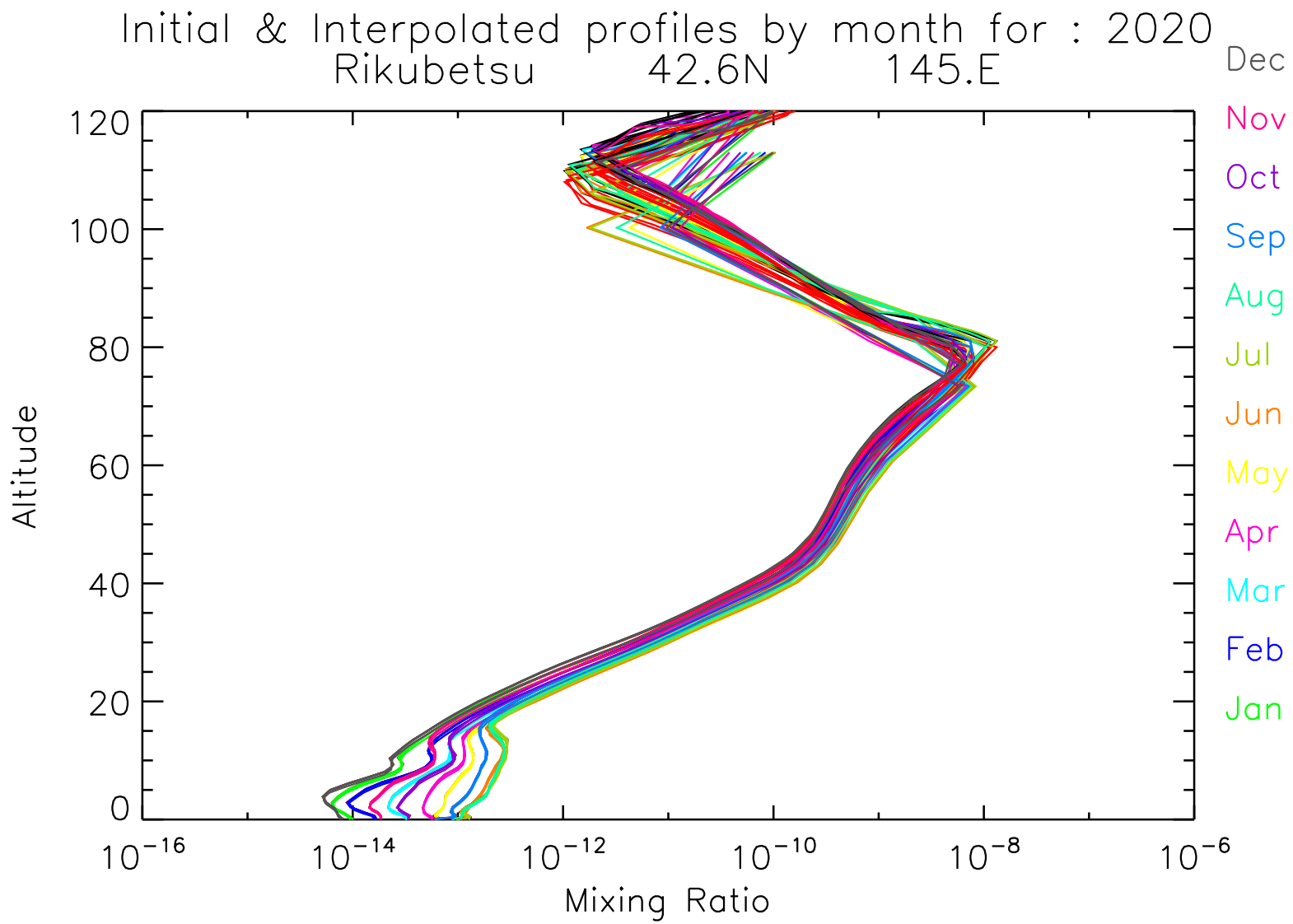

Initial & Interpolated profiles by month for : 2015
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

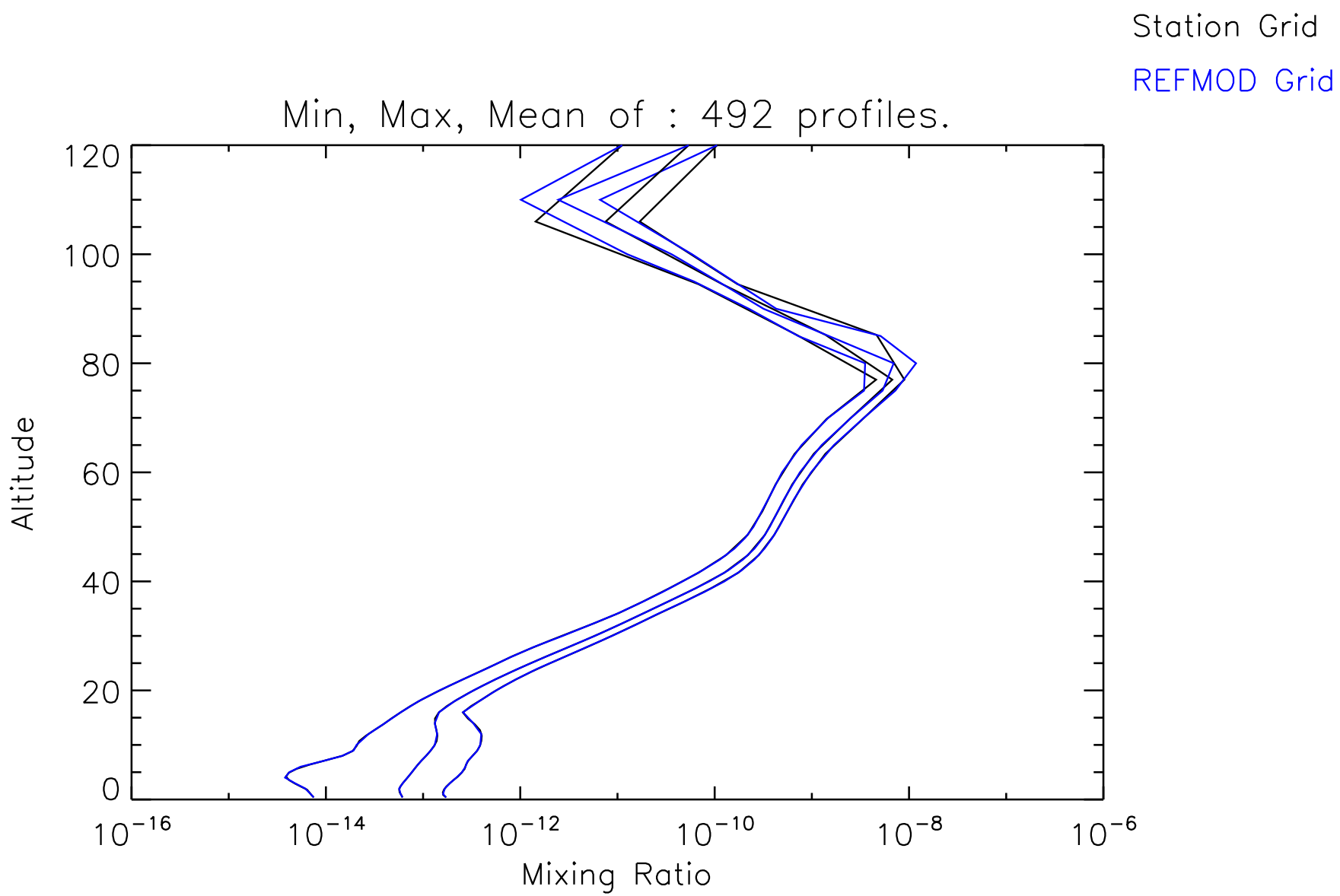

Initial & Interpolated profiles by month for : 2016
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

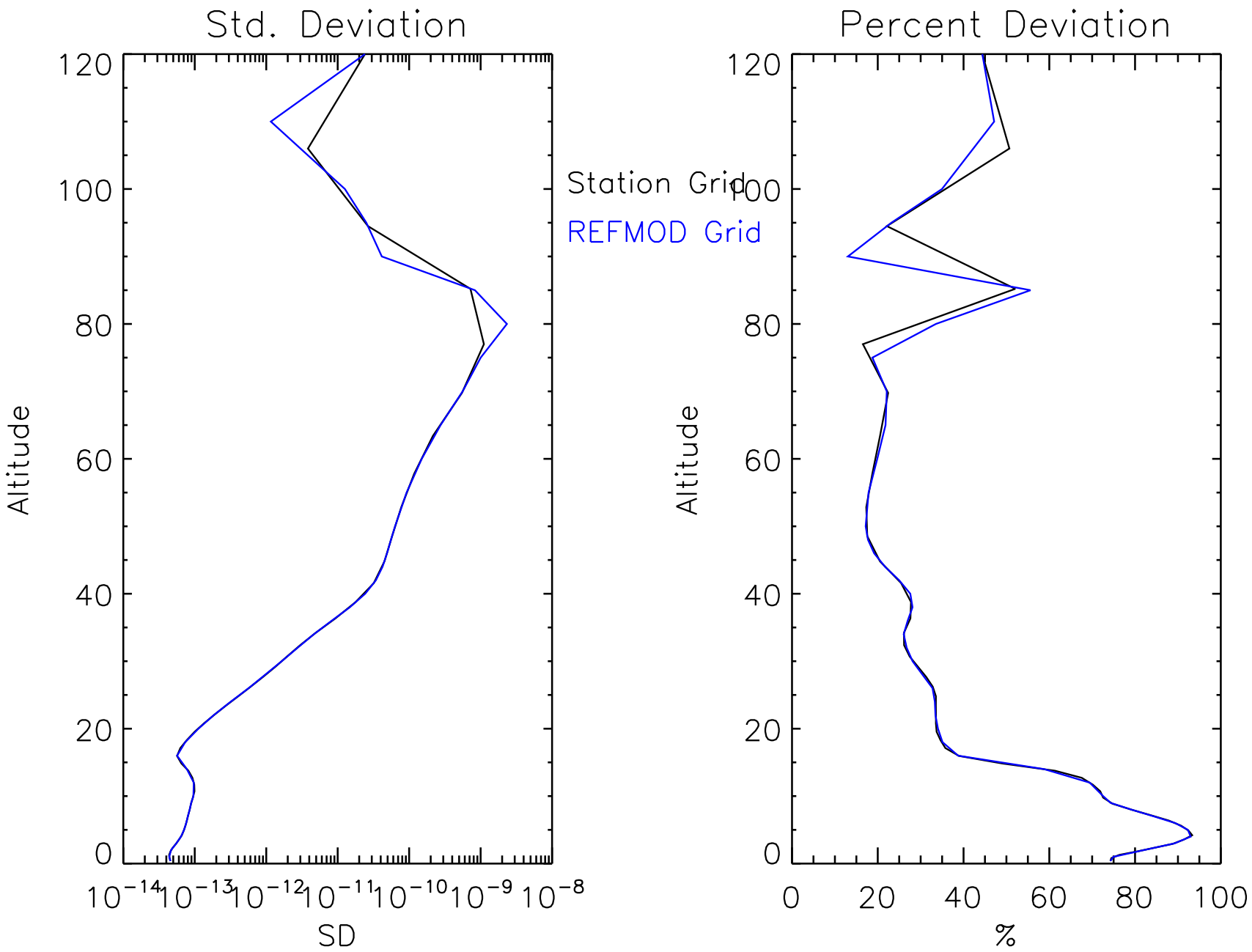

Initial & Interpolated profiles by month for : 2017
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

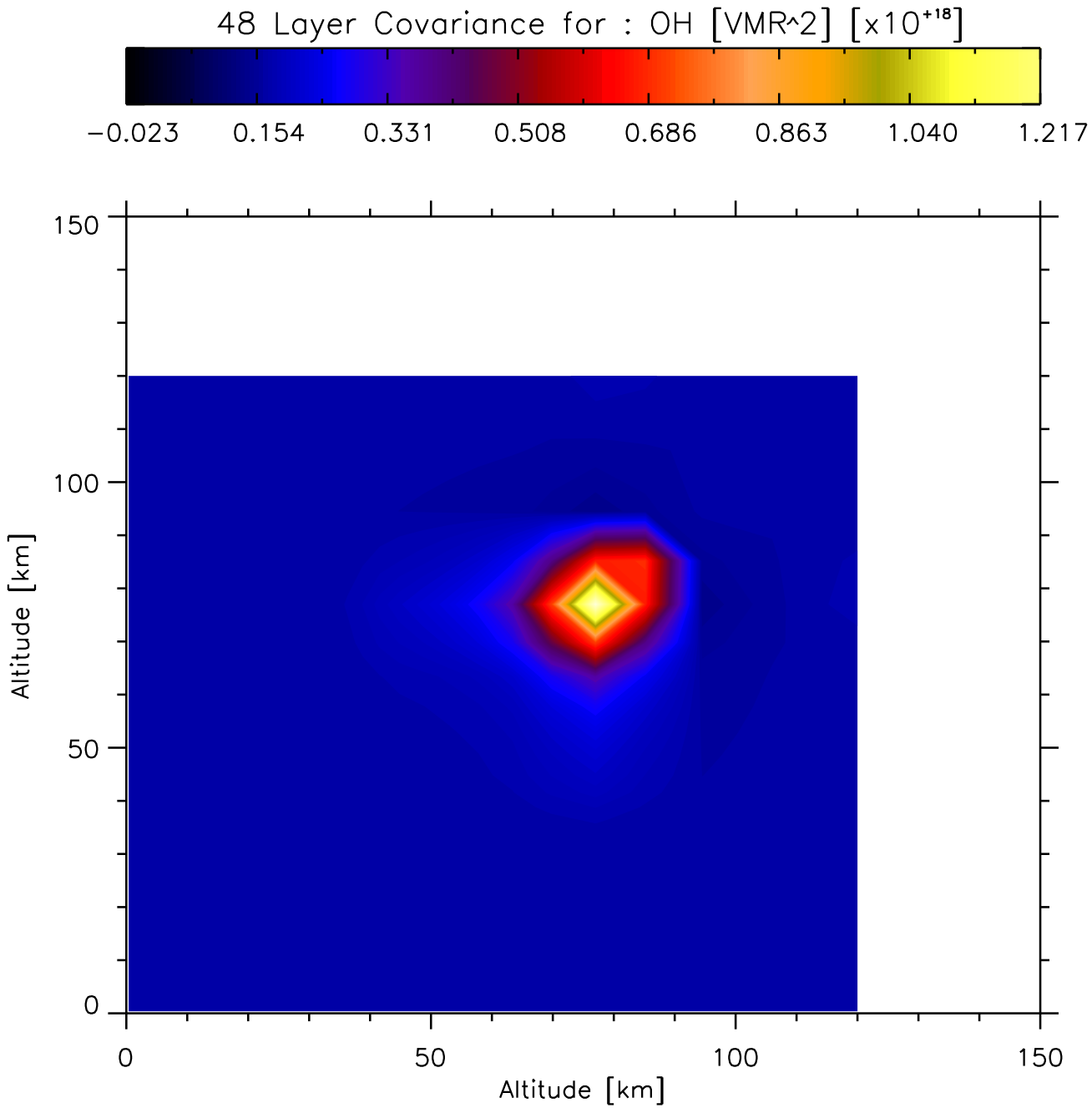

Initial & Interpolated profiles by month for : 2018
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2019
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

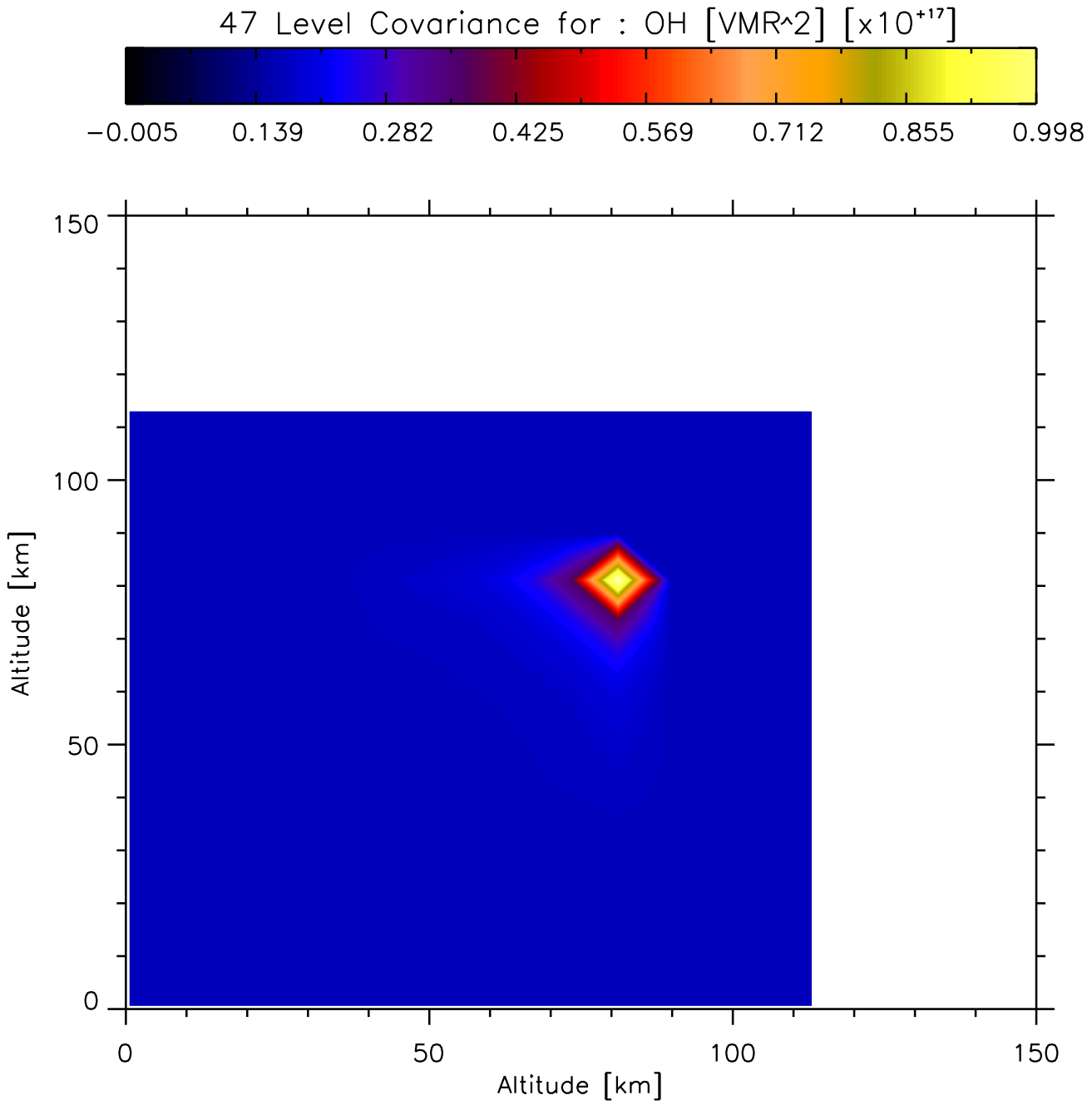

Initial & Interpolated profiles by month for : 2020
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-14} 10^{-13} 10^{-12} 10^{-11} 10^{-10} 10^{-9} 10^{-8}
SD
0 20 40 60 80 100
%


48 Layer Covariance for : OH [VMR^2] [x10^+18]
−0.023
0.154
0.331
0.508
0.686
0.863
1.040
1.217
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Layer Covariance for : OH [VMR^2] [x10^+18]
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
30
60
90
120
X Altitude
0
50
100
150


47 Level Covariance for : OH [VMR^2] [x10^+17]
−0.005
0.139
0.282
0.425
0.569
0.712
0.855
0.998
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Level Covariance for : OH [VMR^2] [x10^+17]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
30
60
90
120
X Altitude
0
50
100
150