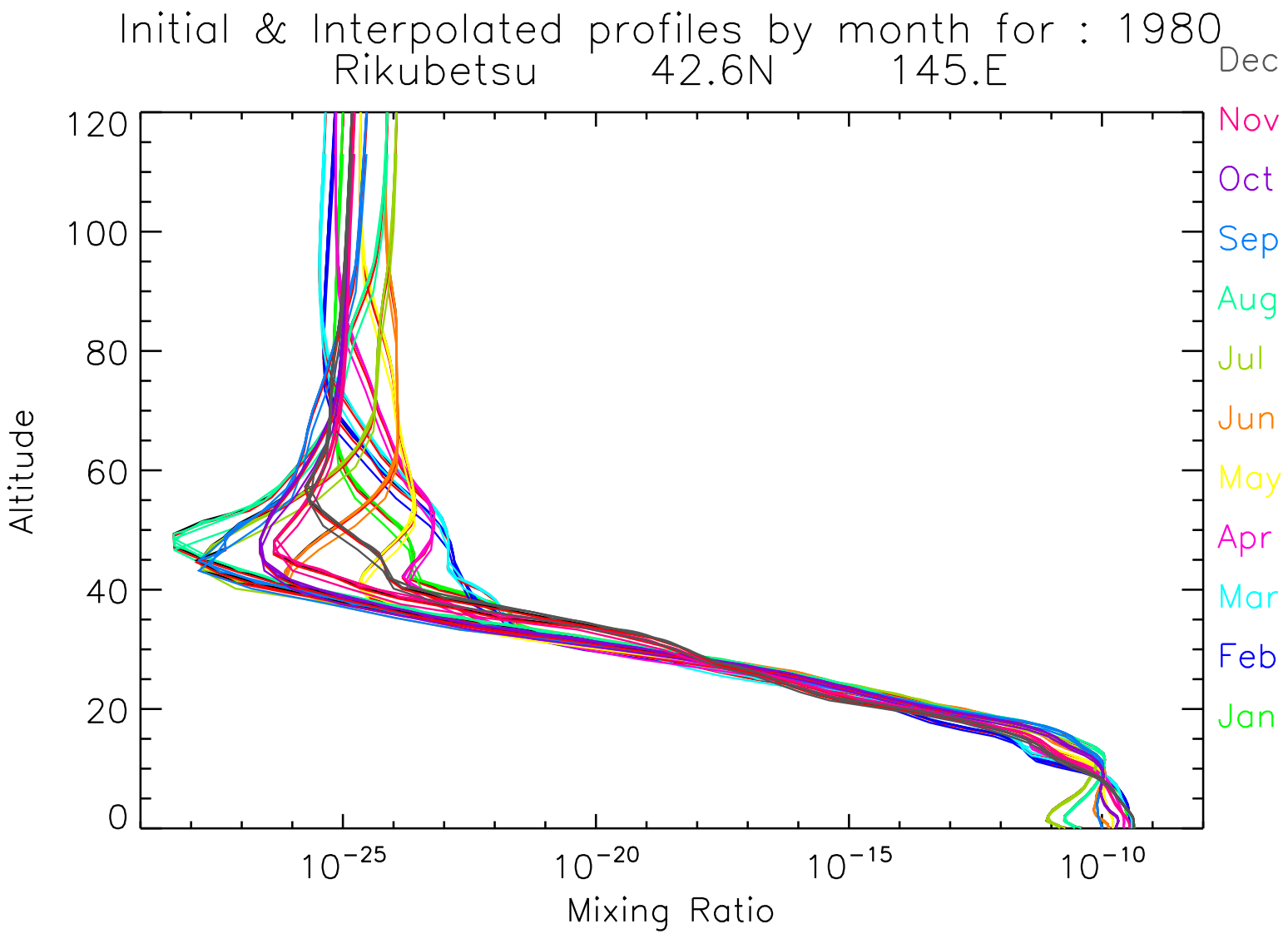
Initial & Interpolated profiles by month for : 1980
Rikubetsu 42.6N 145.E
Dec
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0
Altitude
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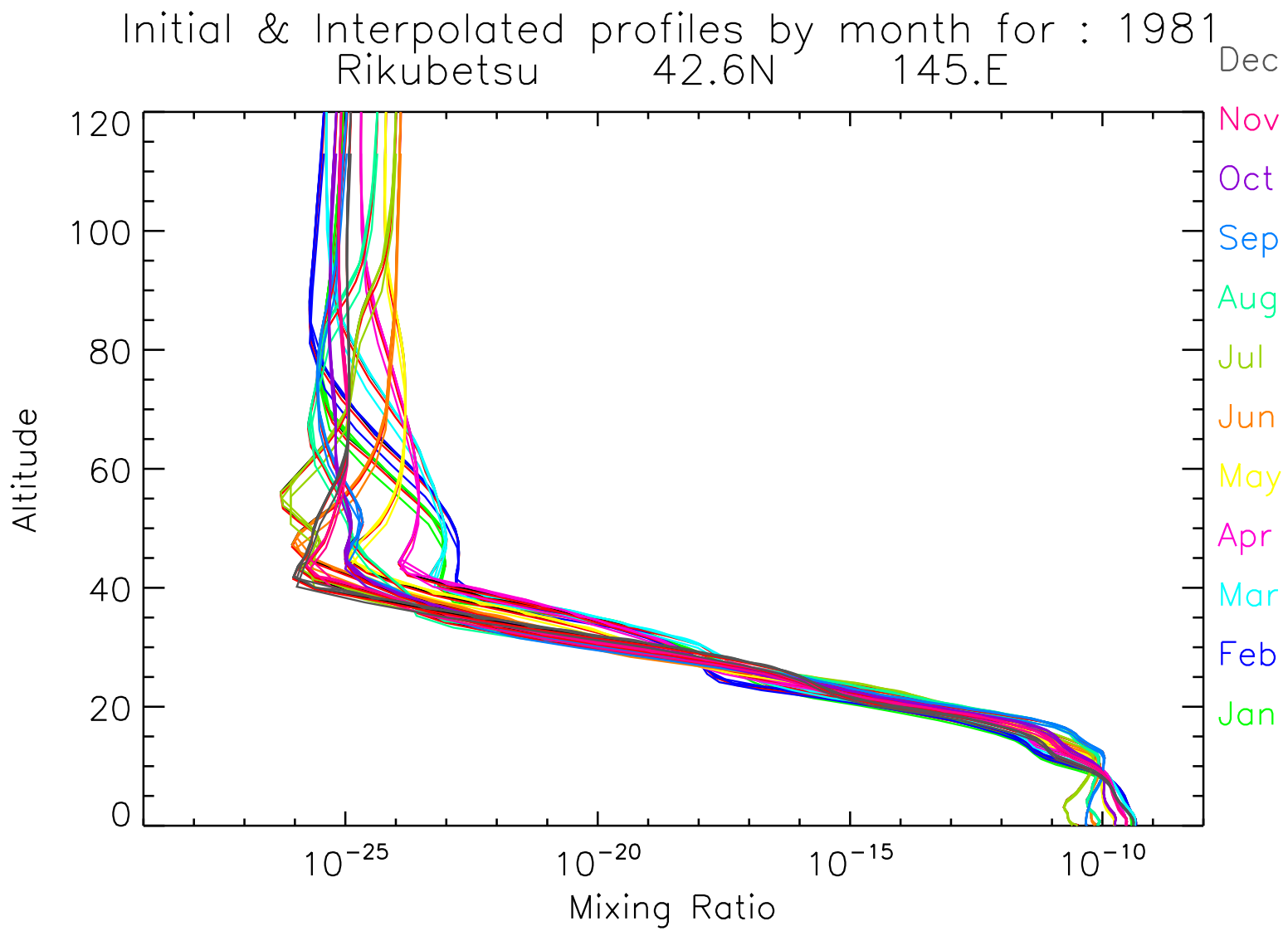
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Rikubetsu 42.6N 145.E
Dec
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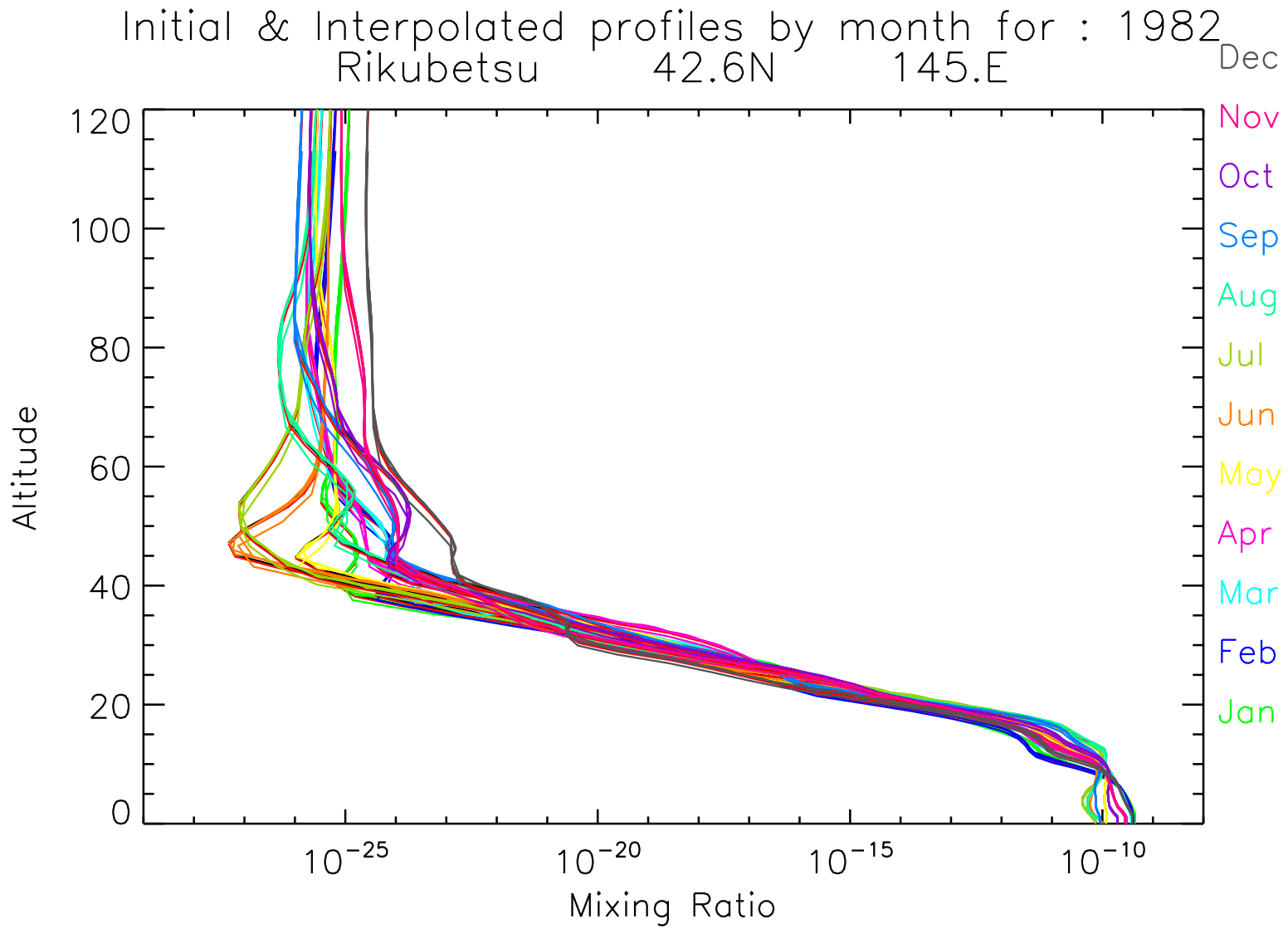
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Rikubetsu 42.6N 145.E
Dec
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Altitude
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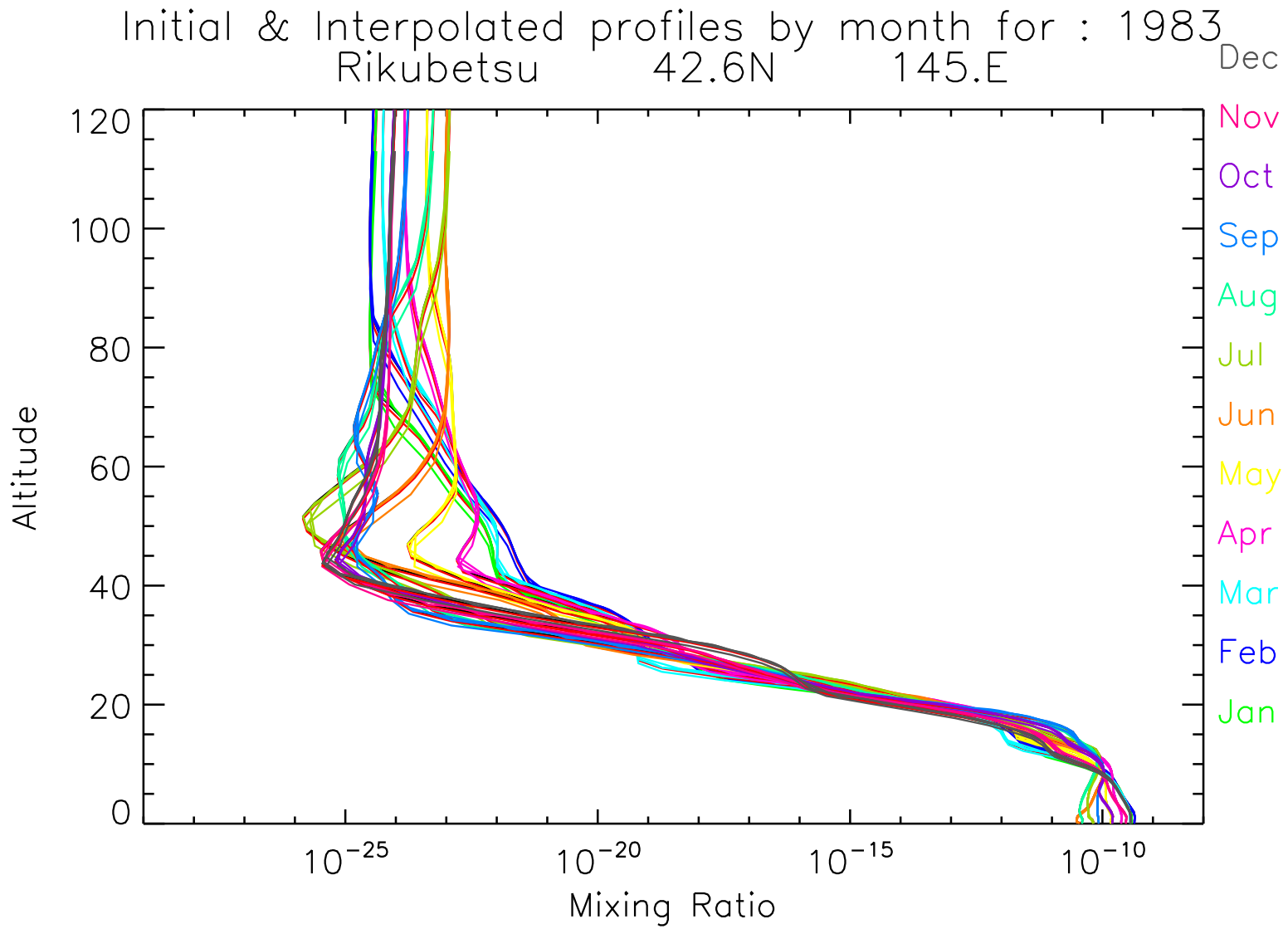
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Rikubetsu 42.6N 145.E
Dec
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Altitude
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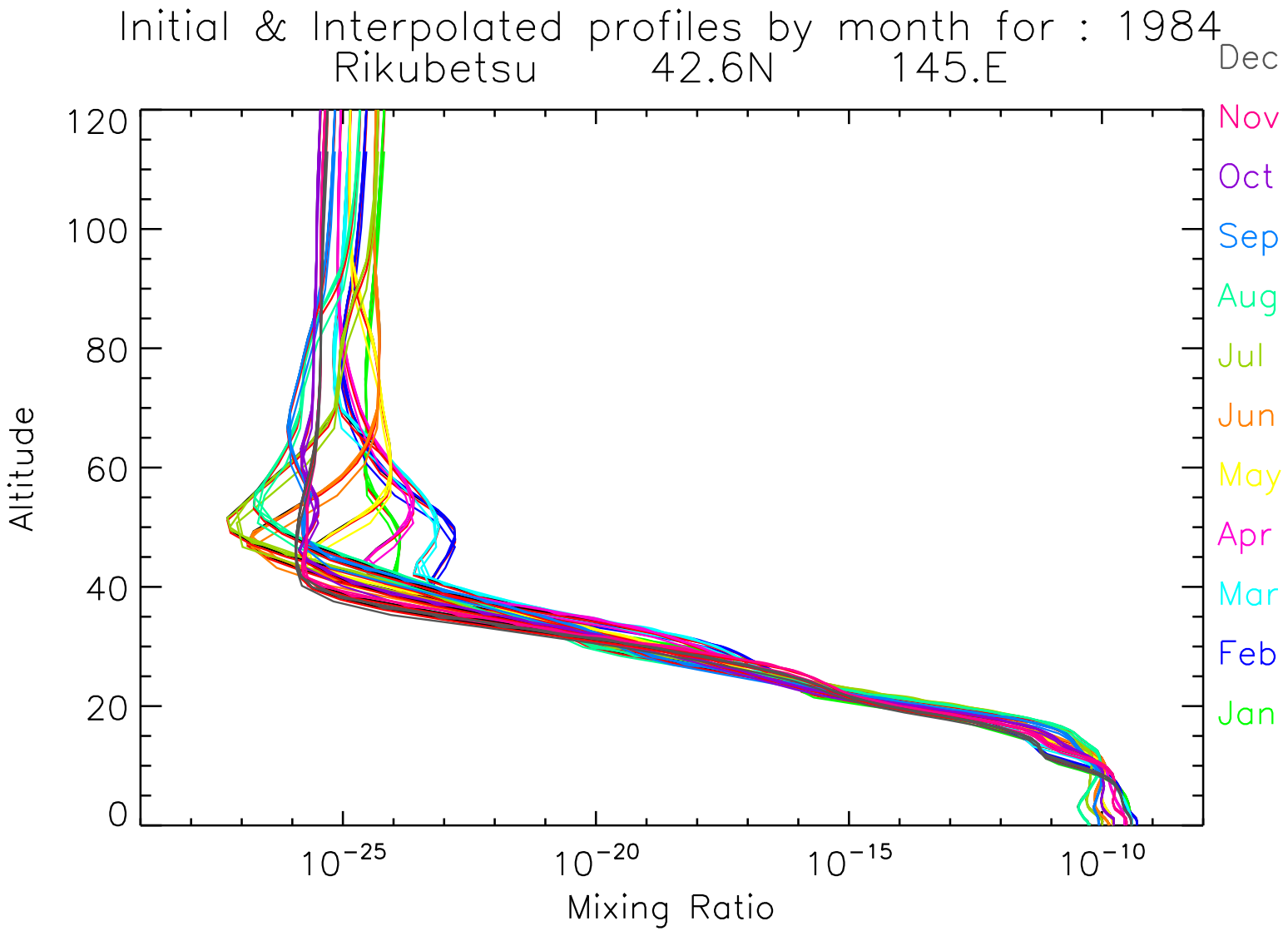
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Rikubetsu 42.6N 145.E
Dec
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Altitude
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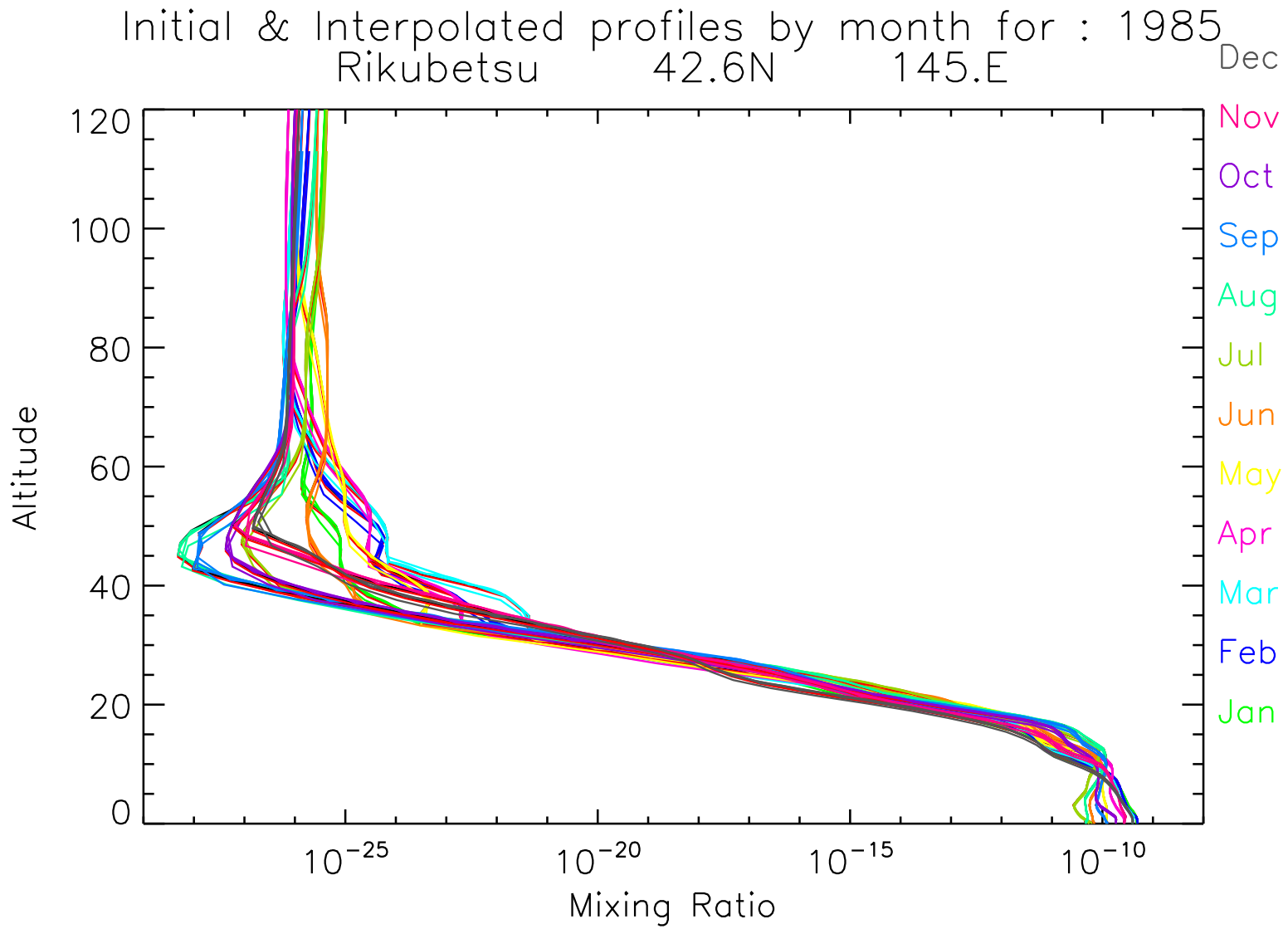
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Rikubetsu 42.6N 145.E
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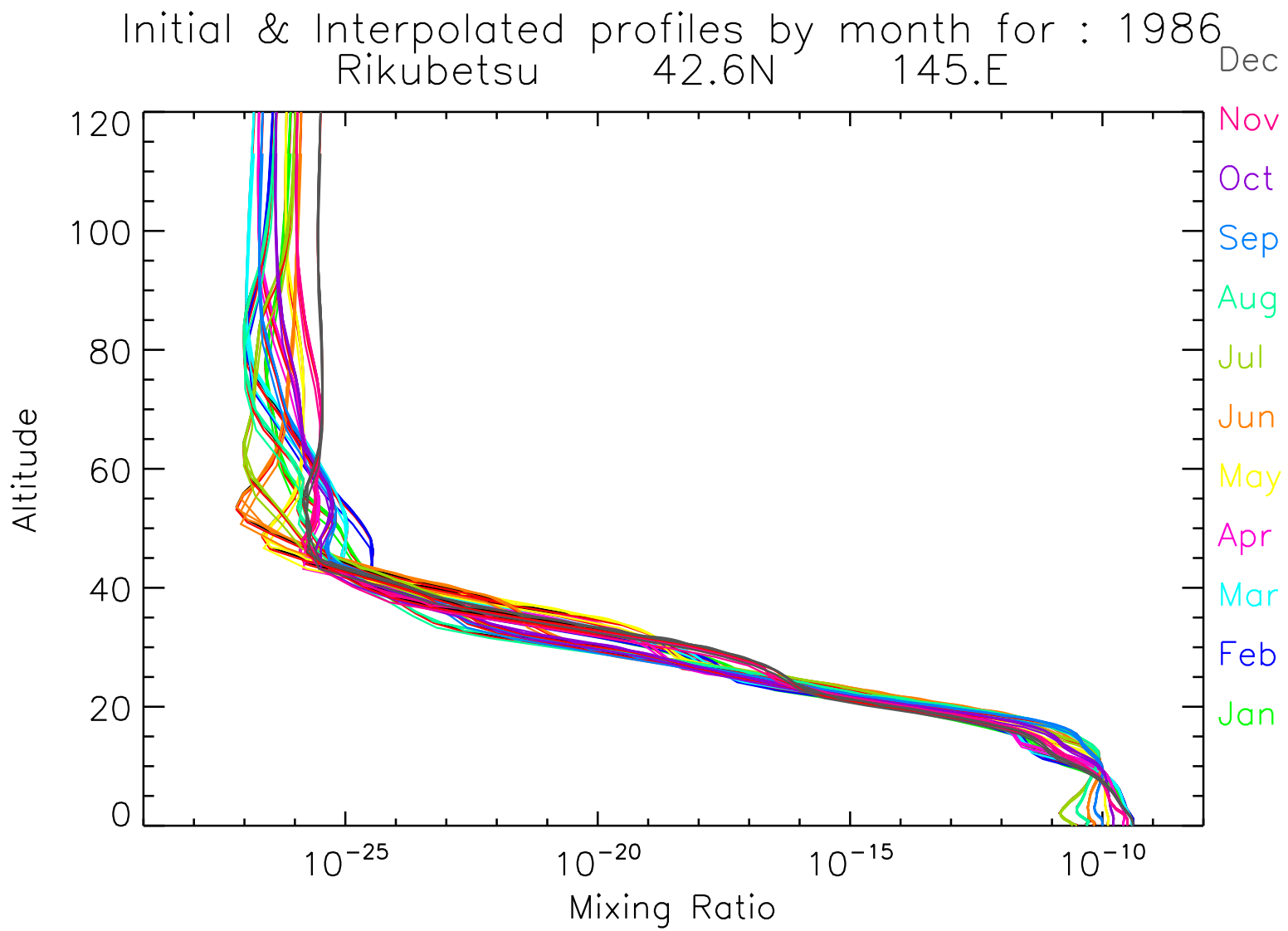
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Rikubetsu 42.6N 145.E
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Altitude
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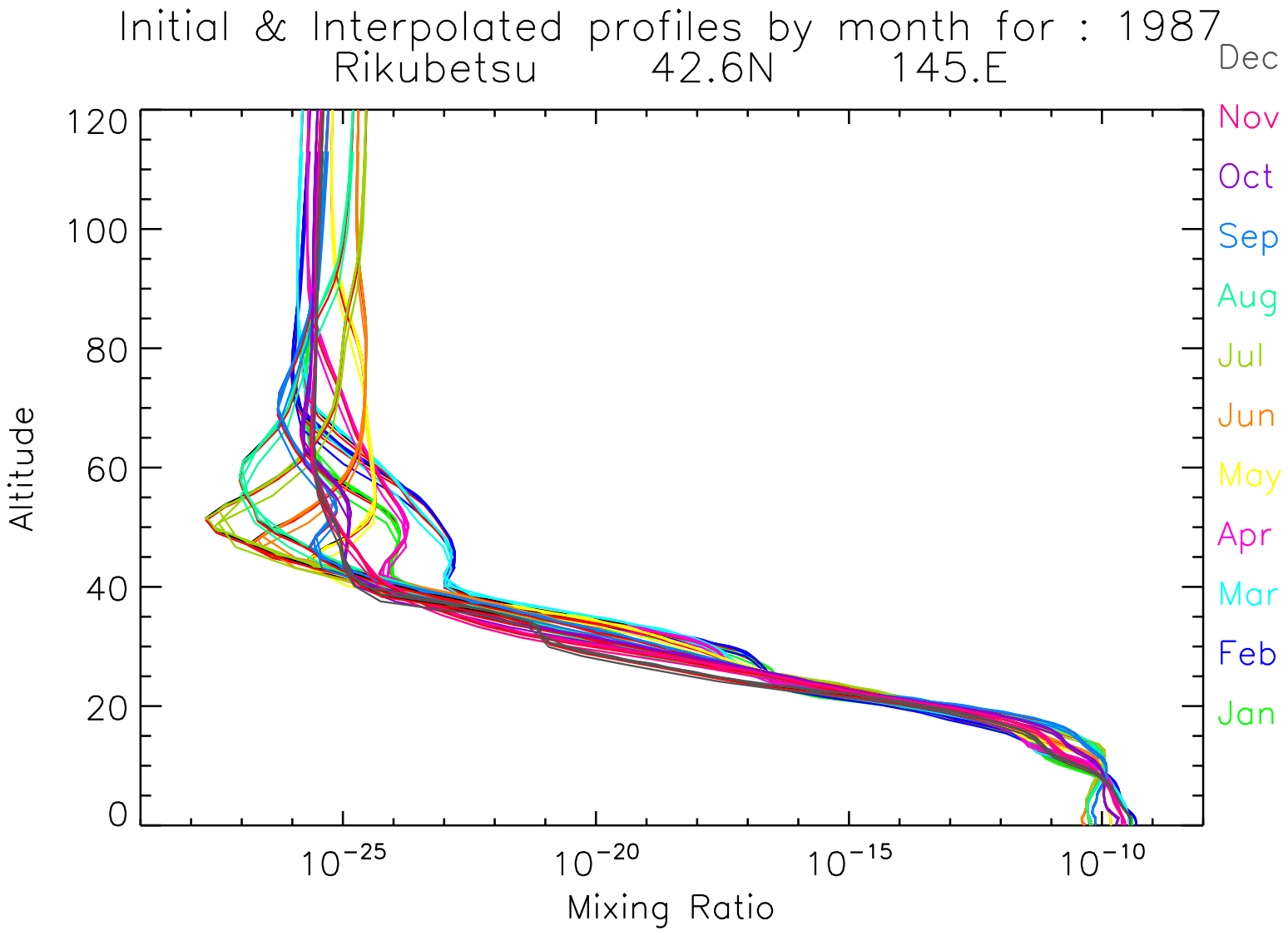
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Rikubetsu 42.6N 145.E
Dec
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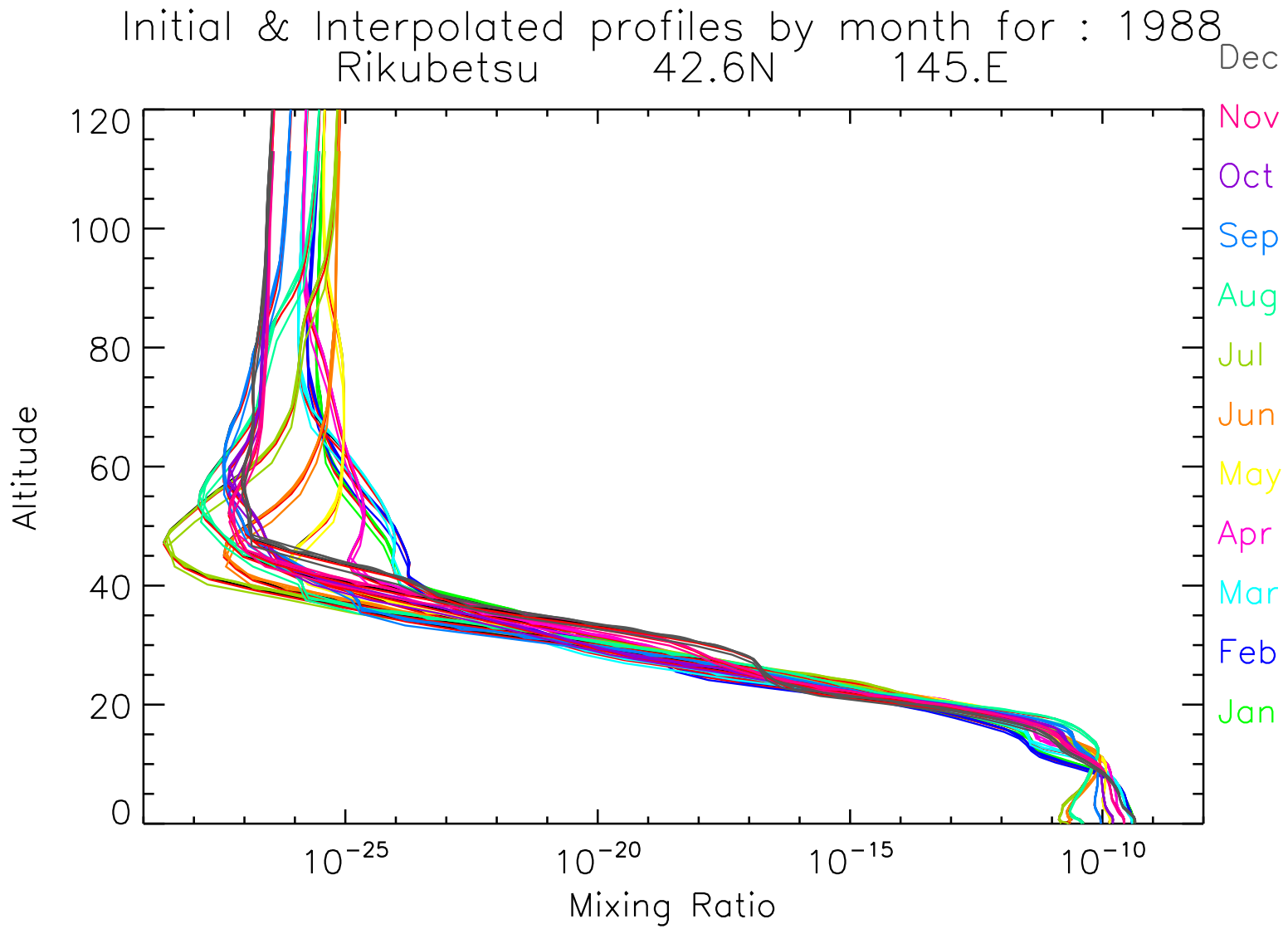
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Rikubetsu 42.6N 145.E
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Altitude
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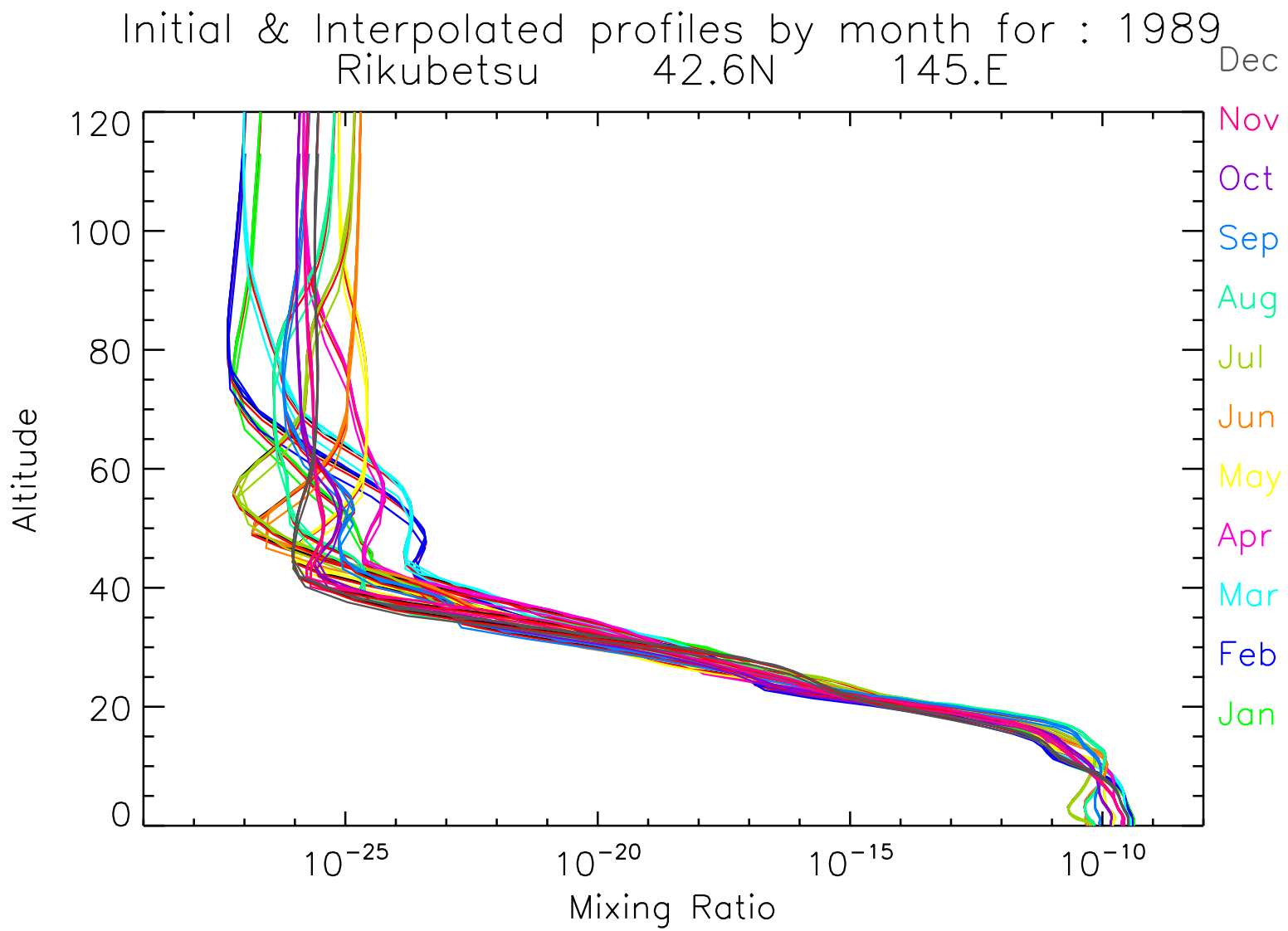
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Rikubetsu 42.6N 145.E
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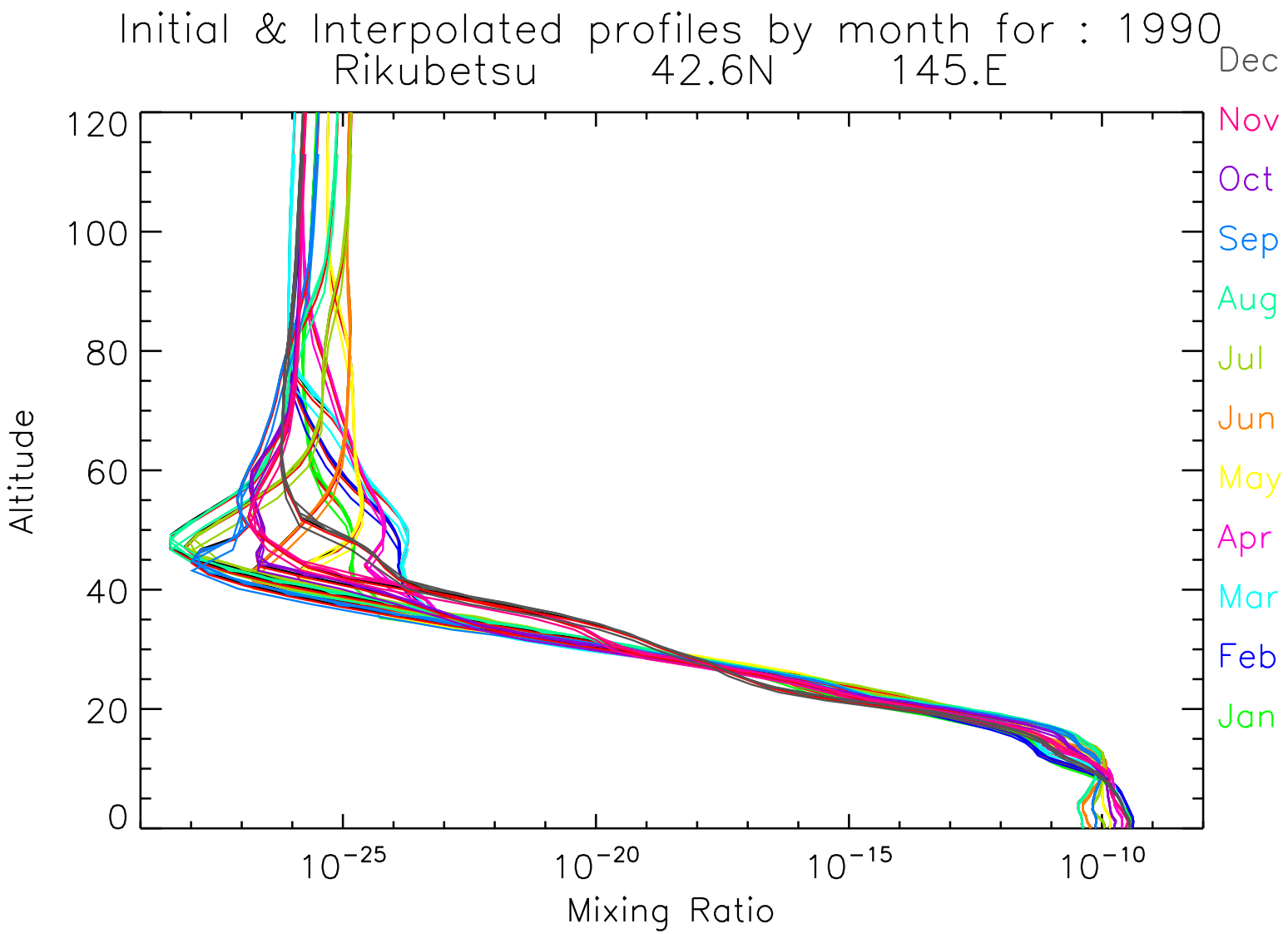
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Rikubetsu 42.6N 145.E
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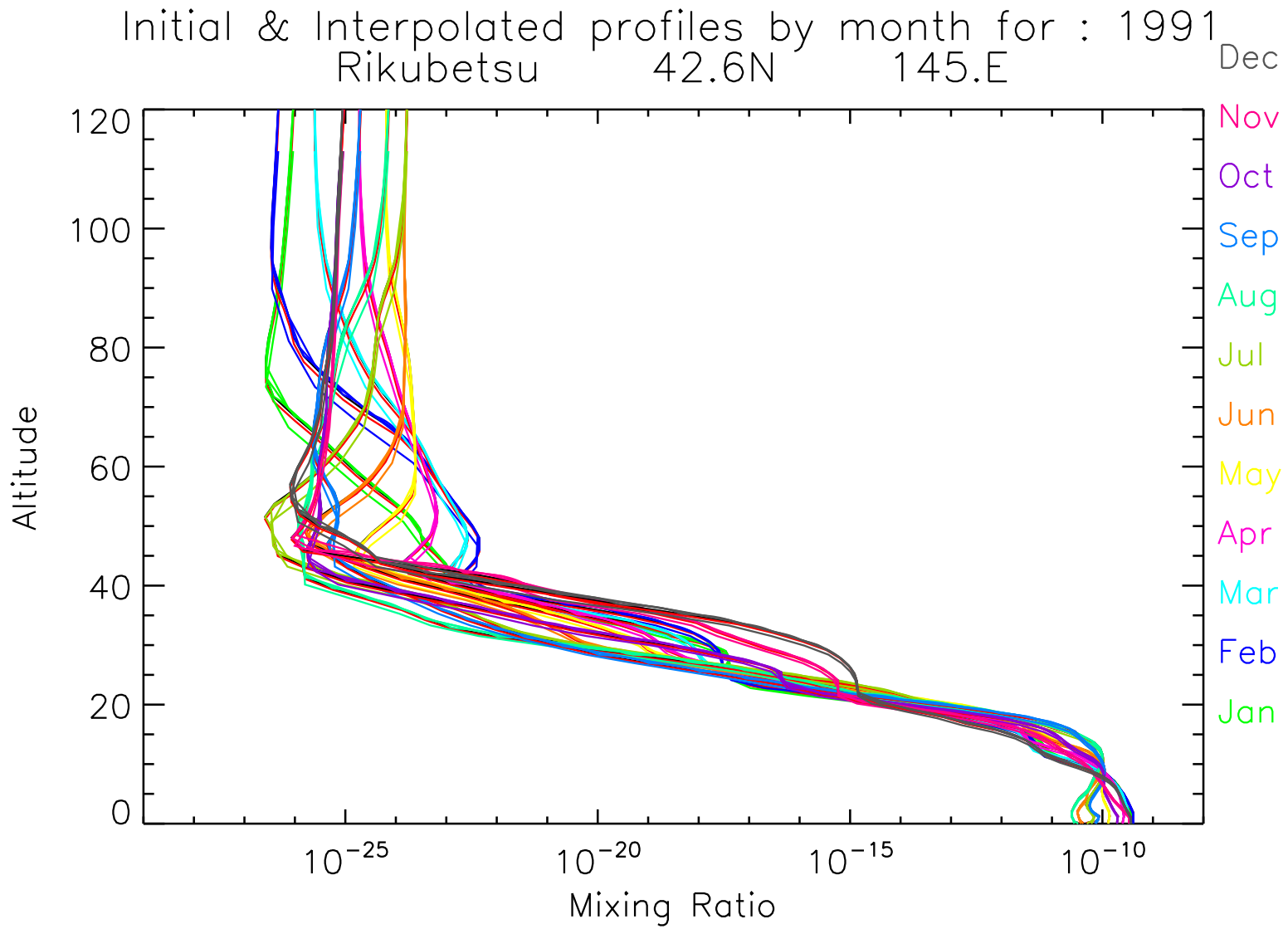
10^{-10}
Mixing Ratio


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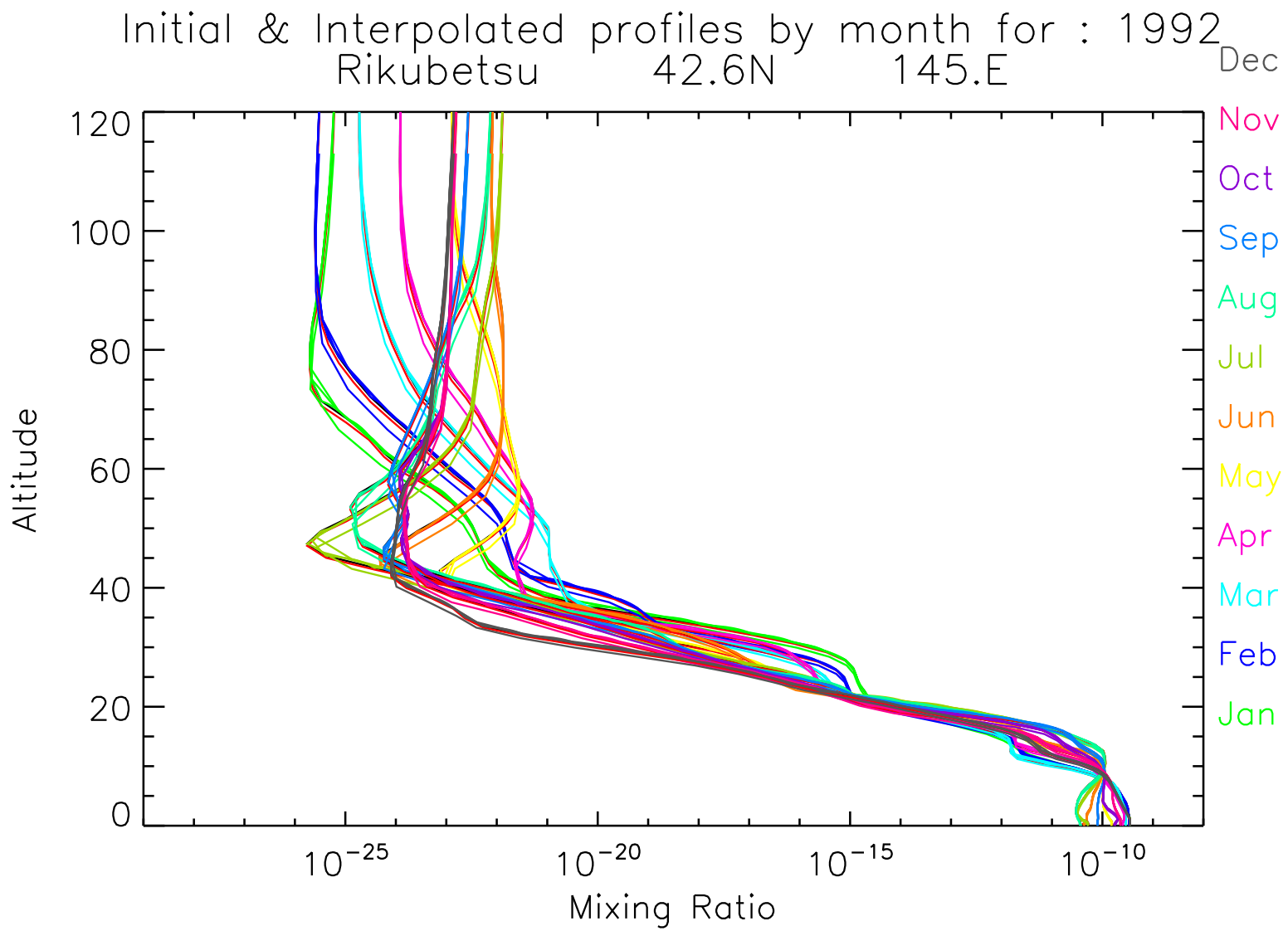
Mixing Ratio


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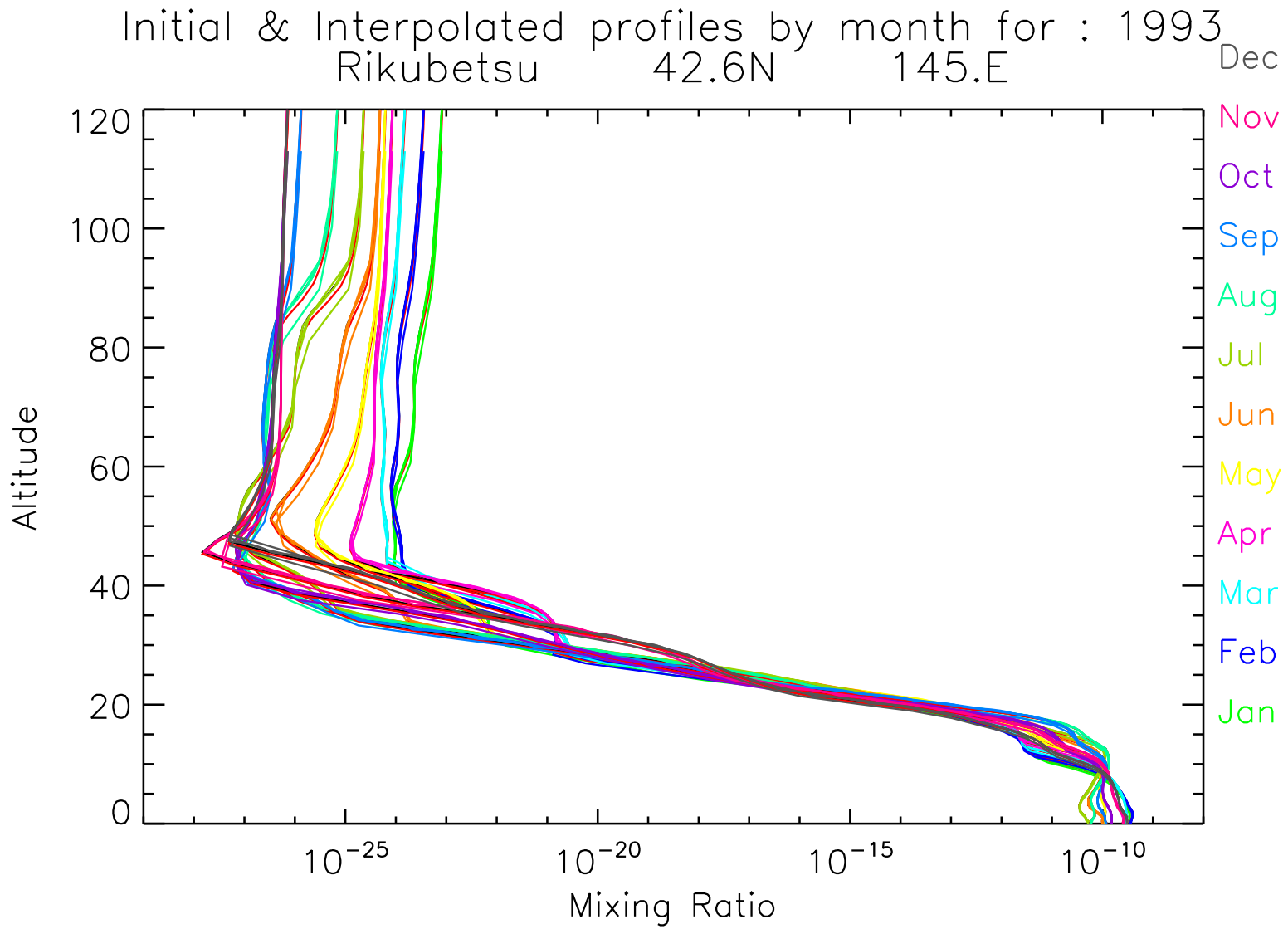
Mixing Ratio


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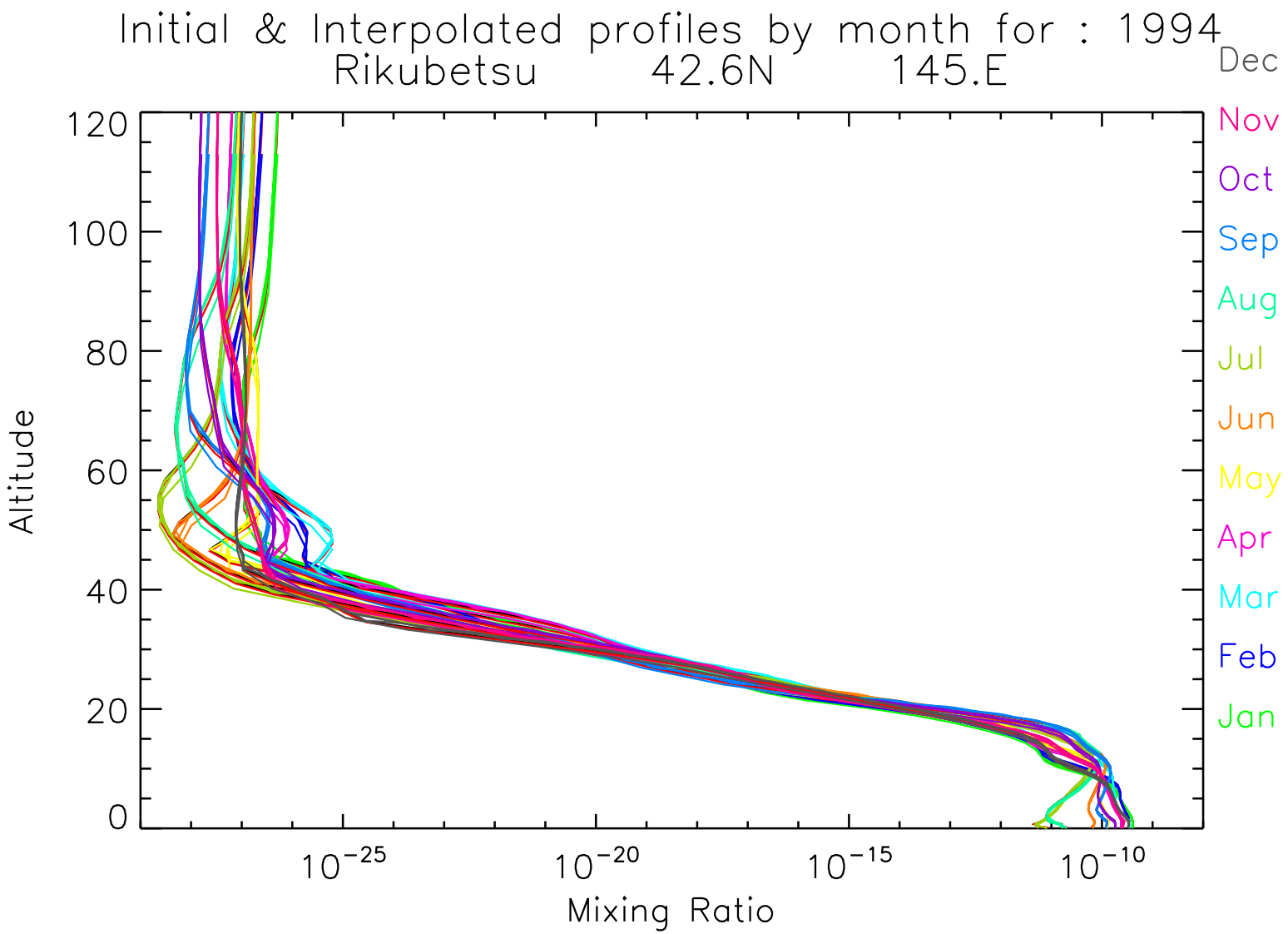
10^{-10}
Mixing Ratio


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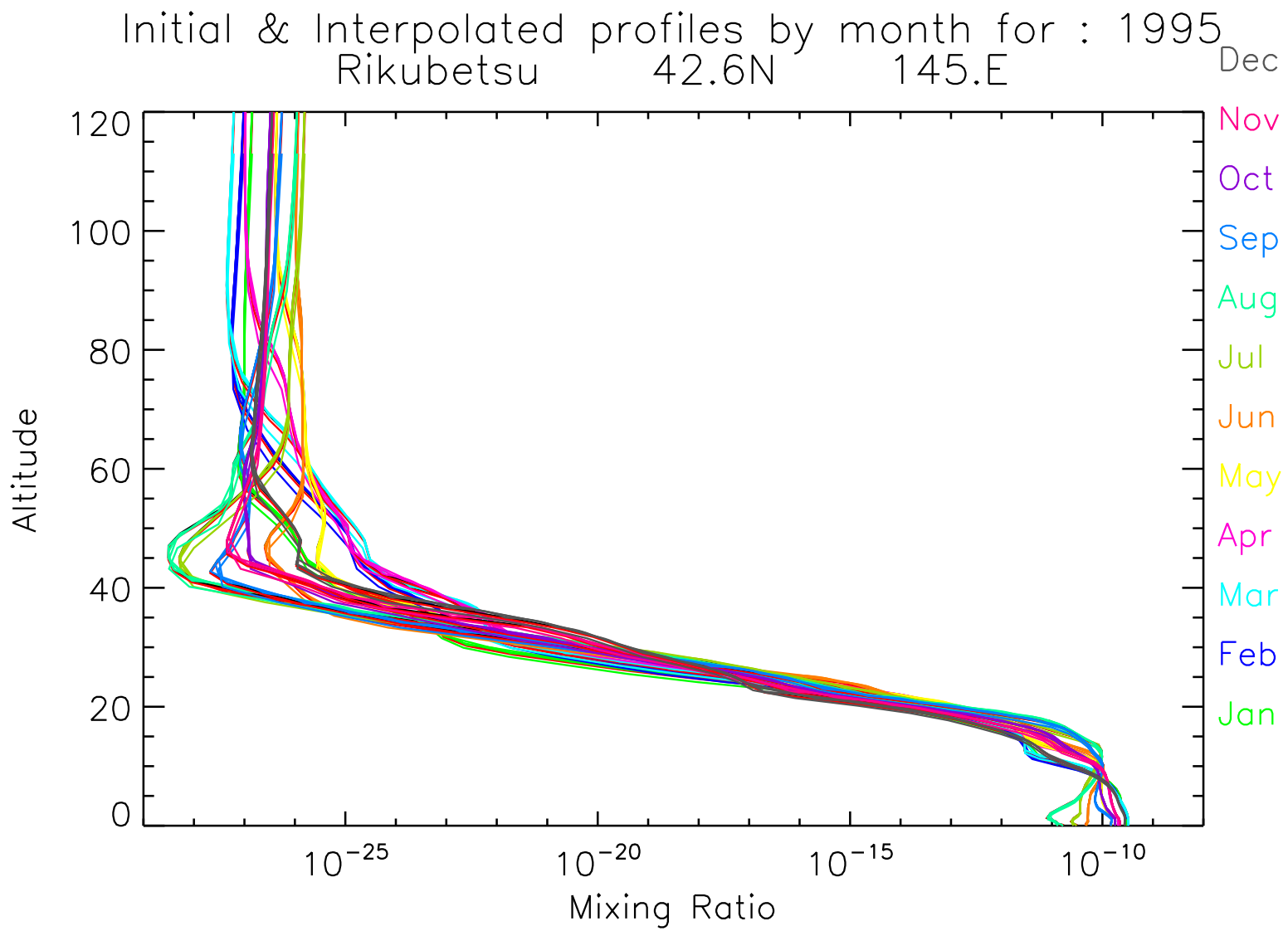
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Rikubetsu 42.6N 145.E
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Altitude
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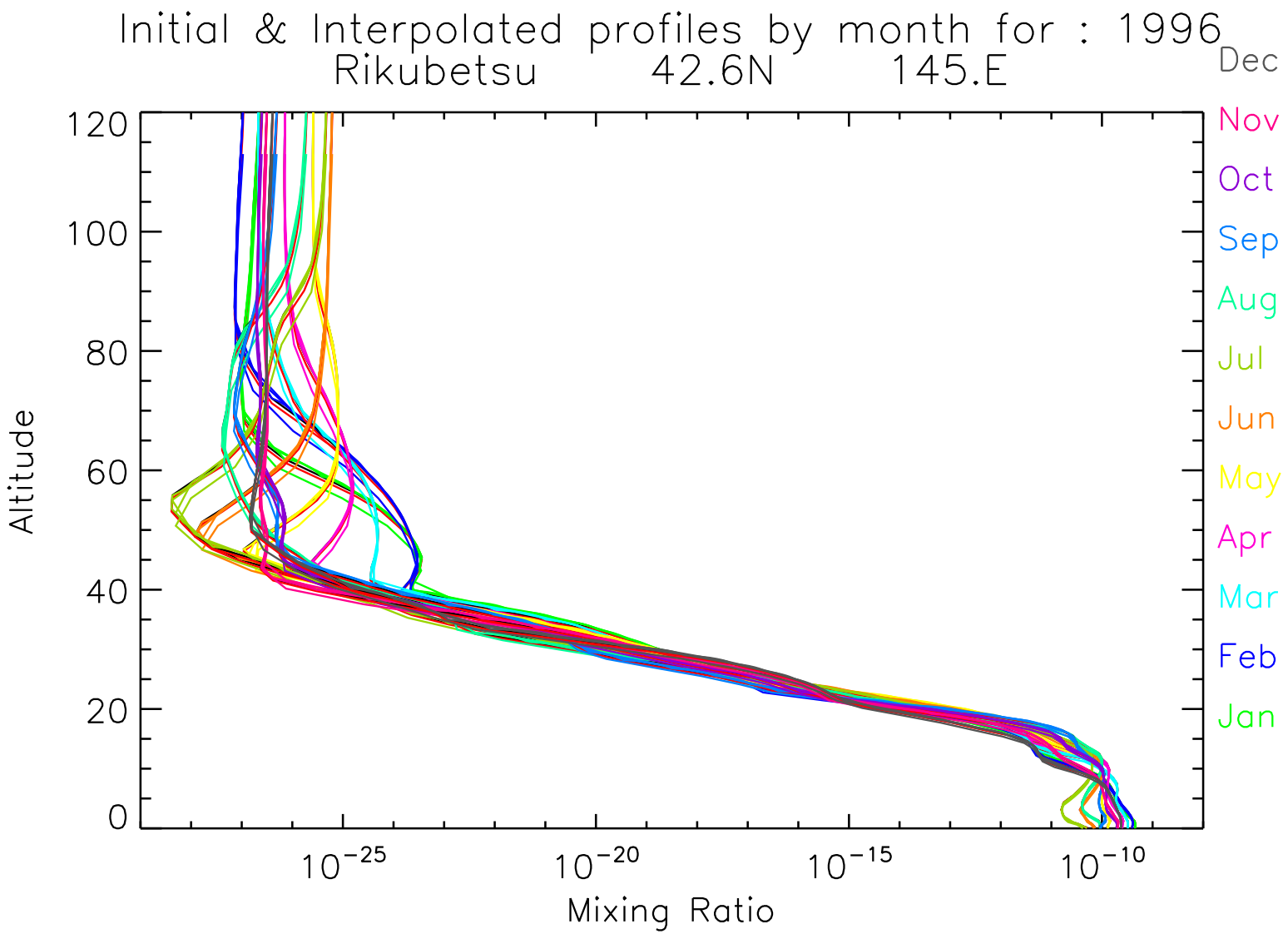
10^{-10}
Mixing Ratio


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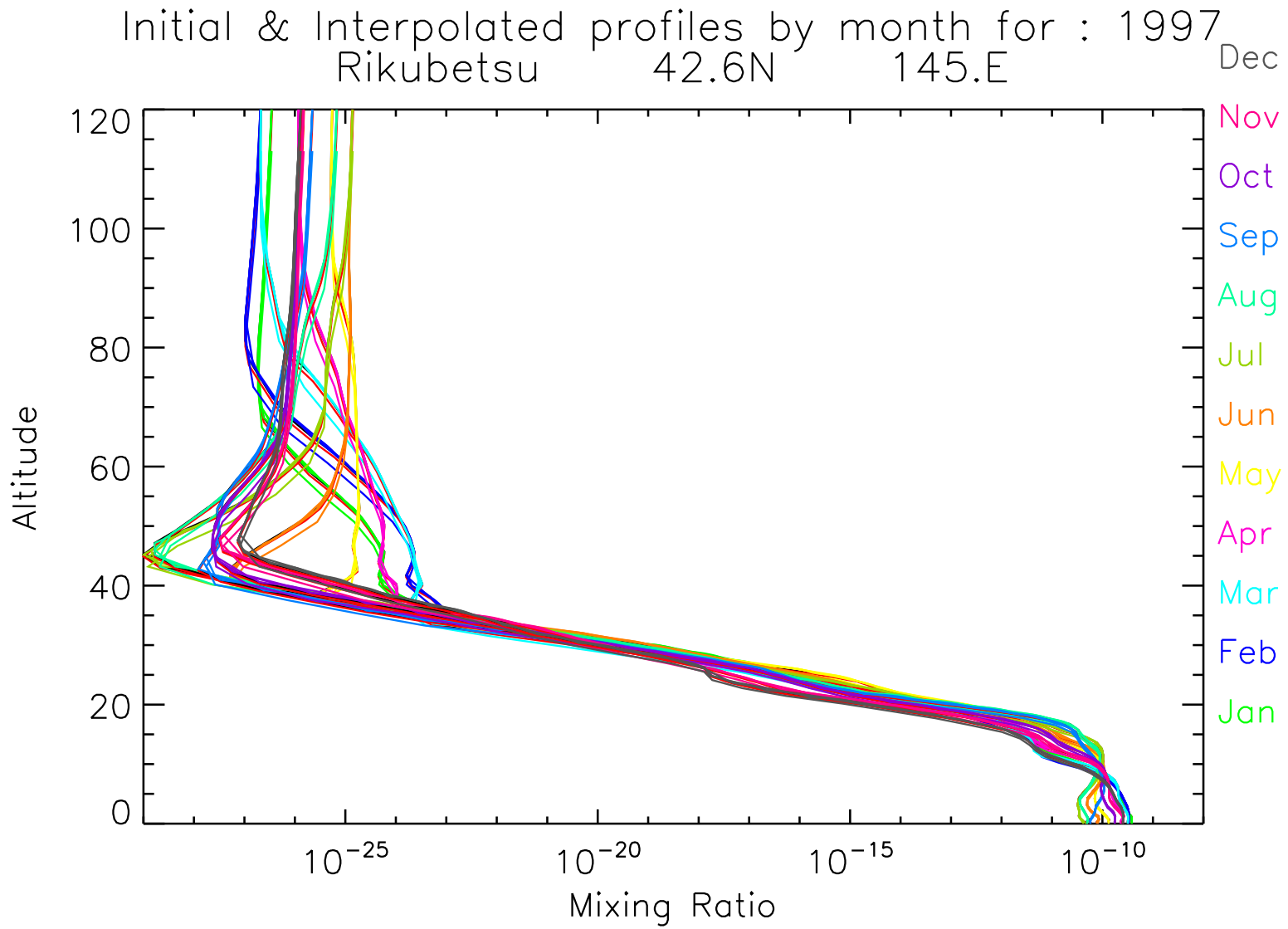
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Rikubetsu 42.6N 145.E
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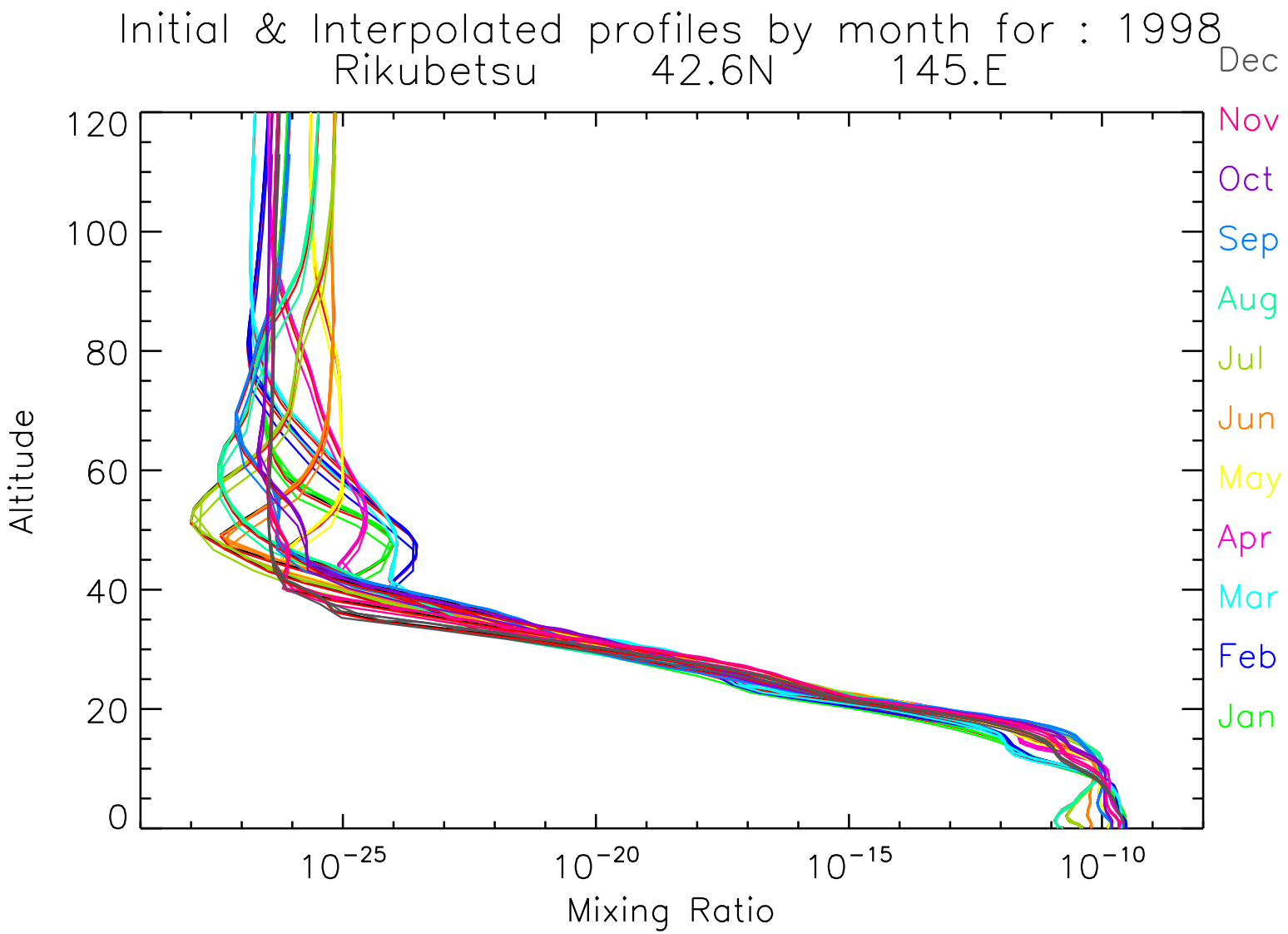
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Rikubetsu 42.6N 145.E
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Altitude
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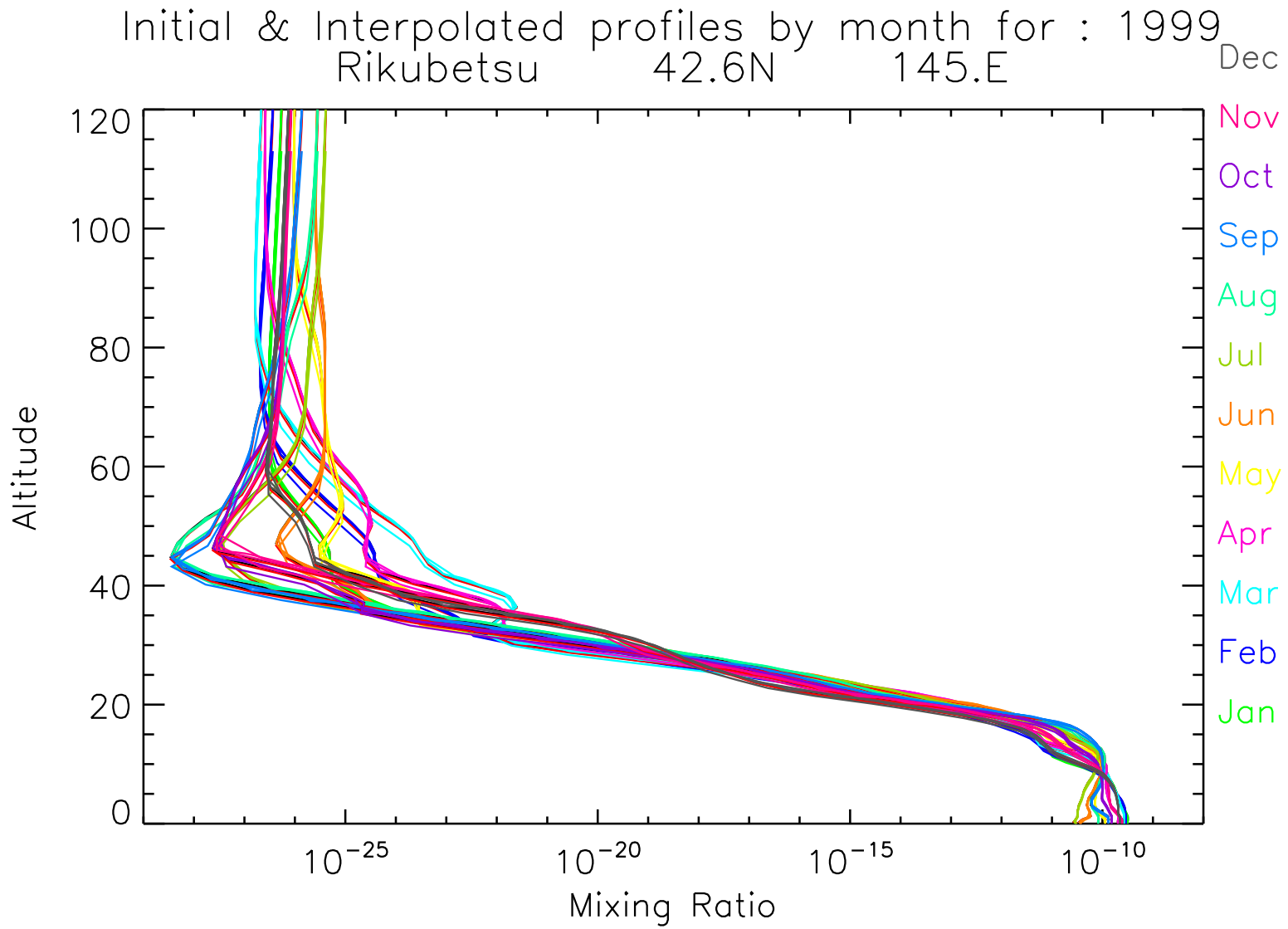
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Rikubetsu 42.6N 145.E
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Altitude
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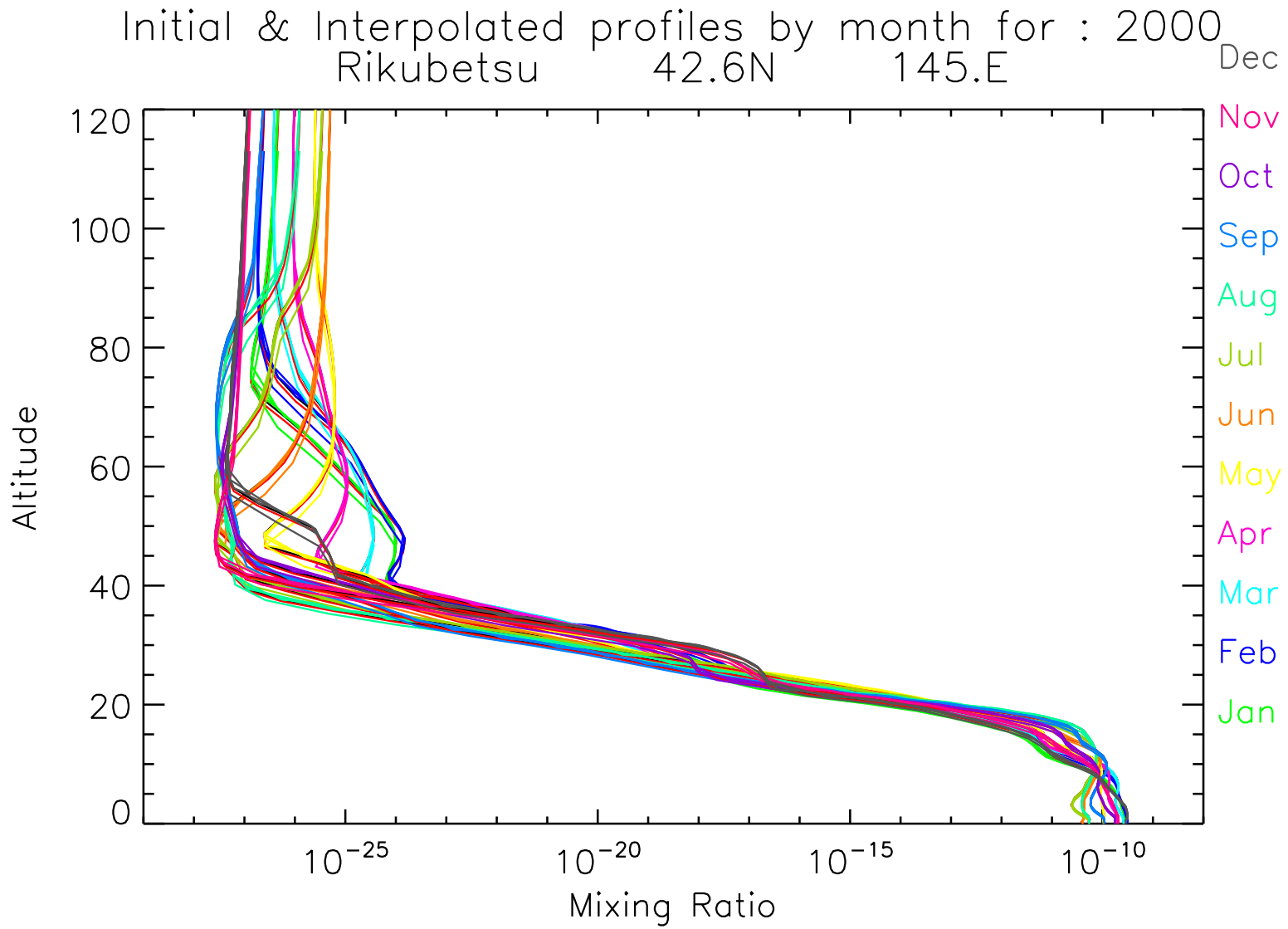
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Rikubetsu 42.6N 145.E
Dec
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Altitude
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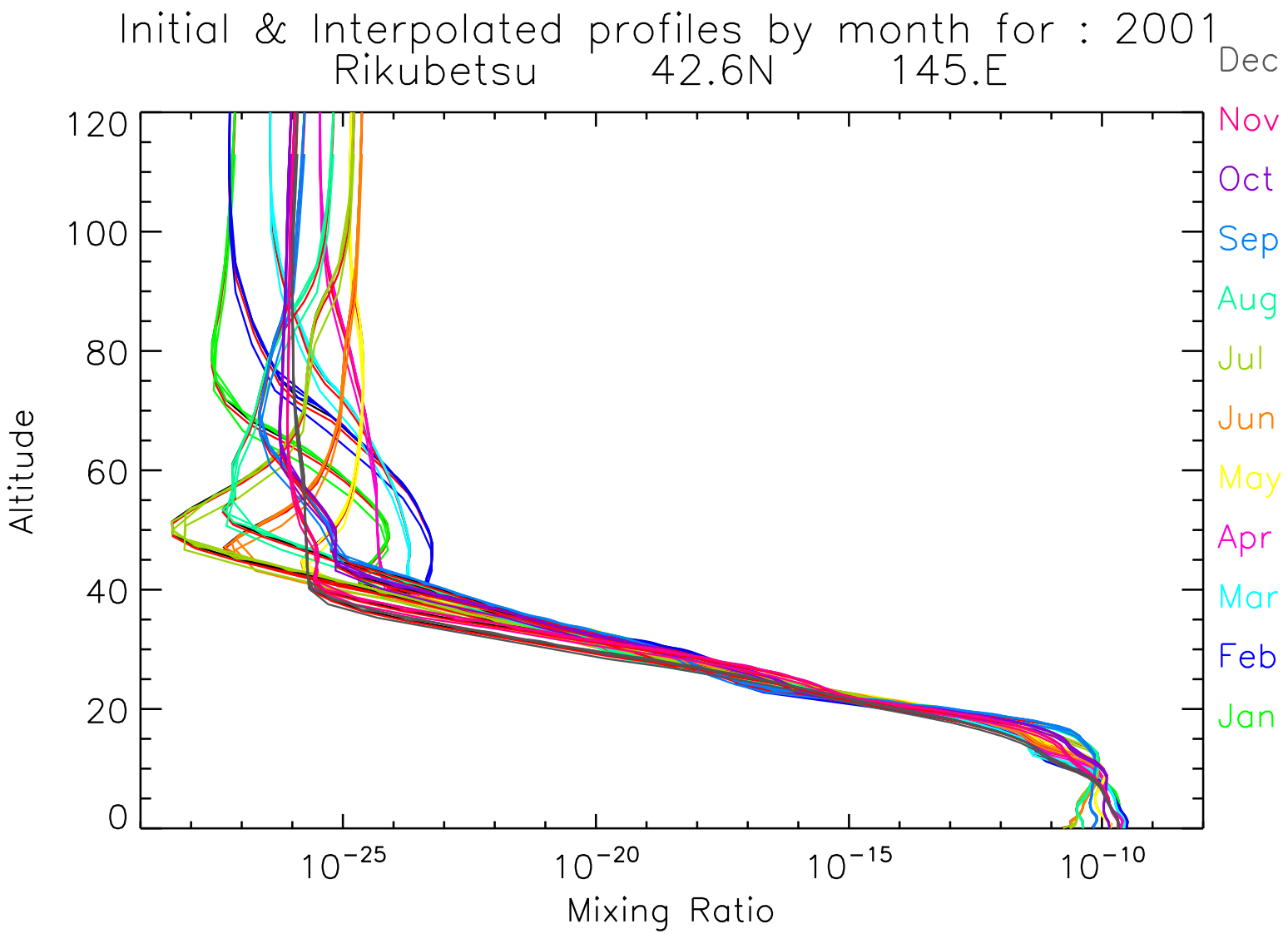
10^{-10}
Mixing Ratio


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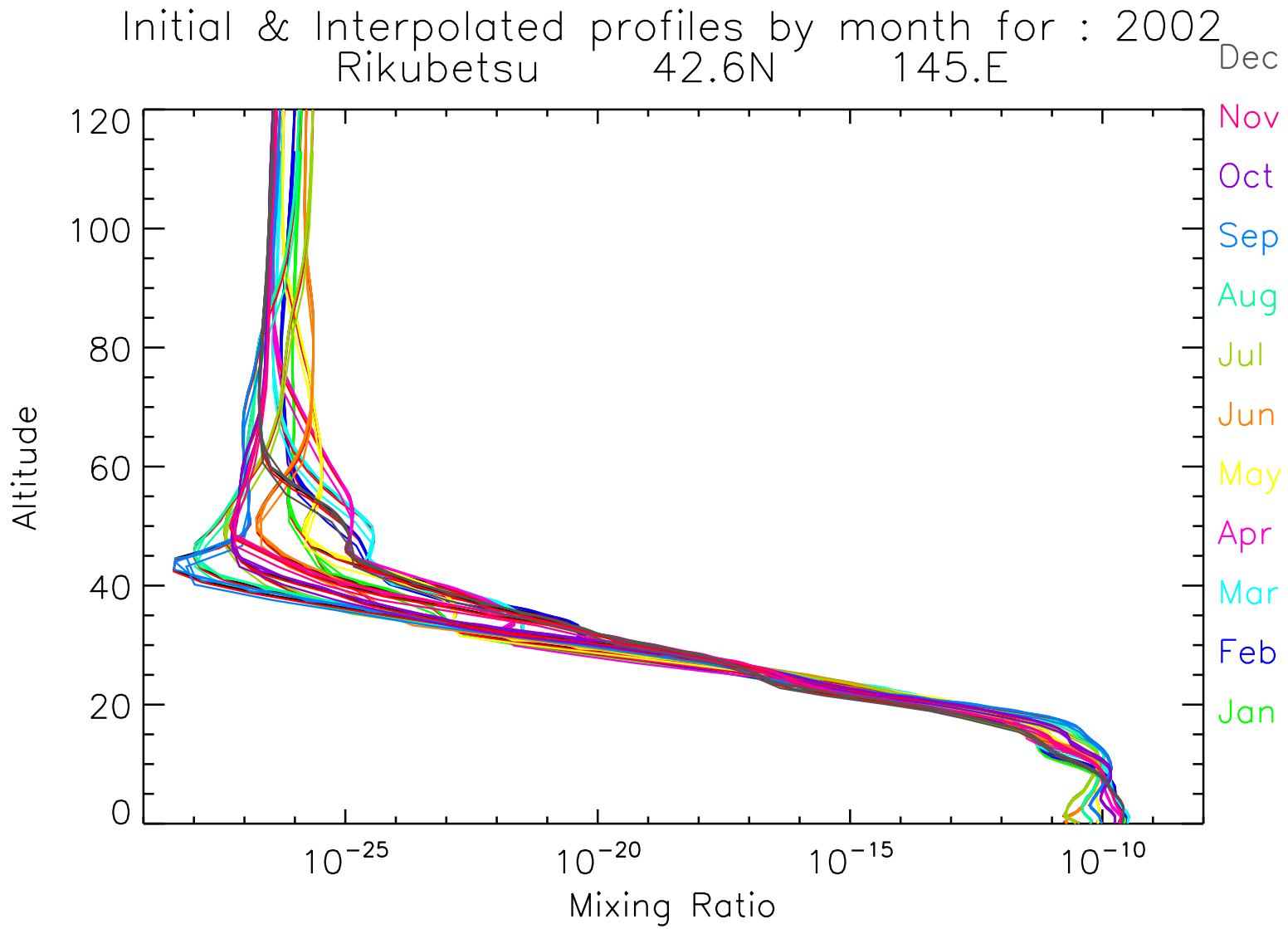
10^{-10}
Mixing Ratio


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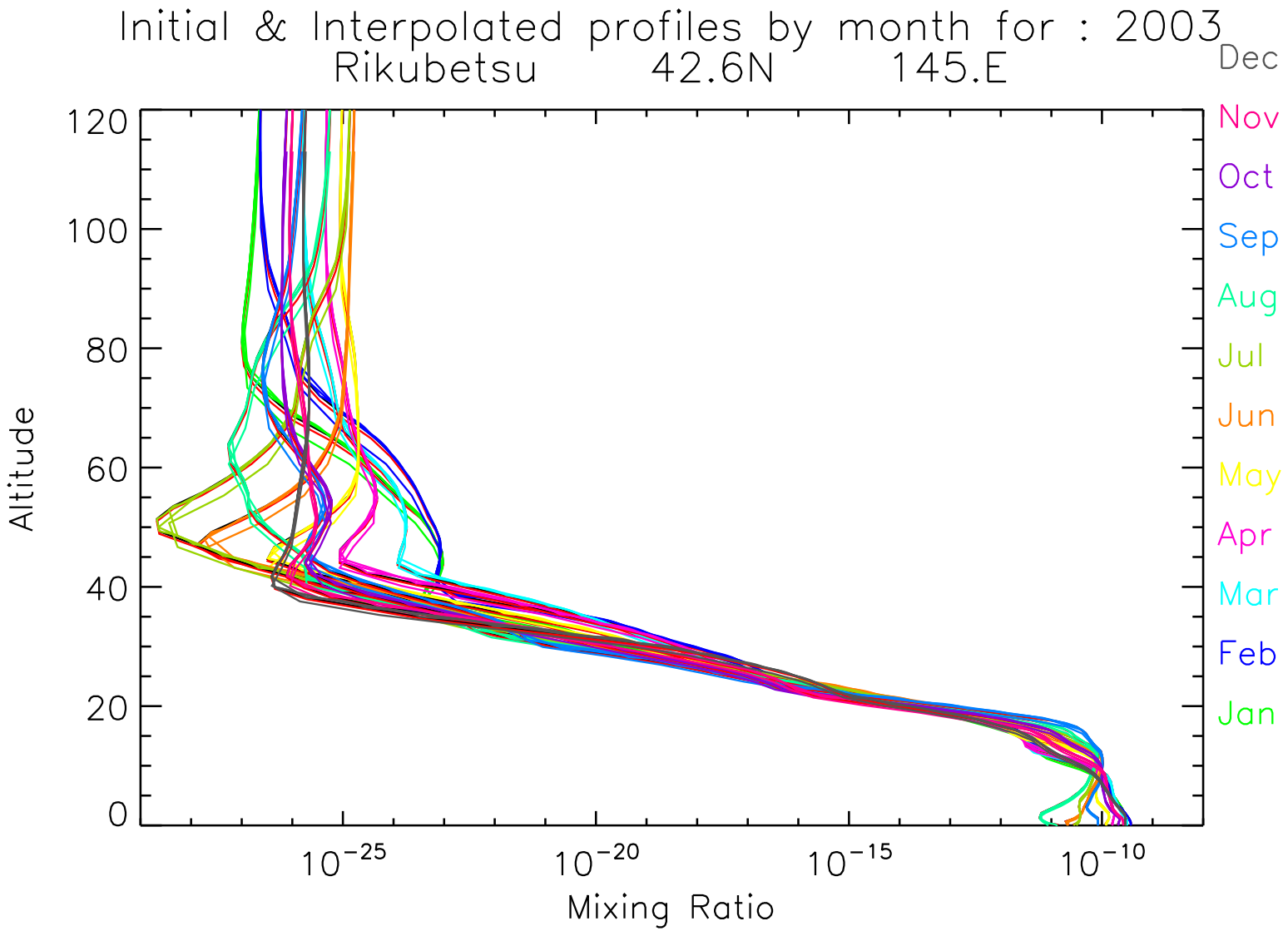
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Rikubetsu 42.6N 145.E
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Altitude
10^{-25}
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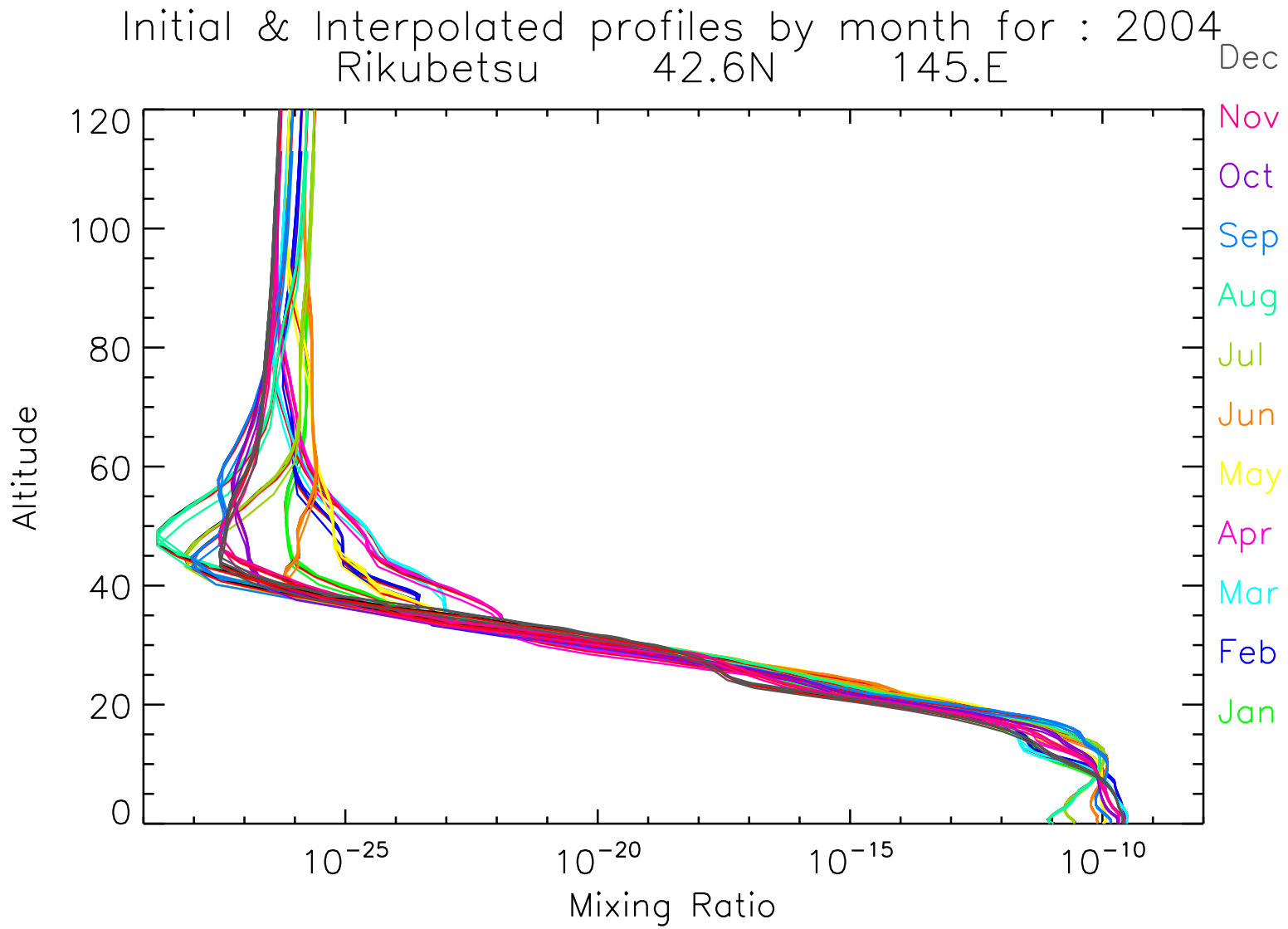
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Rikubetsu 42.6N 145.E
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Altitude
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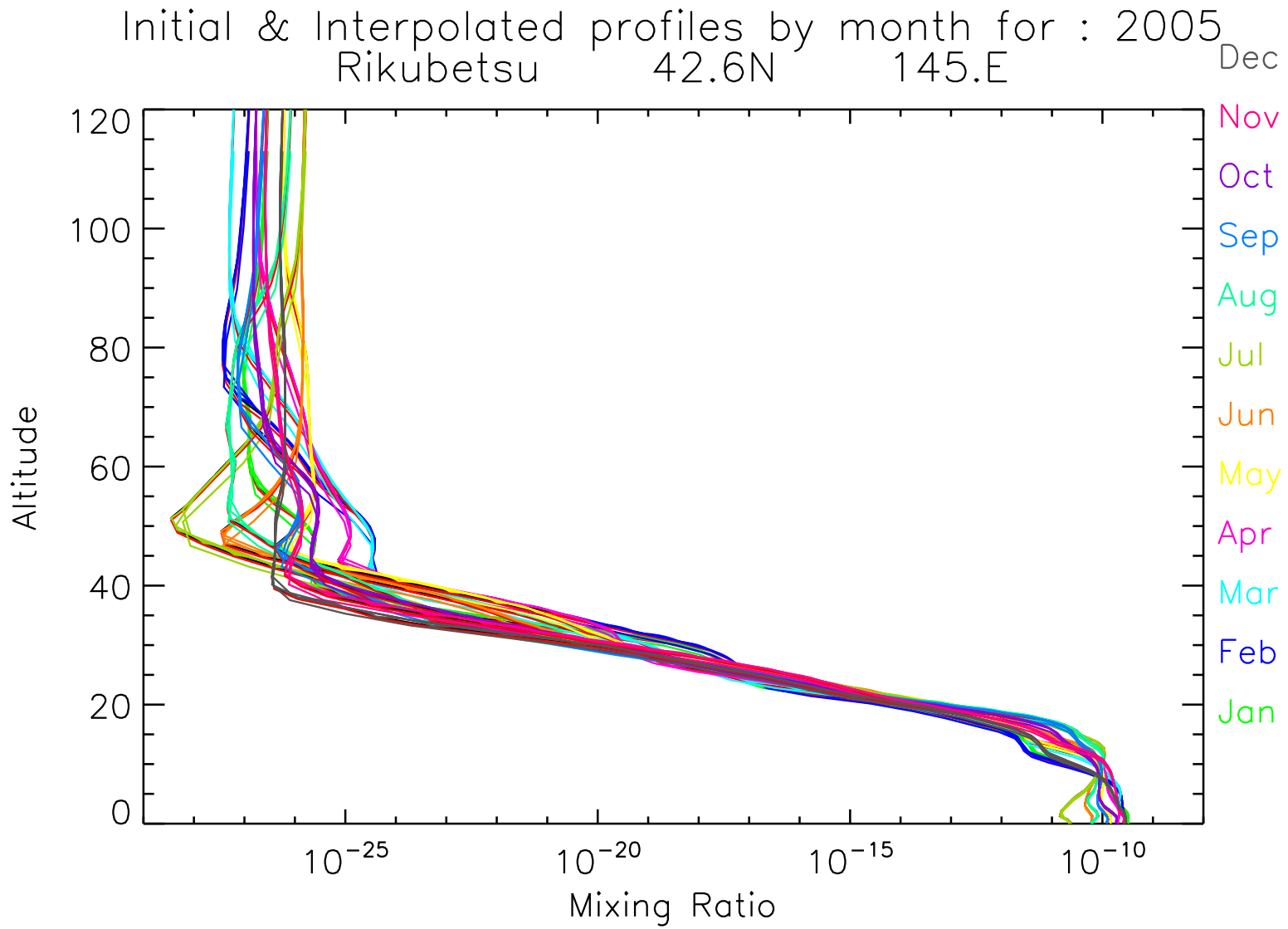
10^{-15}
10^{-10}
Mixing Ratio


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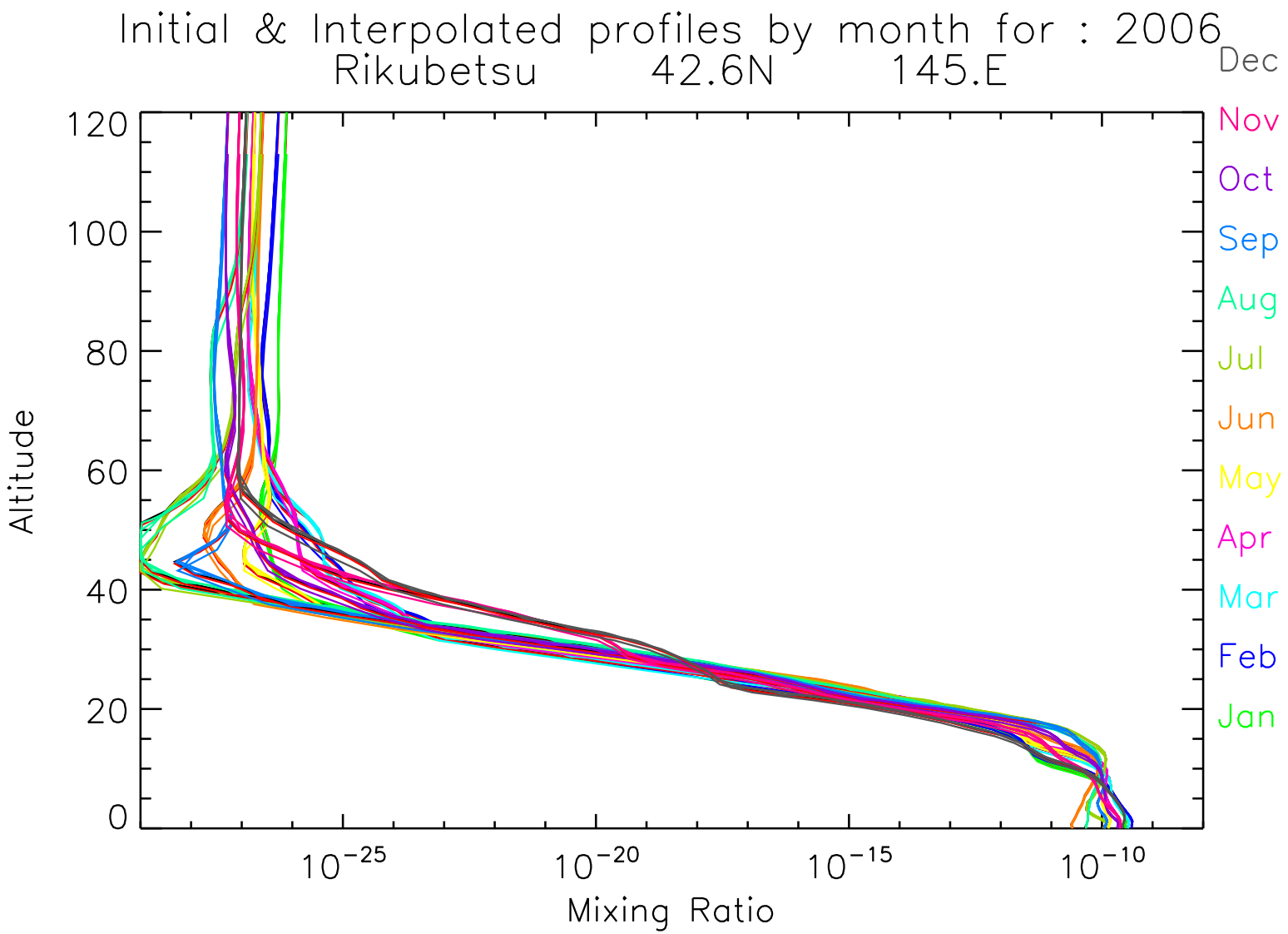
10^{-10}
Mixing Ratio


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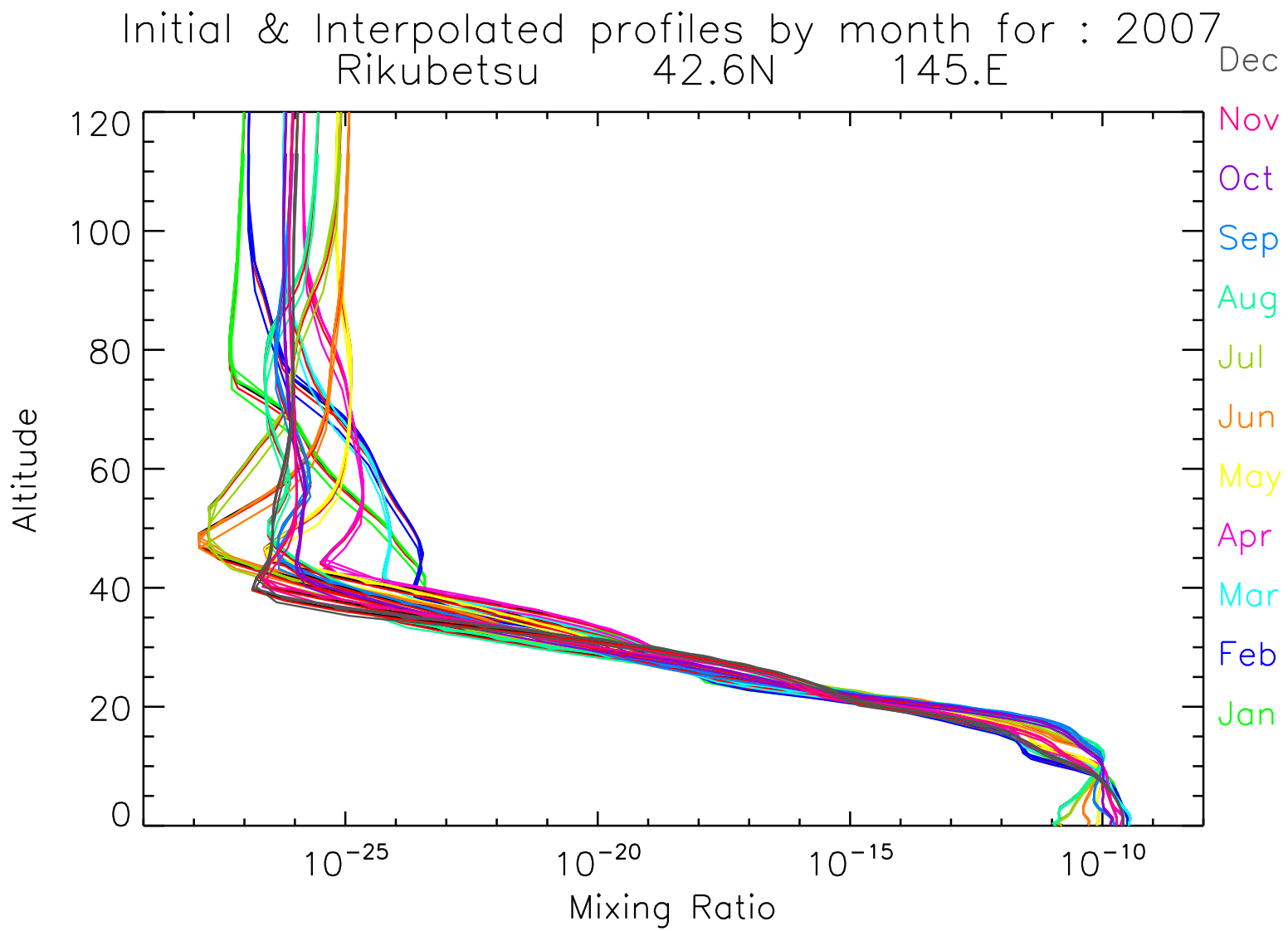
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Rikubetsu 42.6N 145.E
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Altitude
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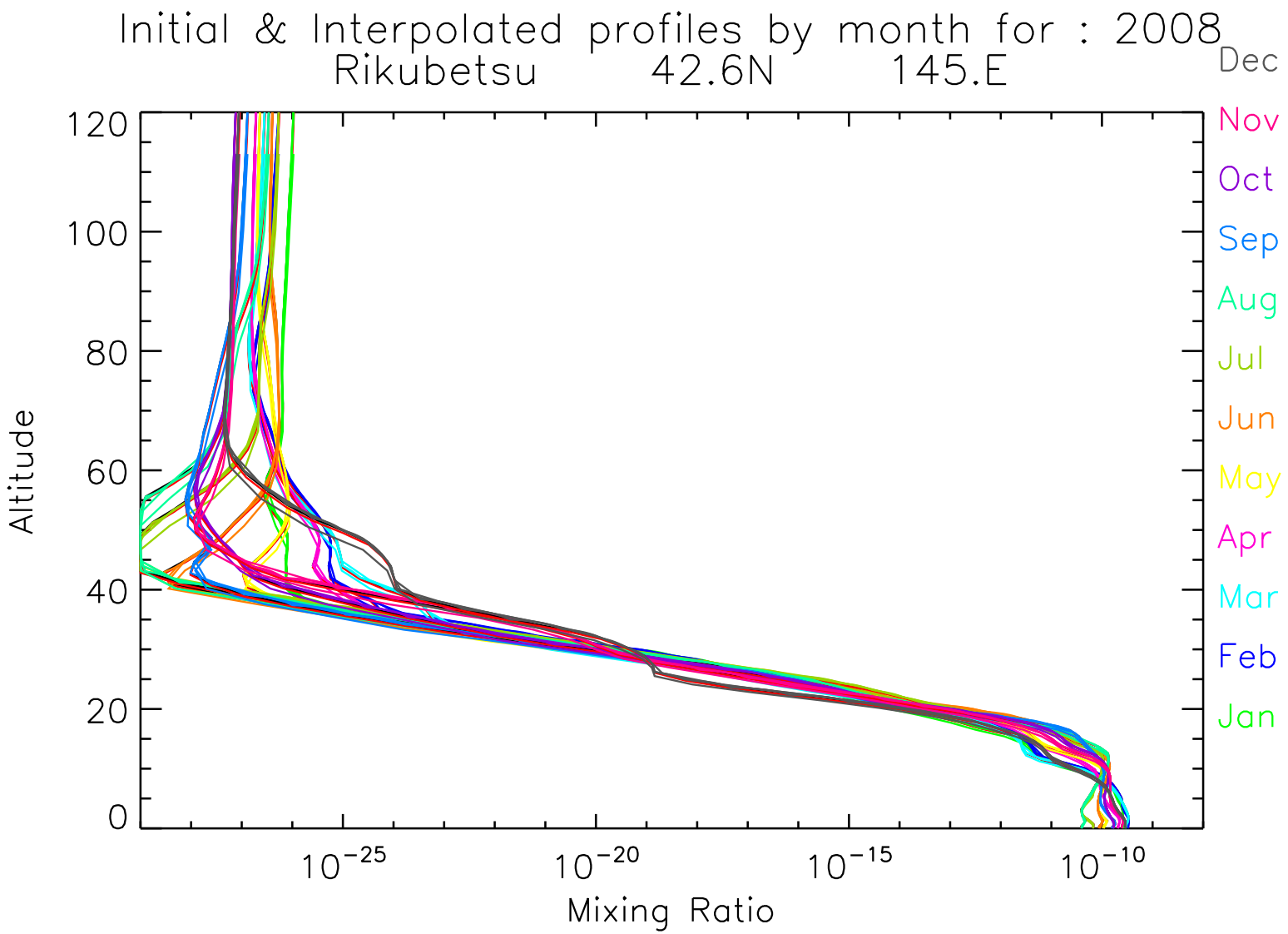
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Rikubetsu 42.6N 145.E
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Altitude
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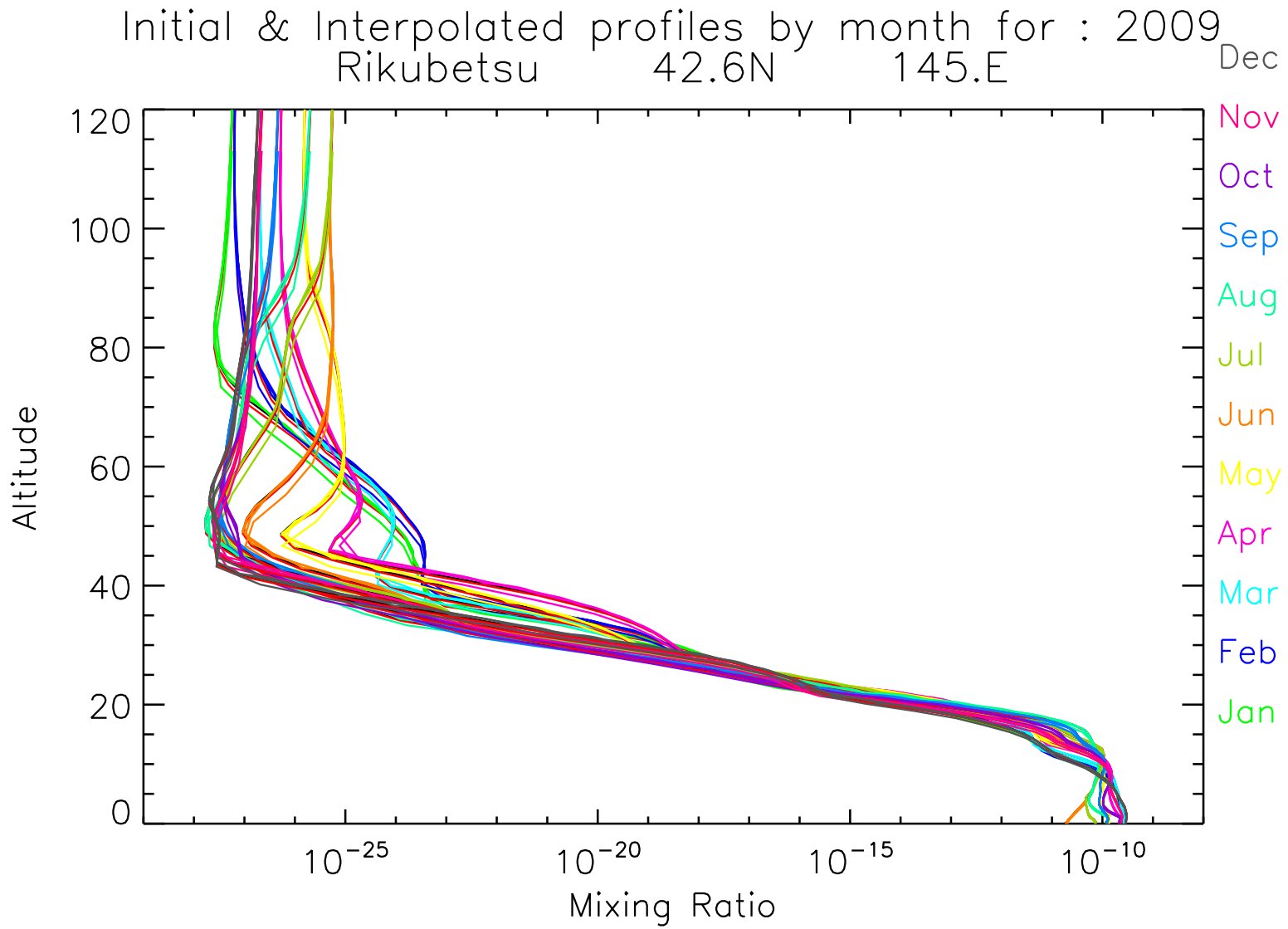
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Rikubetsu 42.6N 145.E
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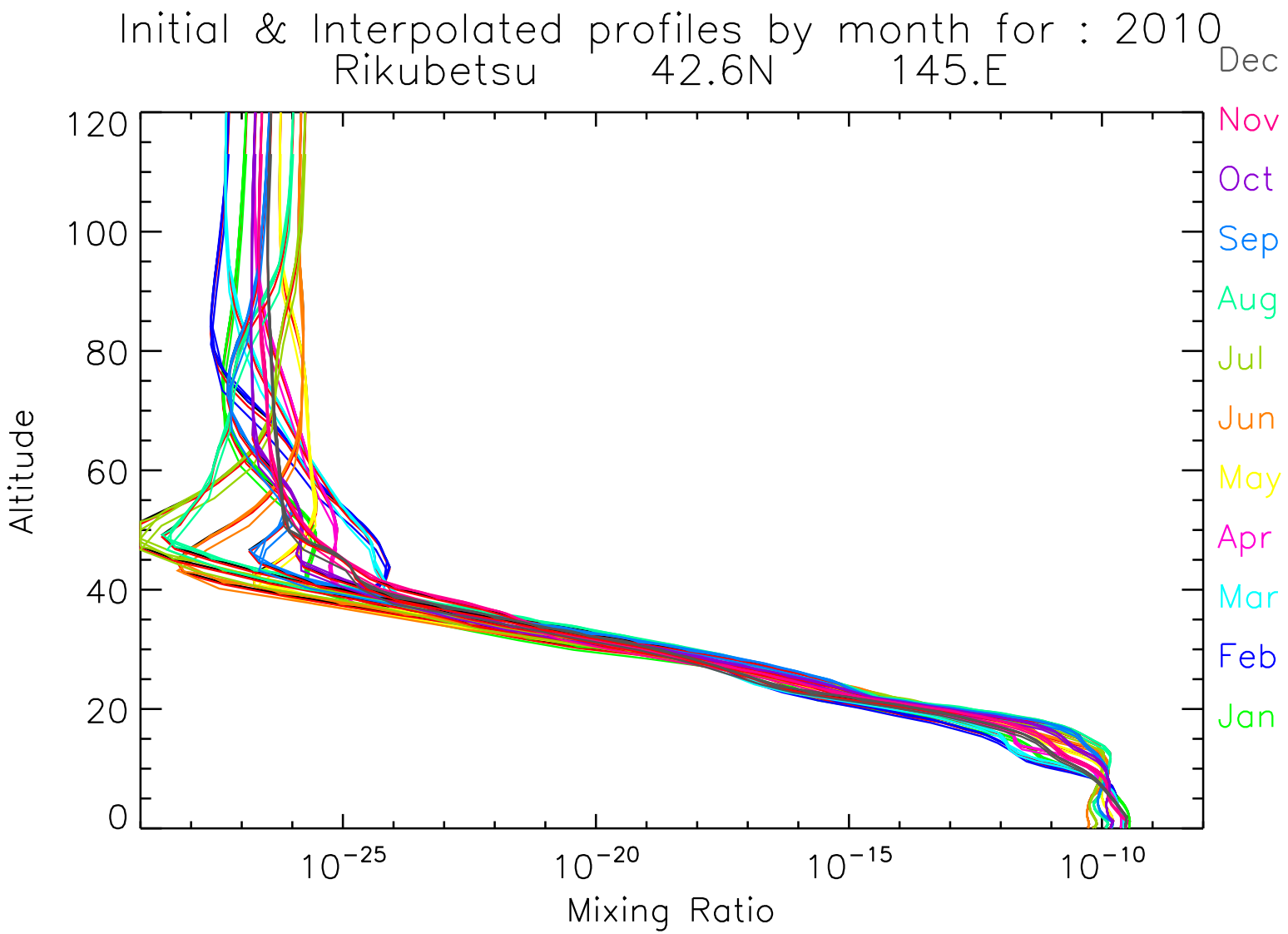
Mixing Ratio


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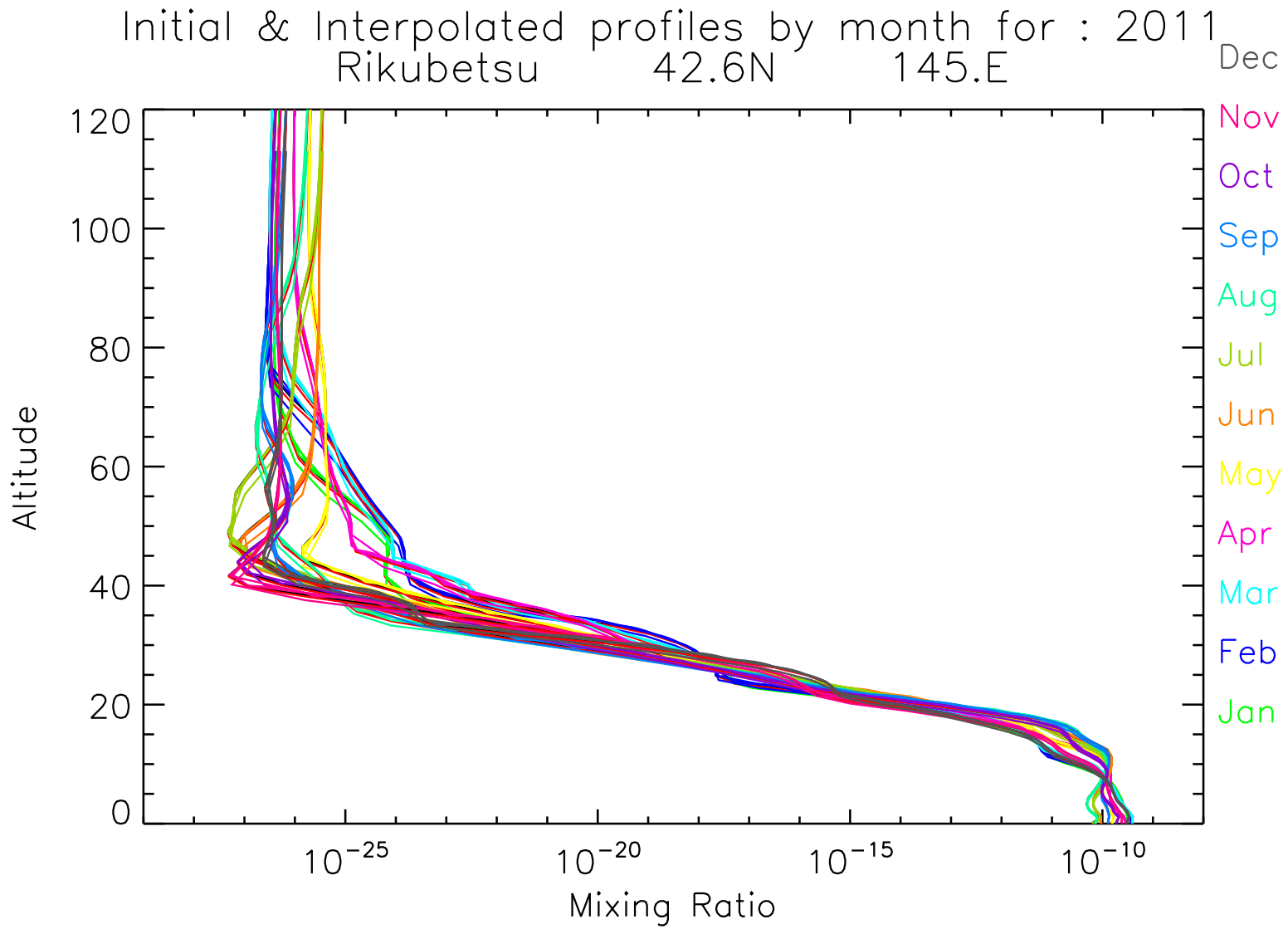
10^{-10}
Mixing Ratio


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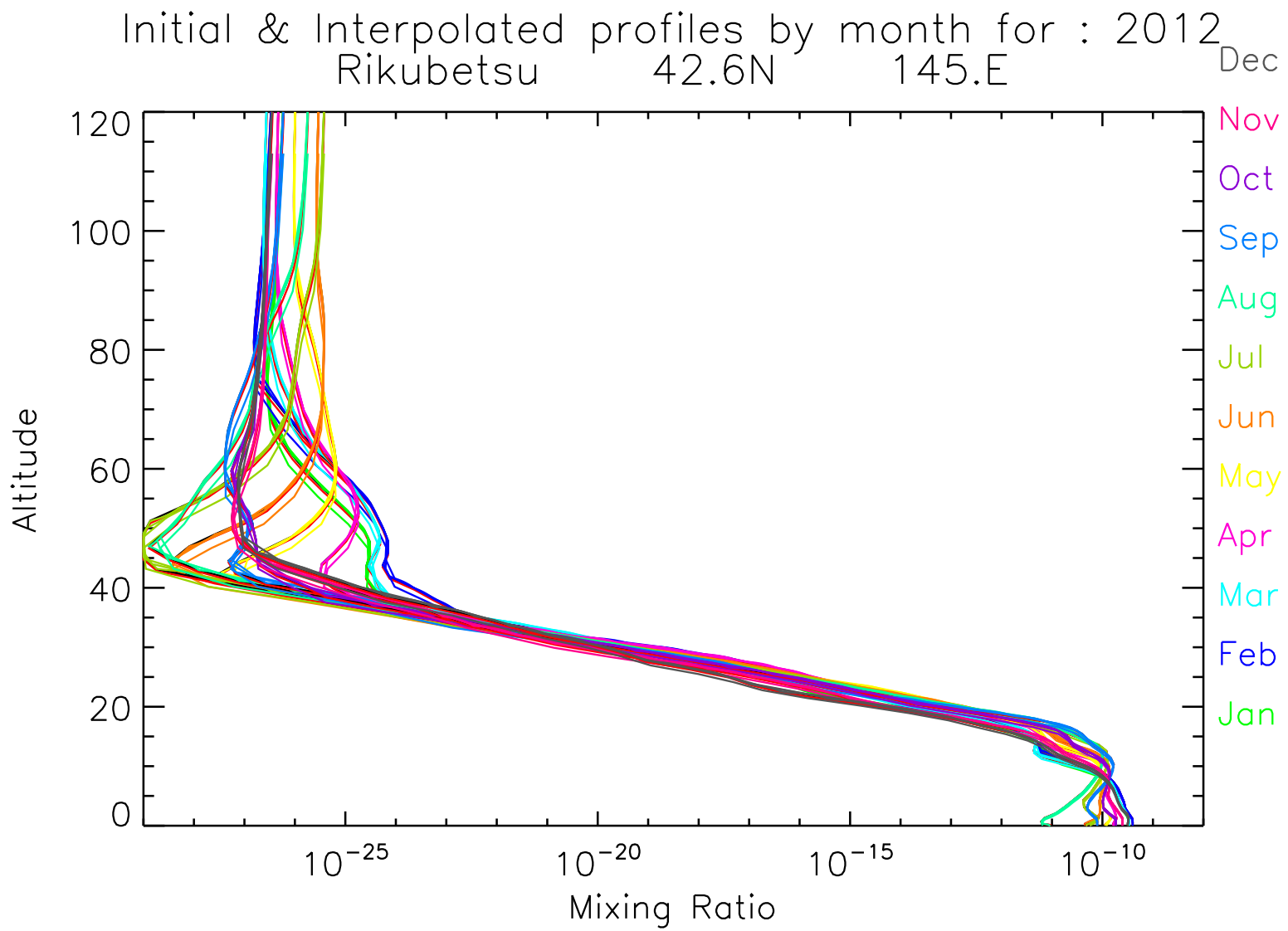
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2012
Rikubetsu 42.6N 145.E
Dec
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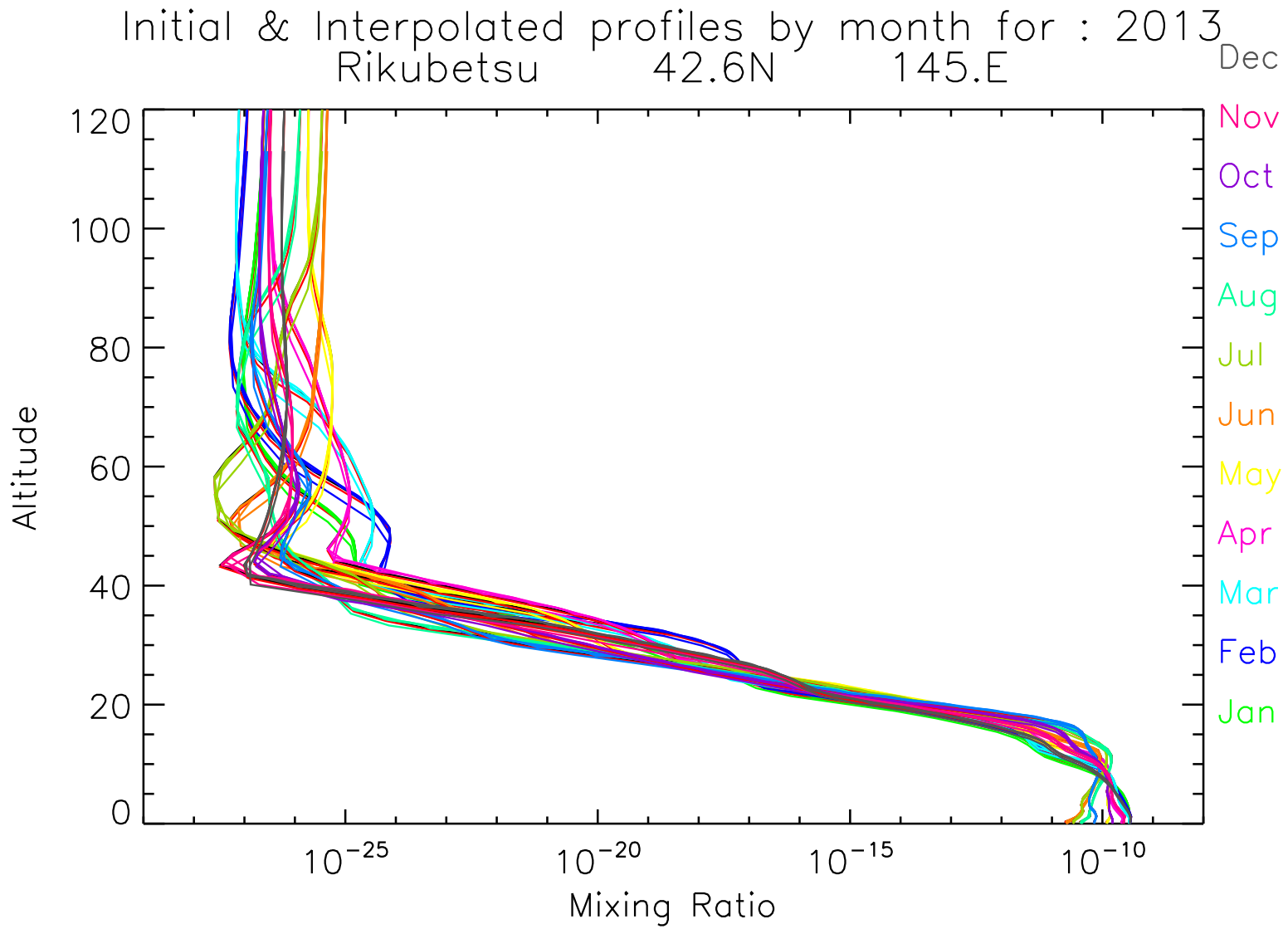
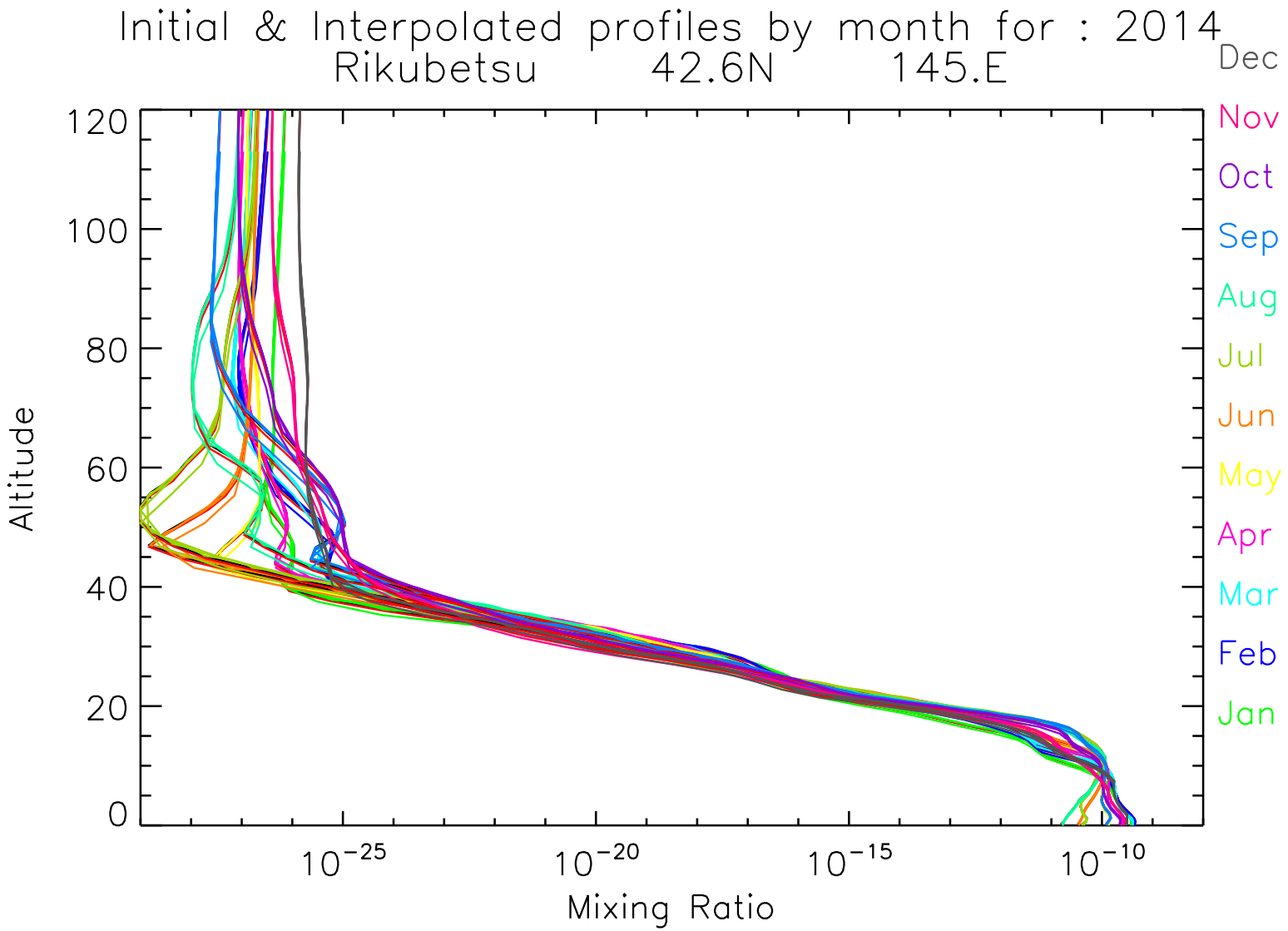
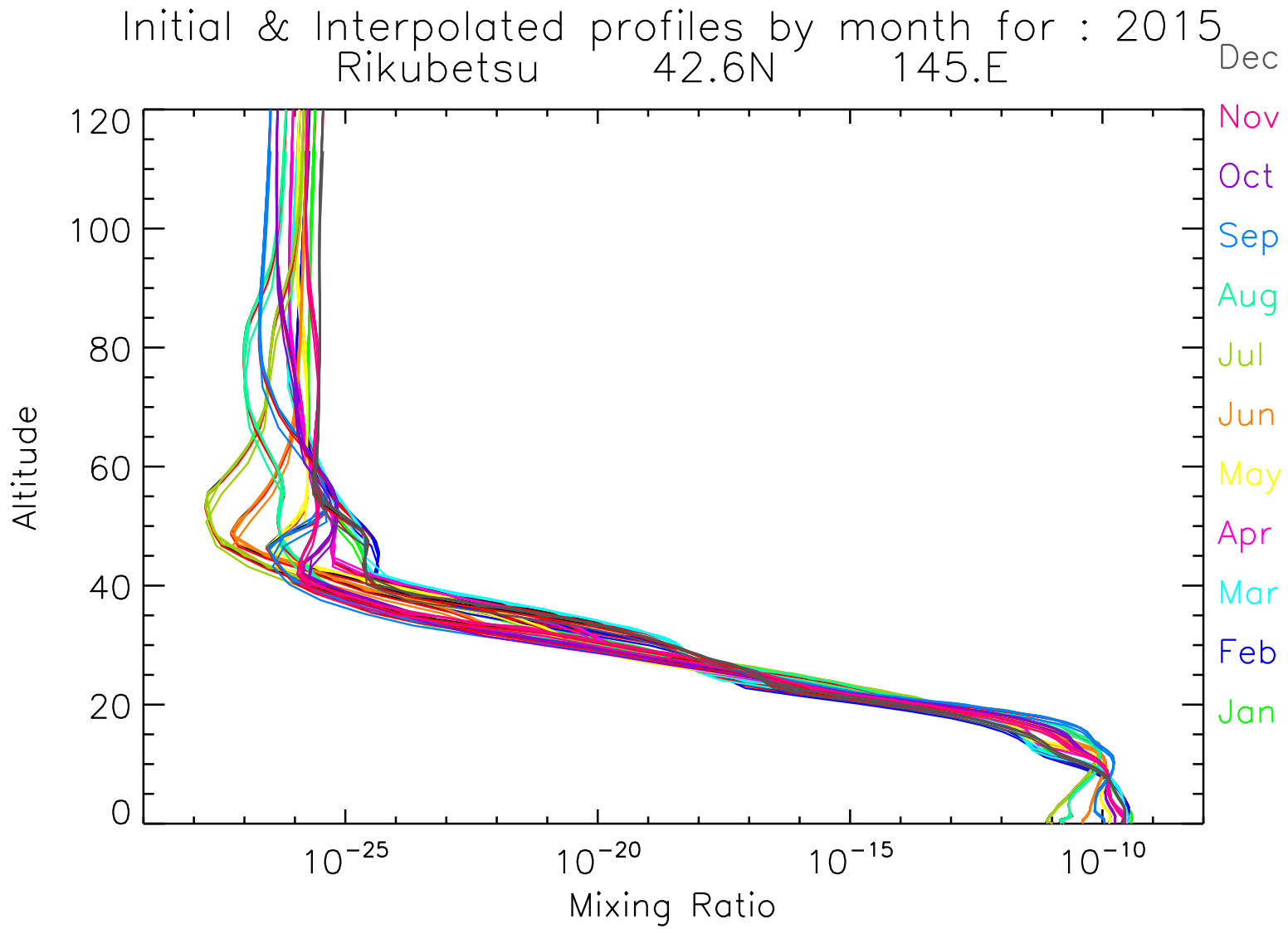
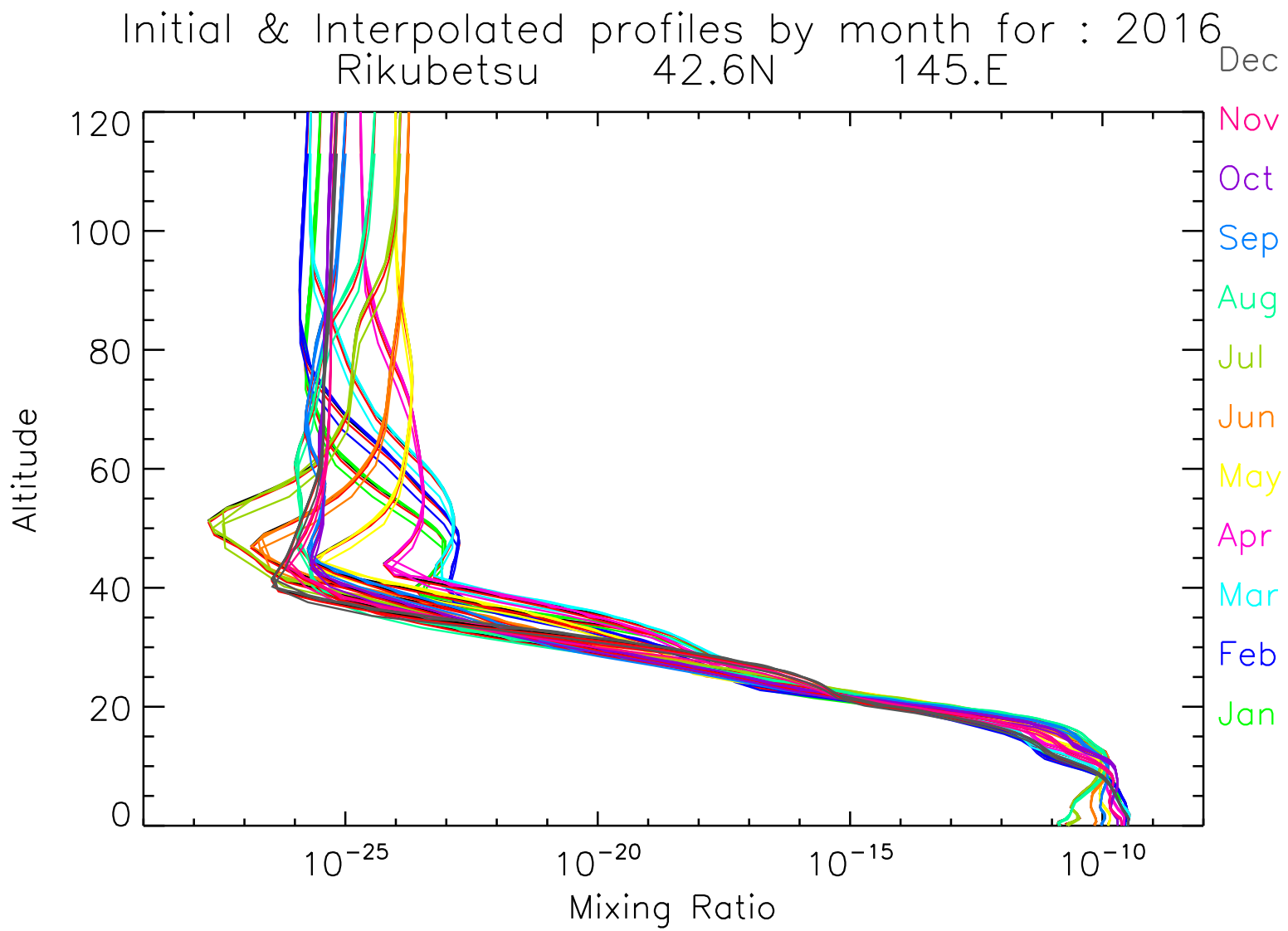
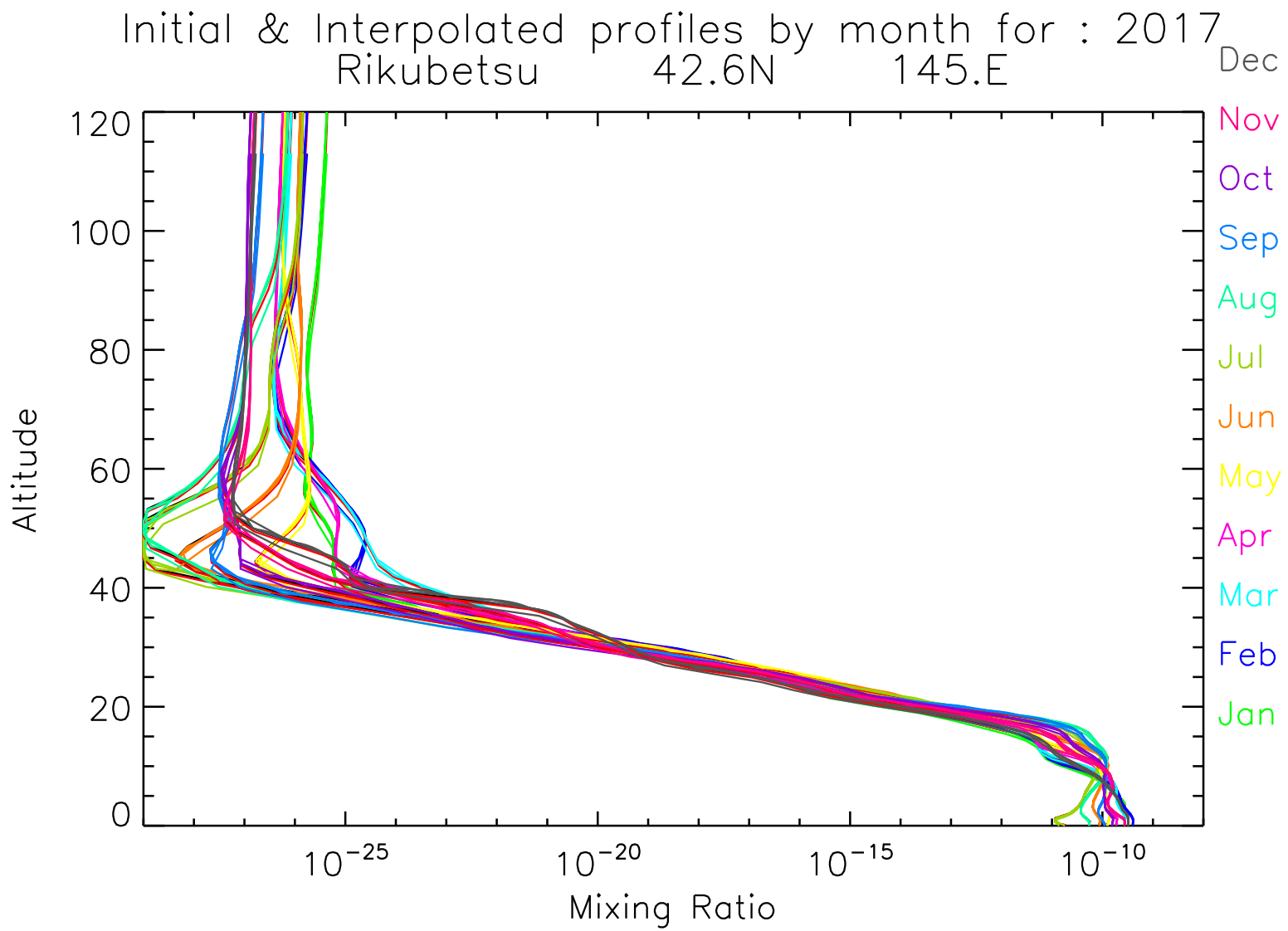
Altitude
120
100
80
60
40
20
0
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

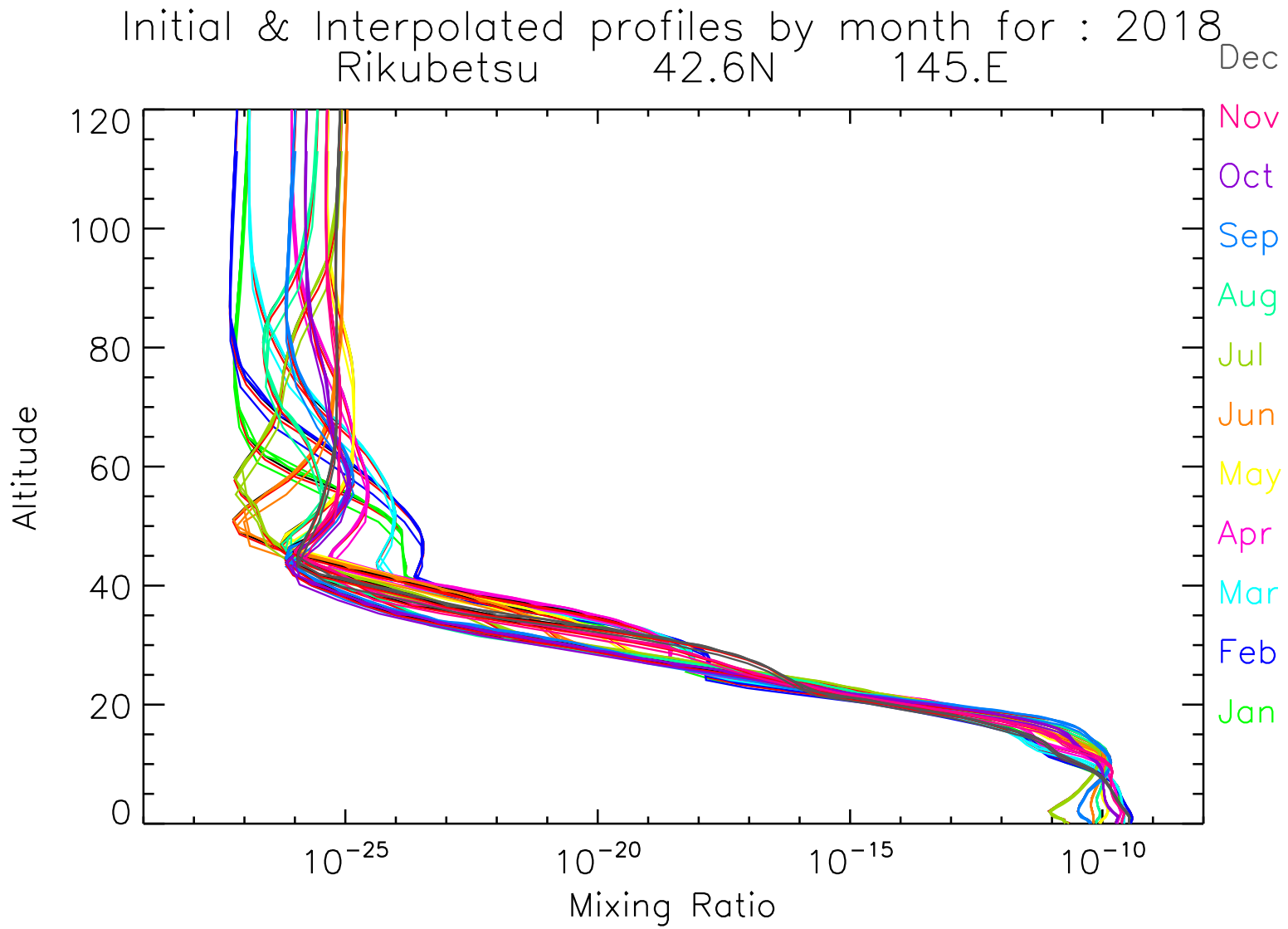

Initial & Interpolated profiles by month for : 2013
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

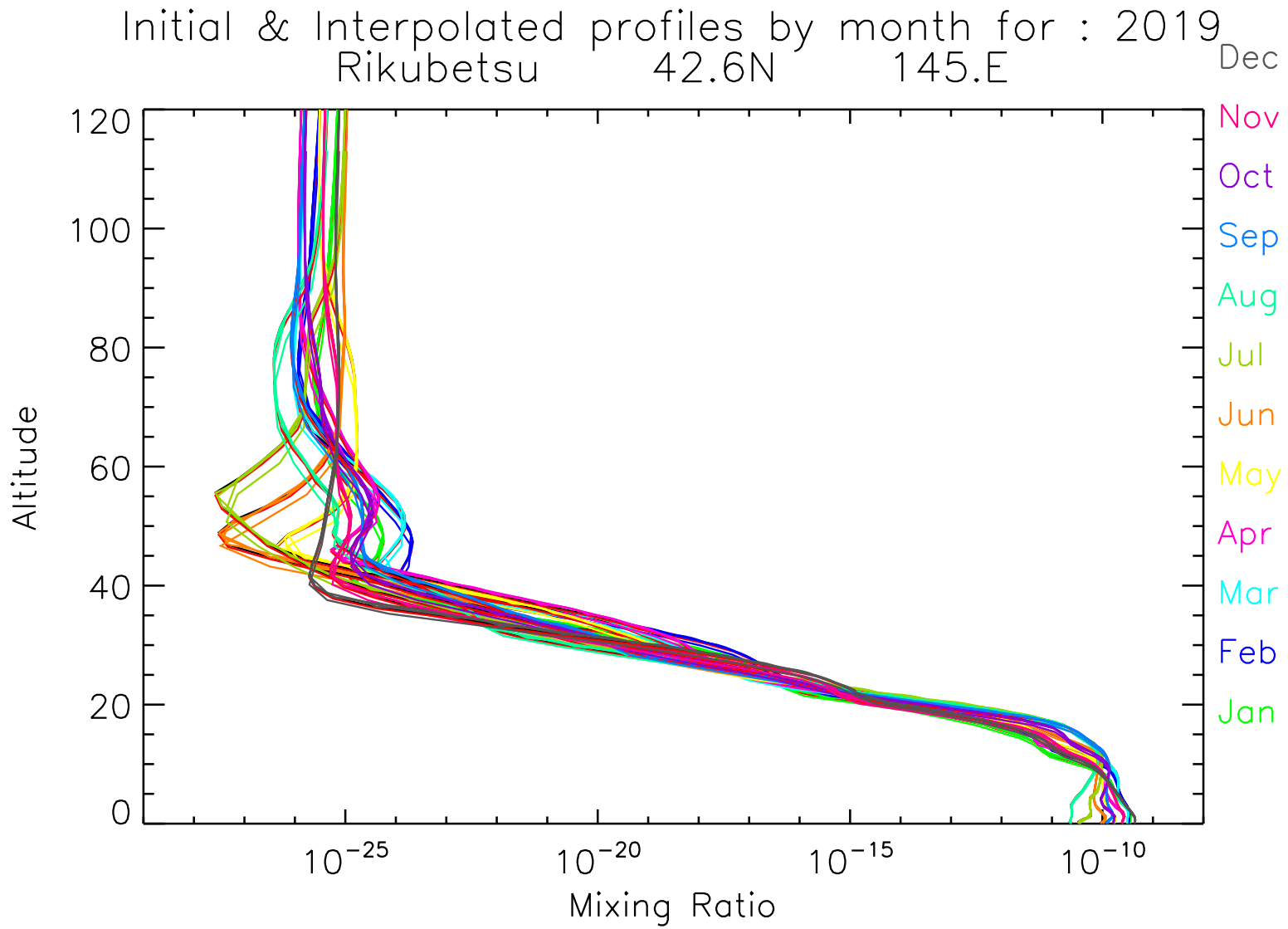

Initial & Interpolated profiles by month for : 2014
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

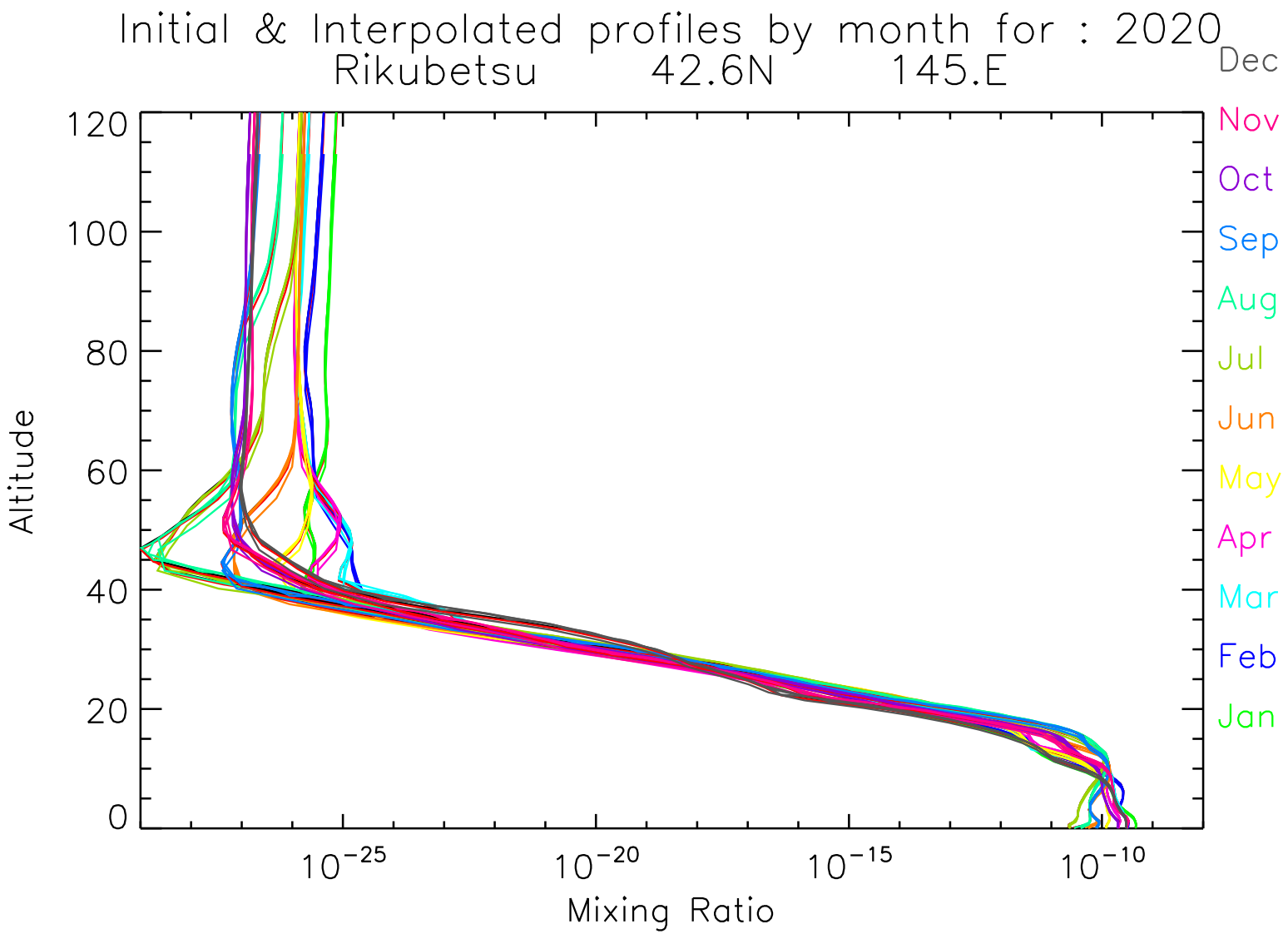

Initial & Interpolated profiles by month for : 2015
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

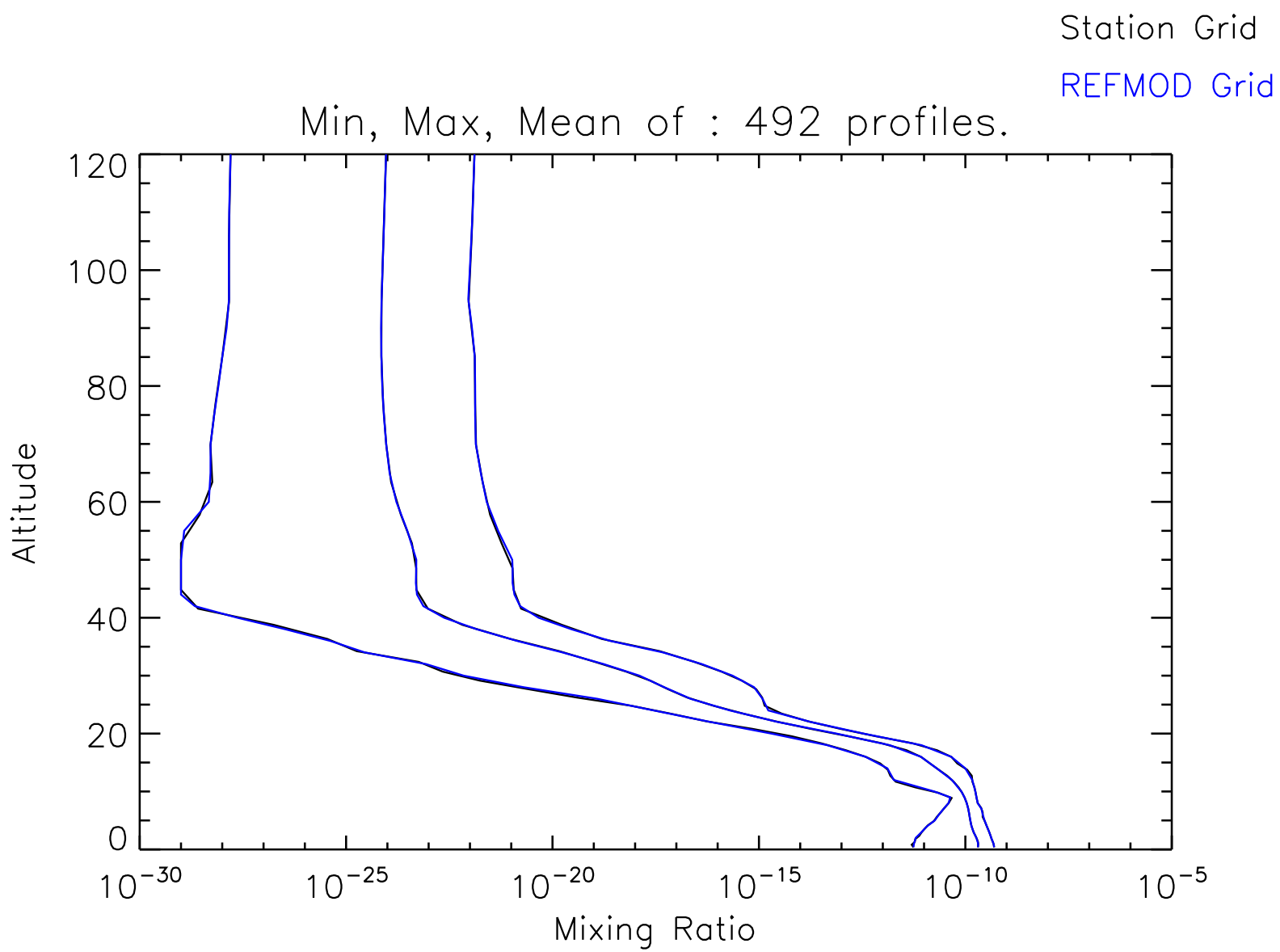

Initial & Interpolated profiles by month for : 2016
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

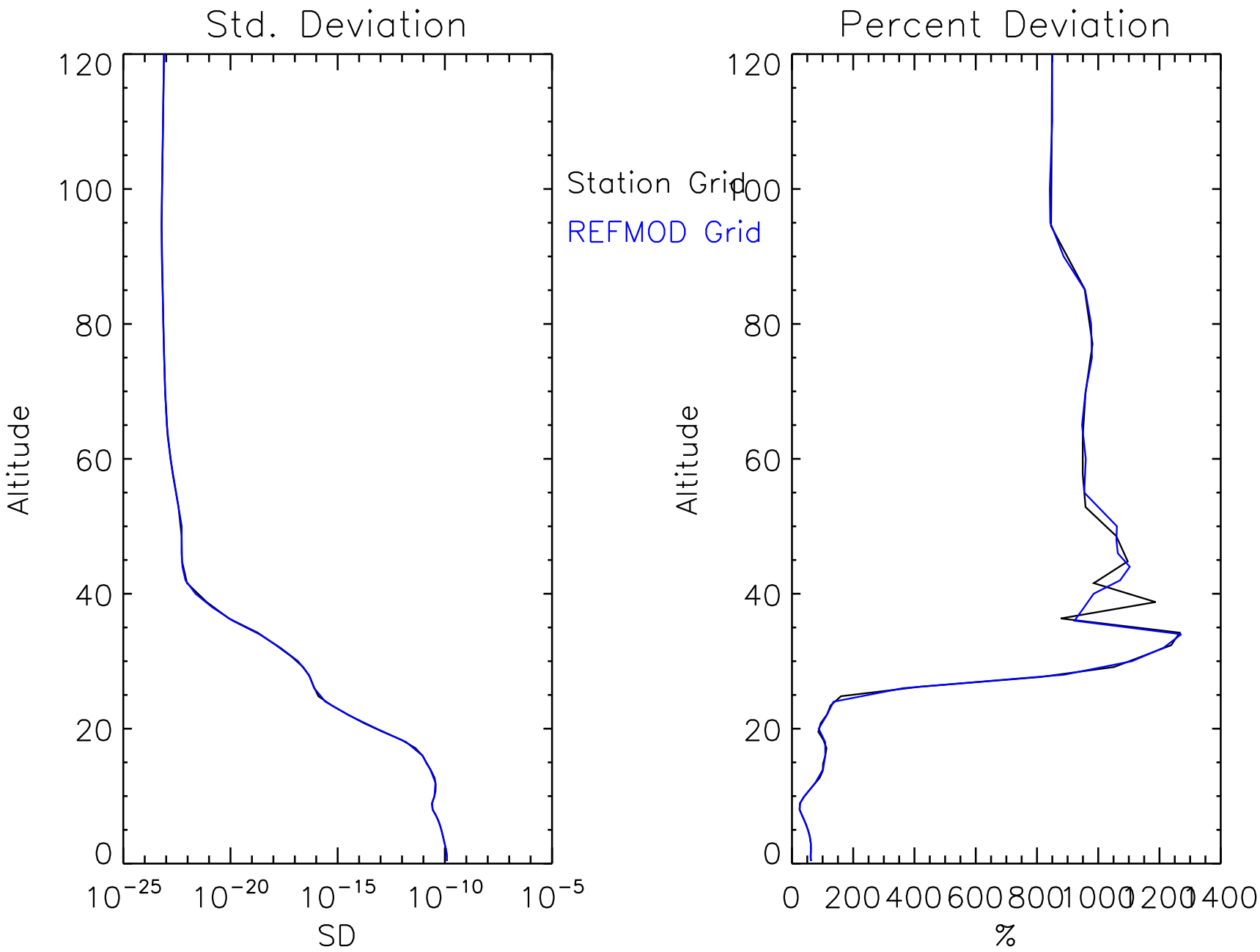

Initial & Interpolated profiles by month for : 2017
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

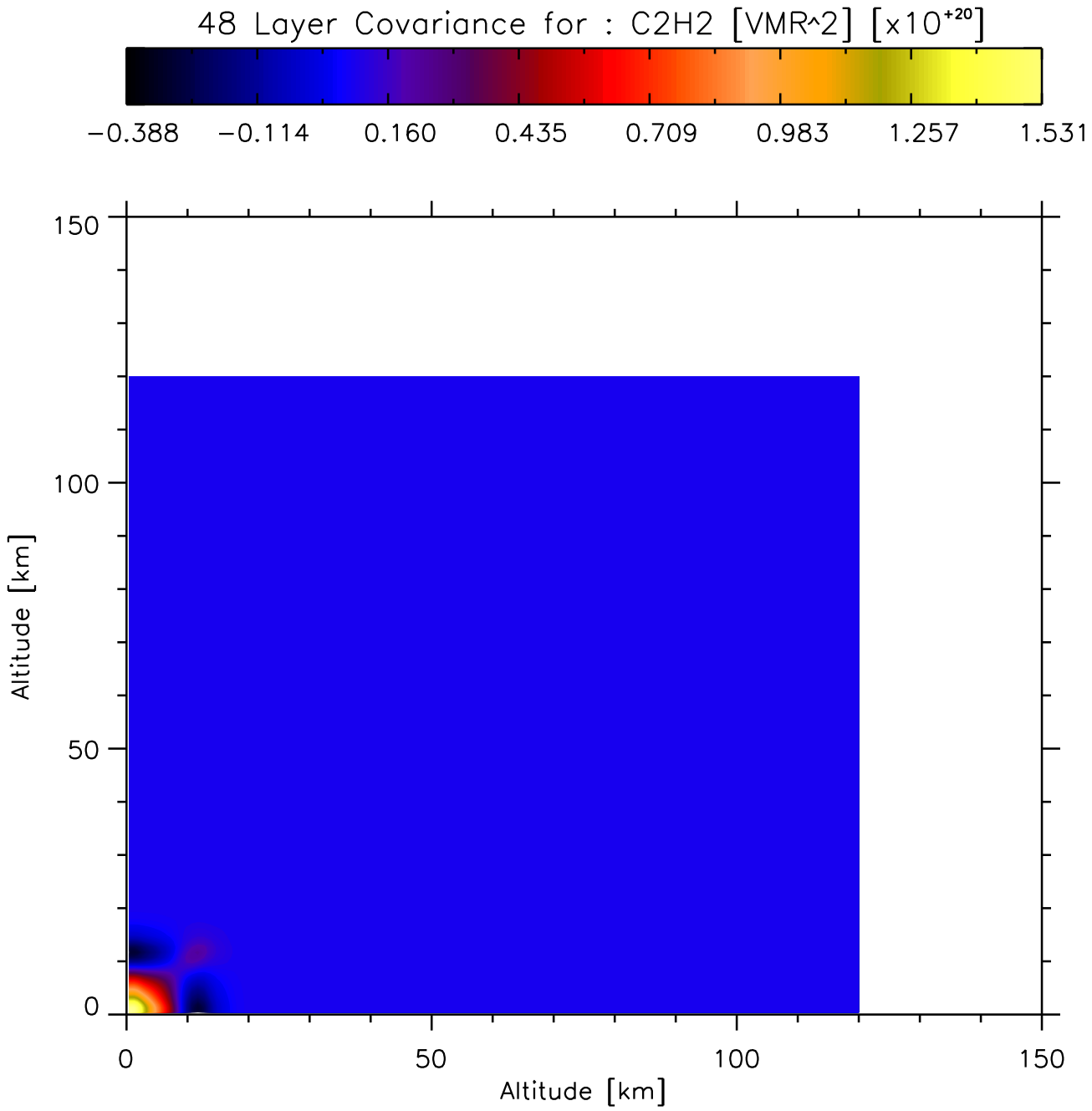

Initial & Interpolated profiles by month for : 2018
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2019
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^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

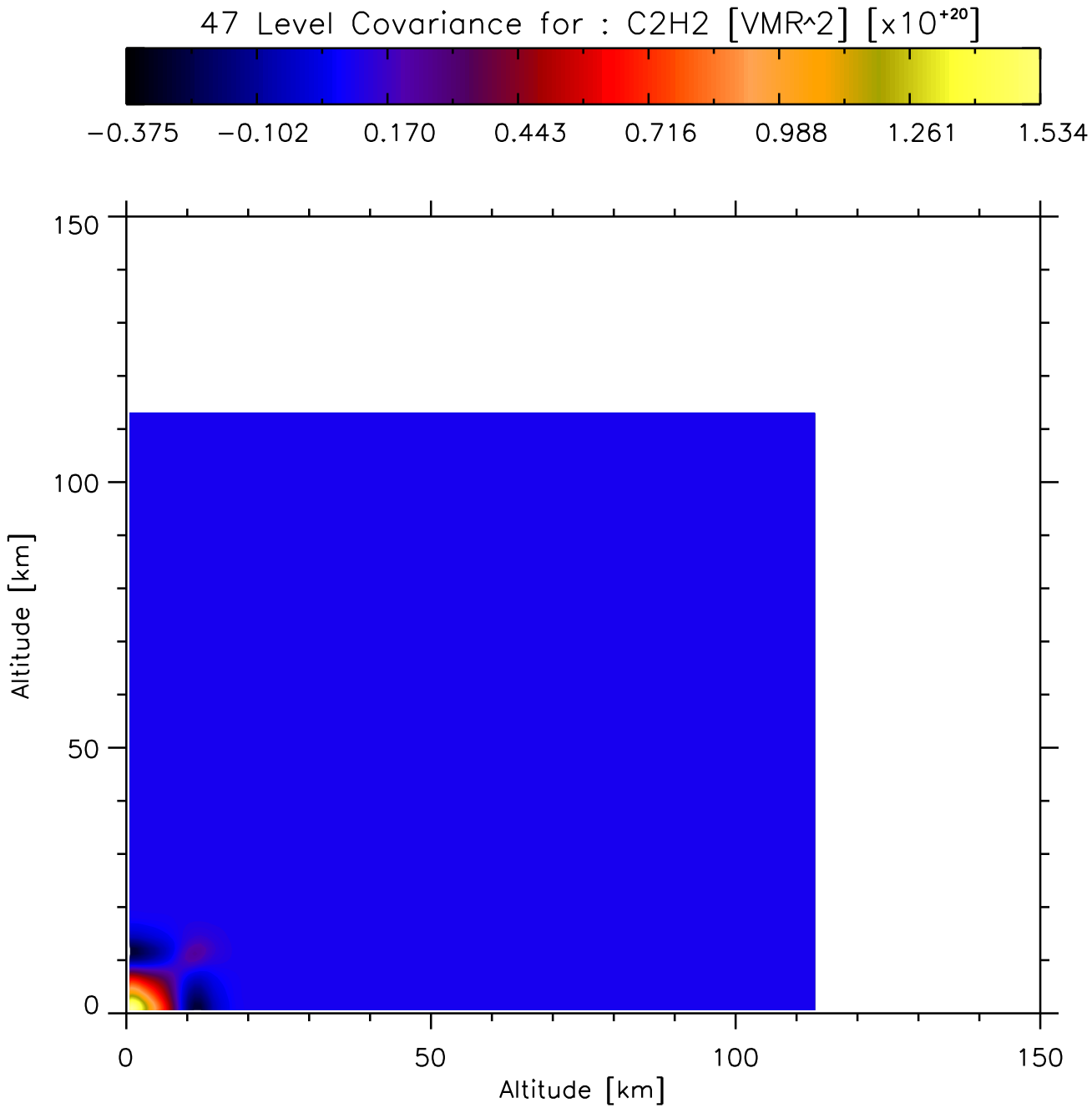

Initial & Interpolated profiles by month for : 2020
Rikubetsu 42.6N 145.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
10^{-5}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
SD
%
120
100
80
60
40
20
0
10^{-25}
10^{-20}
10^{-15}
10^{-10}
10^{-5}
0
200
400
600
800
1000
1200
1400


48 Layer Covariance for : C2H2 [VMR^2] [x10^+20]
−0.388
−0.114
0.160
0.435
0.709
0.983
1.257
1.531
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Layer Covariance for : C2H2 [VMR^2] [x10^+20]
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
50
100
150
X Altitude
0
50
100
150


47 Level Covariance for : C2H2 [VMR^2] [x10^+20]
−0.375
−0.102
0.170
0.443
0.716
0.988
1.261
1.534
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Level Covariance for : C2H2 [VMR^2] [x10^-20]
2.0
1.5
1.0
0.5
0.0
Y Altitude
0
20
40
60
80
X Altitude
0
50
100
150