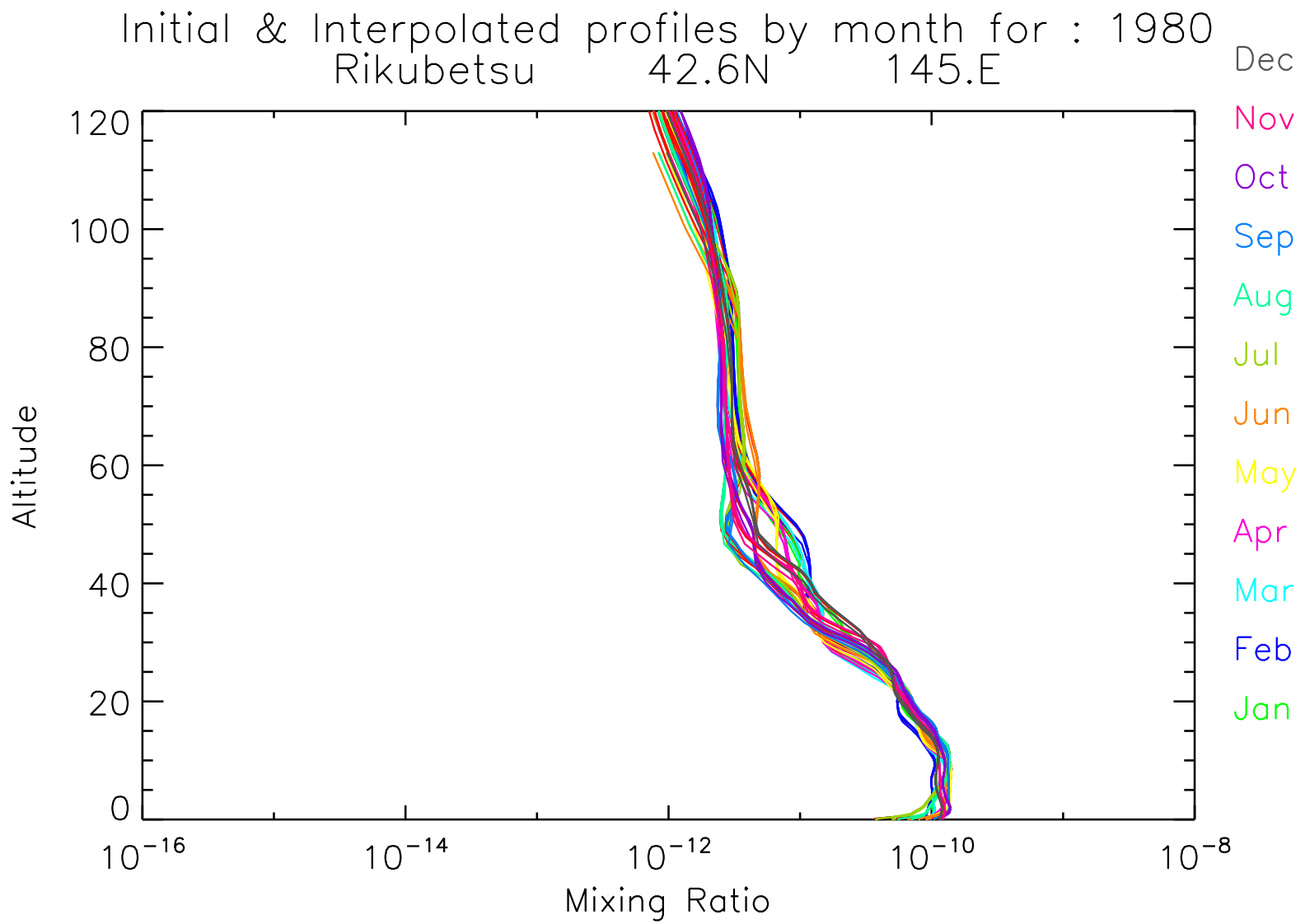
Initial & Interpolated profiles by month for : 1980
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Altitude
120
100
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10^{-16}
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Mixing Ratio
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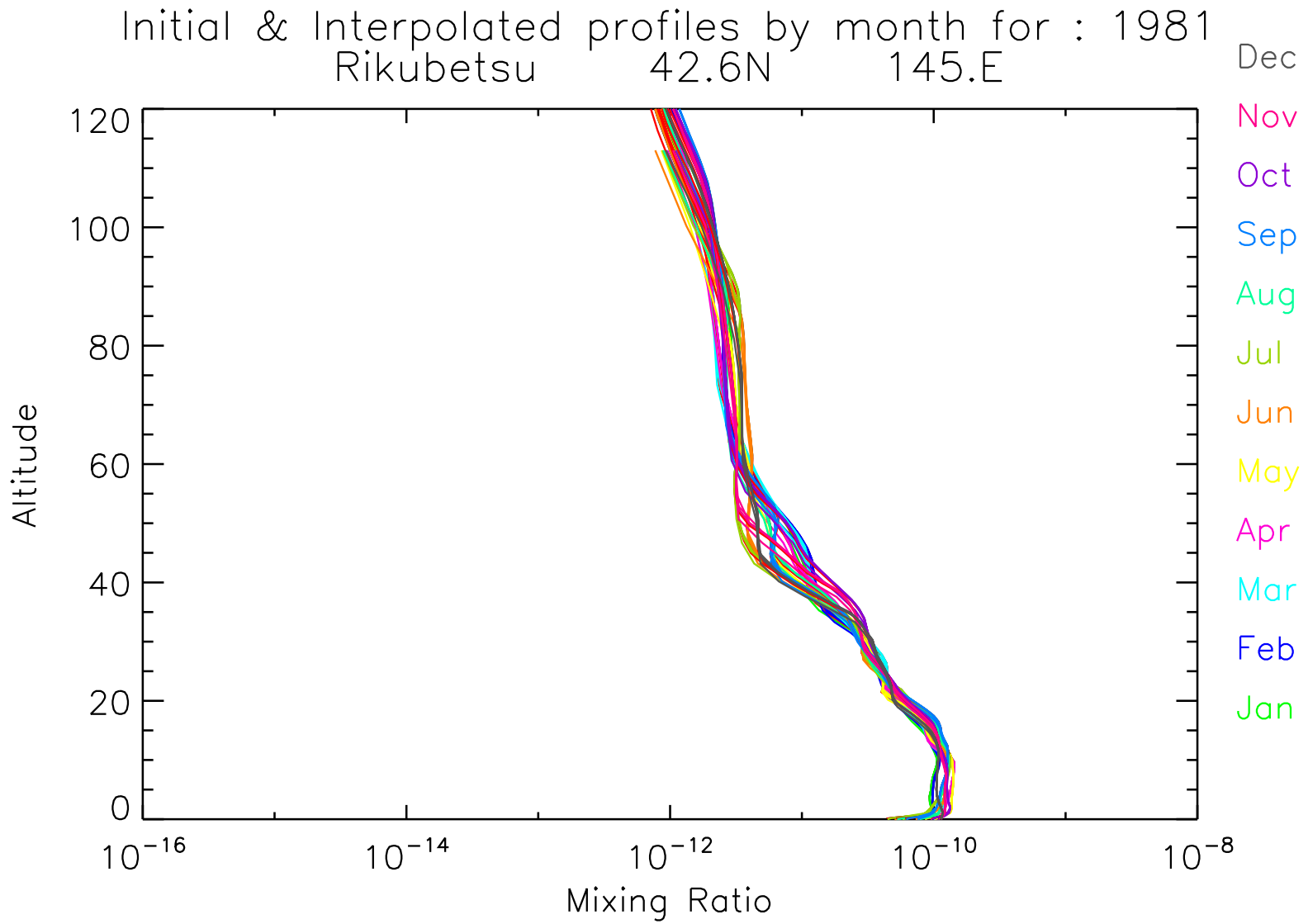
Initial & Interpolated profiles by month for : 1981
Rikubetsu 42.6N 145.E
Altitude
120
100
80
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40
20
0
10^{-16}
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Mixing Ratio
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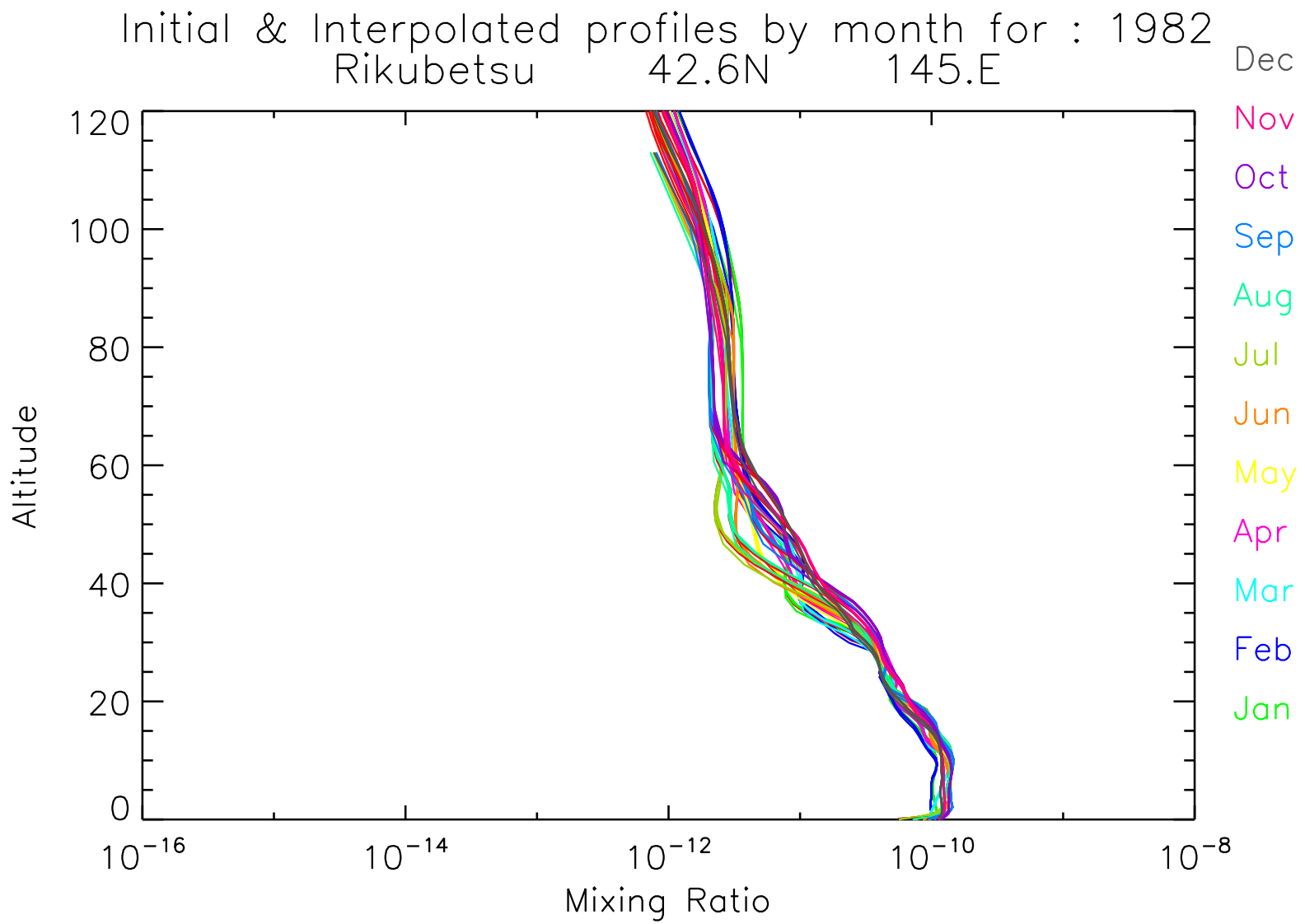
Initial & Interpolated profiles by month for : 1982
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Altitude
120
100
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10^{-16}
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Mixing Ratio
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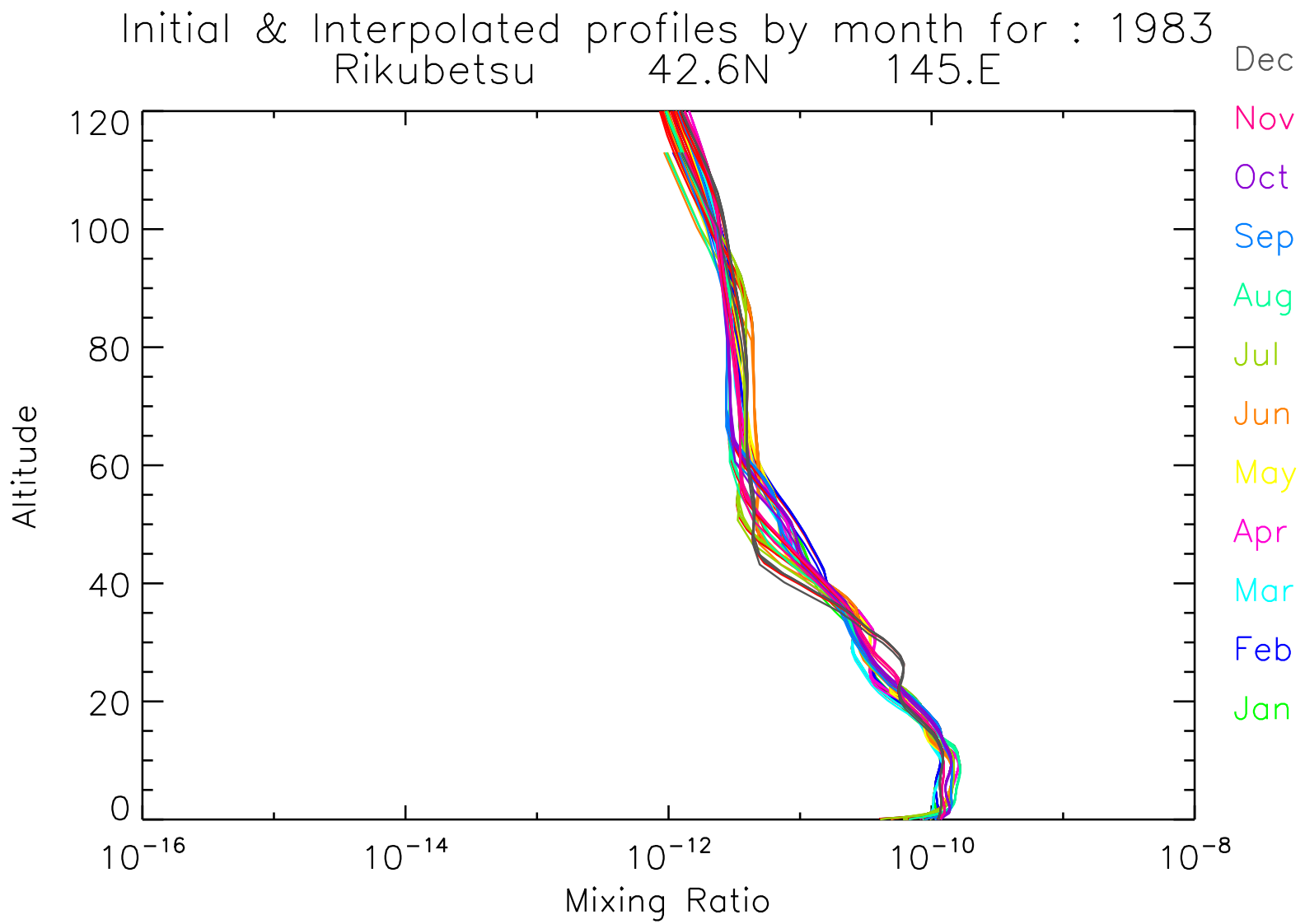
Initial & Interpolated profiles by month for : 1983
Rikubetsu 42.6N 145.E
Altitude
120
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Mixing Ratio
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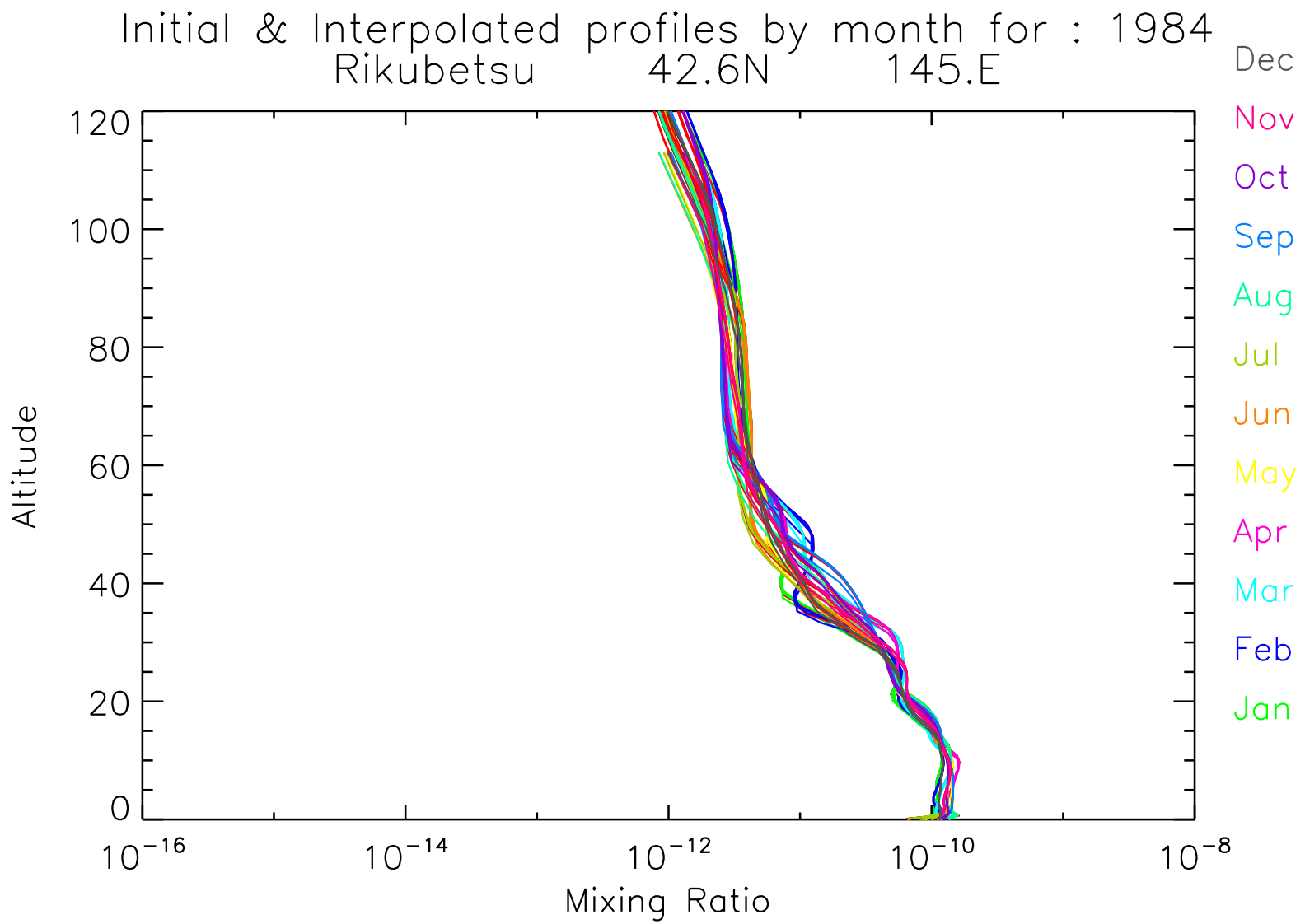
Initial & Interpolated profiles by month for : 1984
Rikubetsu 42.6N 145.E
Dec
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Jan
Altitude
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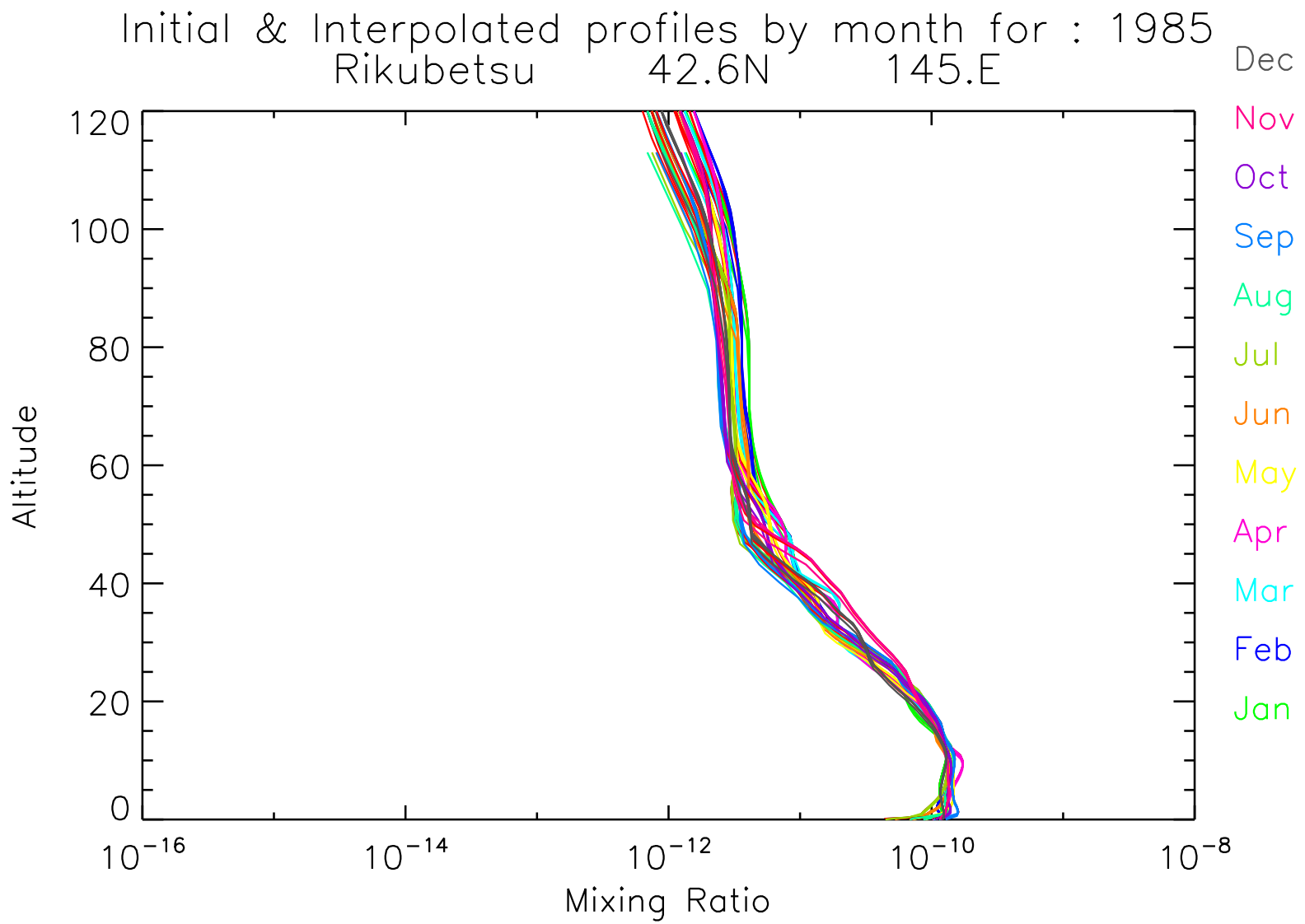
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
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Altitude
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Mixing Ratio
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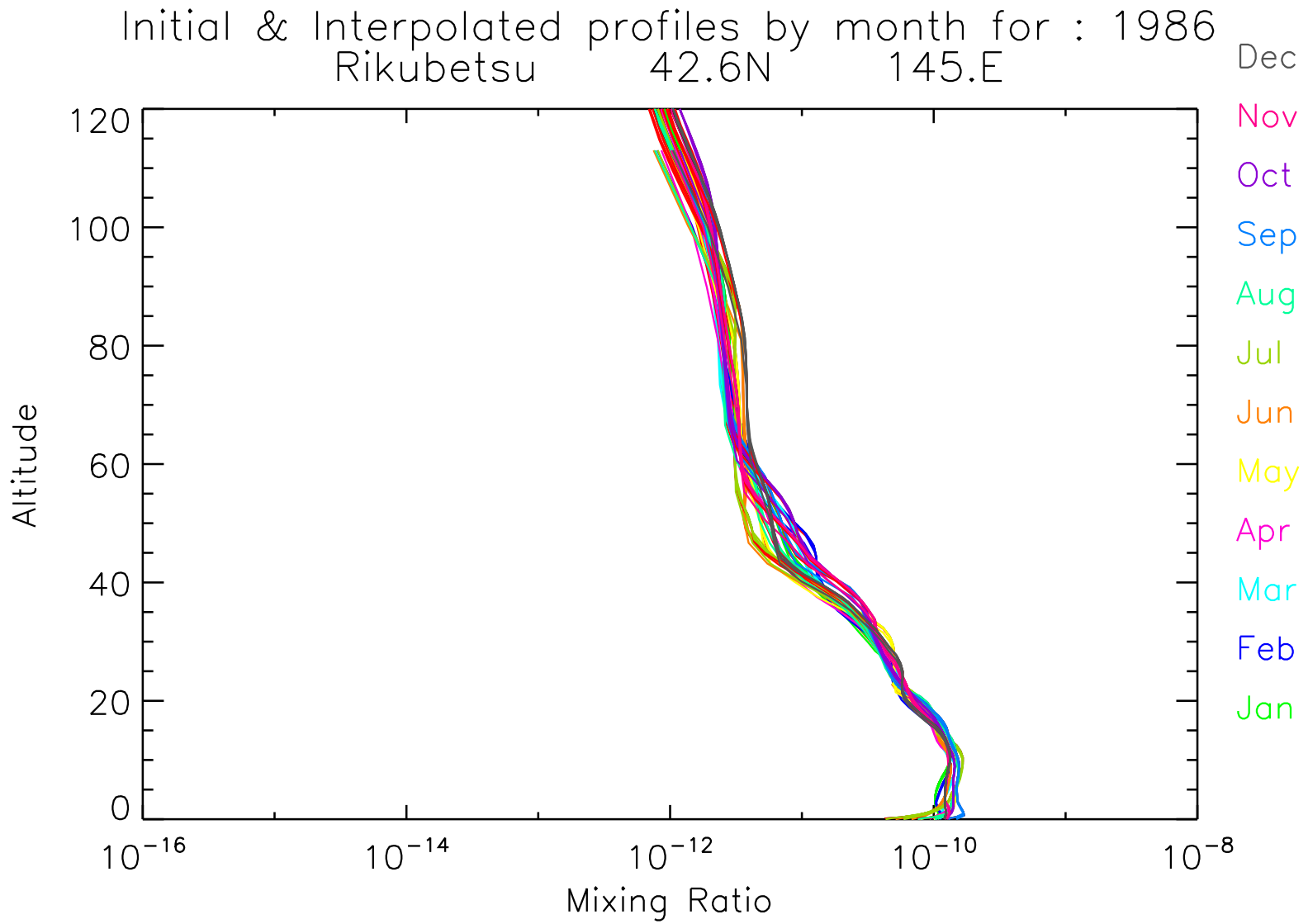
Initial & Interpolated profiles by month for : 1986
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Altitude
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Mixing Ratio
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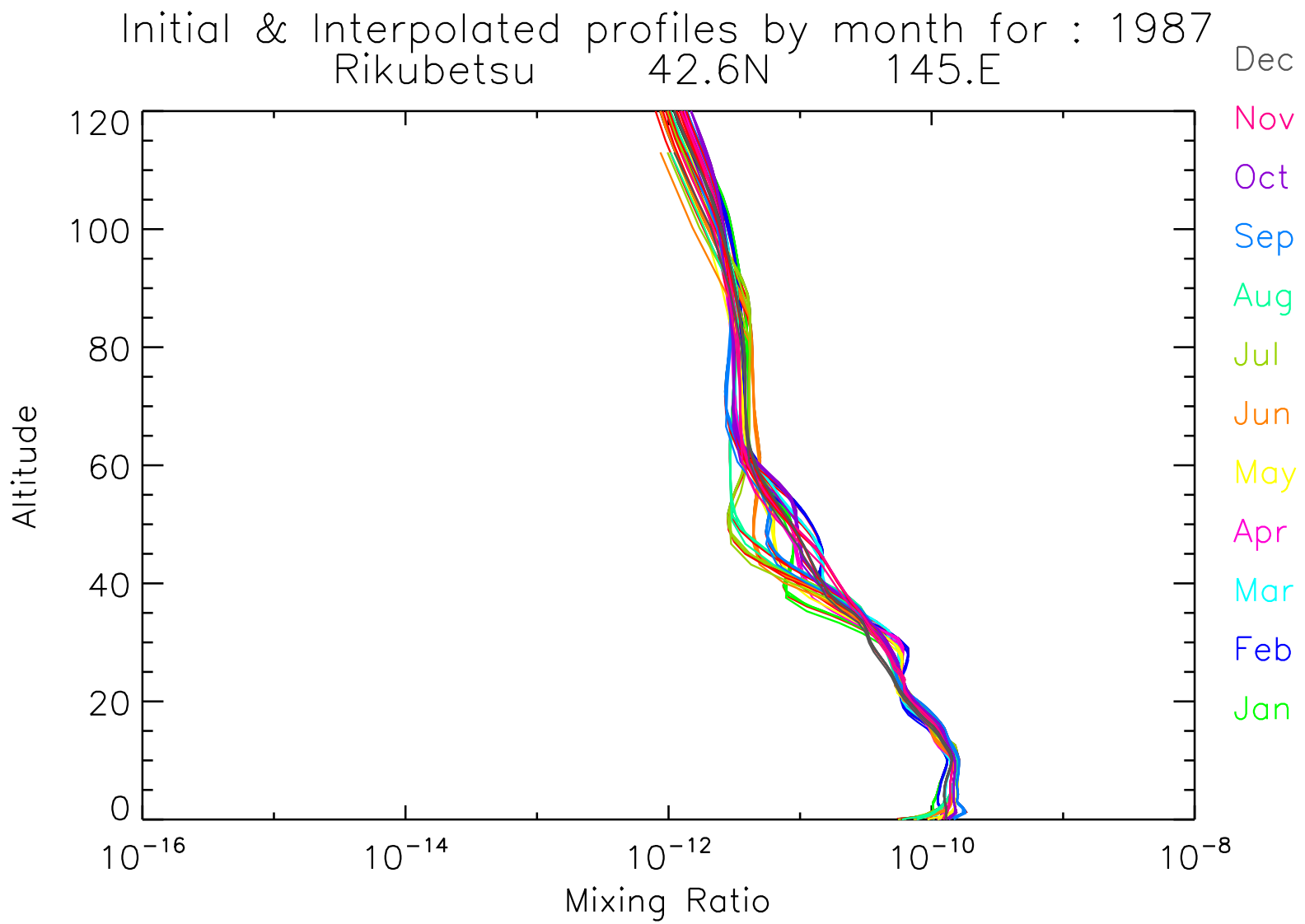
Initial & Interpolated profiles by month for : 1987
Rikubetsu 42.6N 145.E
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10^{-16}
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Mixing Ratio
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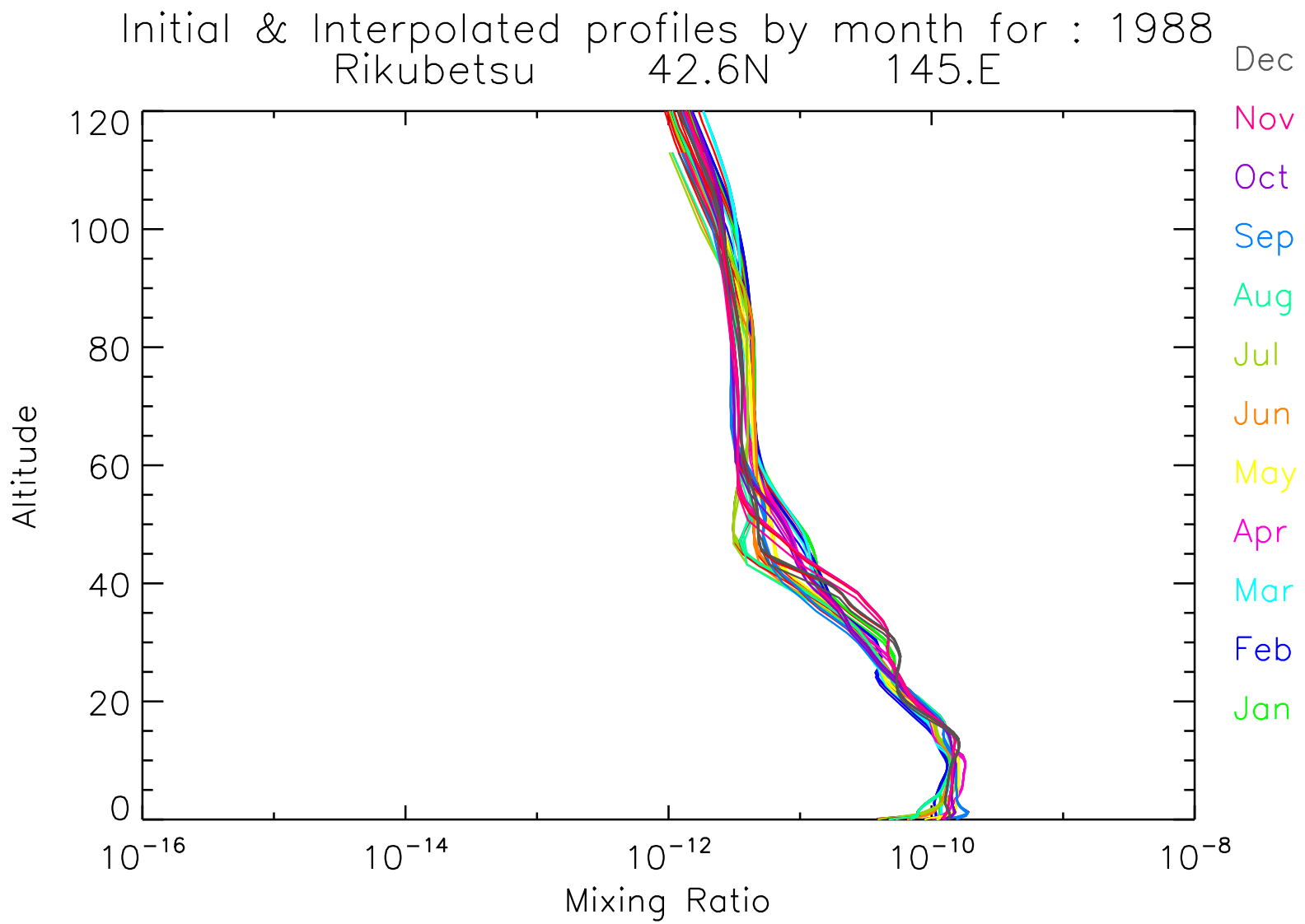
Initial & Interpolated profiles by month for : 1988
Rikubetsu 42.6N 145.E
Altitude
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10^{-16}
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Mixing Ratio
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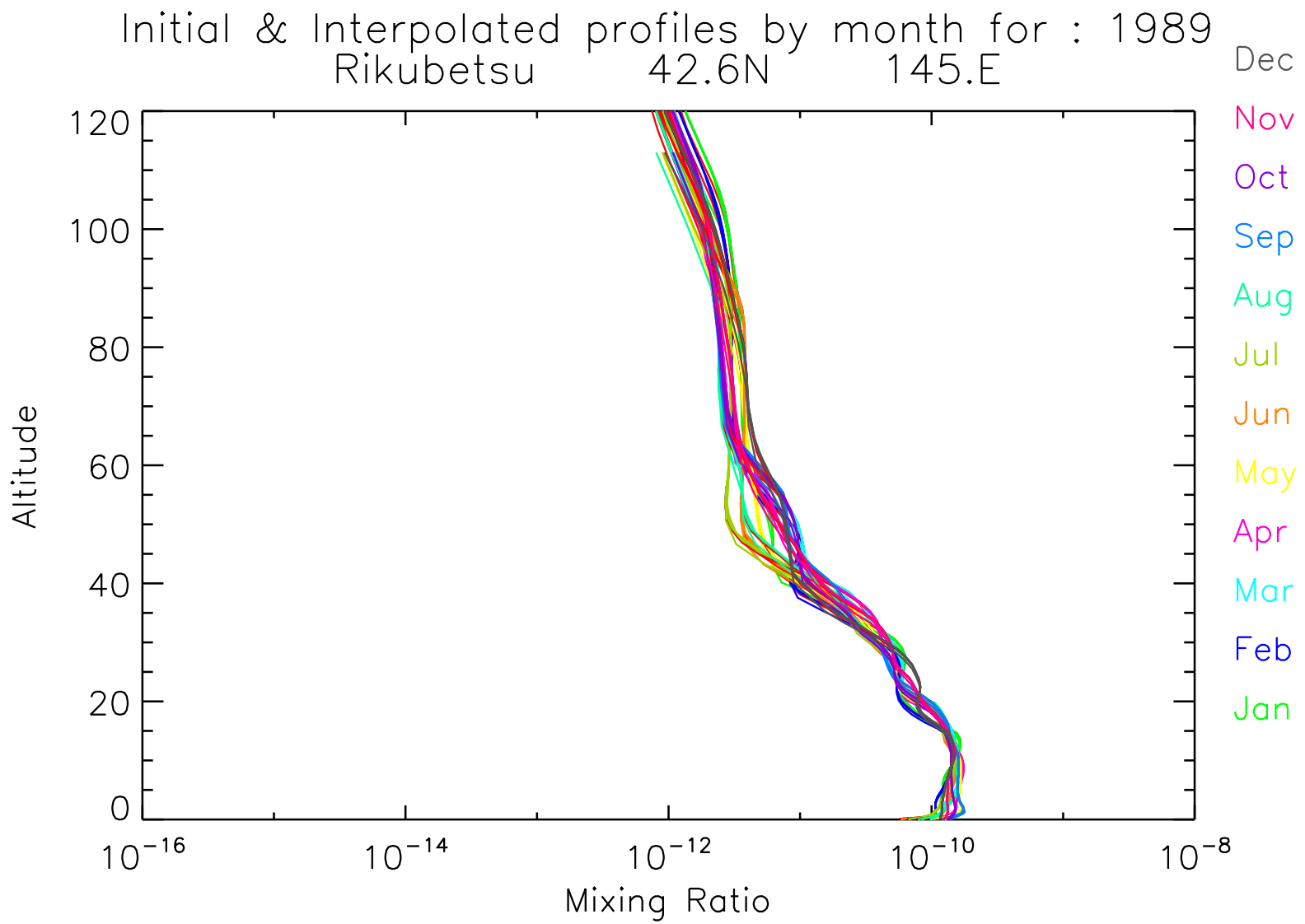
Initial & Interpolated profiles by month for : 1989
Rikubetsu 42.6N 145.E
Altitude
120
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Mixing Ratio
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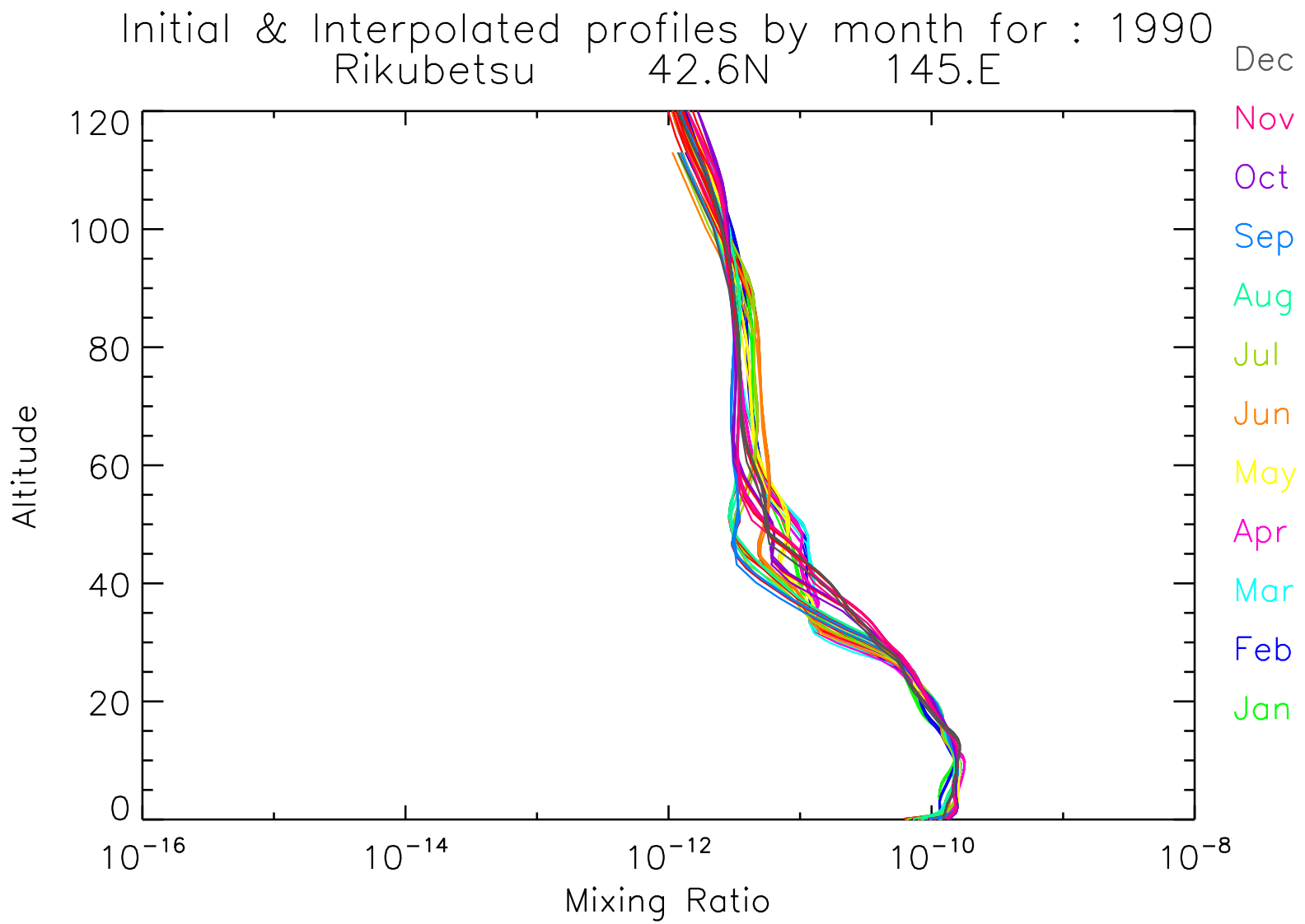
Initial & Interpolated profiles by month for : 1990
Rikubetsu 42.6N 145.E
Altitude
120
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10^{-16}
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Mixing Ratio
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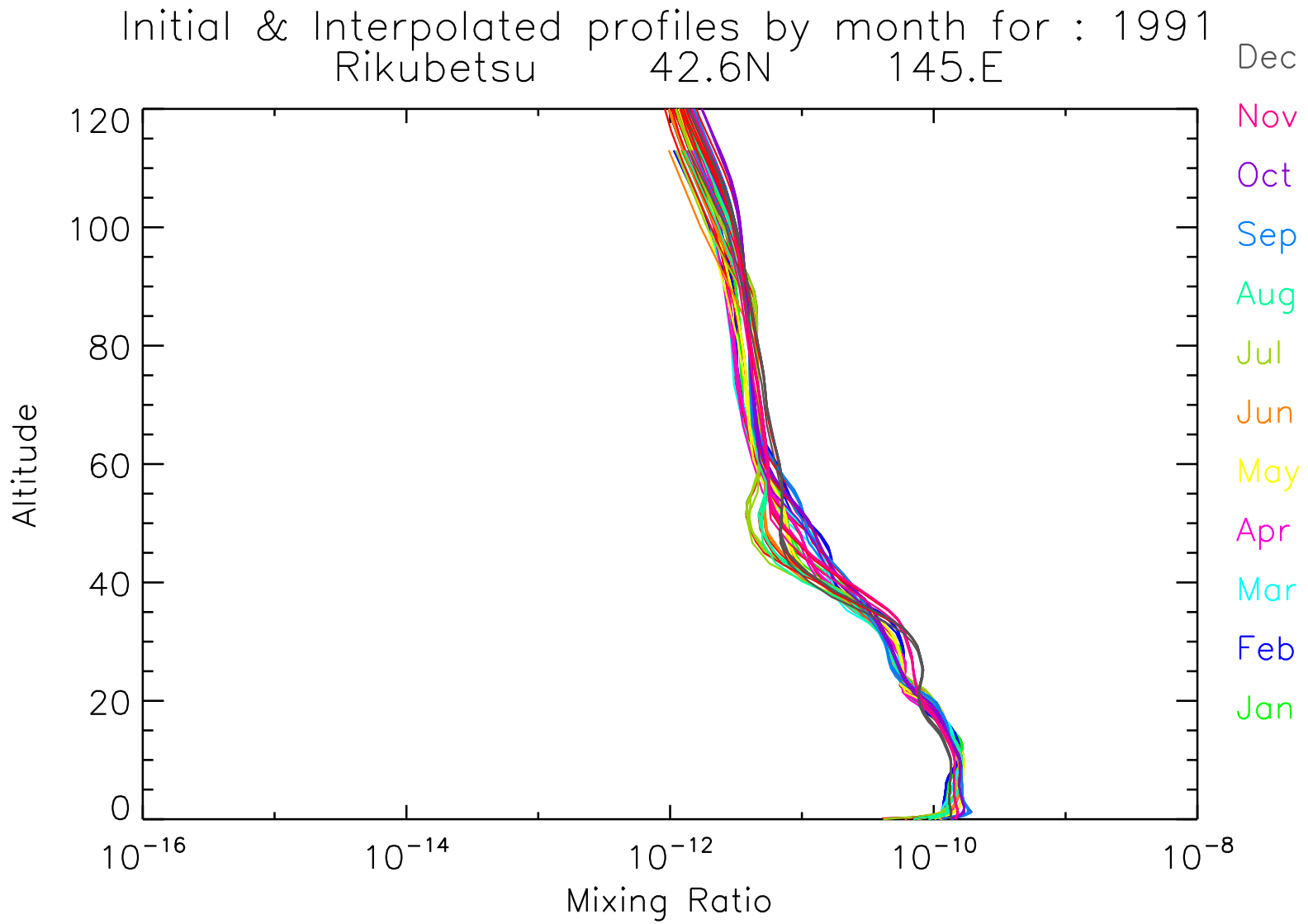
Initial & Interpolated profiles by month for : 1991
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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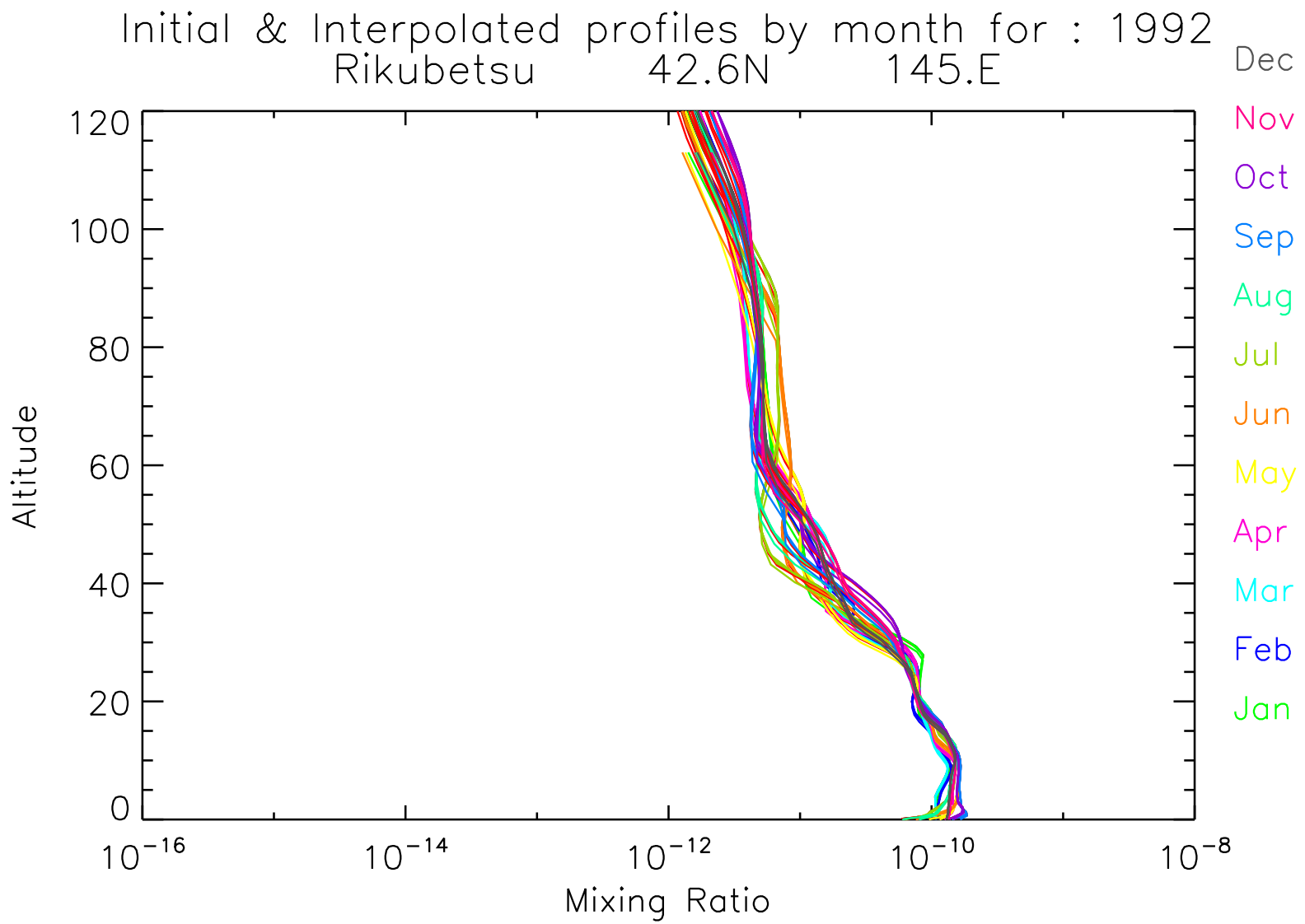
Initial & Interpolated profiles by month for : 1992
Rikubetsu 42.6N 145.E
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Altitude
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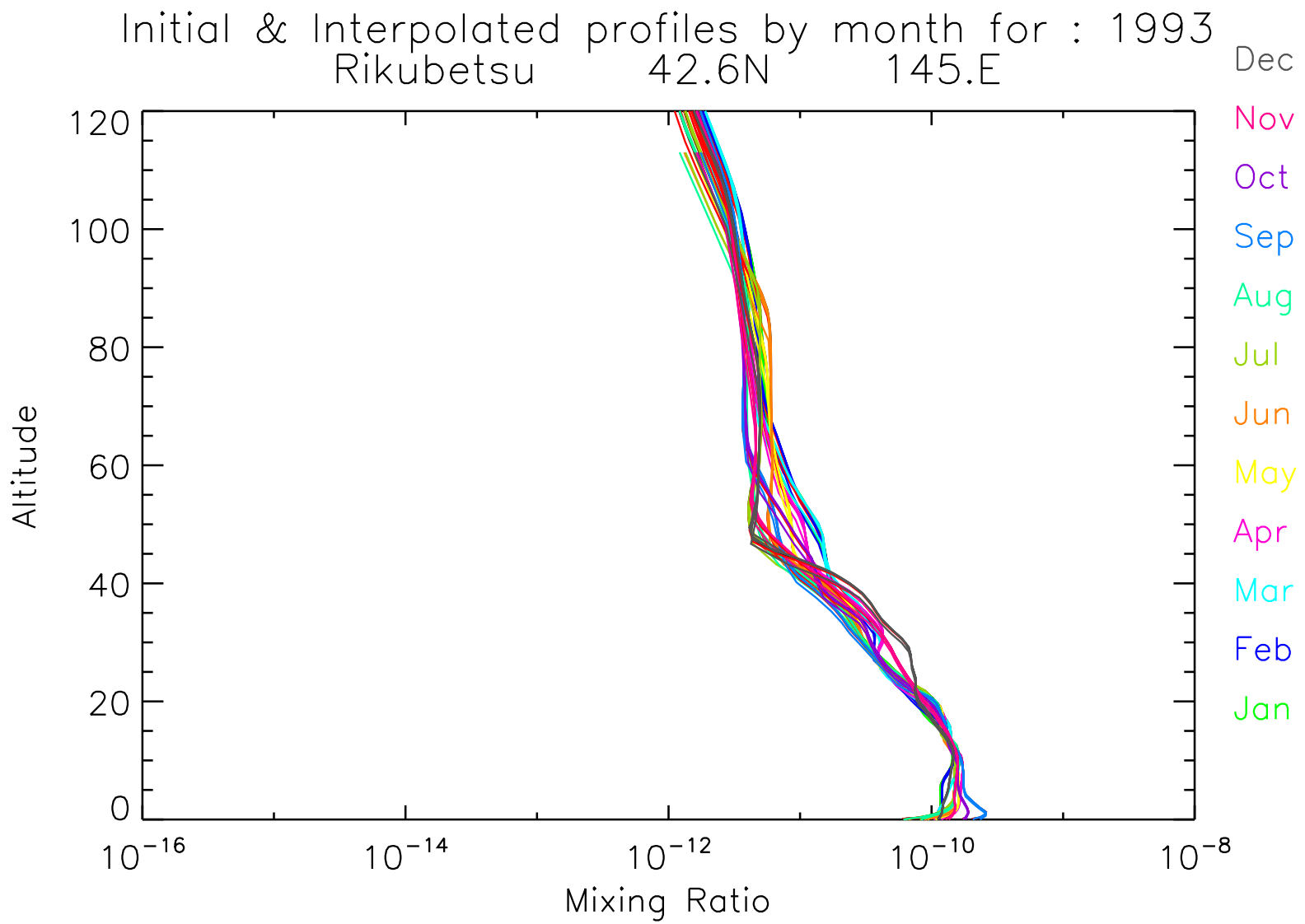
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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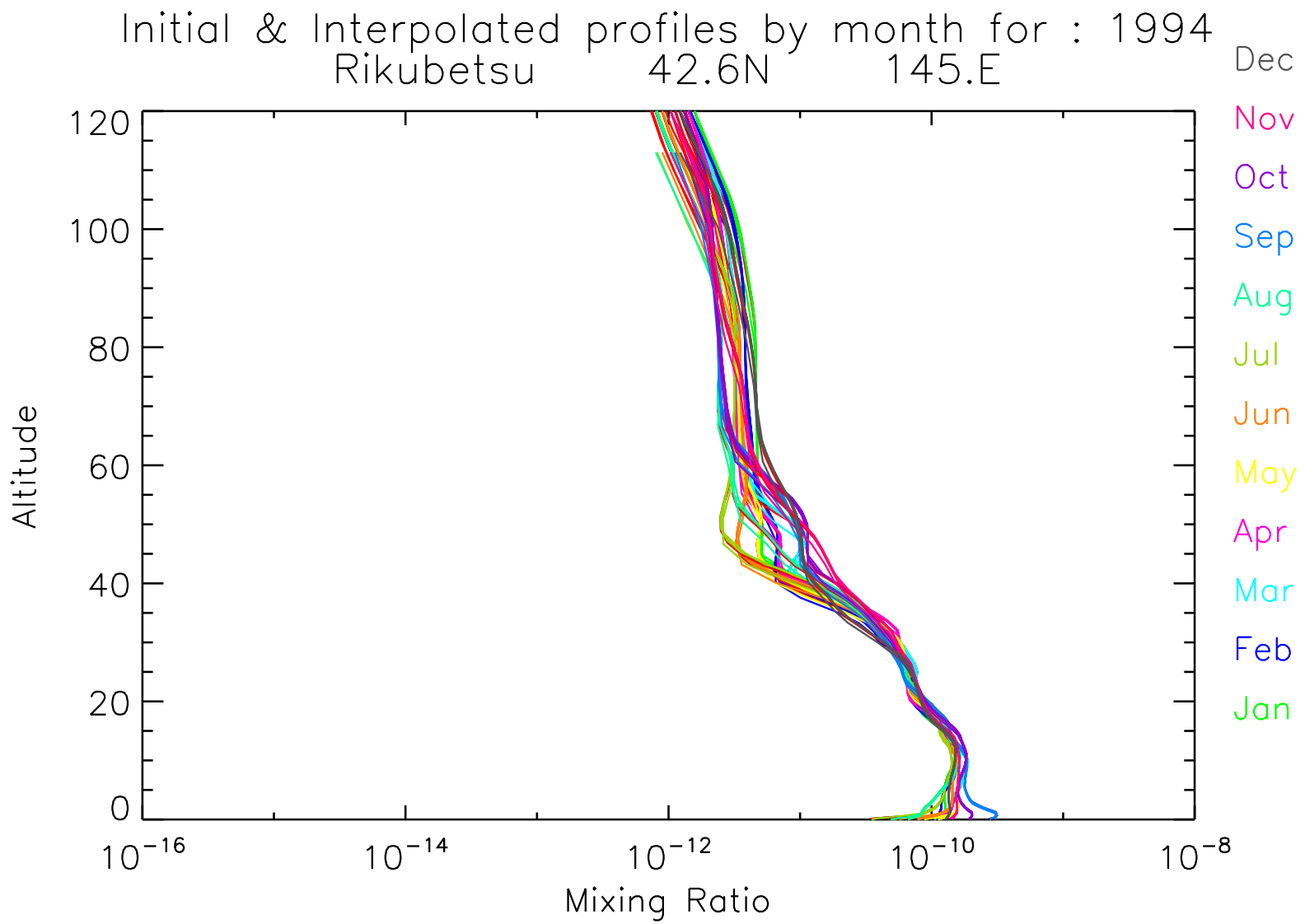
Initial & Interpolated profiles by month for : 1994
Rikubetsu 42.6N 145.E
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Altitude
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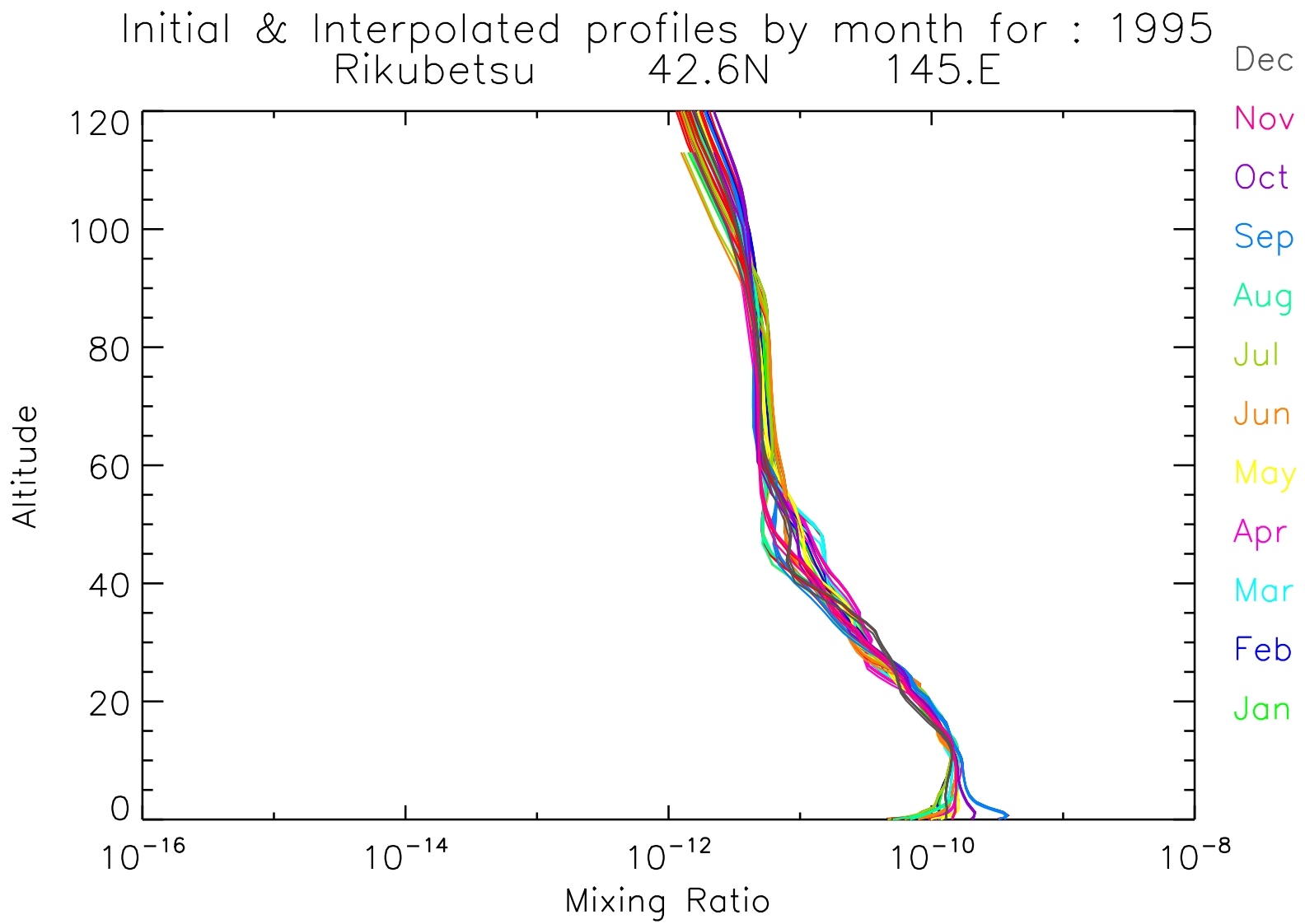
10^{-8}
Mixing Ratio


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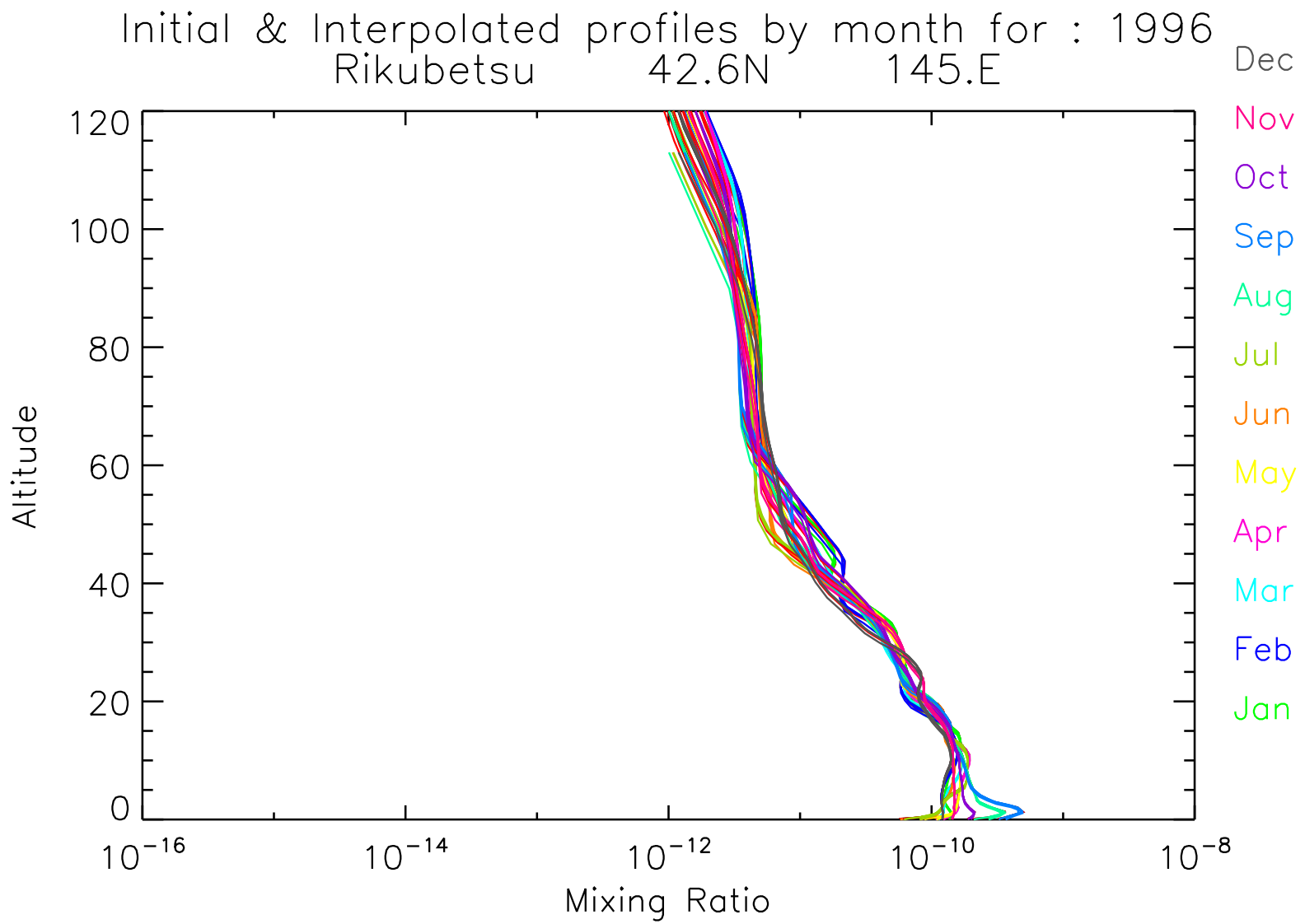
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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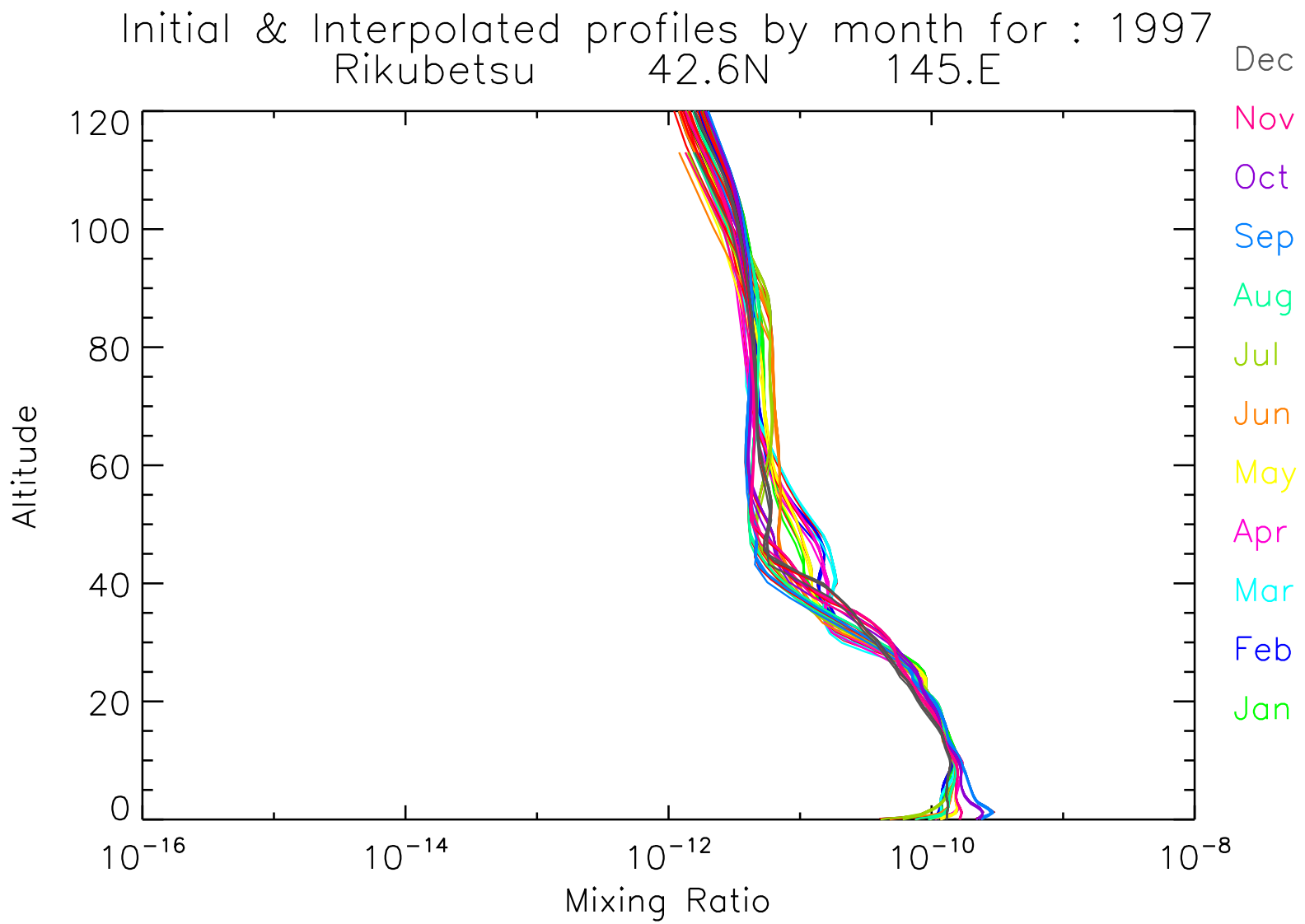
Initial & Interpolated profiles by month for : 1997
Rikubetsu 42.6N 145.E
Altitude
120
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Mixing Ratio
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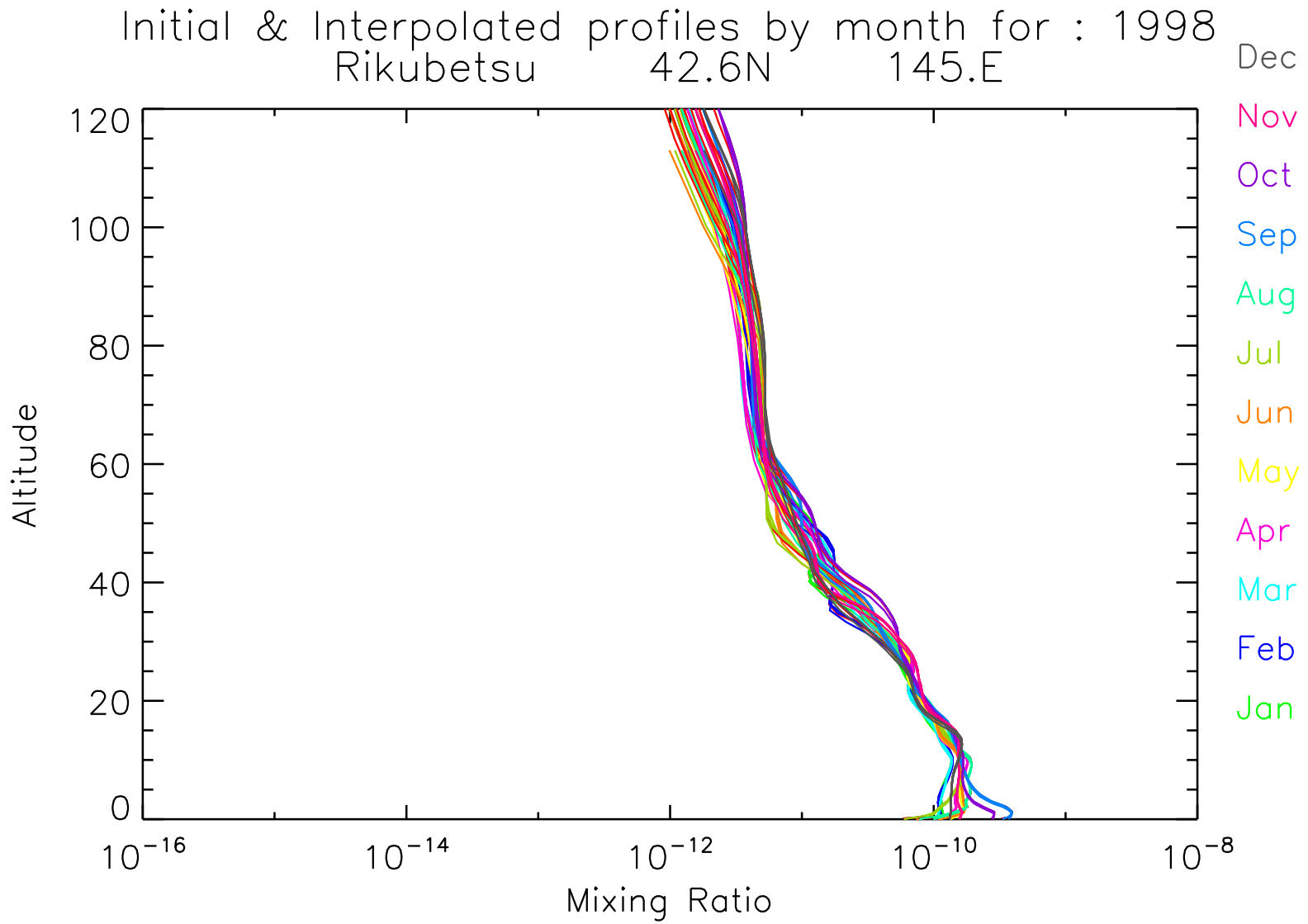
Initial & Interpolated profiles by month for : 1998
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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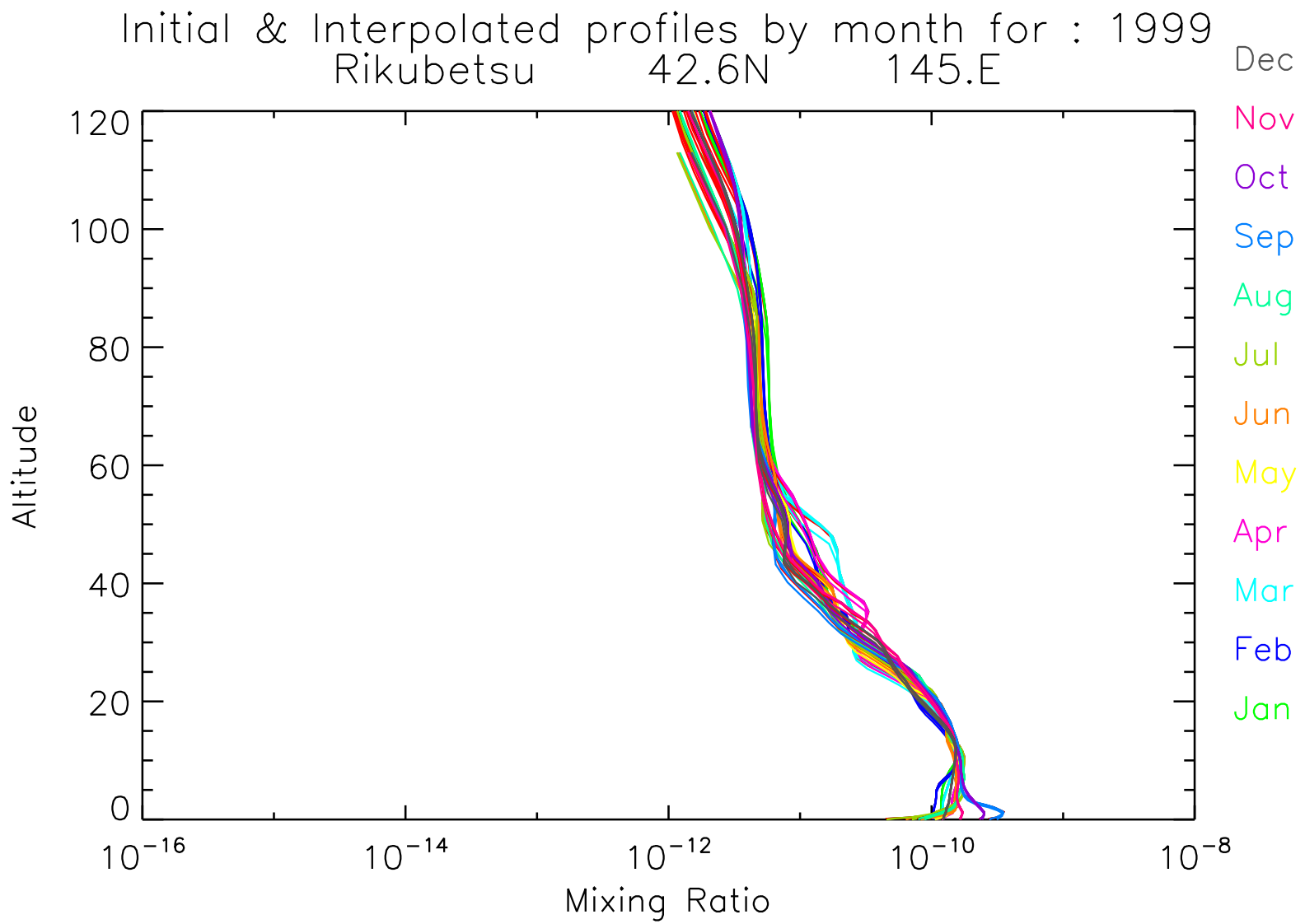
Initial & Interpolated profiles by month for : 1999
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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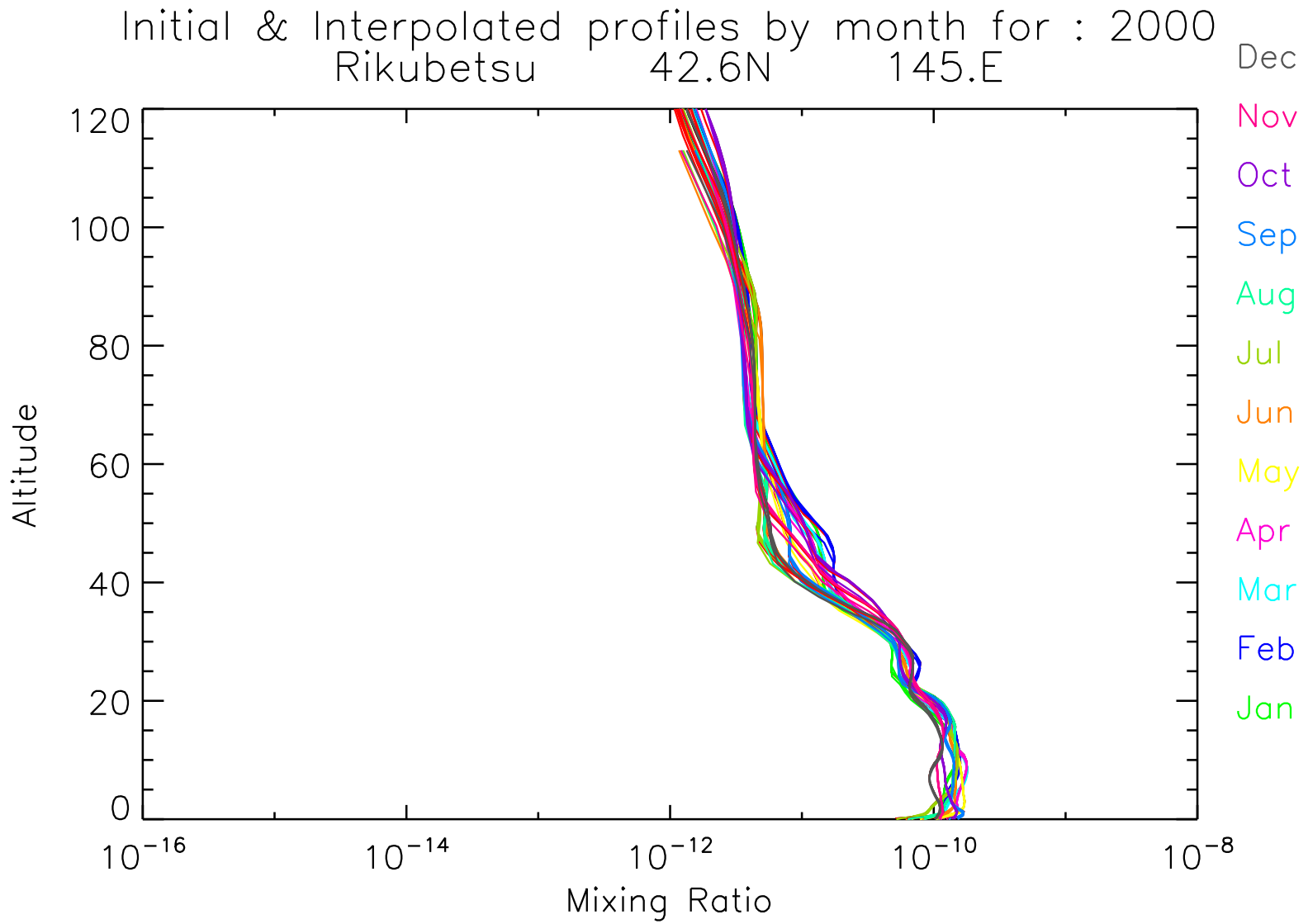
Initial & Interpolated profiles by month for : 2000
Rikubetsu 42.6N 145.E
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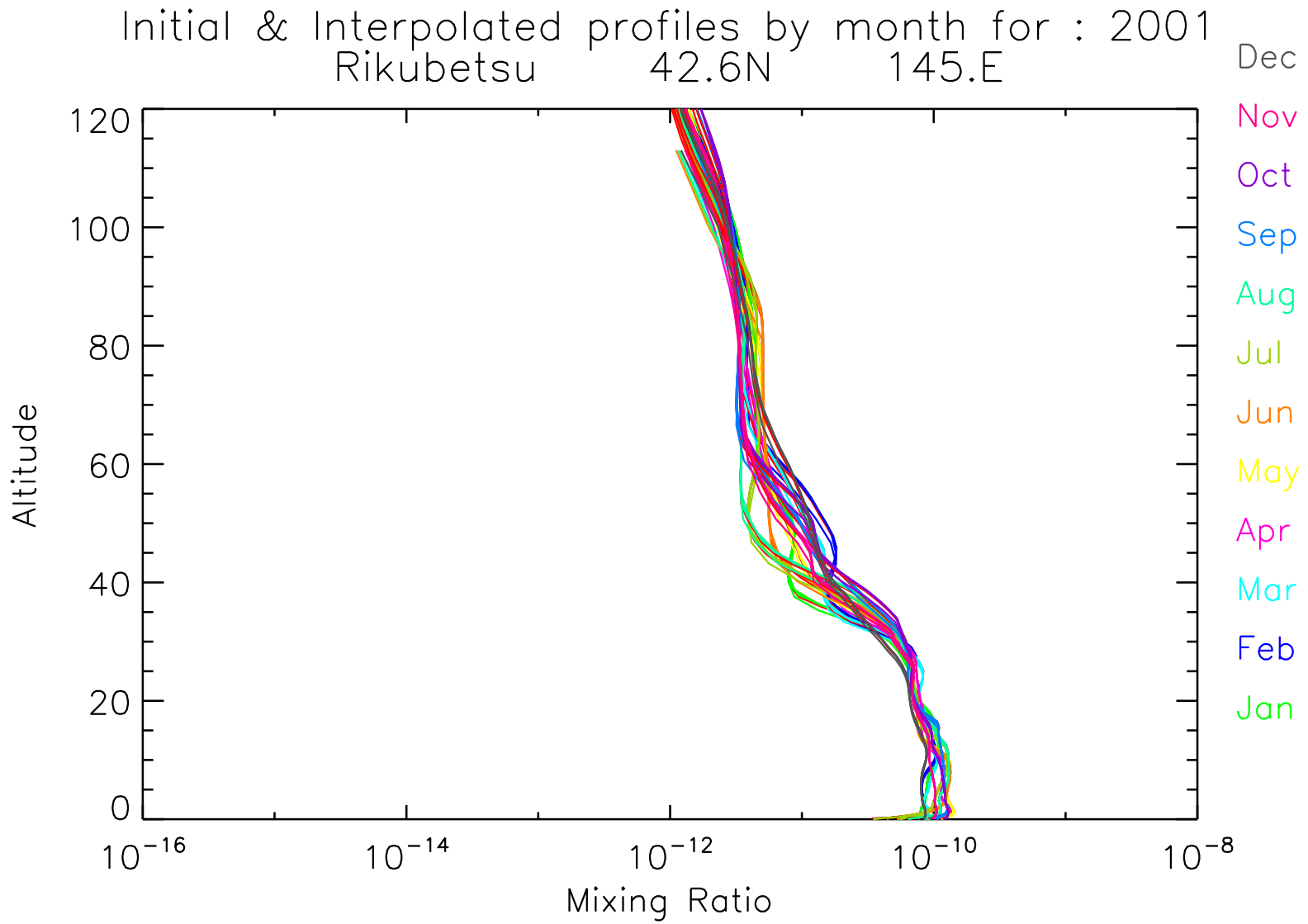
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
Dec
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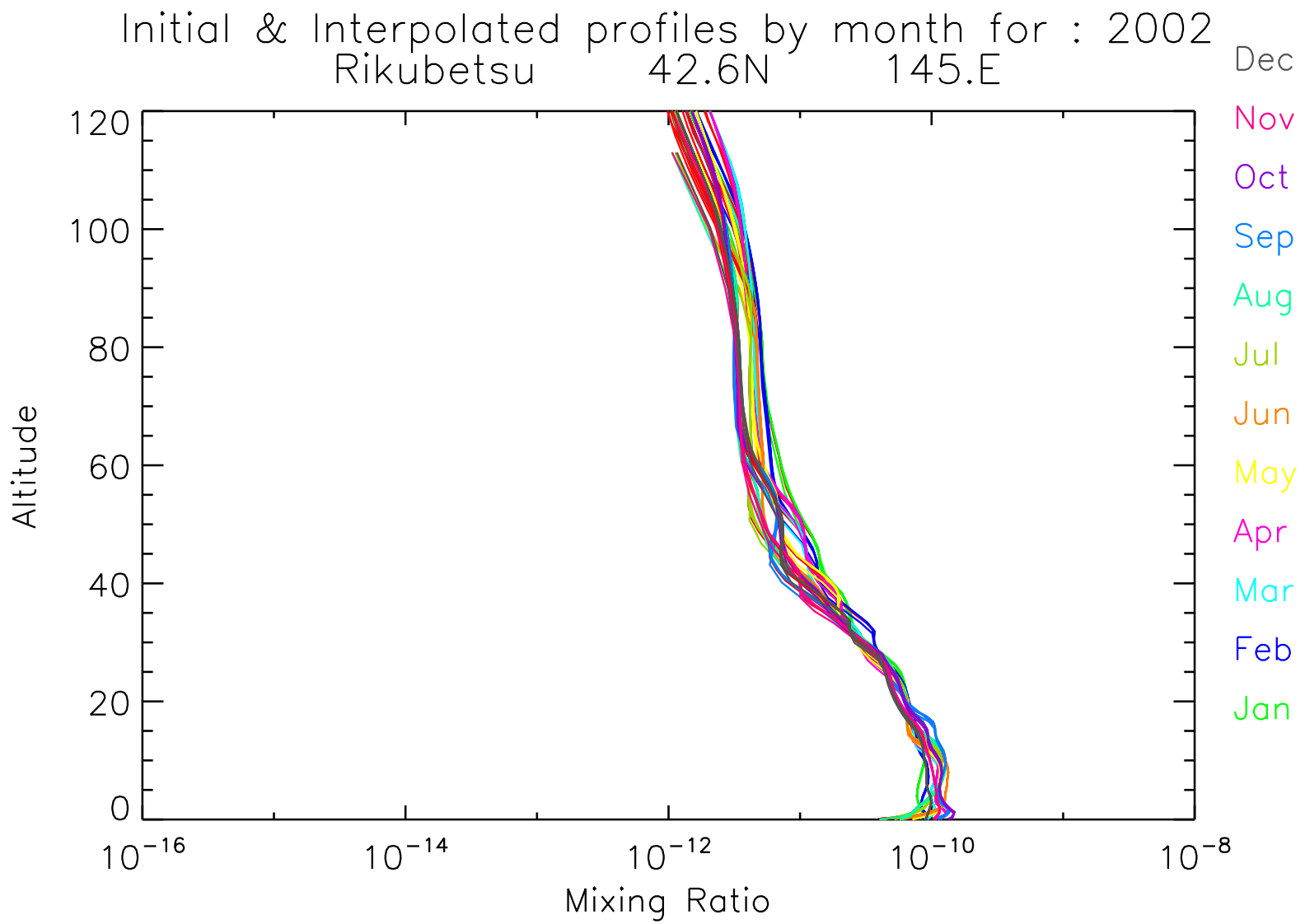
Initial & Interpolated profiles by month for : 2002
Rikubetsu 42.6N 145.E
Dec
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Altitude
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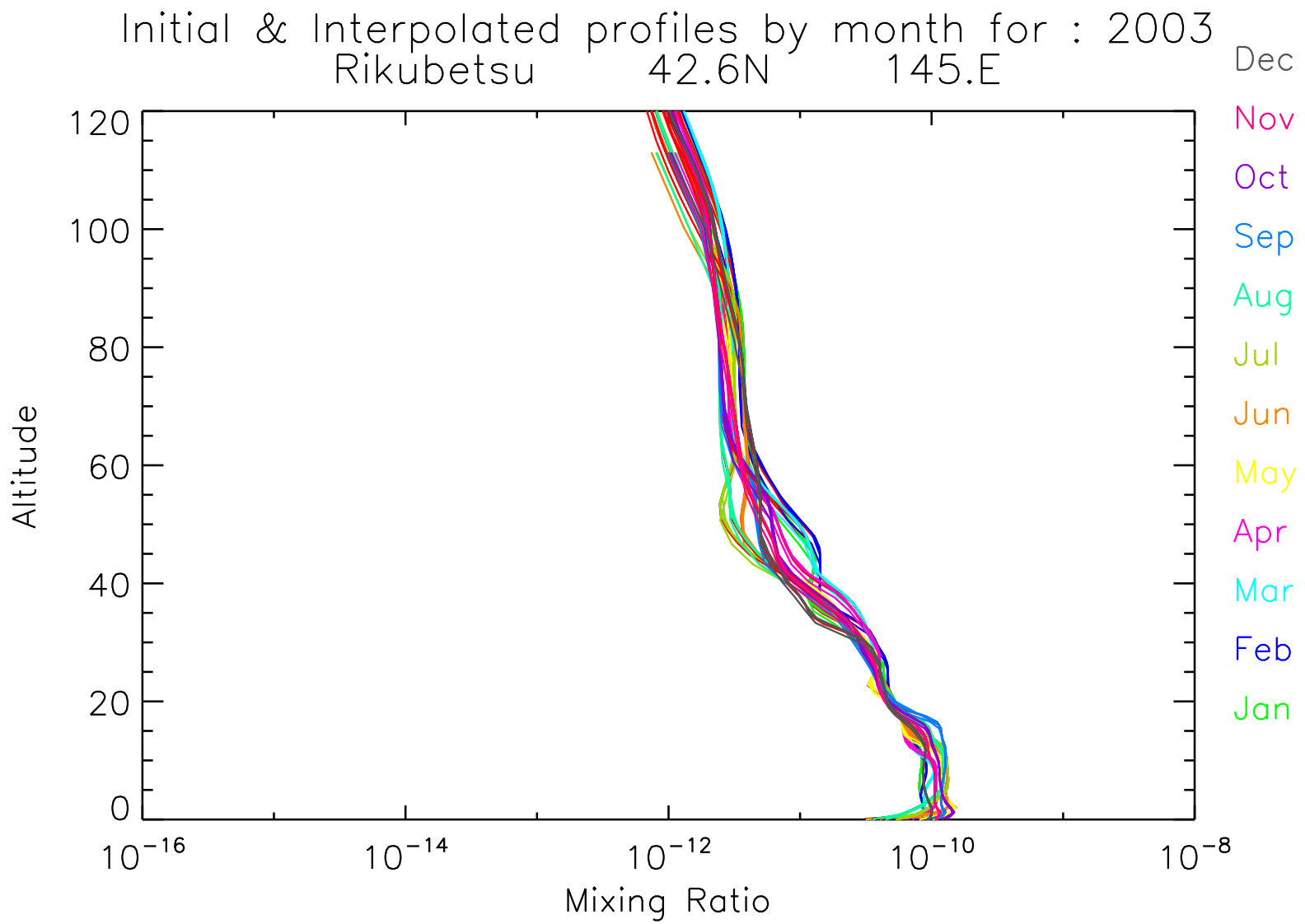
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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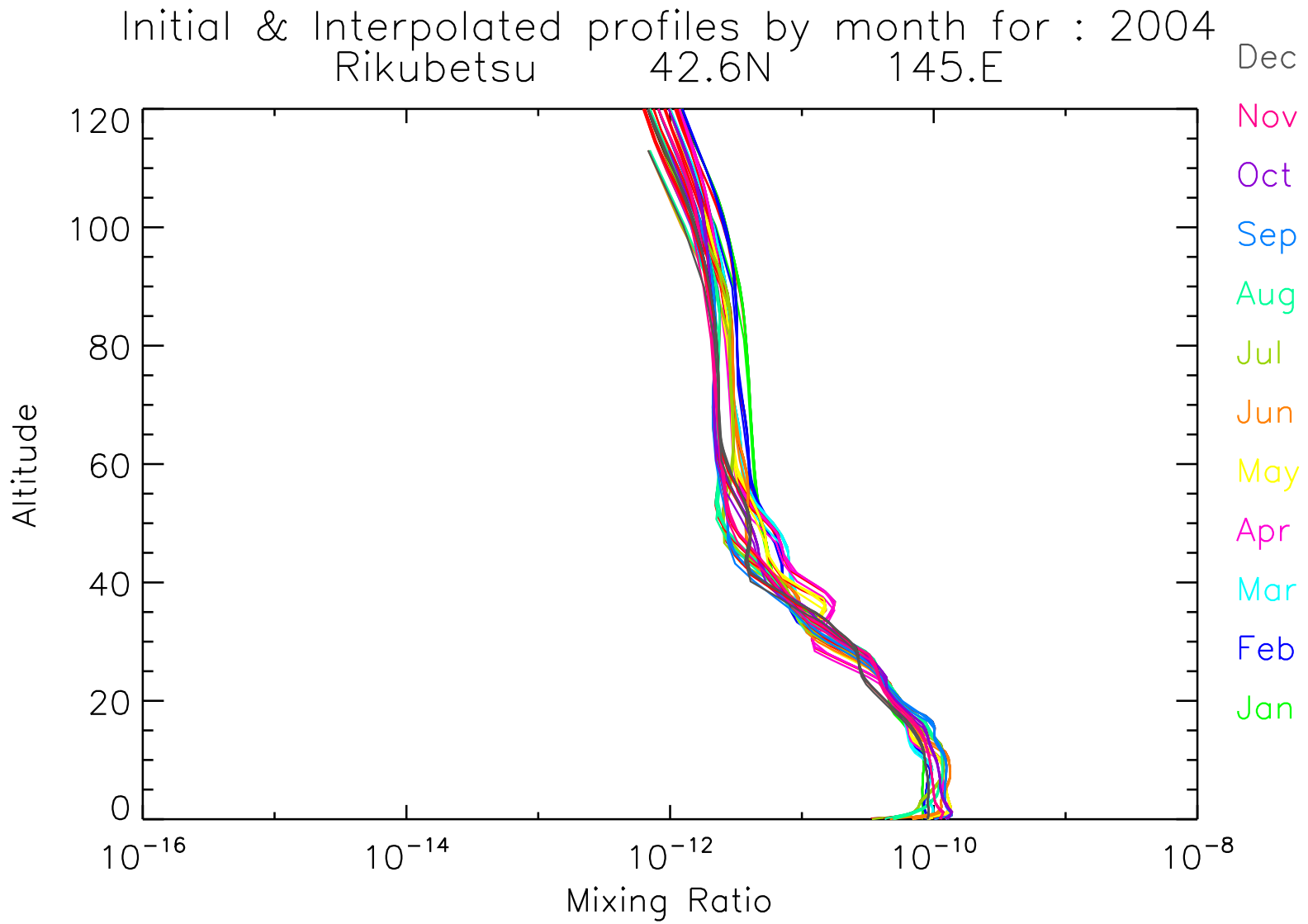
Initial & Interpolated profiles by month for : 2004
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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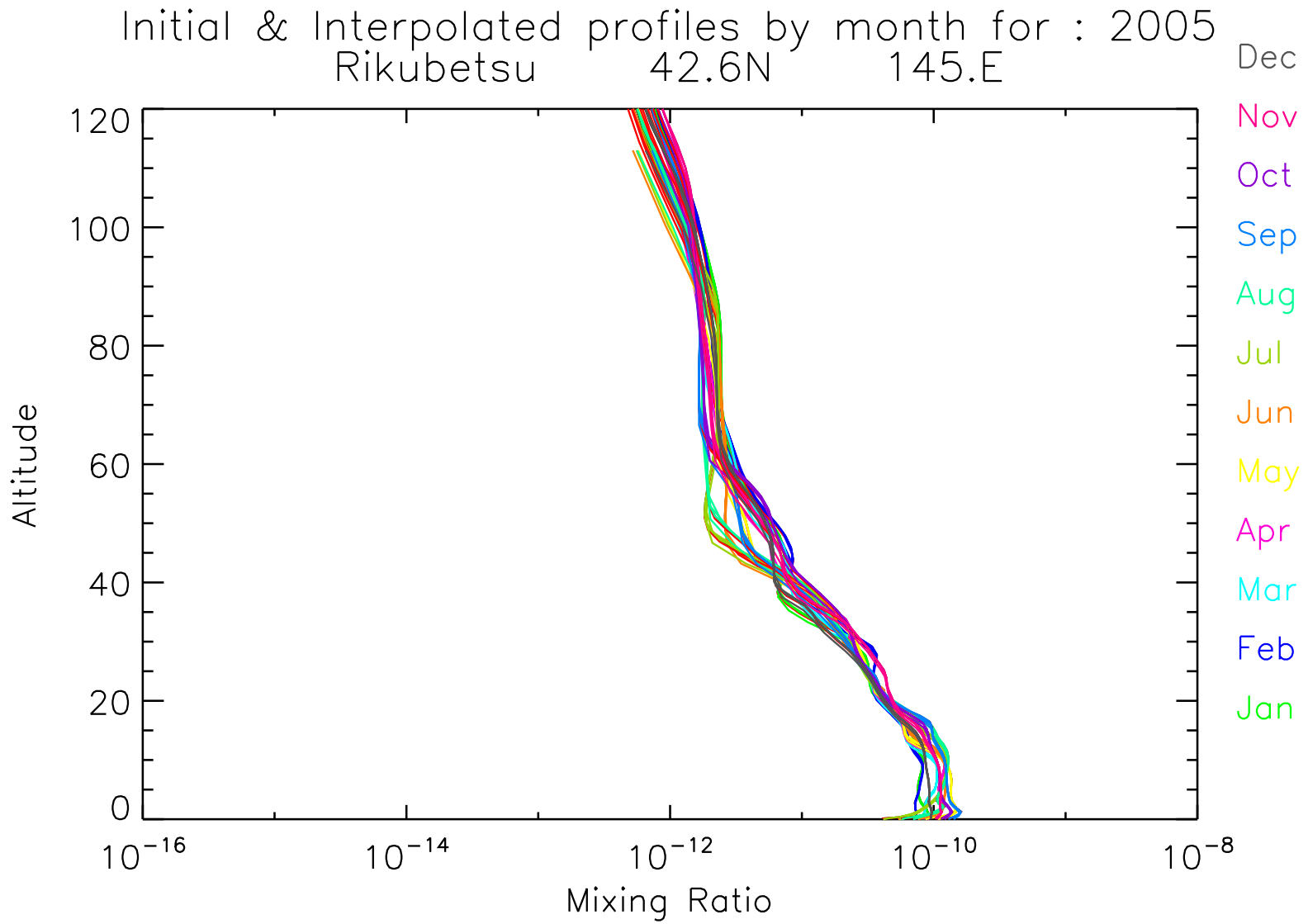
Initial & Interpolated profiles by month for : 2005
Rikubetsu 42.6N 145.E
Dec
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Altitude
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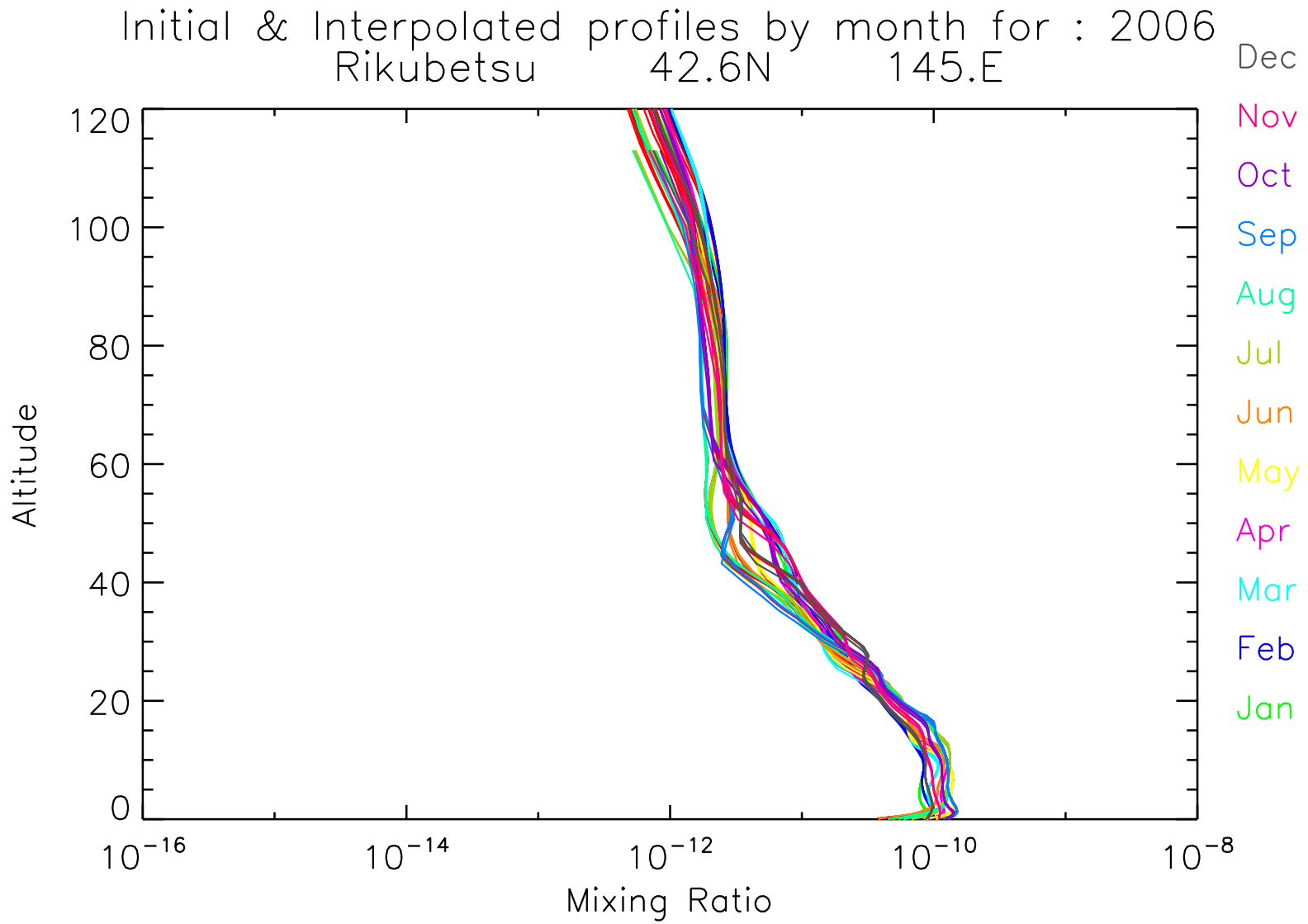
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Rikubetsu 42.6N 145.E
Altitude
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Mixing Ratio
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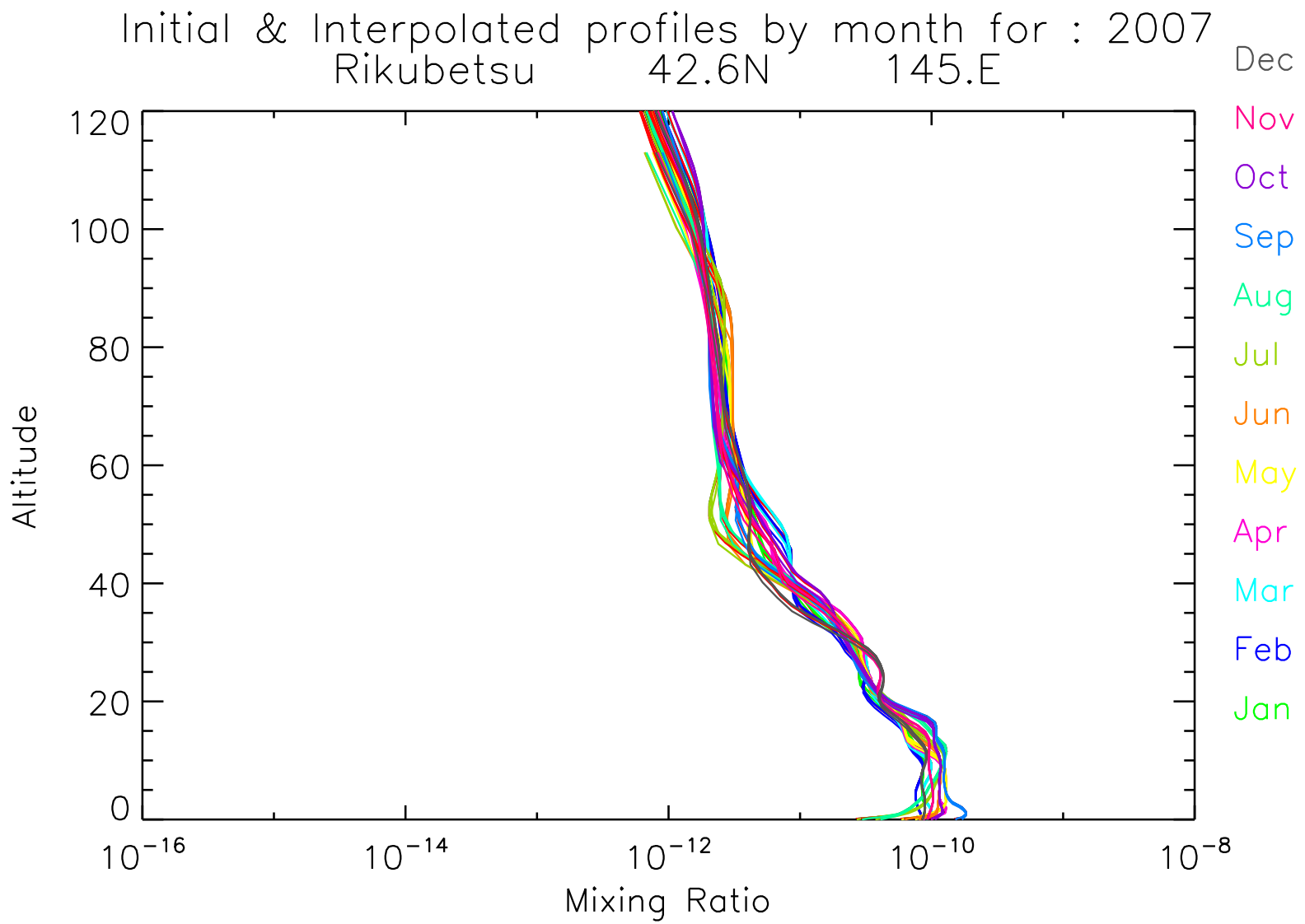
Initial & Interpolated profiles by month for : 2007
Rikubetsu 42.6N 145.E
Altitude
120
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Mixing Ratio
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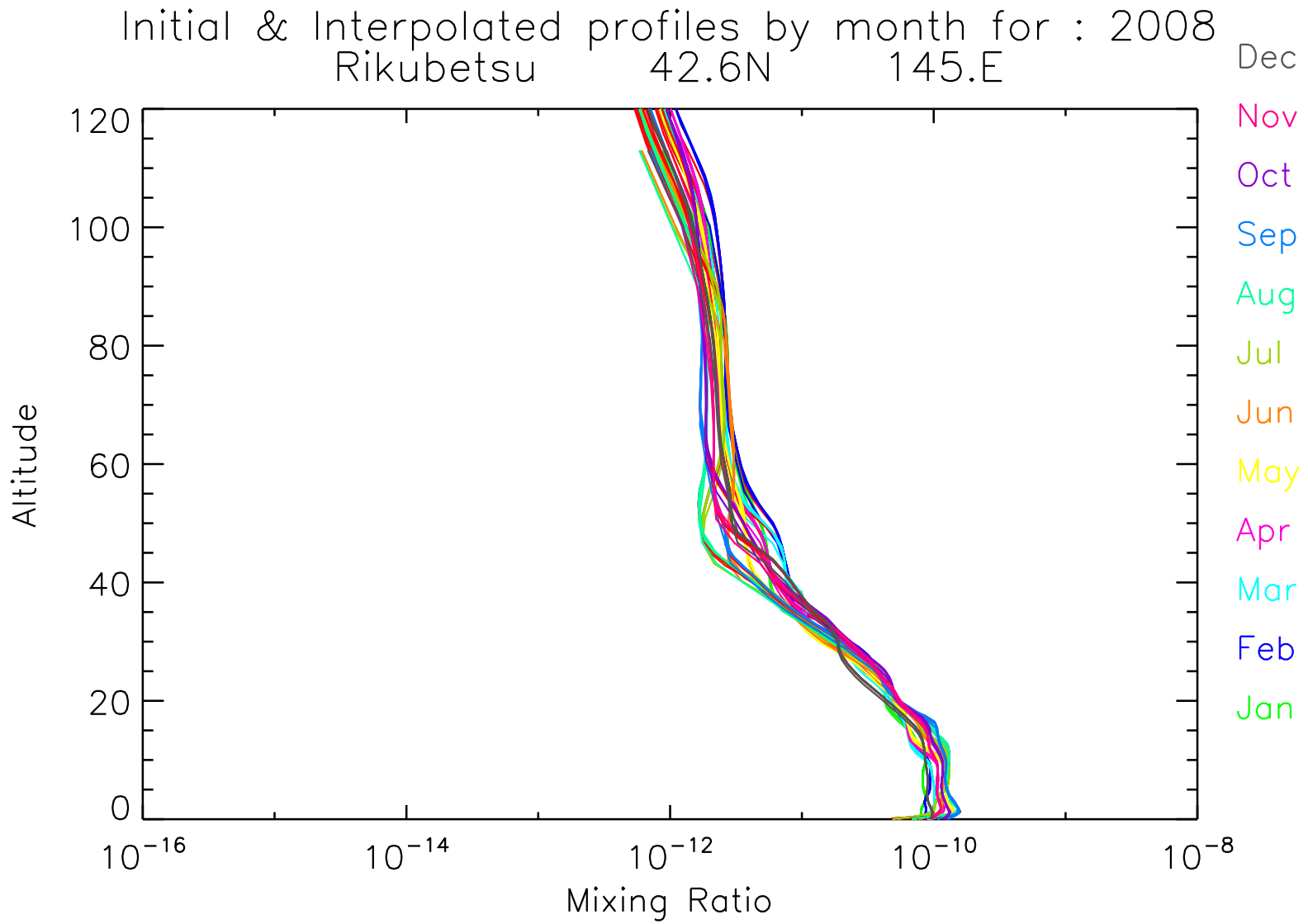
Initial & Interpolated profiles by month for : 2008
Rikubetsu 42.6N 145.E
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Altitude
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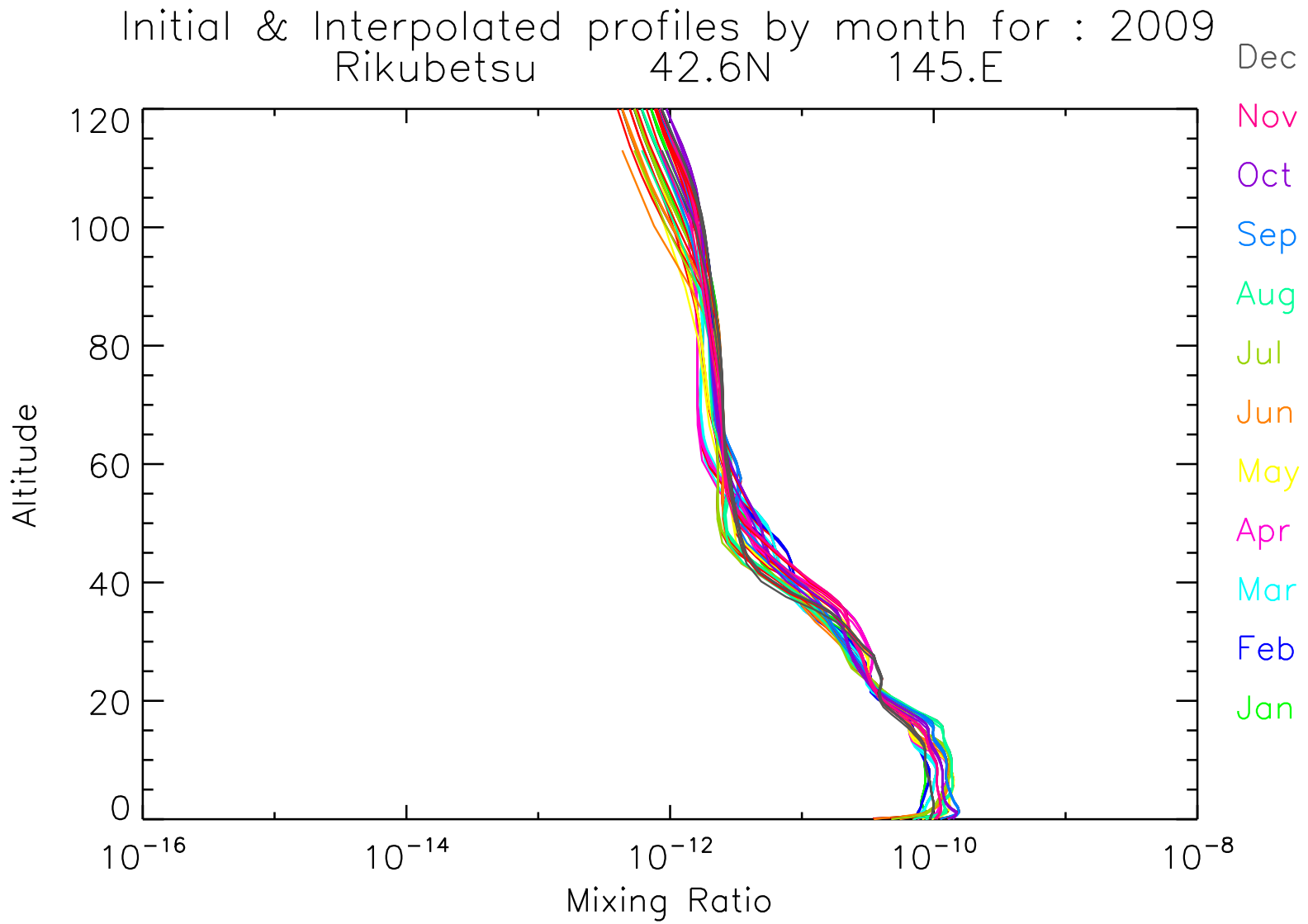
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Rikubetsu 42.6N 145.E
Altitude
120
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Mixing Ratio
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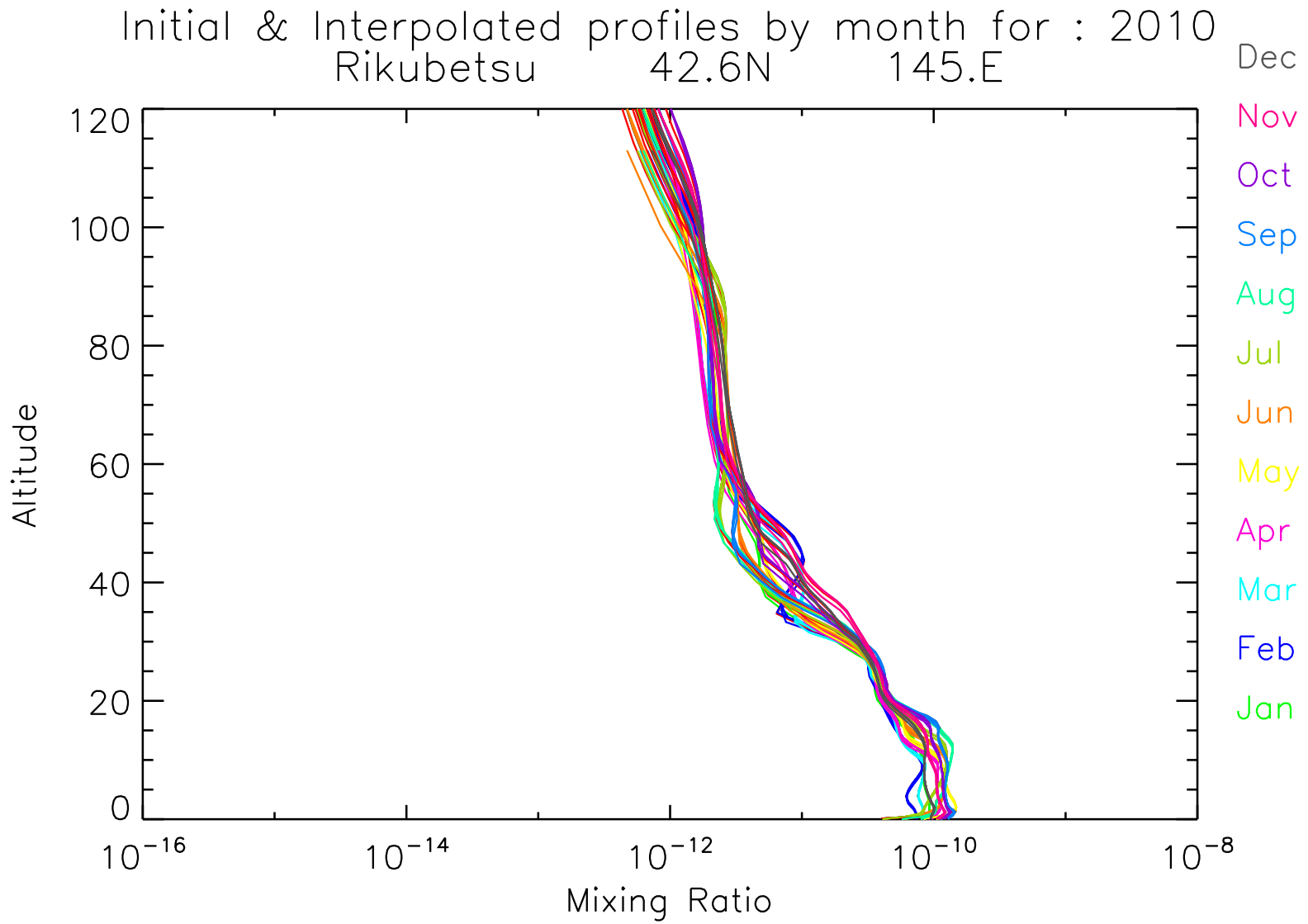
Initial & Interpolated profiles by month for : 2010
Rikubetsu 42.6N 145.E
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Altitude
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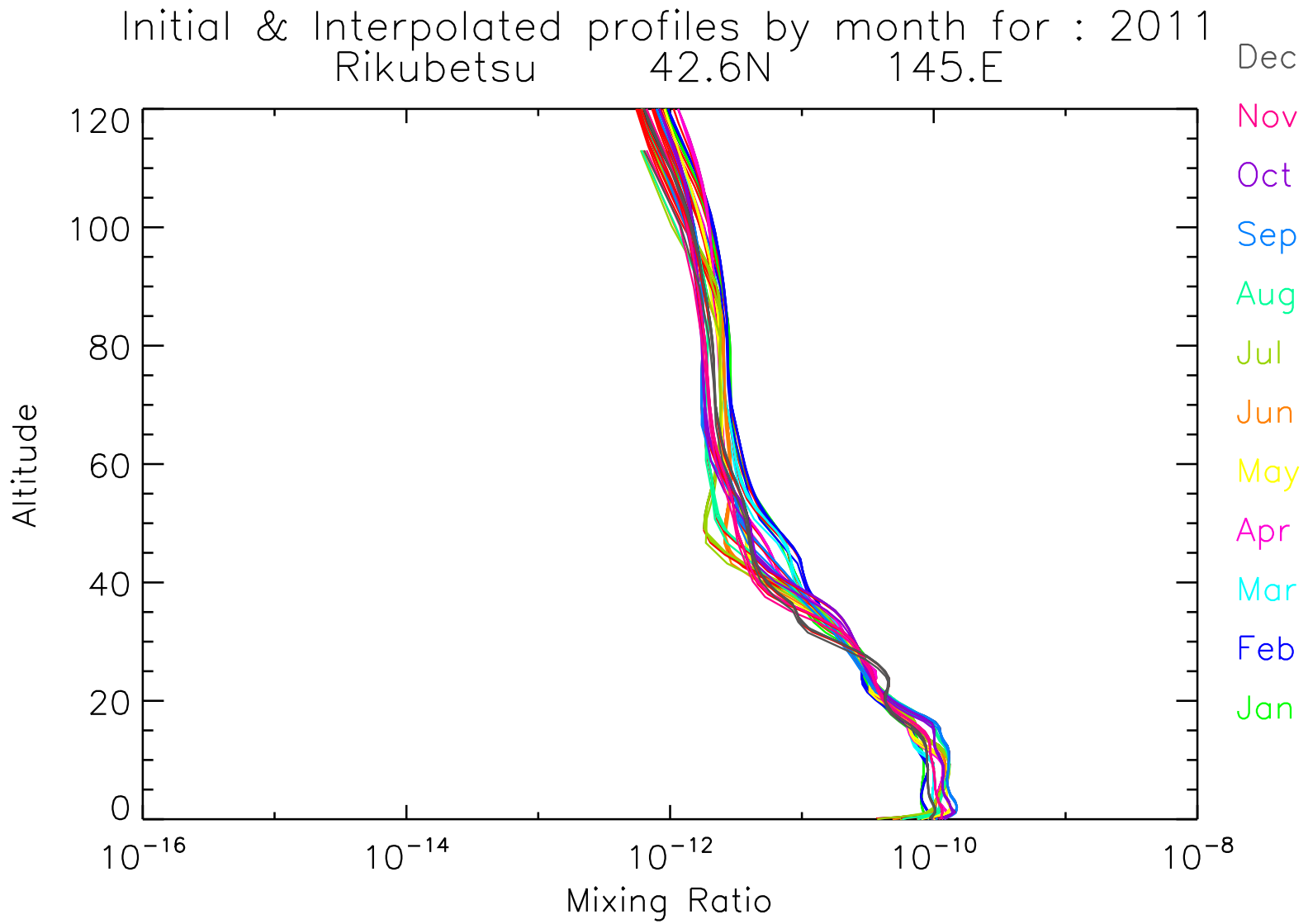
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Rikubetsu 42.6N 145.E
Altitude
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10^{-8}
Mixing Ratio
Dec
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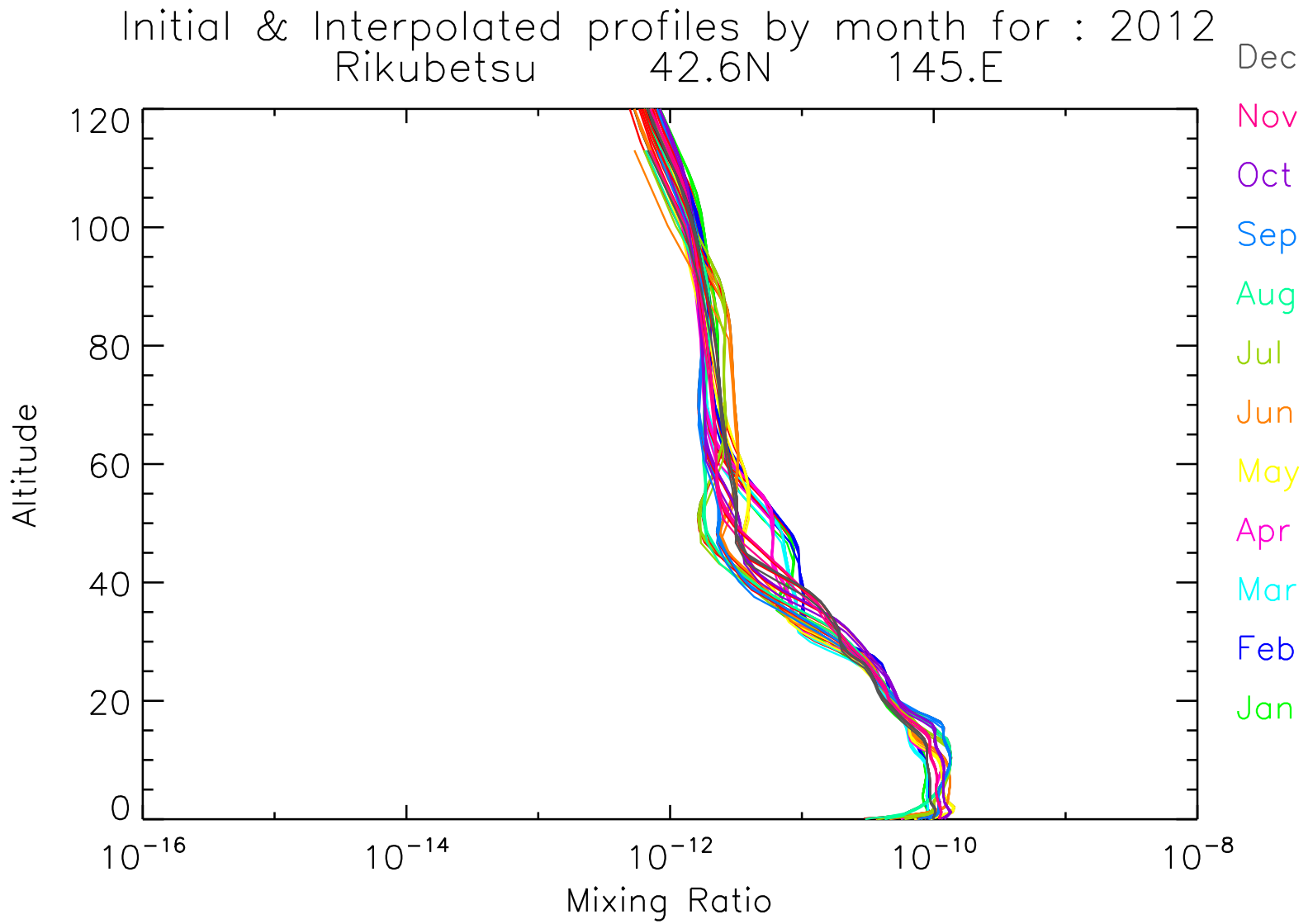
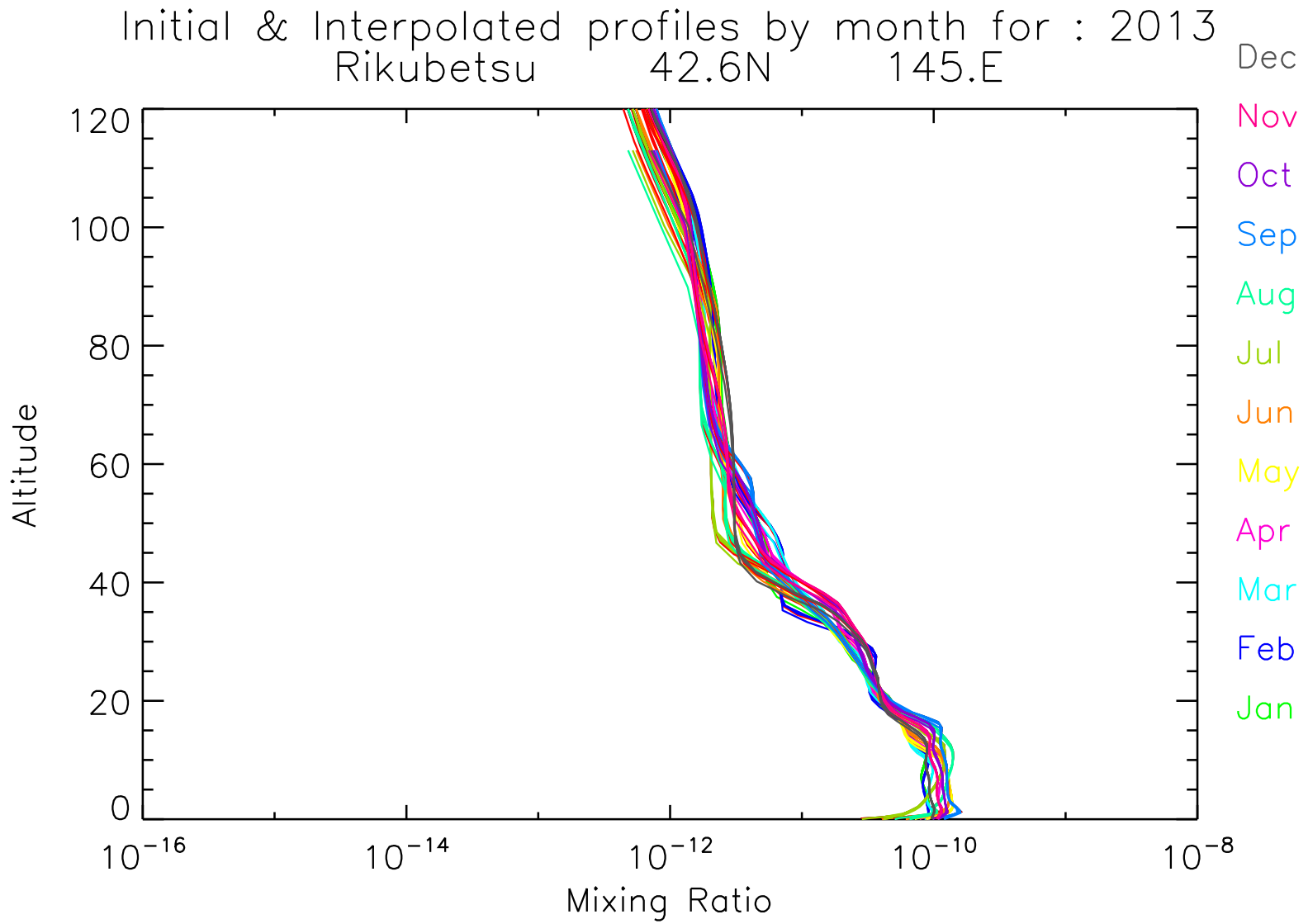
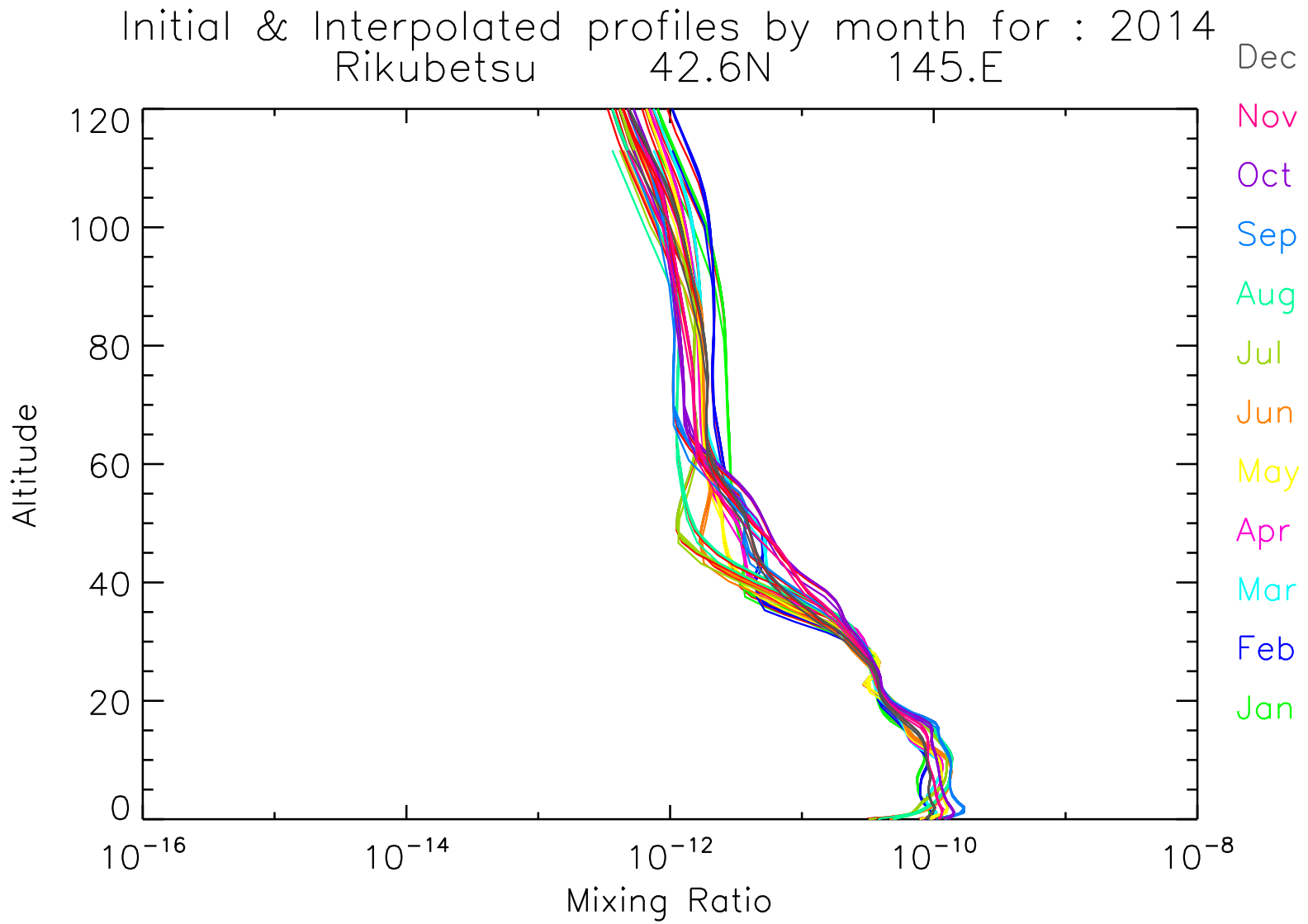
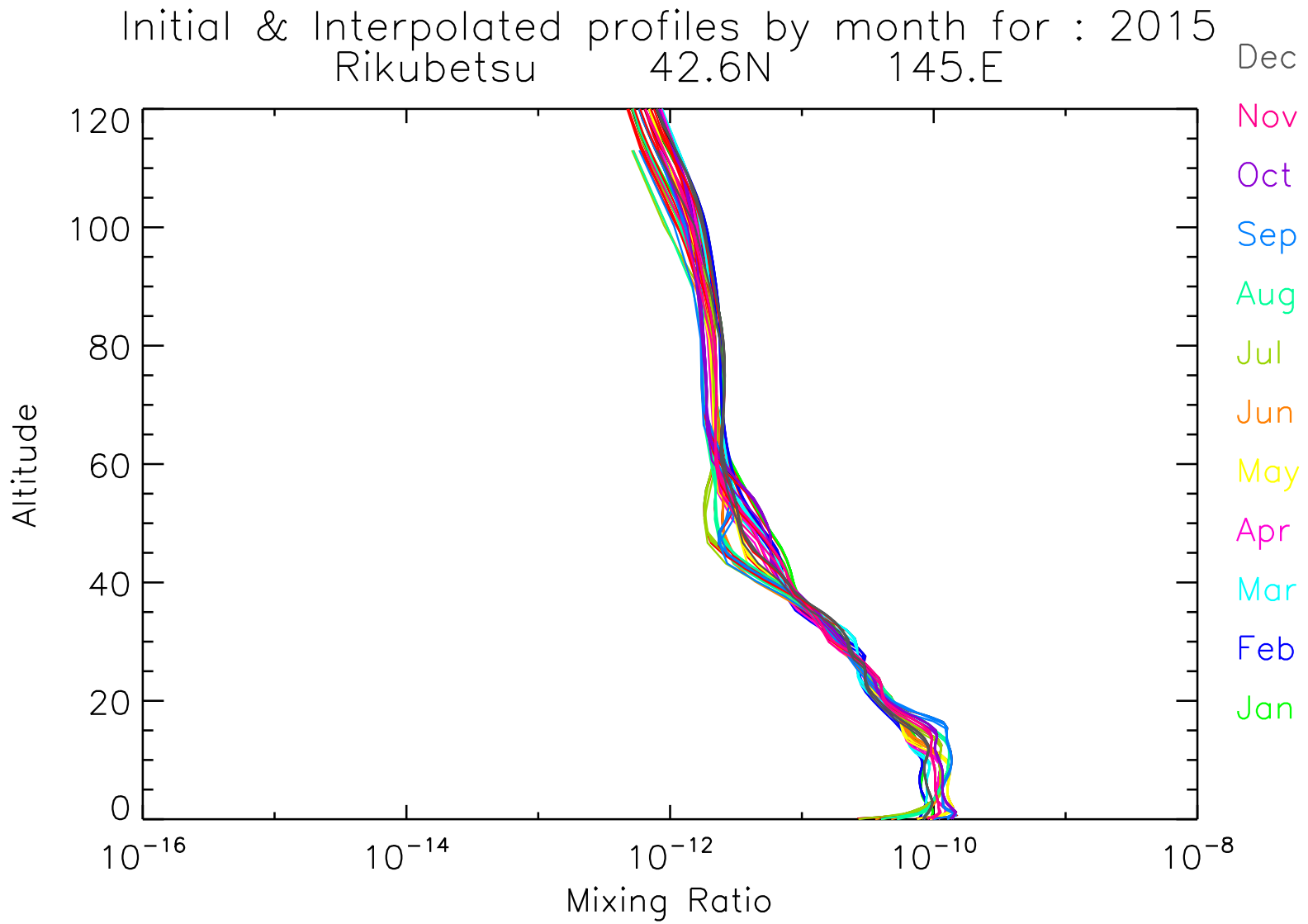
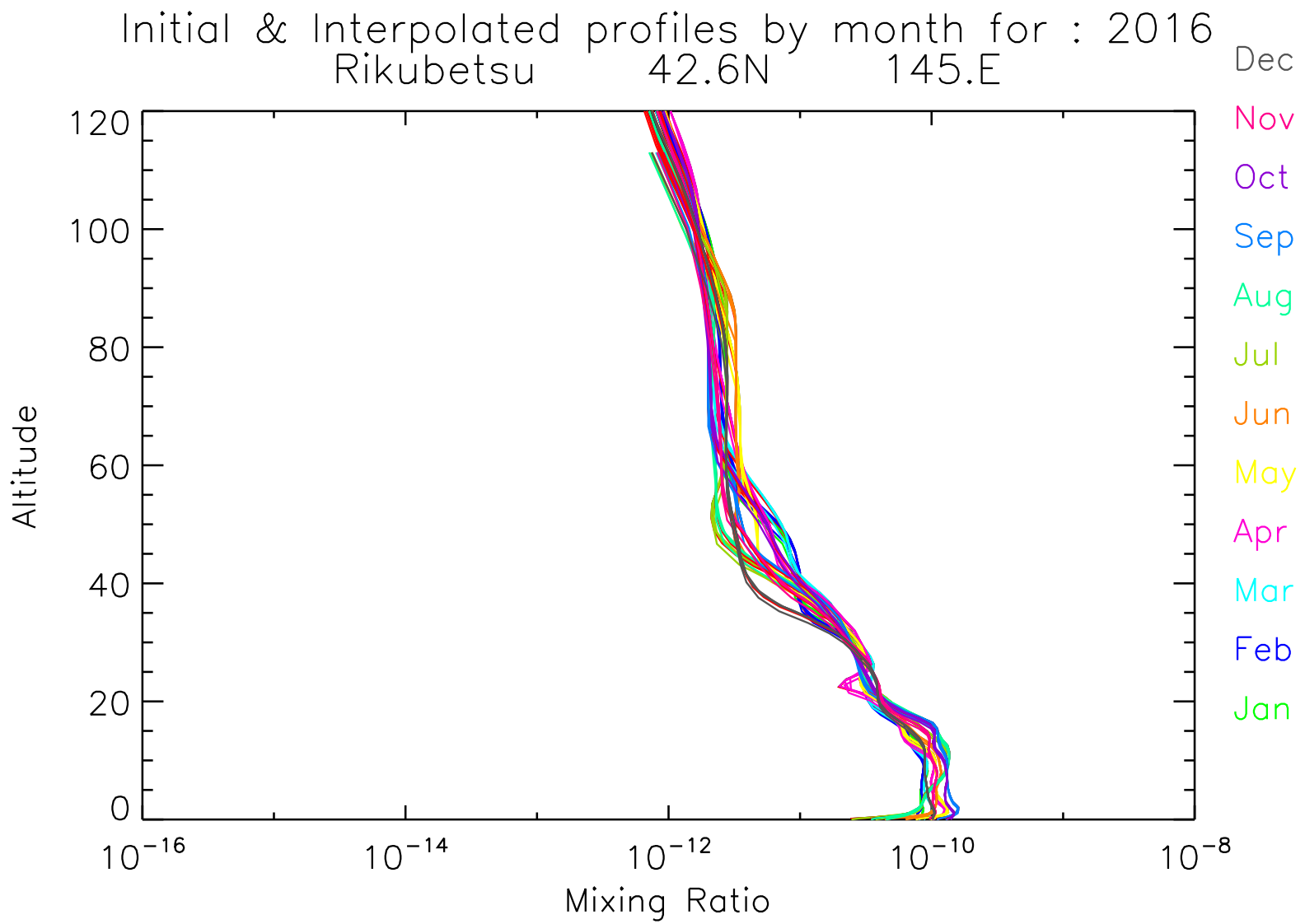
Feb
Jan

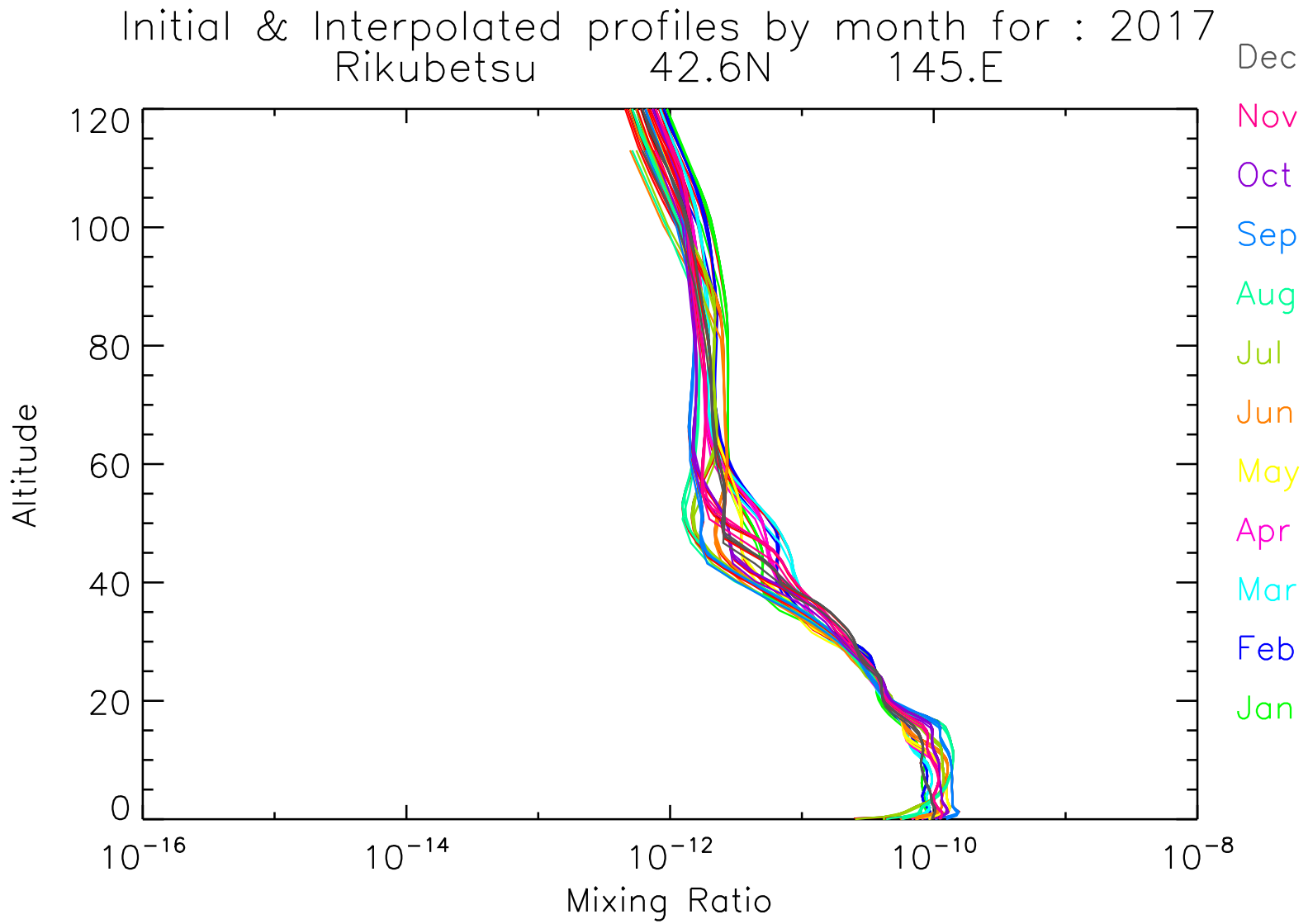

Initial & Interpolated profiles by month for : 2012
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

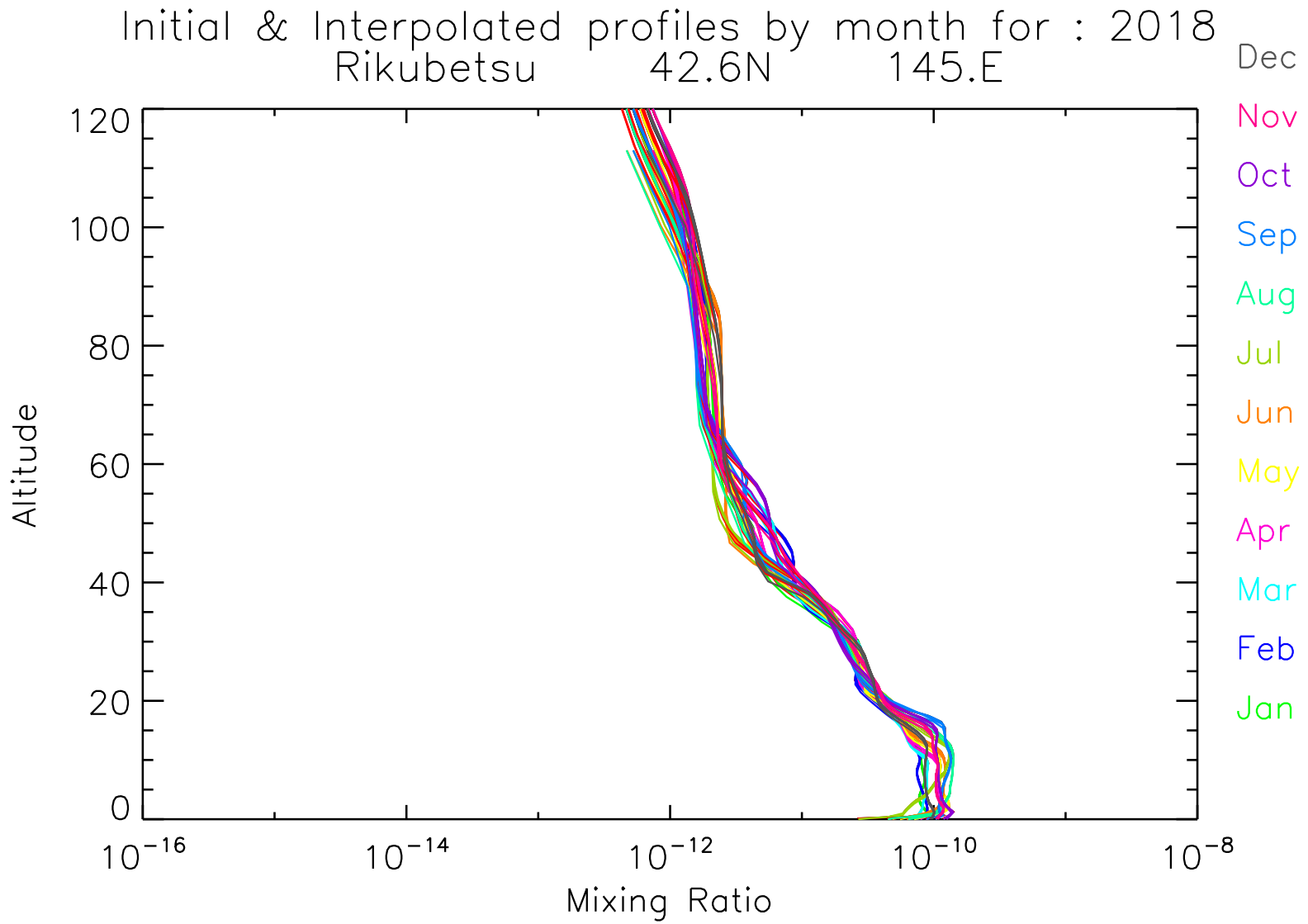

Initial & Interpolated profiles by month for : 2013
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

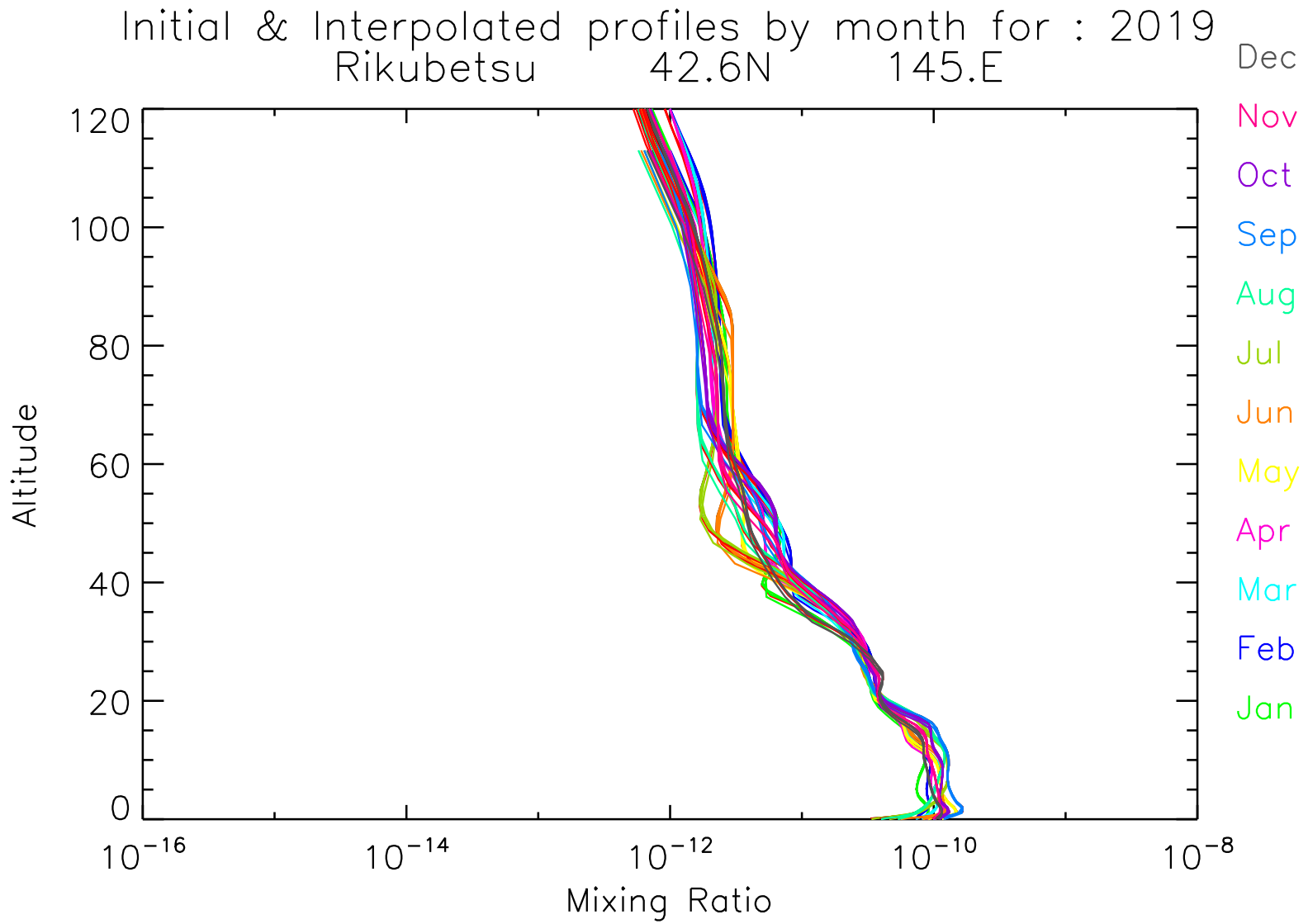

Initial & Interpolated profiles by month for : 2014
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

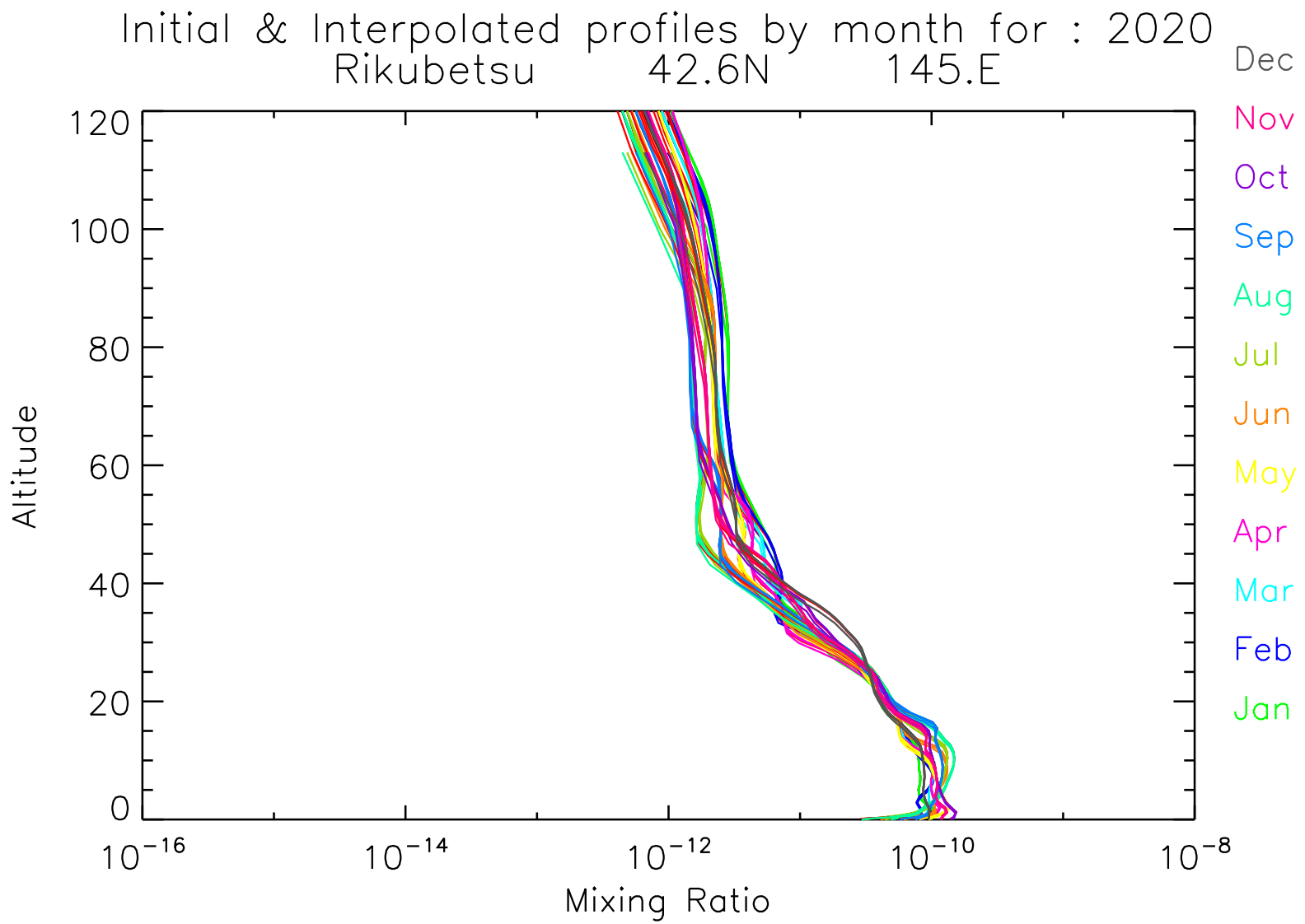

Initial & Interpolated profiles by month for : 2015
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

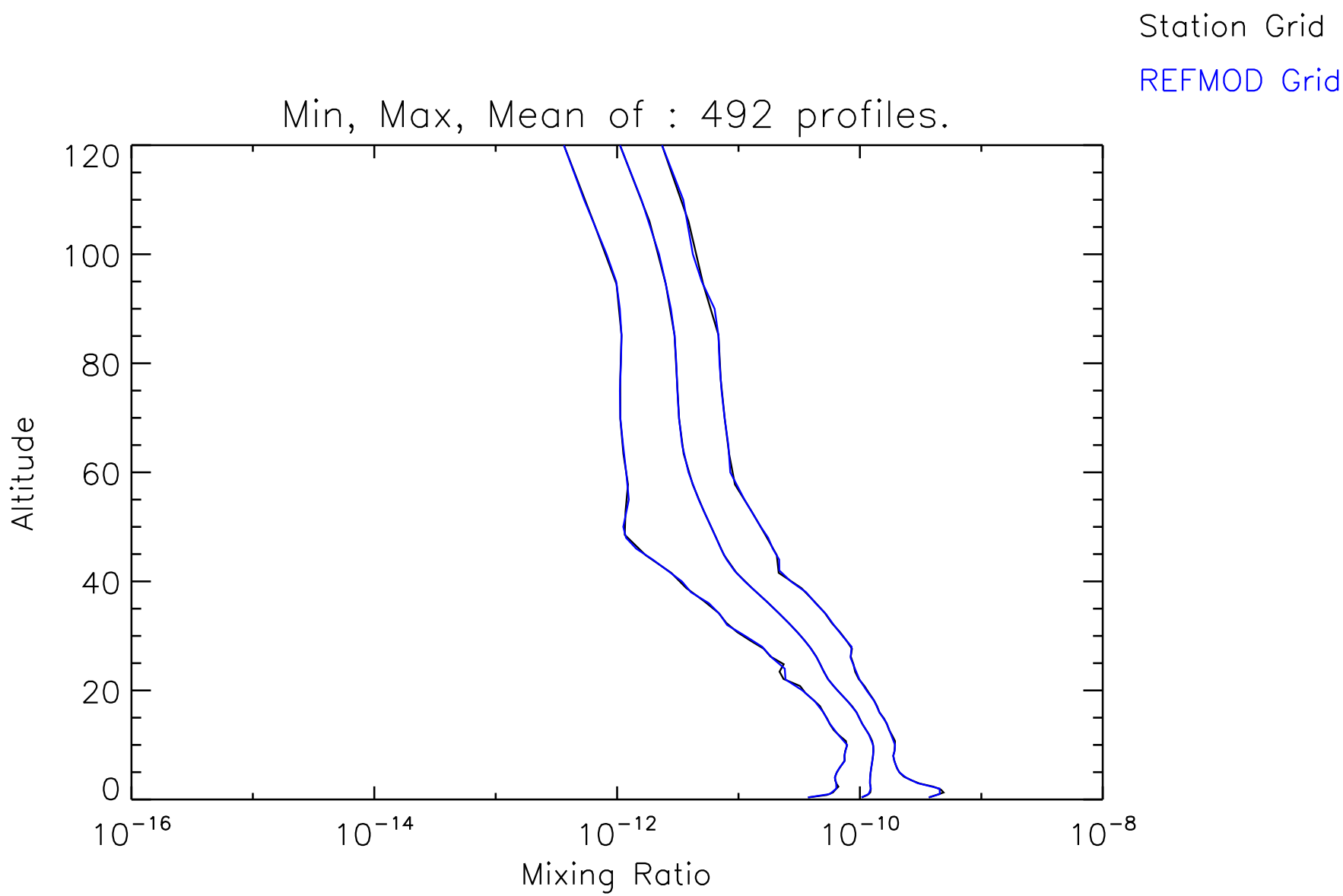

Initial & Interpolated profiles by month for : 2016
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

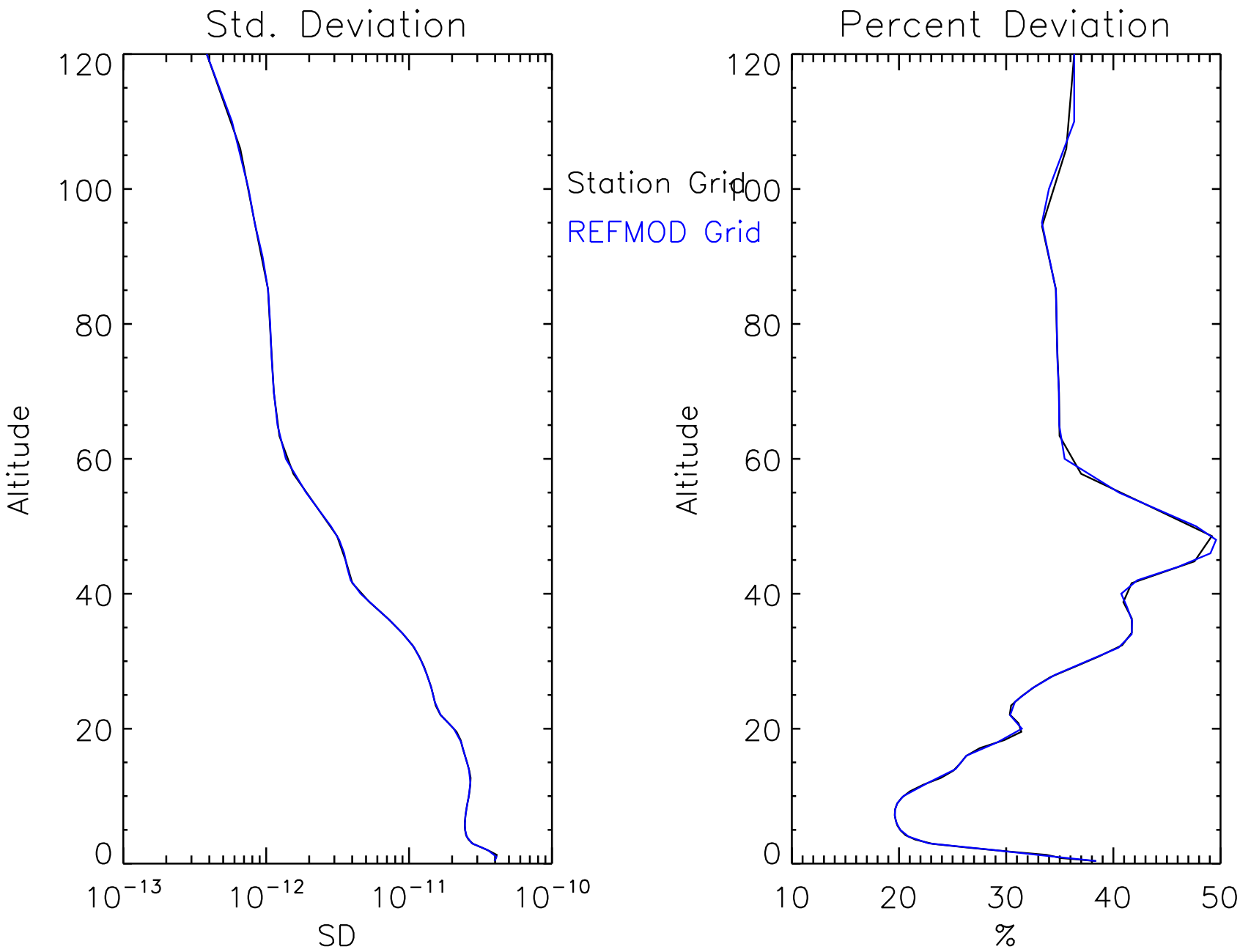

Initial & Interpolated profiles by month for : 2017
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

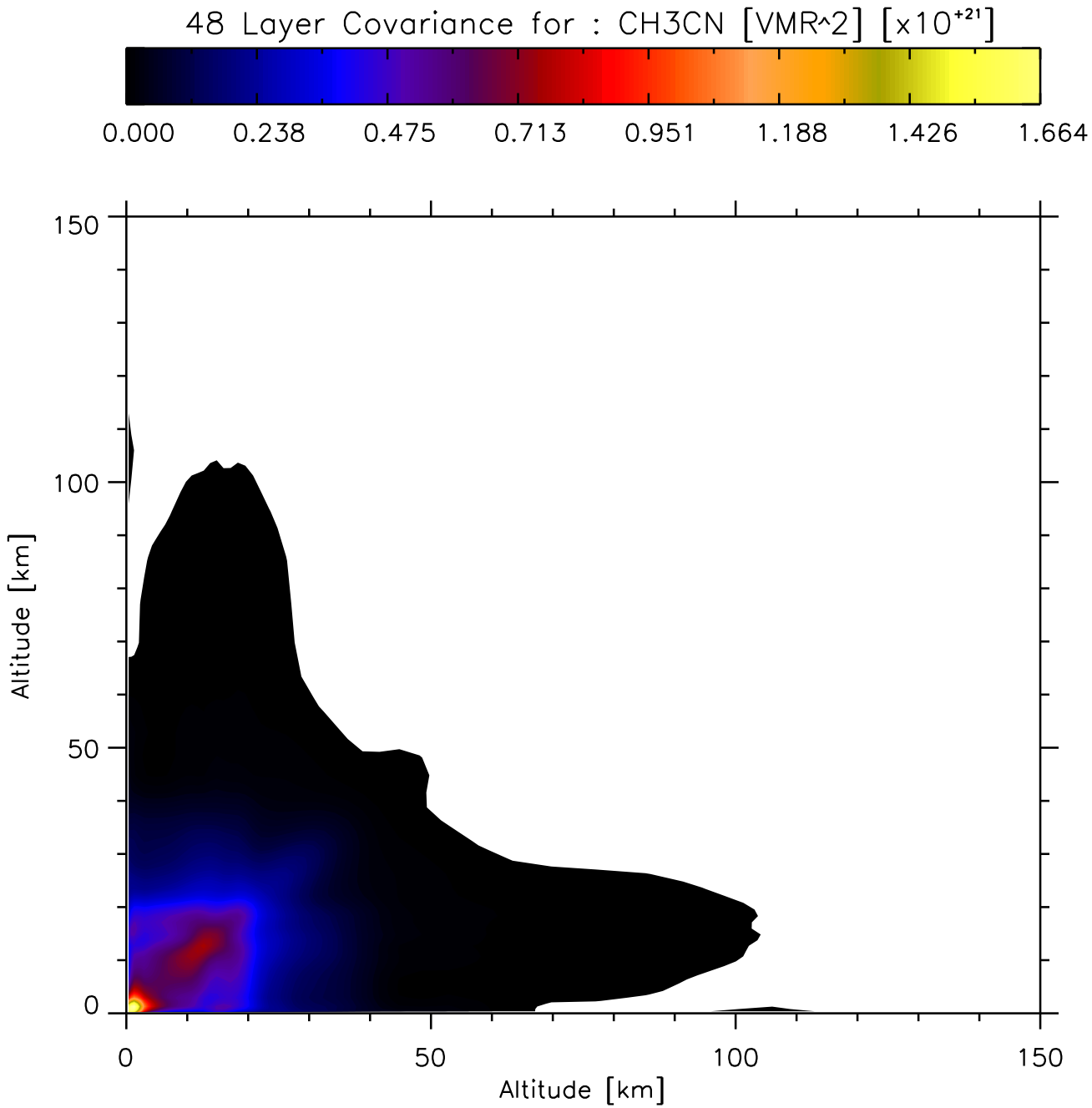

Initial & Interpolated profiles by month for : 2018
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

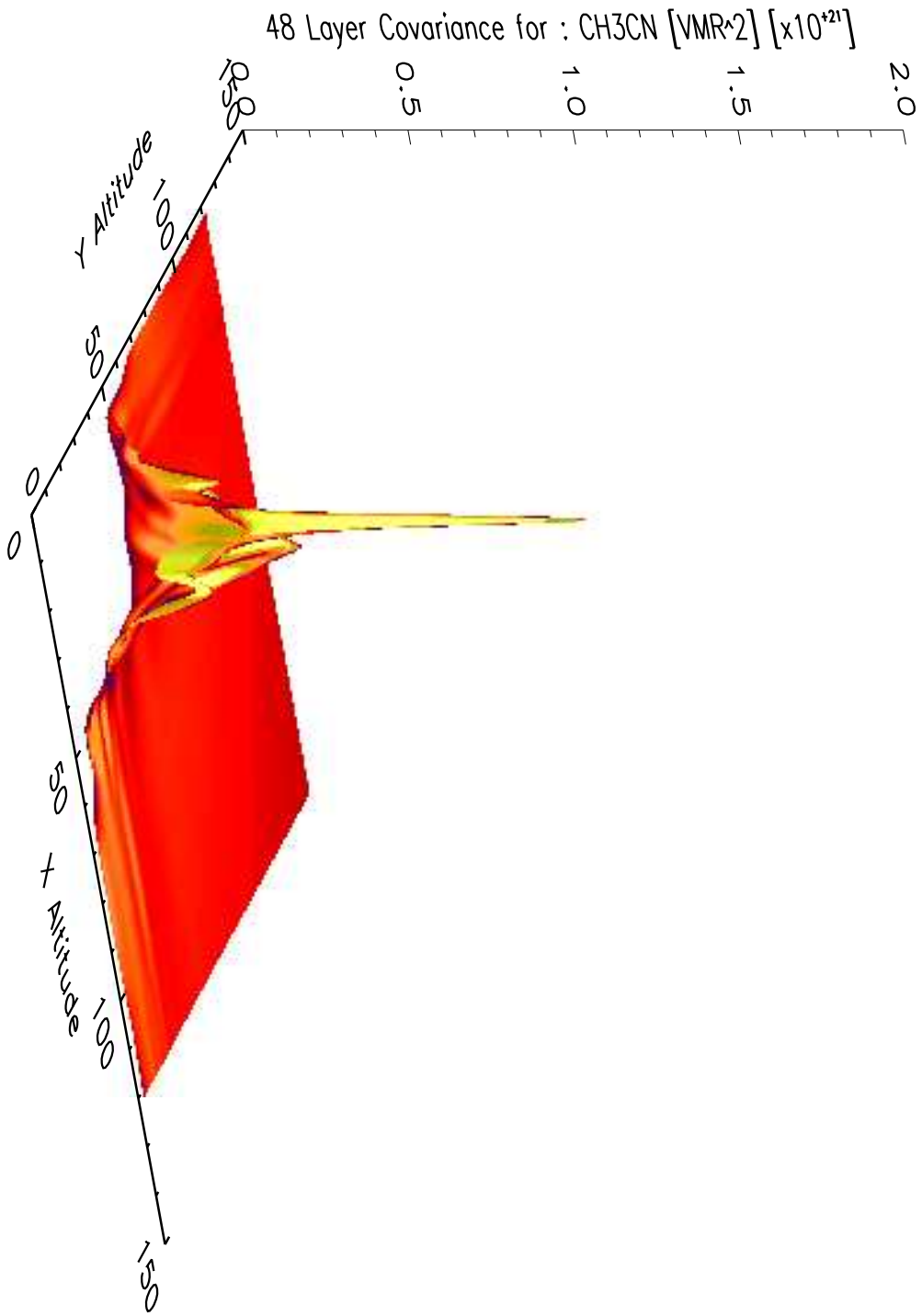

Initial & Interpolated profiles by month for : 2019
Rikubetsu 42.6N 145.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

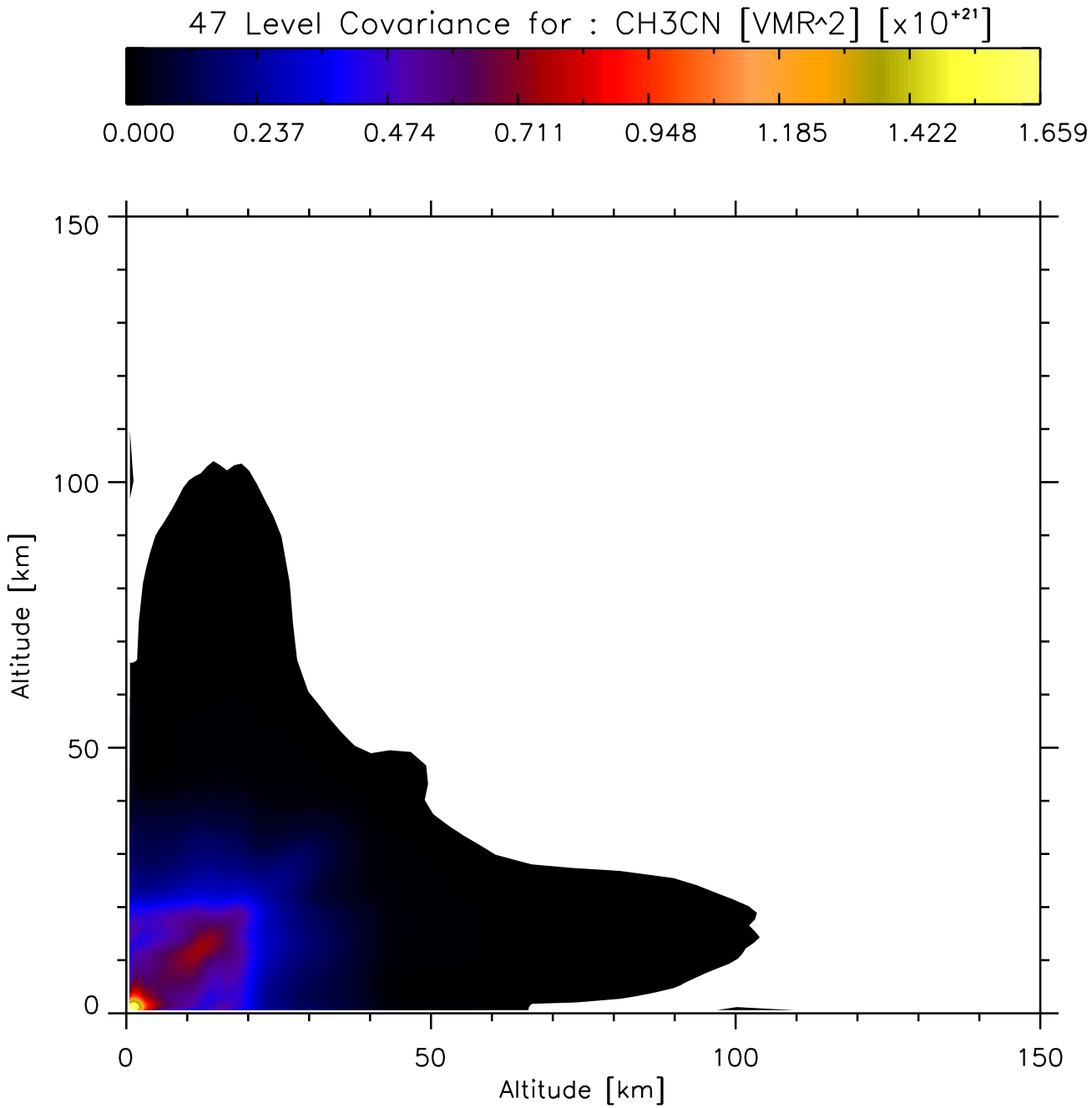

Initial & Interpolated profiles by month for : 2020
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

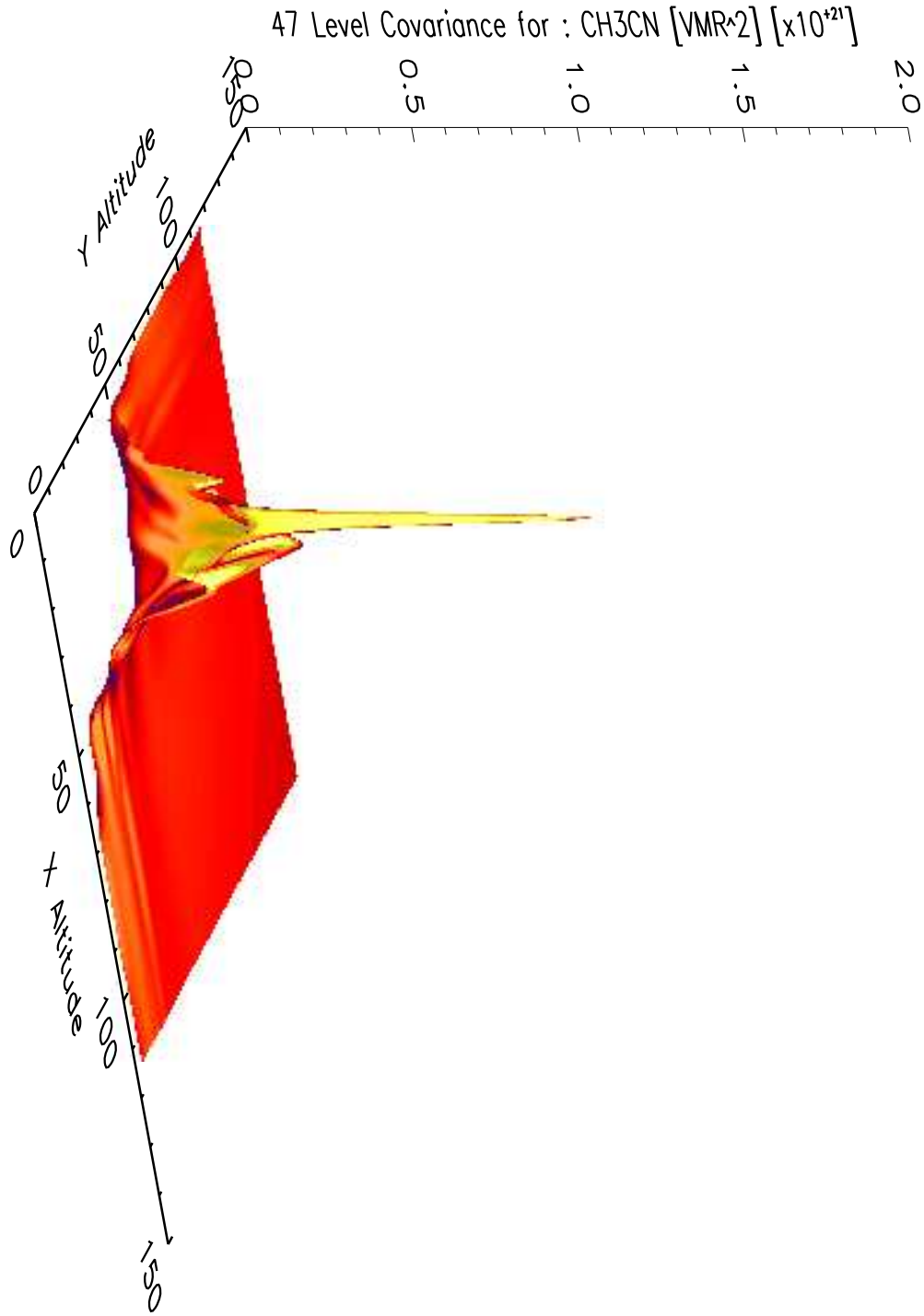

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-13}
10^{-12}
10^{-11}
10^{-10}
SD
10
20
30
40
50
%


48 Layer Covariance for : CH3CN [VMR^2] [x10^+21]
0.000
0.238
0.475
0.713
0.951
1.188
1.426
1.664
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : CH3CN [VMR^2] [x10^+21]
0.0
0.5
1.0
1.5
2.0
Y Altitude
100
50
0
0
50
X Altitude
100
150


47 Level Covariance for : CH3CN [VMR^2] [x10^+21]
0.000
0.237
0.474
0.711
0.948
1.185
1.422
1.659
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]



47 Level Covariance for : CH3CN [VMR^2] [x10^+21]
0.0
0.5
1.0
1.5
2.0
Y Altitude
150
100
50
0
X Altitude
0
50
100
150