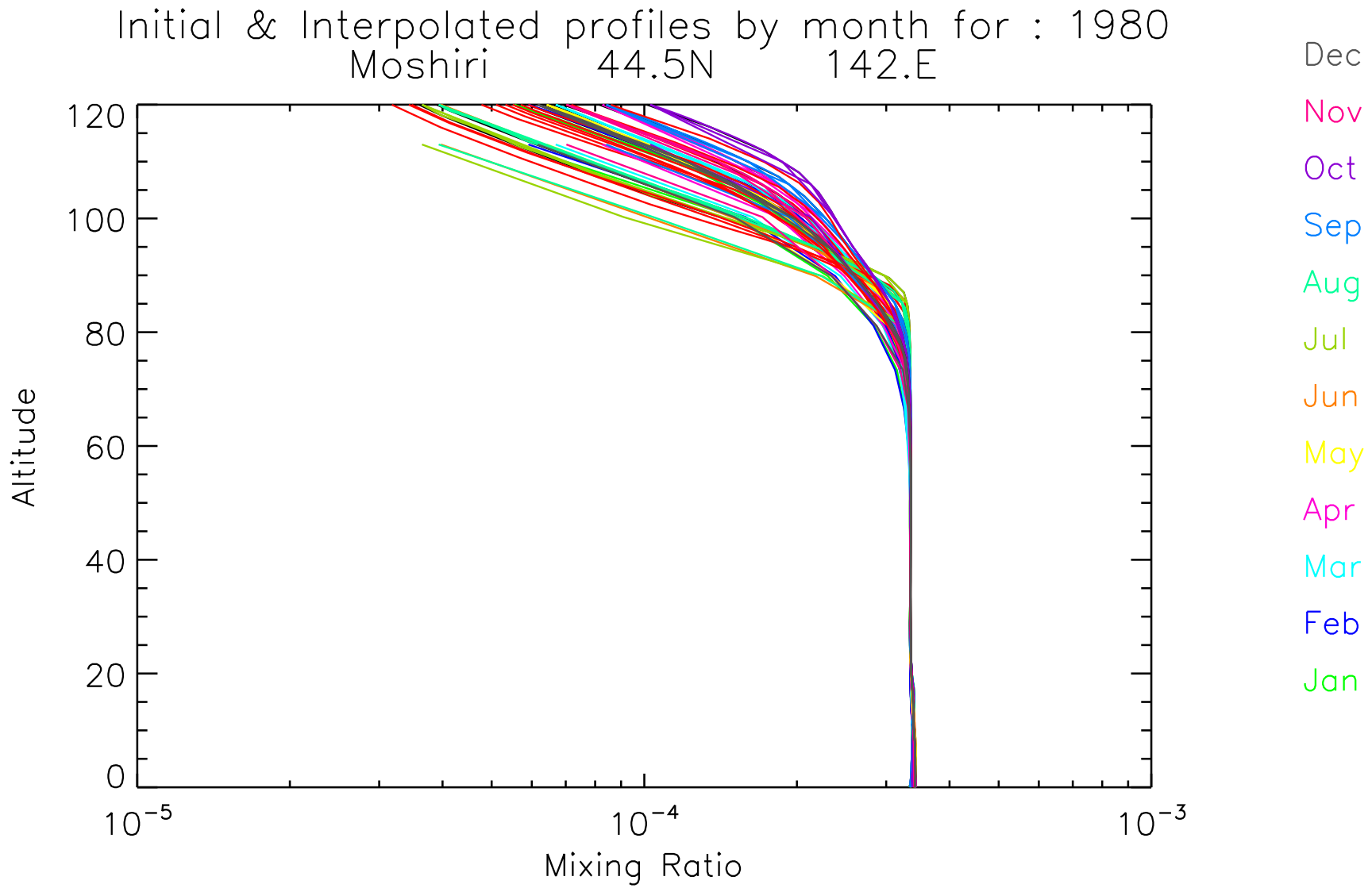
Initial & Interpolated profiles by month for : 1980
Moshiri 44.5N 142.E
Altitude
120
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80
60
40
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Mixing Ratio
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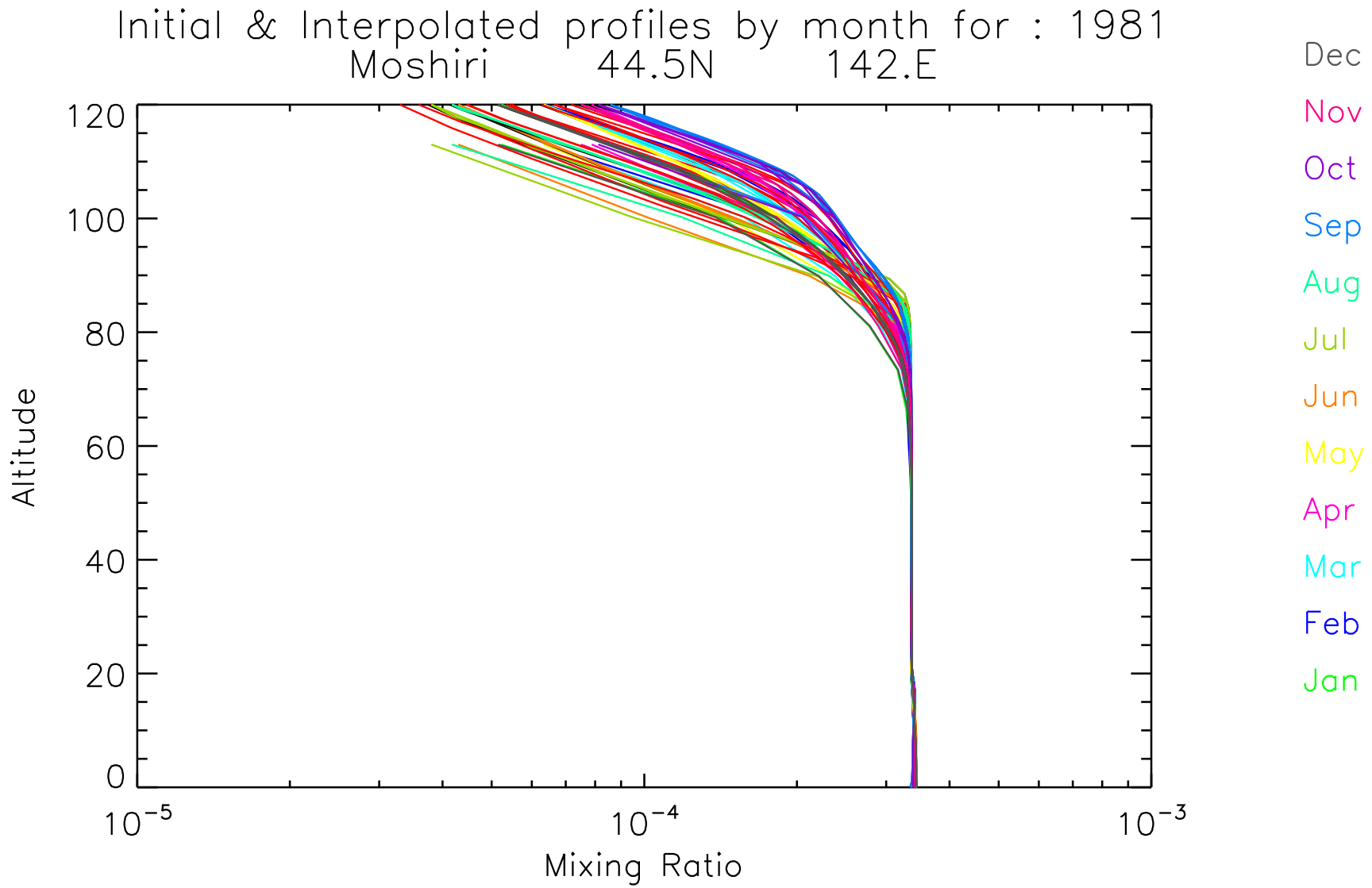
Initial & Interpolated profiles by month for : 1981
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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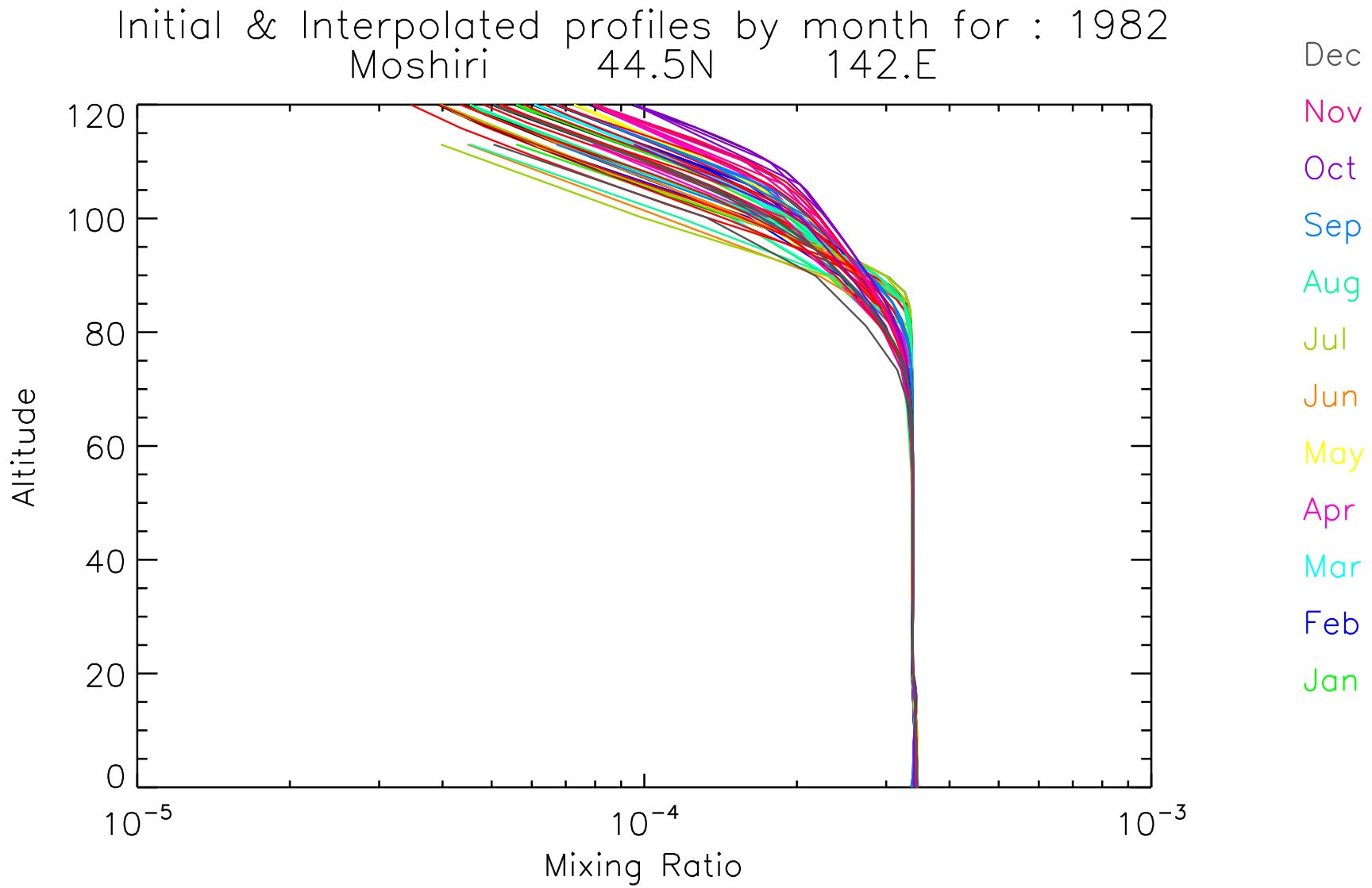
Initial & Interpolated profiles by month for : 1982
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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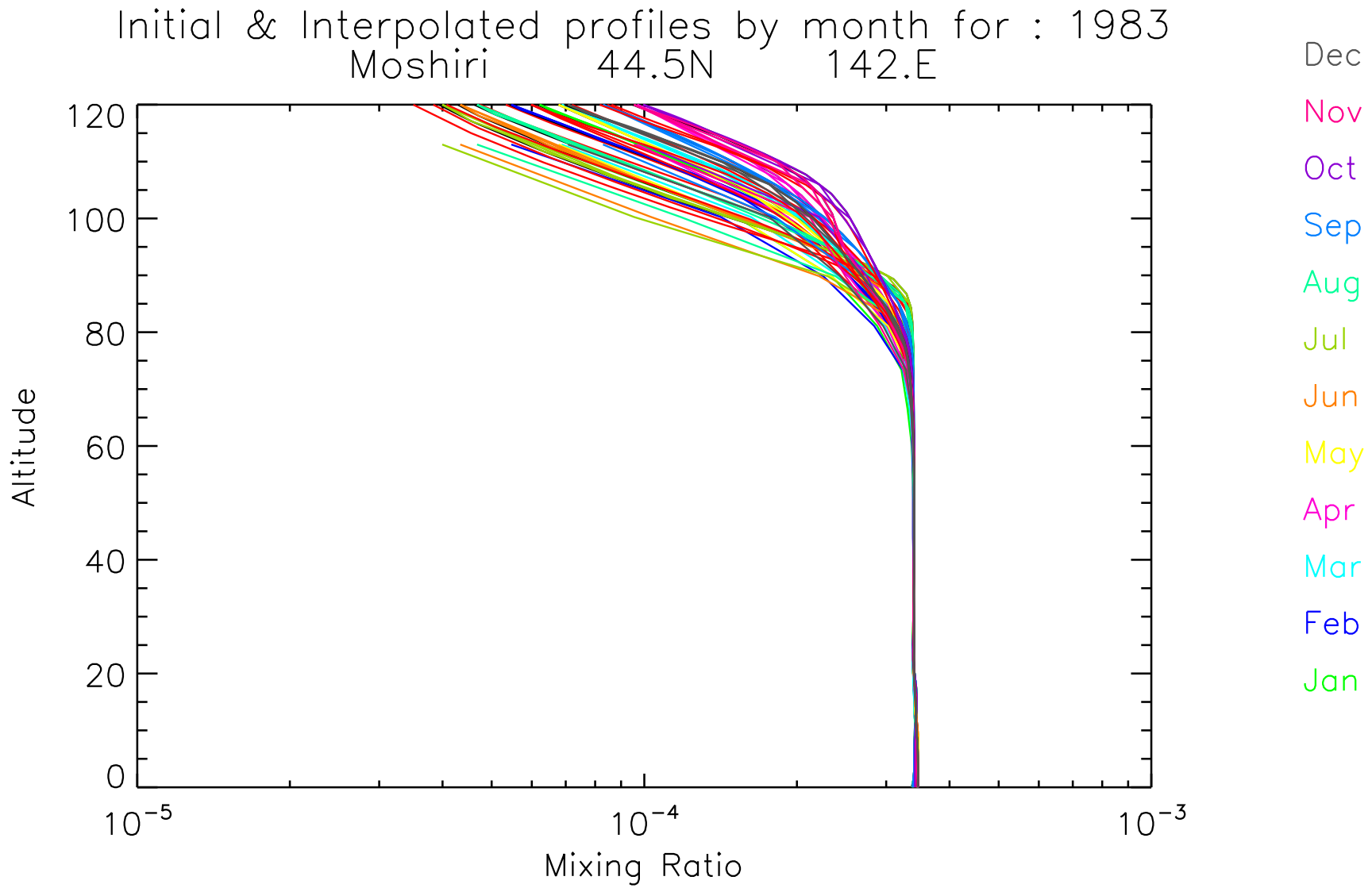
Initial & Interpolated profiles by month for : 1983
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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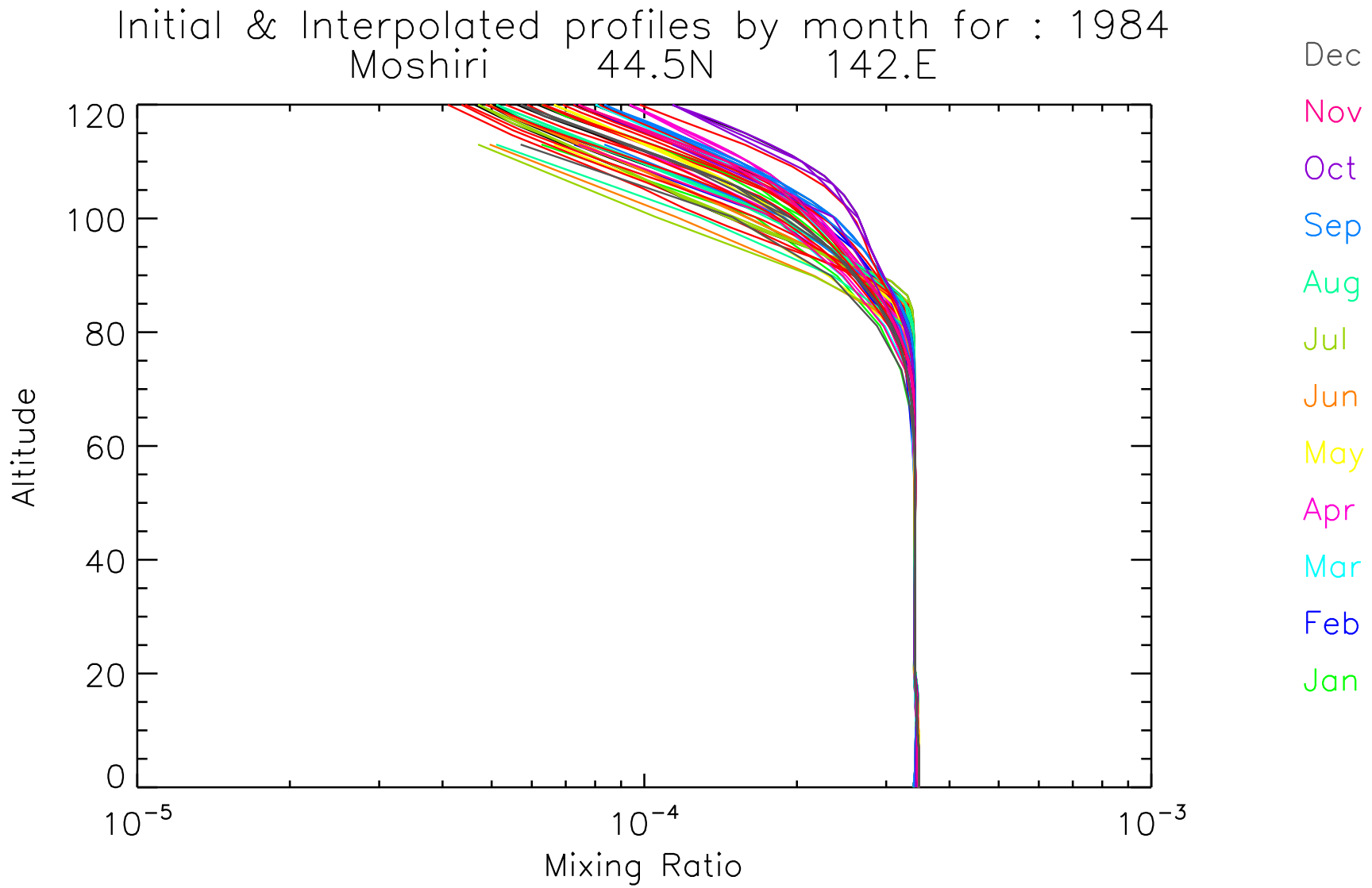
Initial & Interpolated profiles by month for : 1984
Moshiri 44.5N 142.E
Altitude
120
100
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20
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Mixing Ratio
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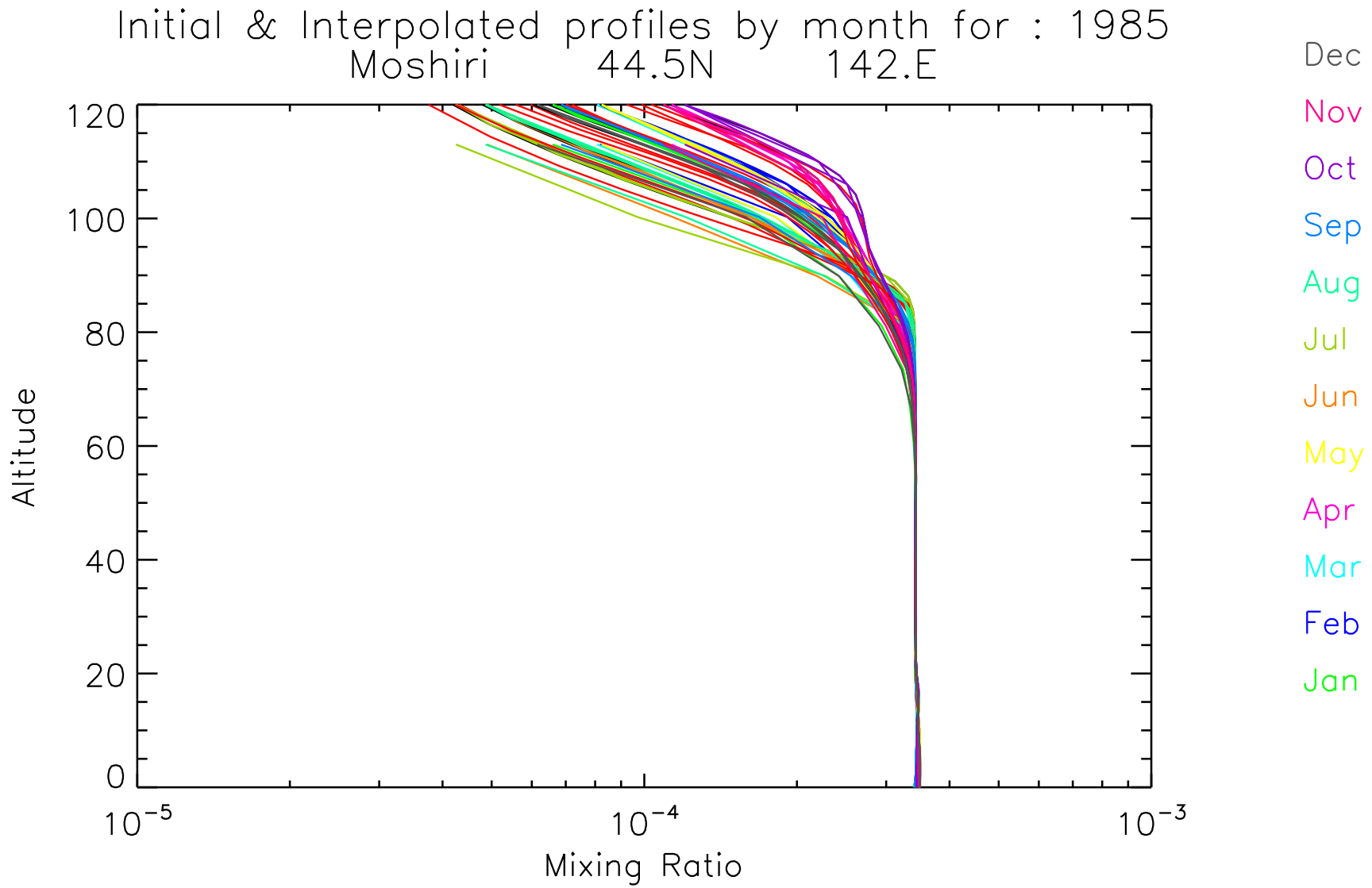
Initial & Interpolated profiles by month for : 1985
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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20
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Mixing Ratio
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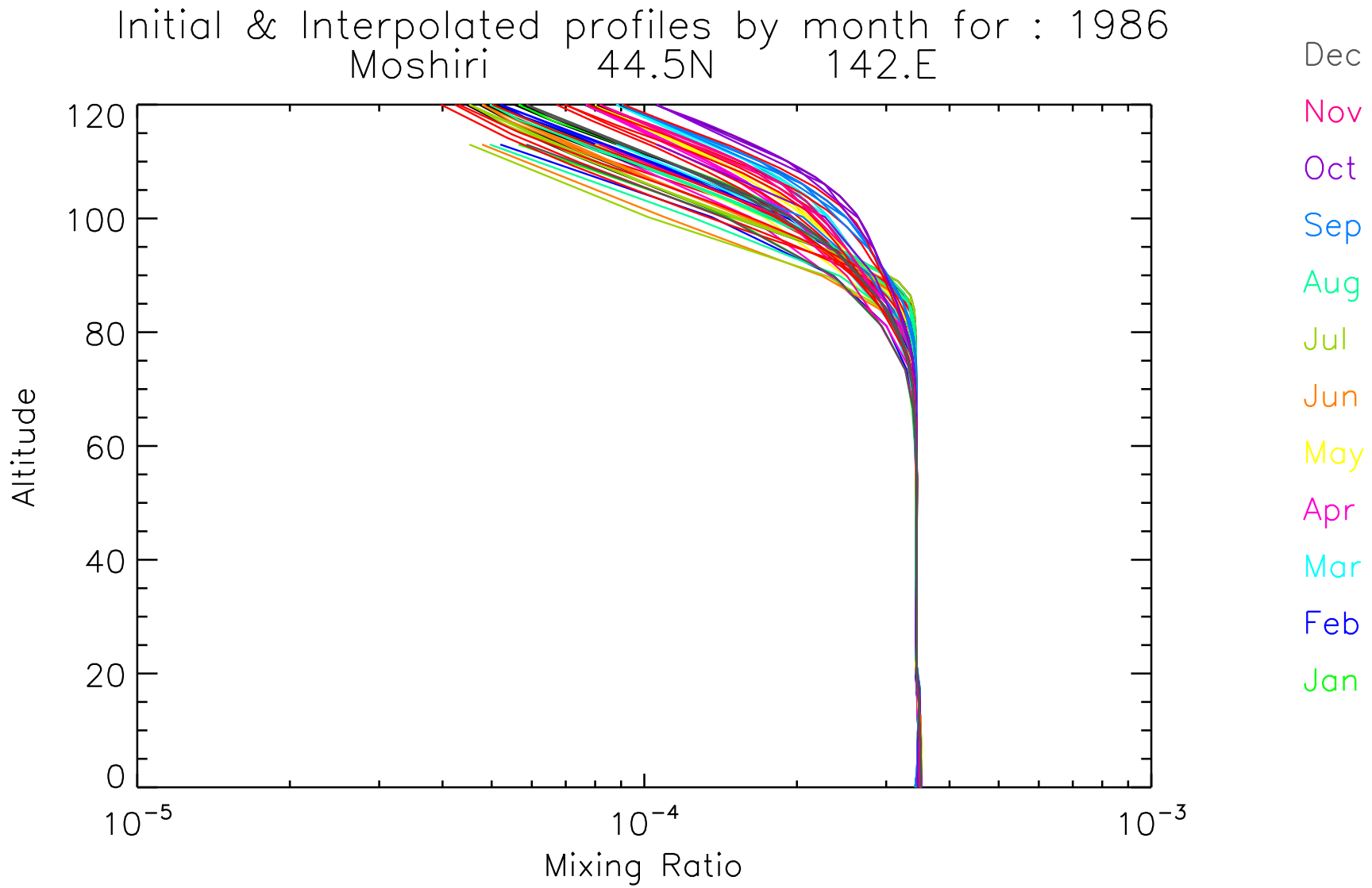
Initial & Interpolated profiles by month for : 1986
Moshiri 44.5N 142.E
Altitude
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100
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60
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Mixing Ratio
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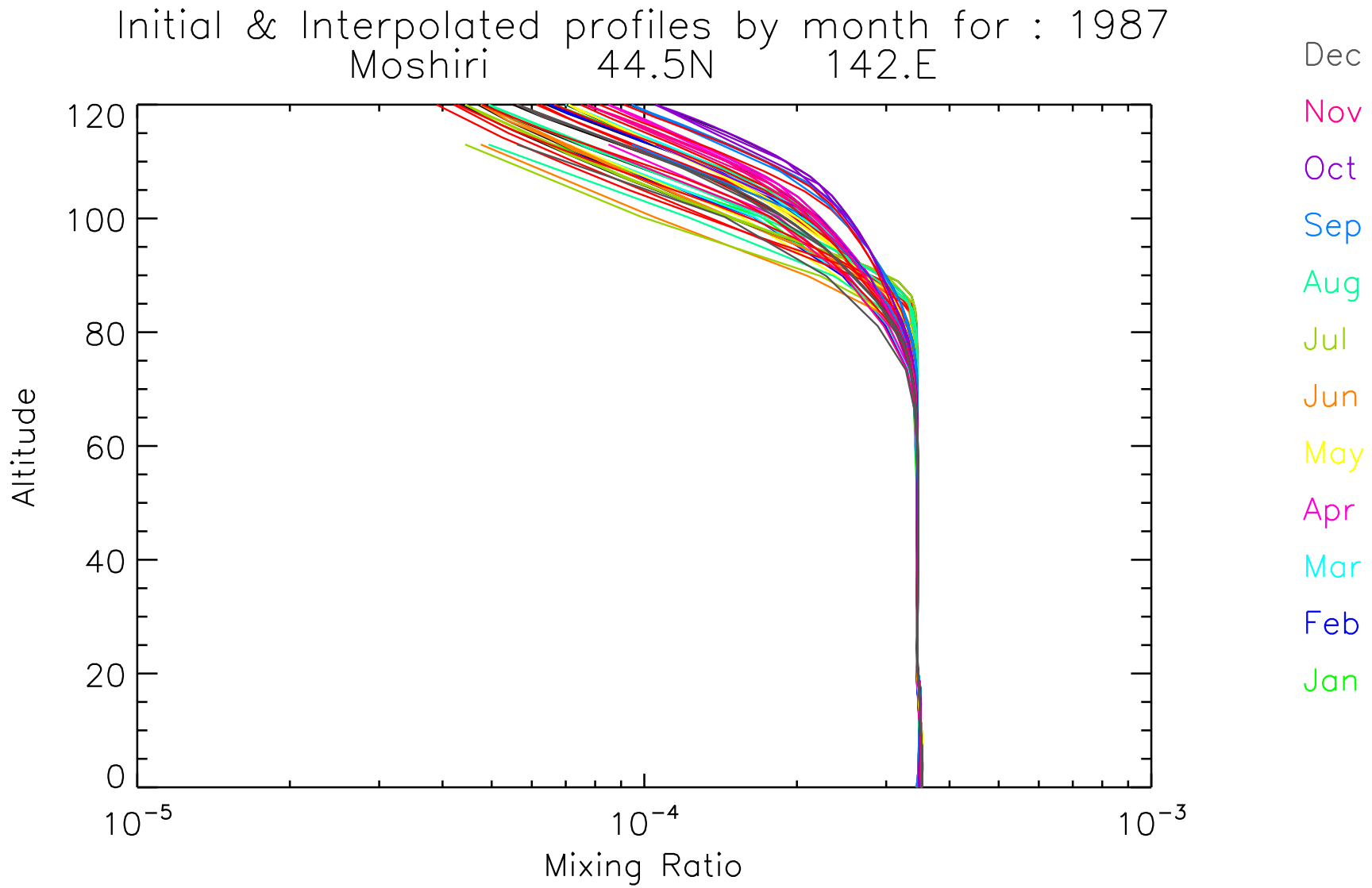
Initial & Interpolated profiles by month for : 1987
Moshiri 44.5N 142.E
Altitude
120
100
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60
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Mixing Ratio
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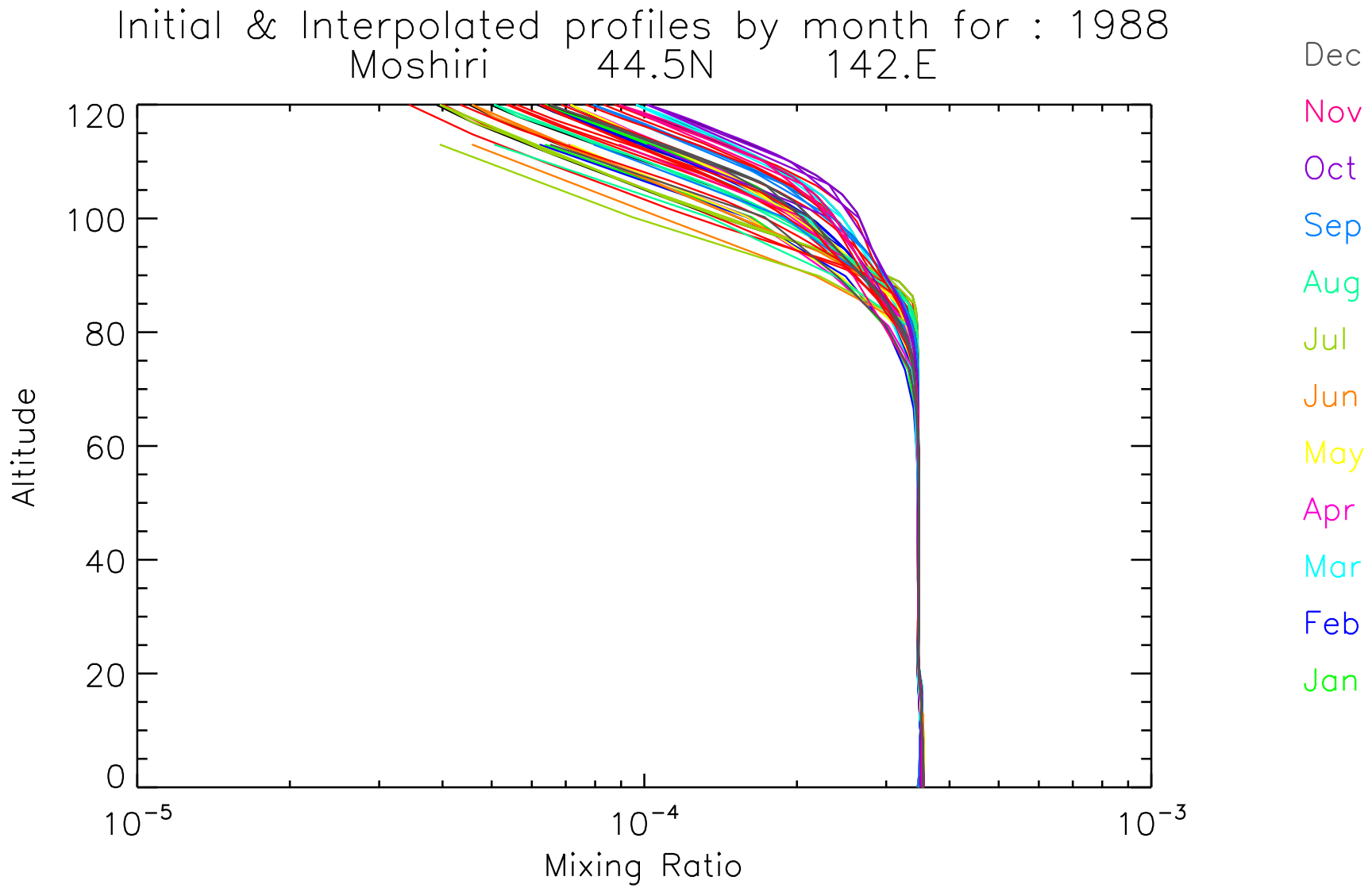
Initial & Interpolated profiles by month for : 1988
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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20
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Mixing Ratio
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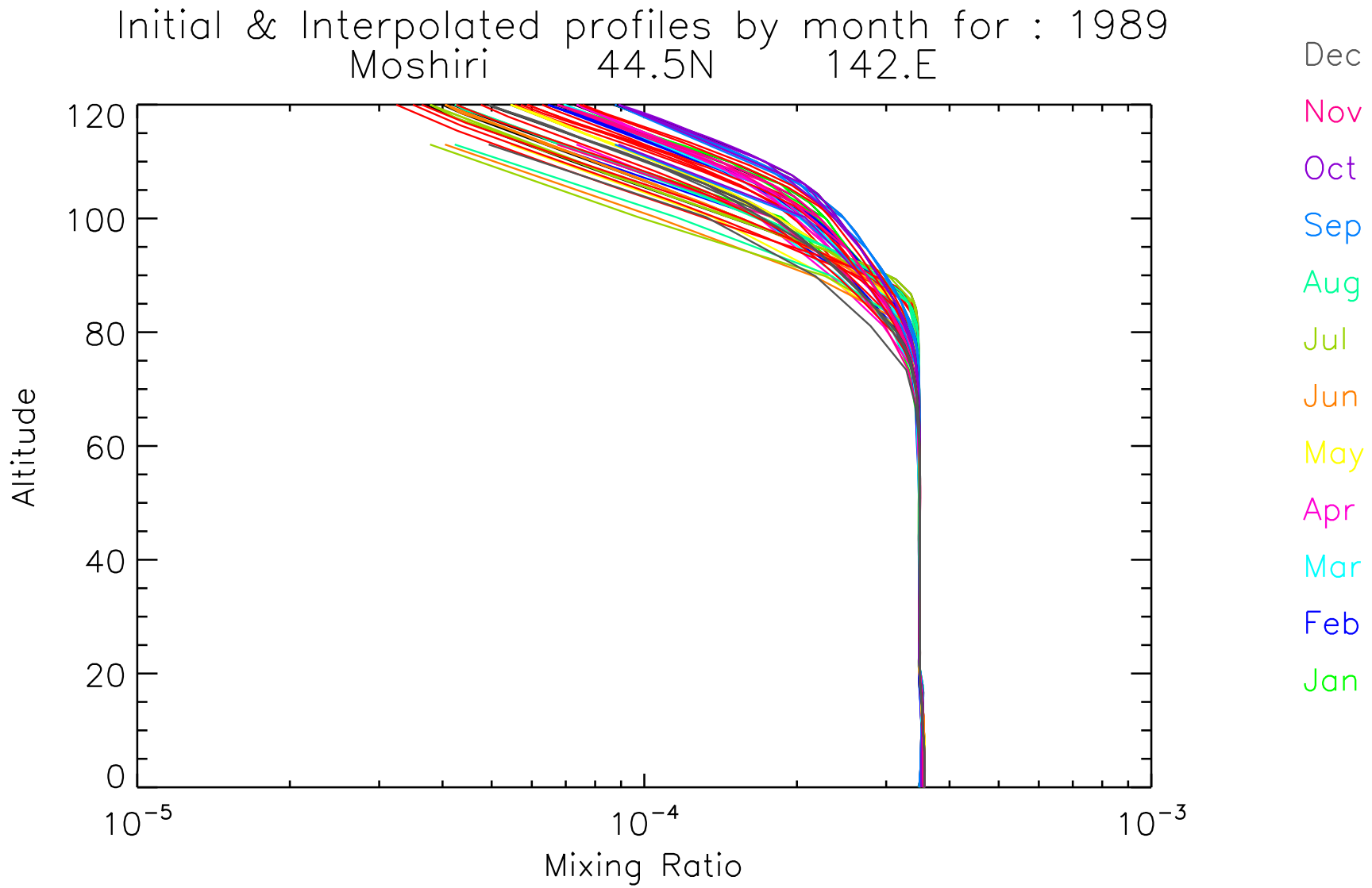
Initial & Interpolated profiles by month for : 1989
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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10^{-3}
Mixing Ratio
Dec
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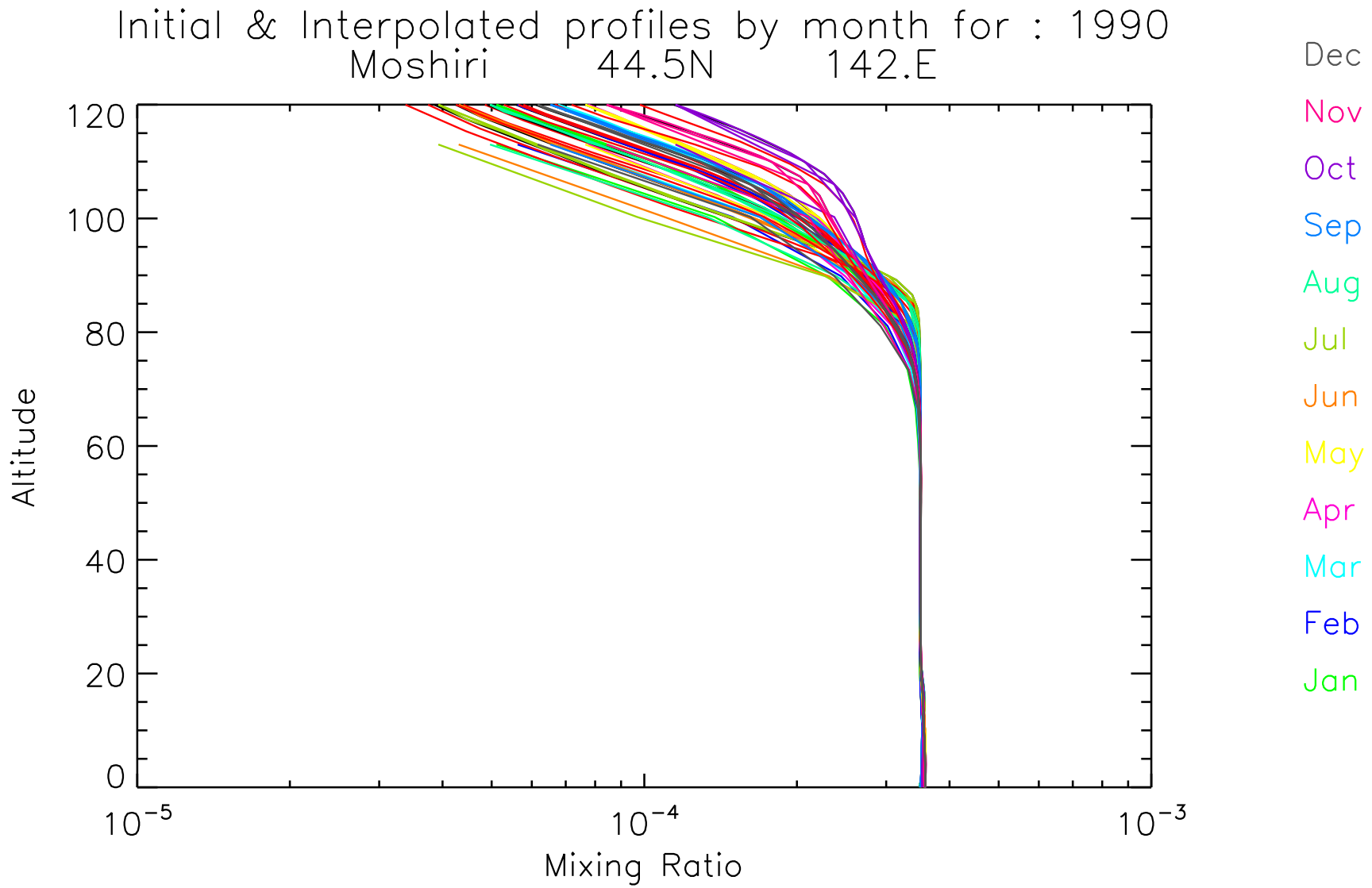
Jan


Initial & Interpolated profiles by month for : 1990
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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10^{-3}
Mixing Ratio
Dec
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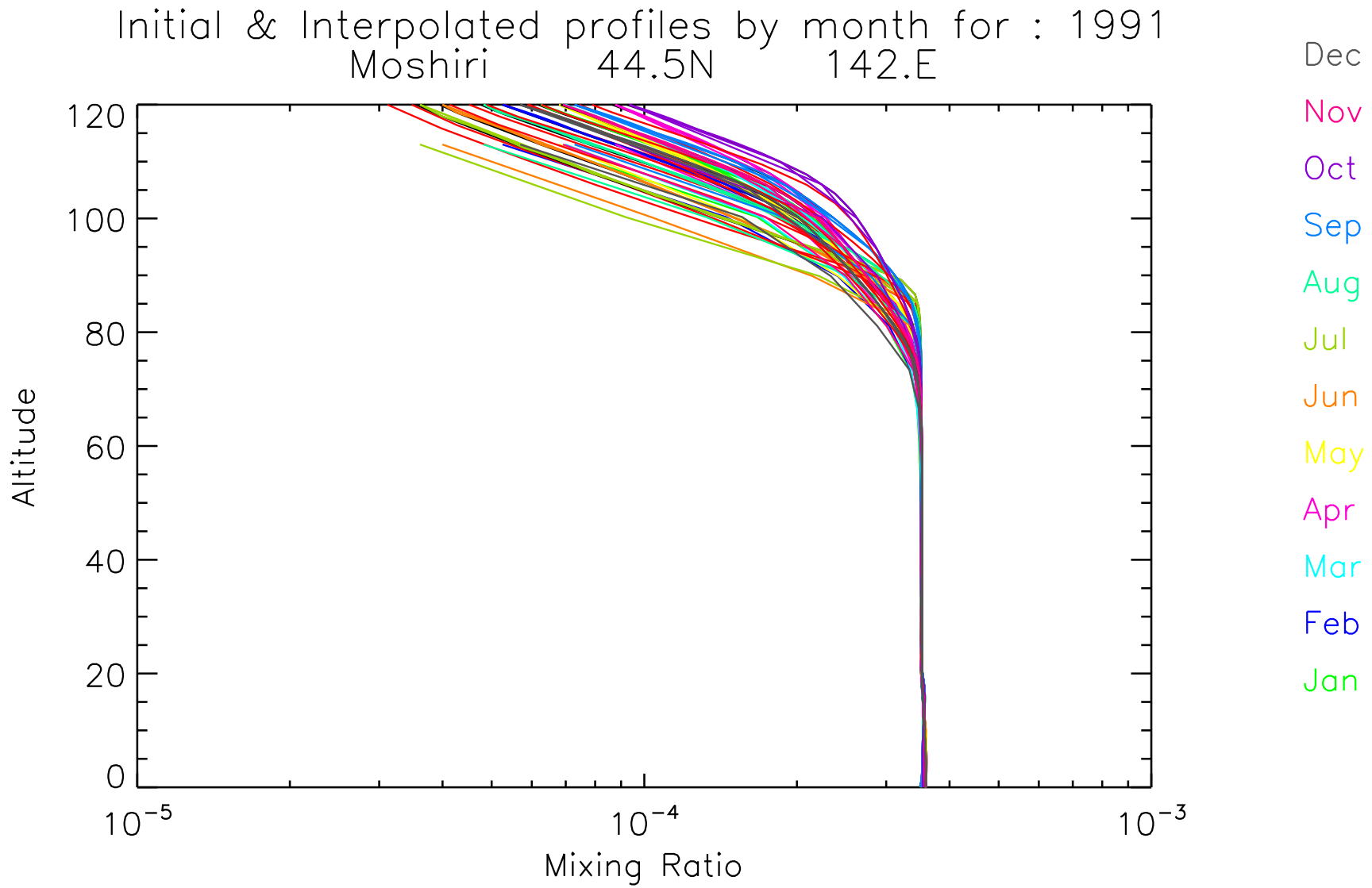
Initial & Interpolated profiles by month for : 1991
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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10^{-3}
Mixing Ratio
Dec
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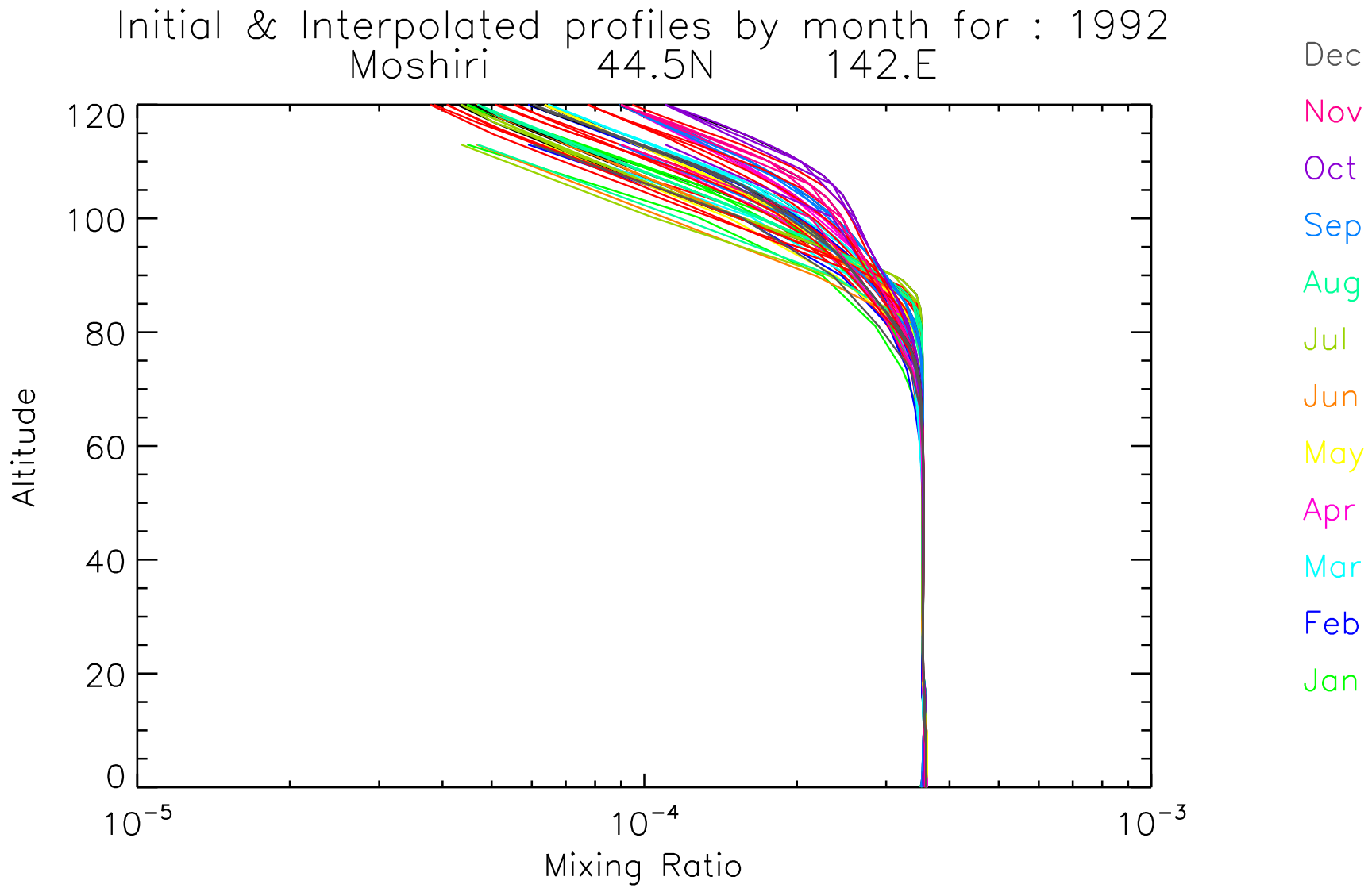
Initial & Interpolated profiles by month for : 1992
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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20
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10^{-3}
Mixing Ratio
Dec
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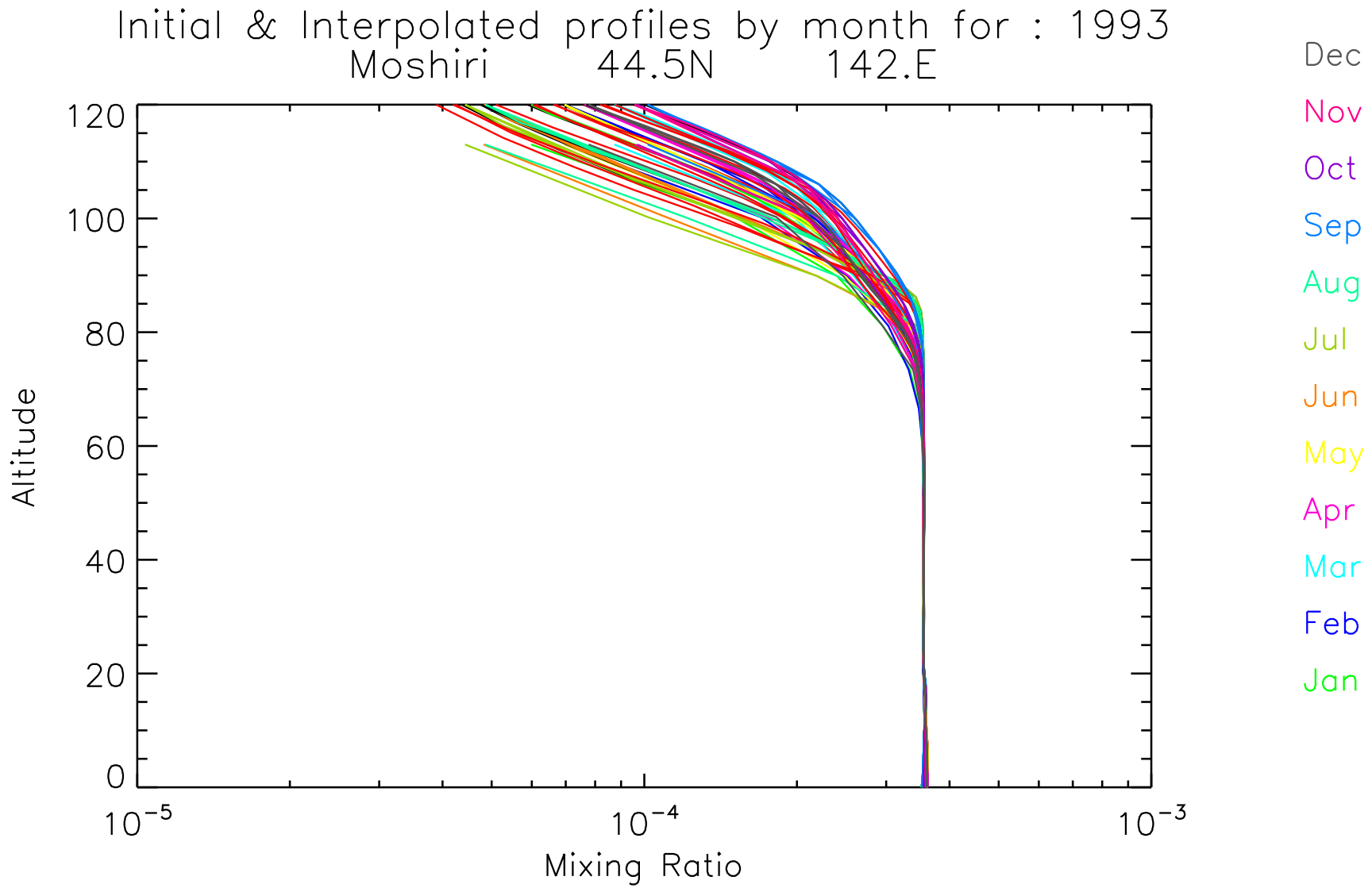
Initial & Interpolated profiles by month for : 1993
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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10^{-3}
Mixing Ratio
Dec
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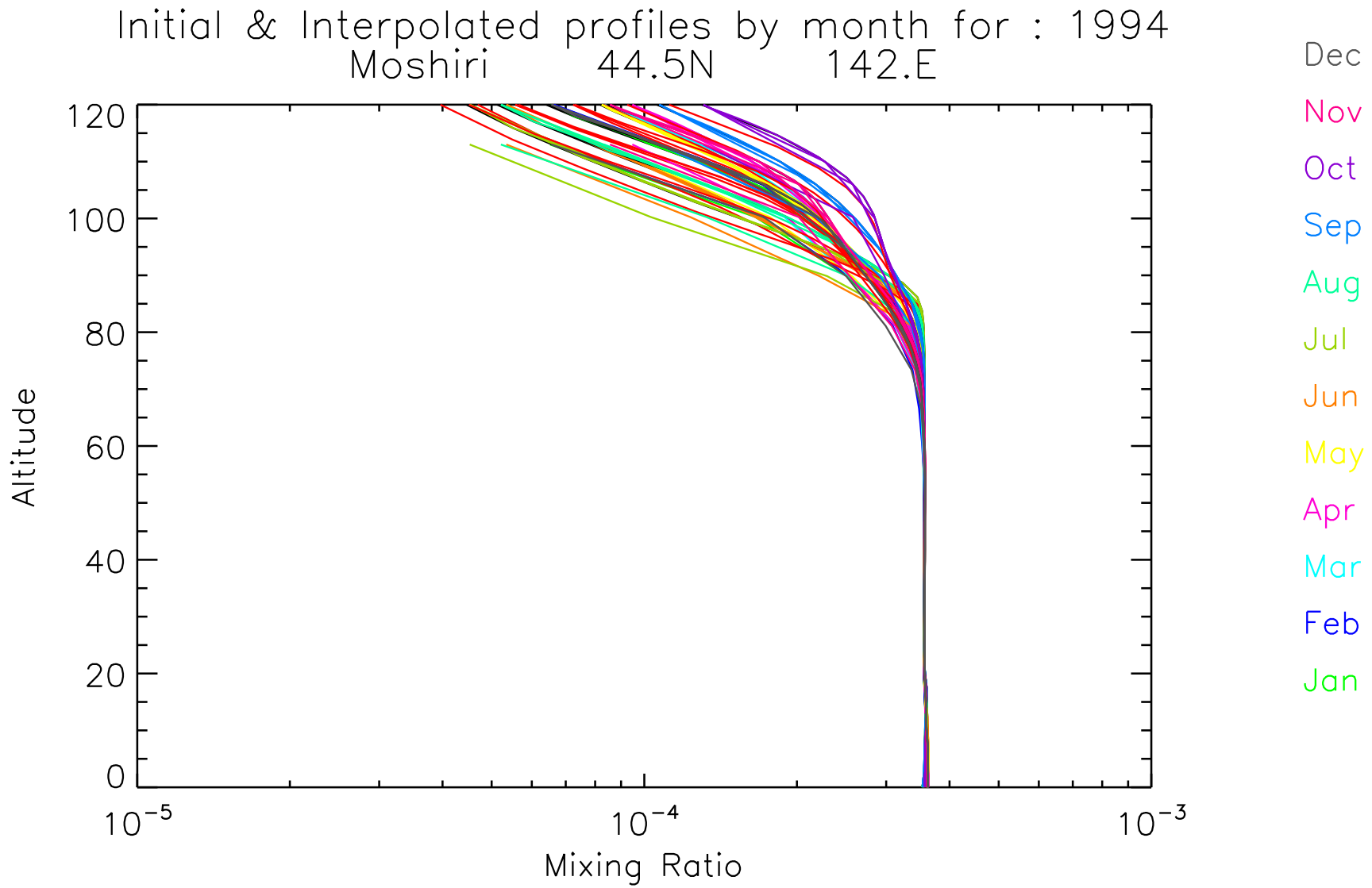
Initial & Interpolated profiles by month for : 1994
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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10^{-3}
Mixing Ratio
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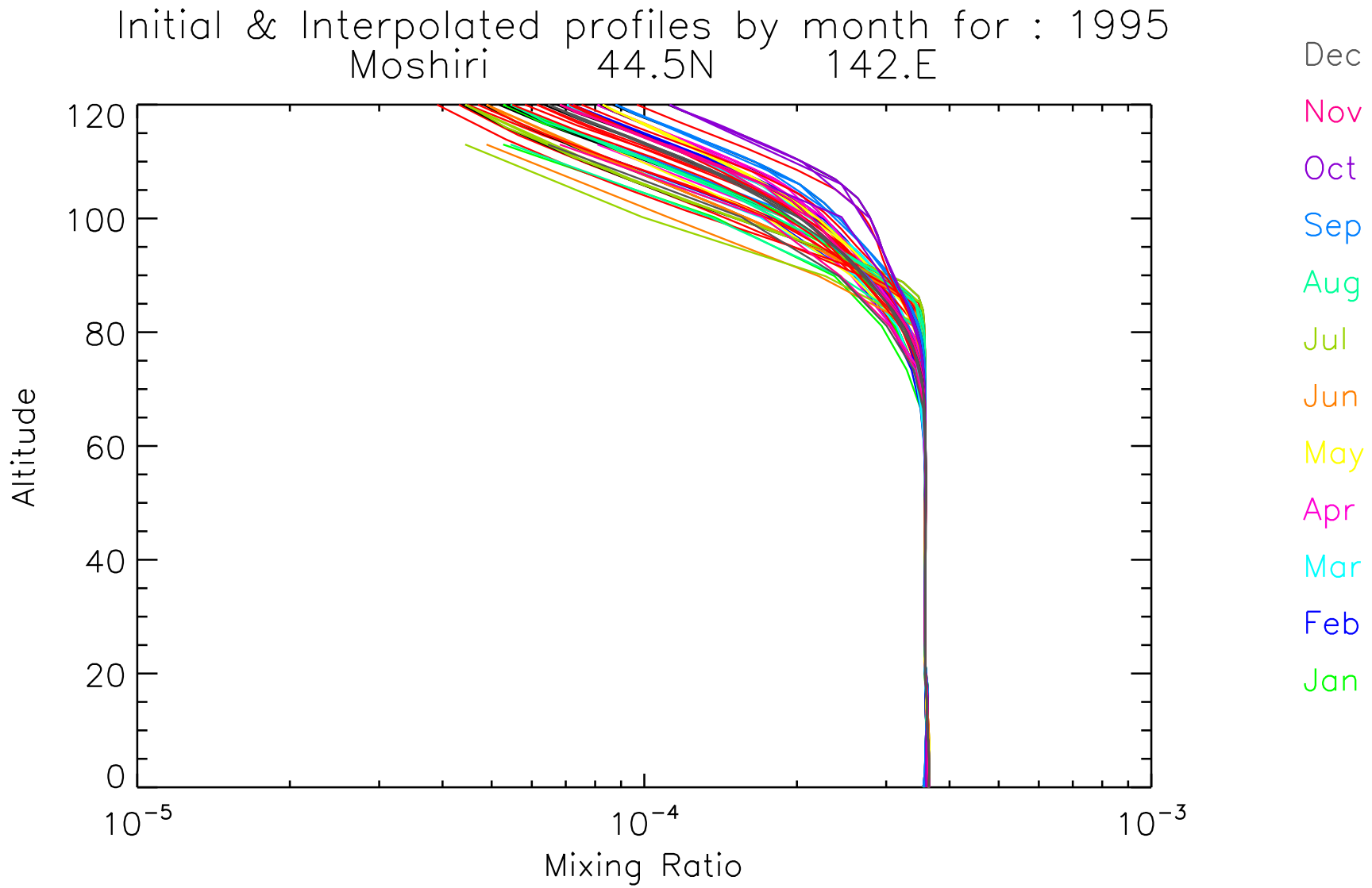
Initial & Interpolated profiles by month for : 1995
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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20
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10^{-3}
Mixing Ratio
Dec
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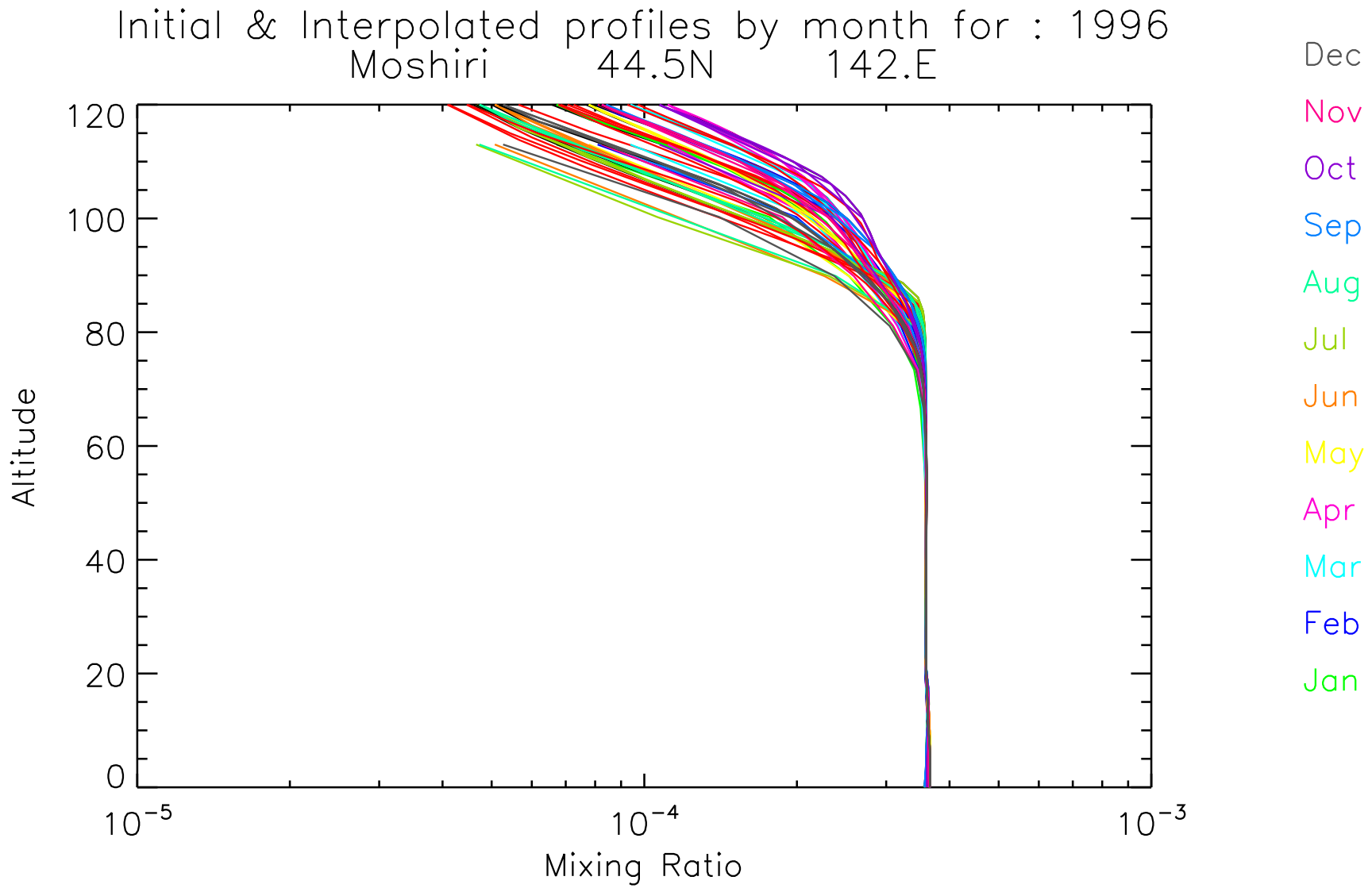
Jan


Initial & Interpolated profiles by month for : 1996
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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Mixing Ratio
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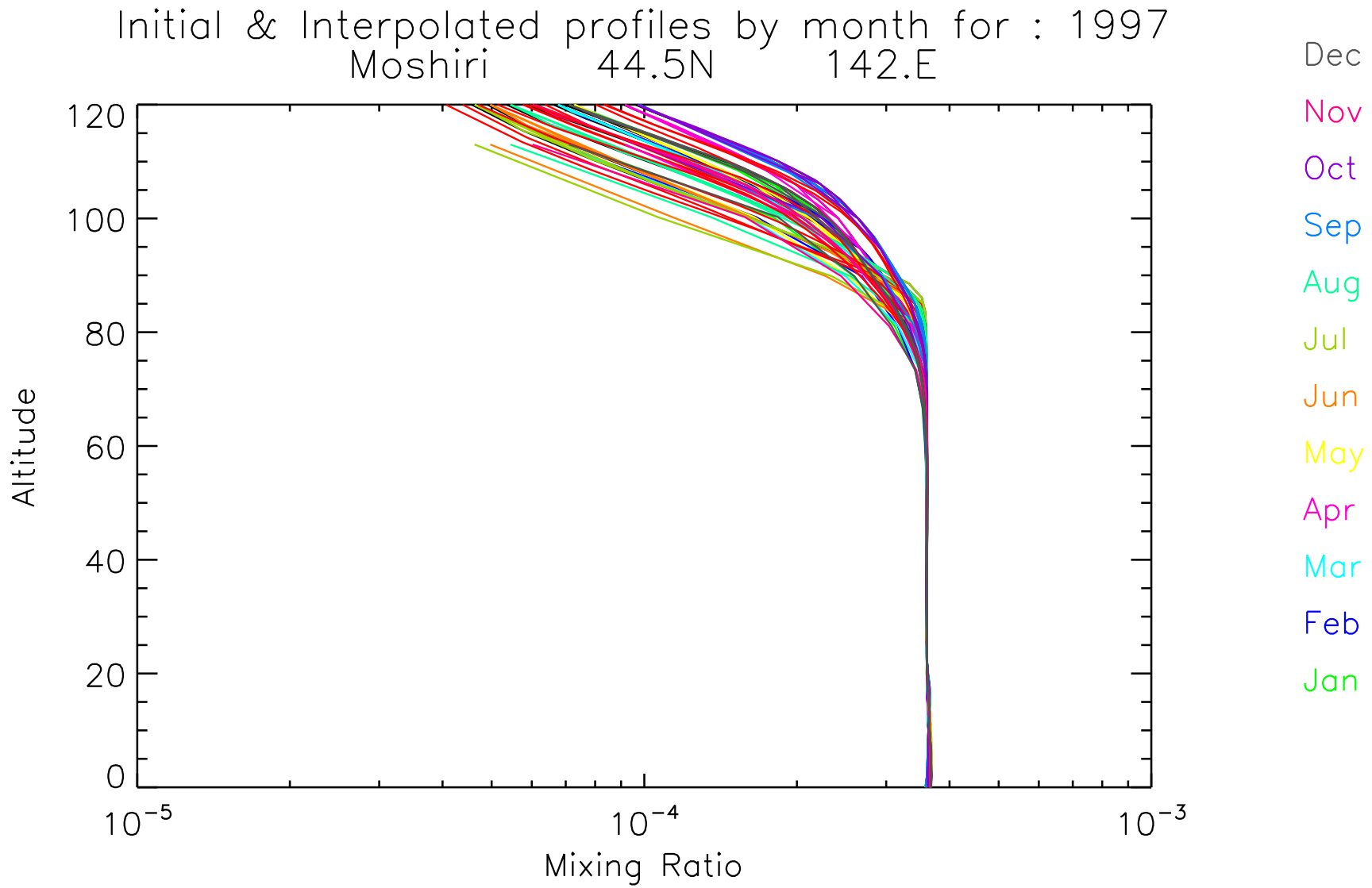
Initial & Interpolated profiles by month for : 1997
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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20
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10^{-3}
Mixing Ratio
Dec
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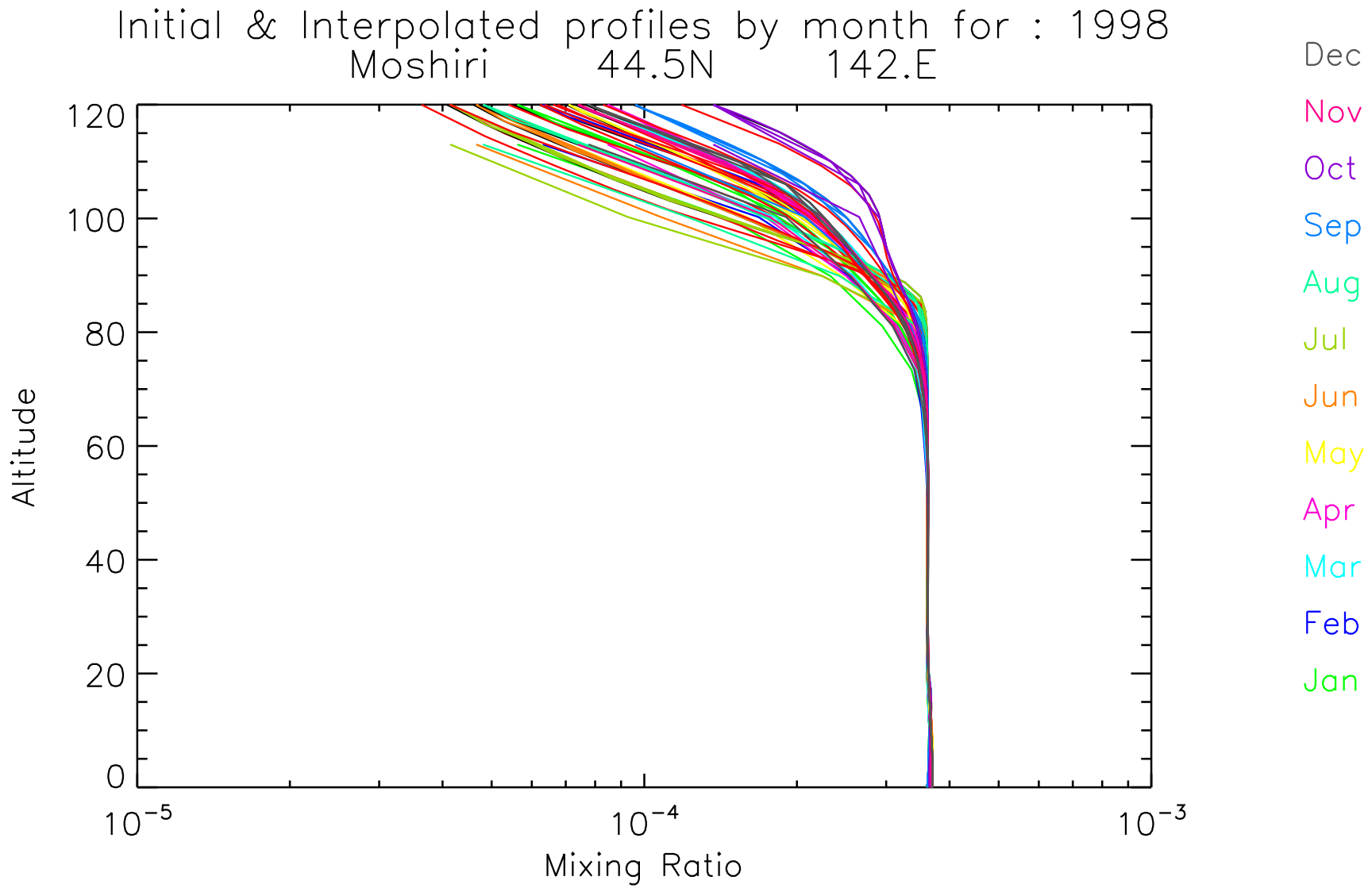
Initial & Interpolated profiles by month for : 1998
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
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10^{-3}
Mixing Ratio
Dec
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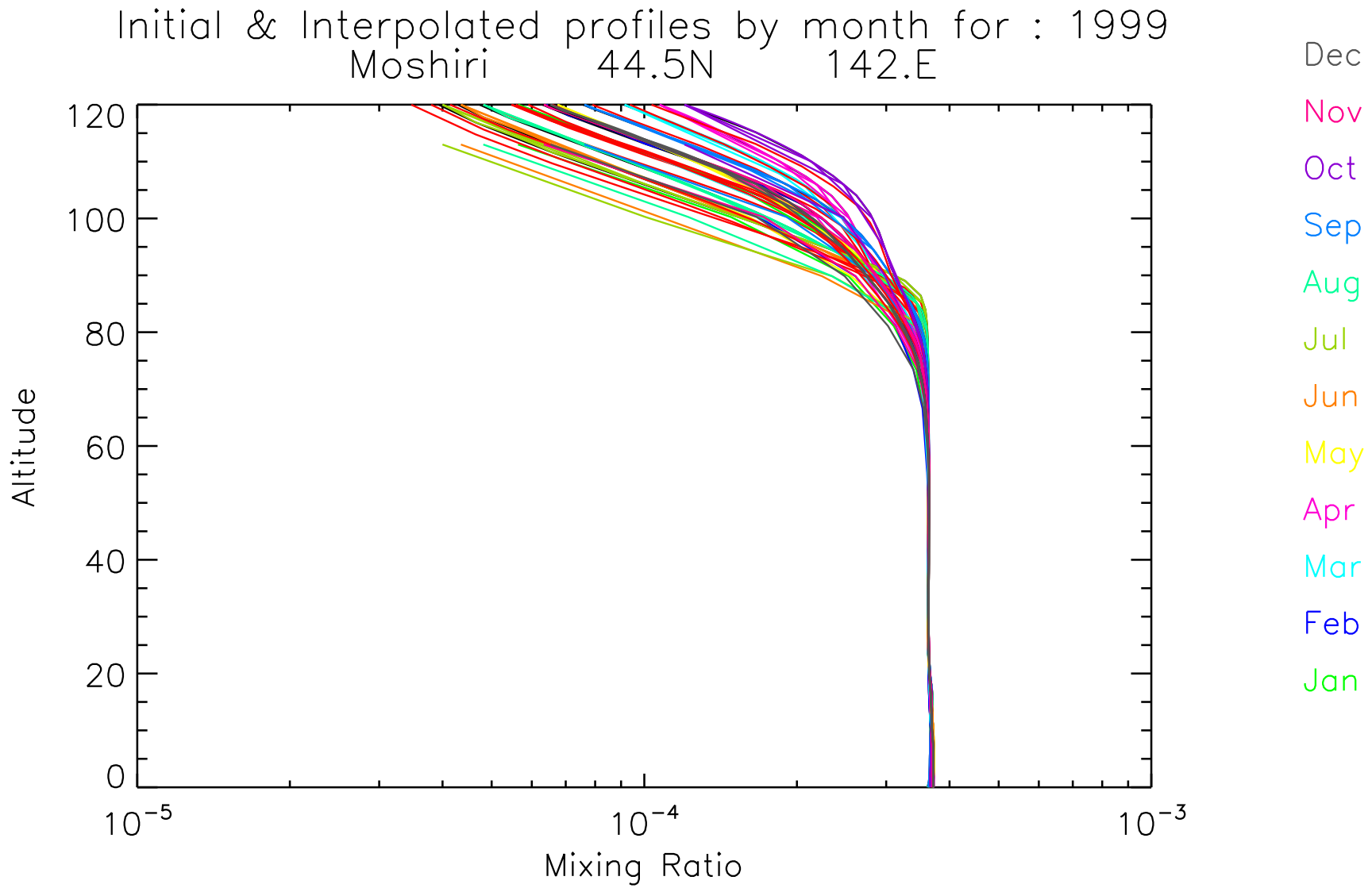
Initial & Interpolated profiles by month for : 1999
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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Mixing Ratio
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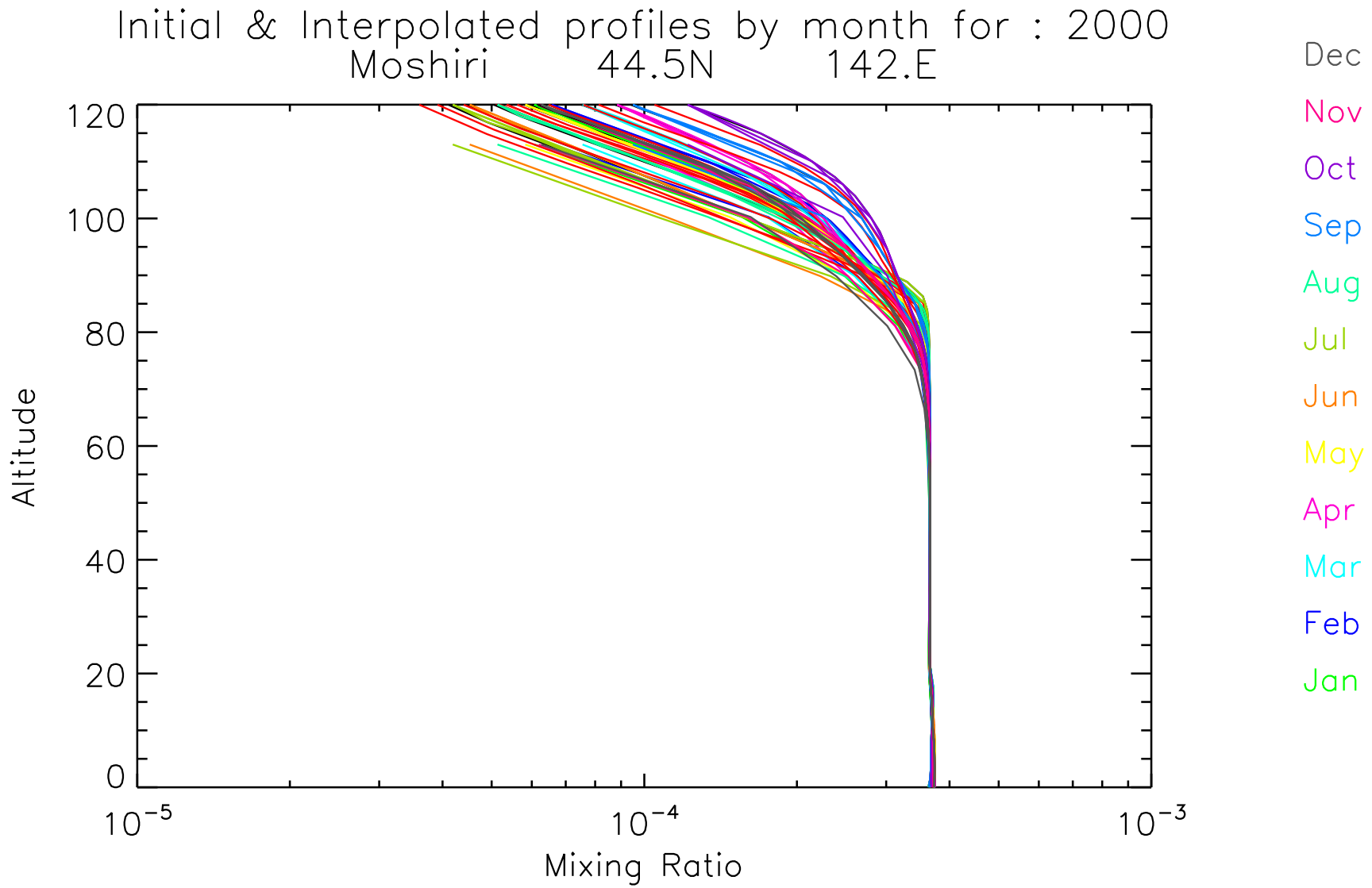
Initial & Interpolated profiles by month for : 2000
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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Mixing Ratio
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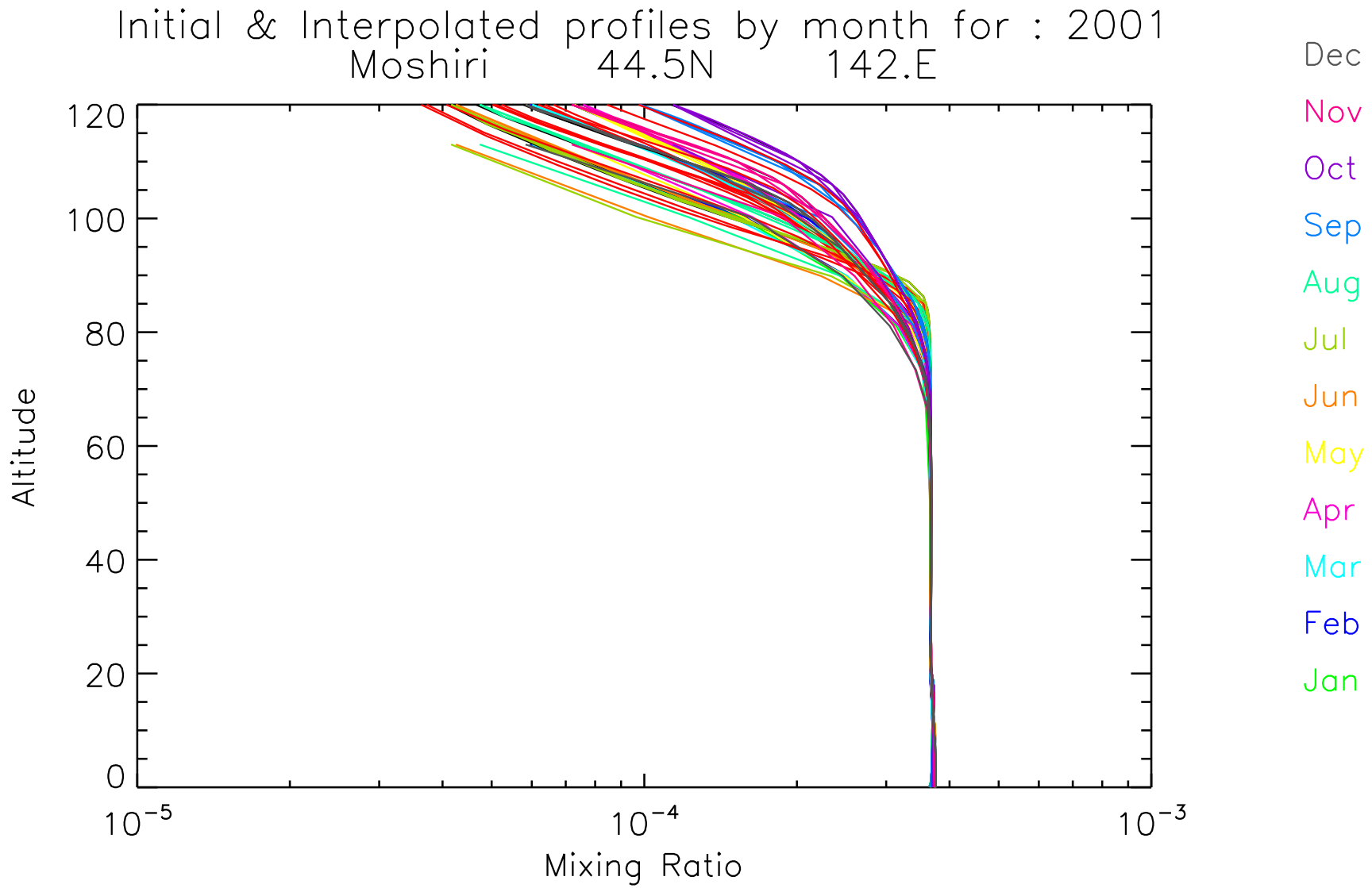
Initial & Interpolated profiles by month for : 2001
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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Mixing Ratio
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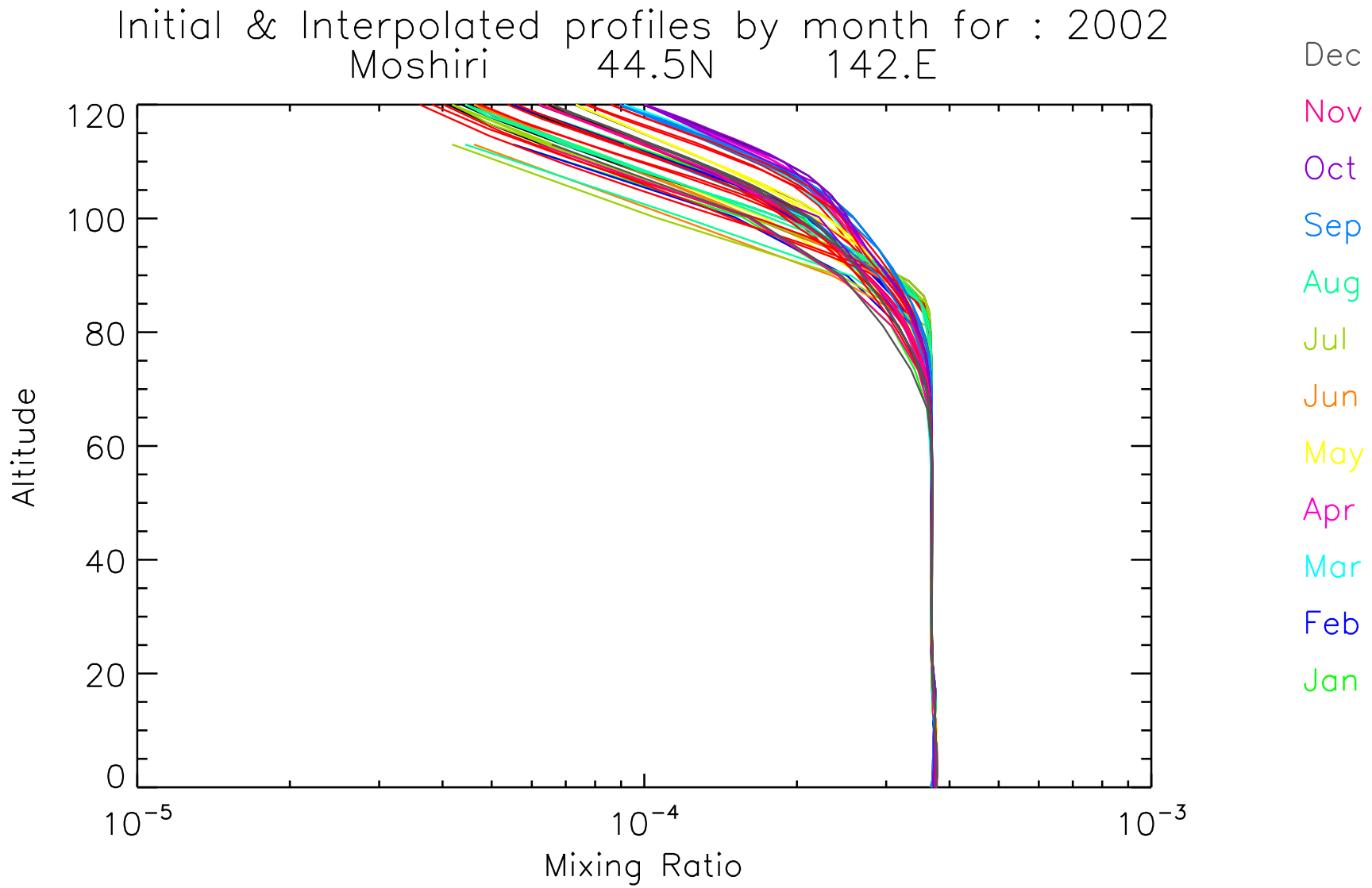
Initial & Interpolated profiles by month for : 2002
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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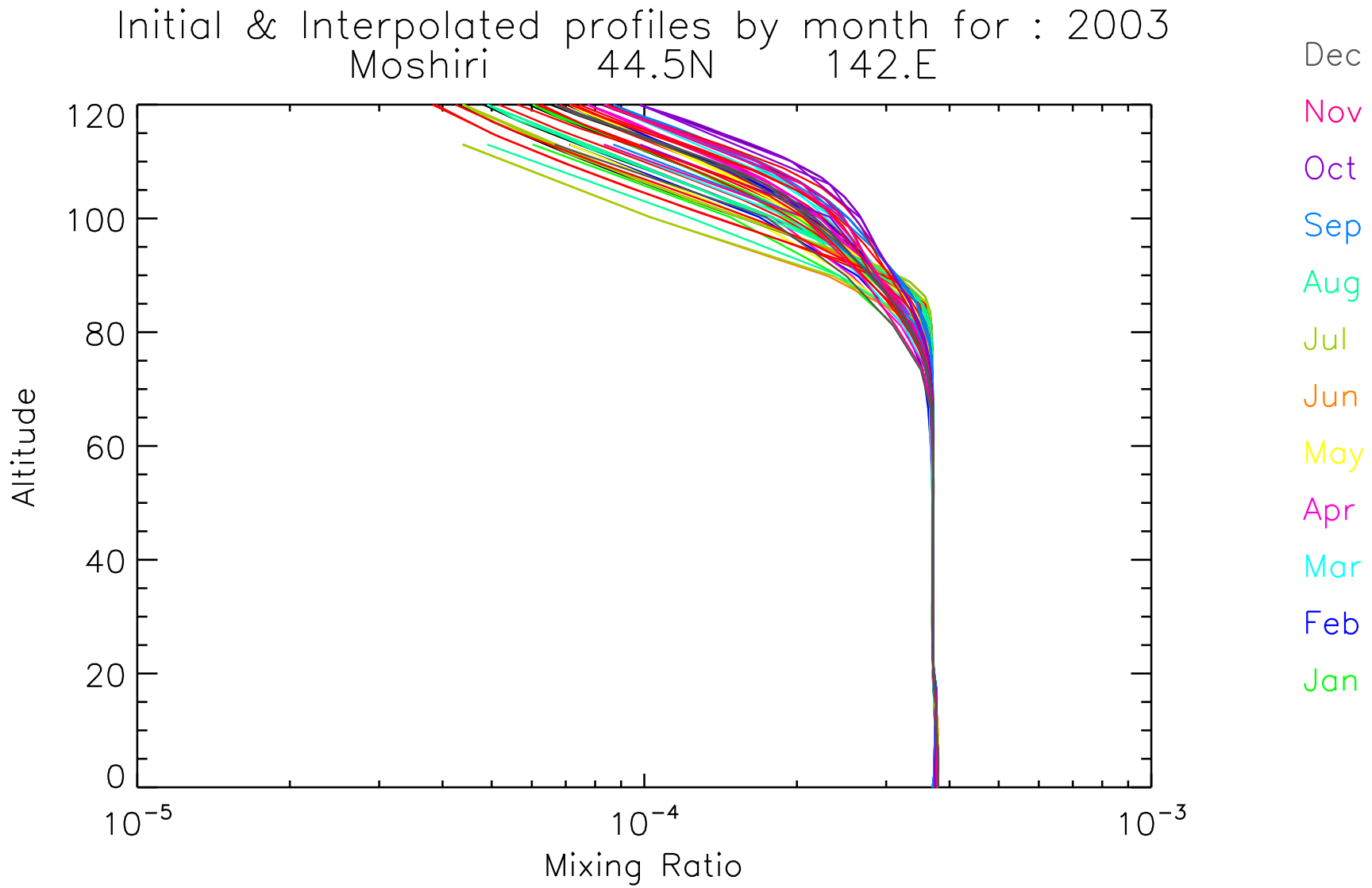
Initial & Interpolated profiles by month for : 2003
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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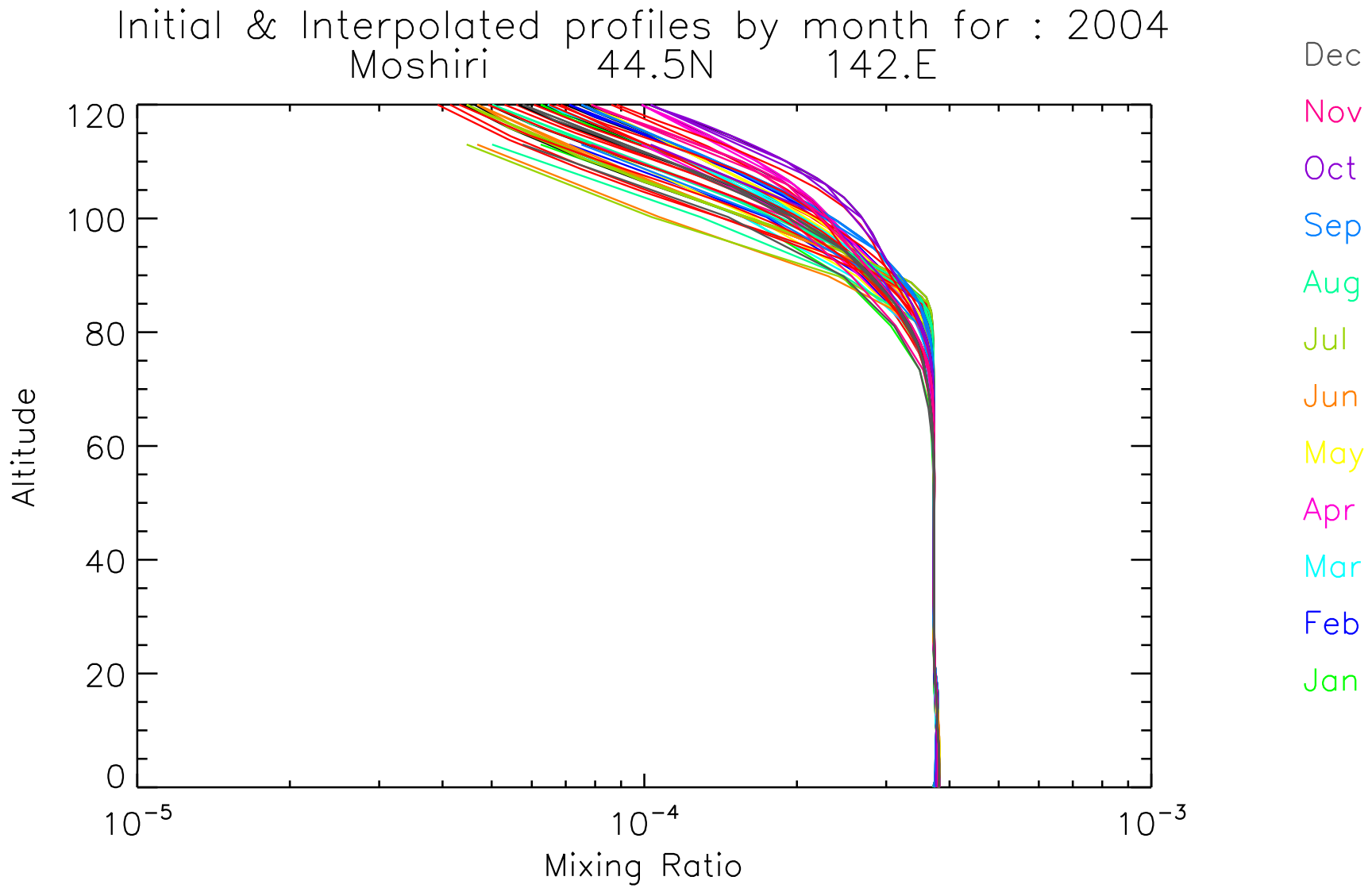
Initial & Interpolated profiles by month for : 2004
Moshiri 44.5N 142.E
Altitude
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10^{-3}
Mixing Ratio
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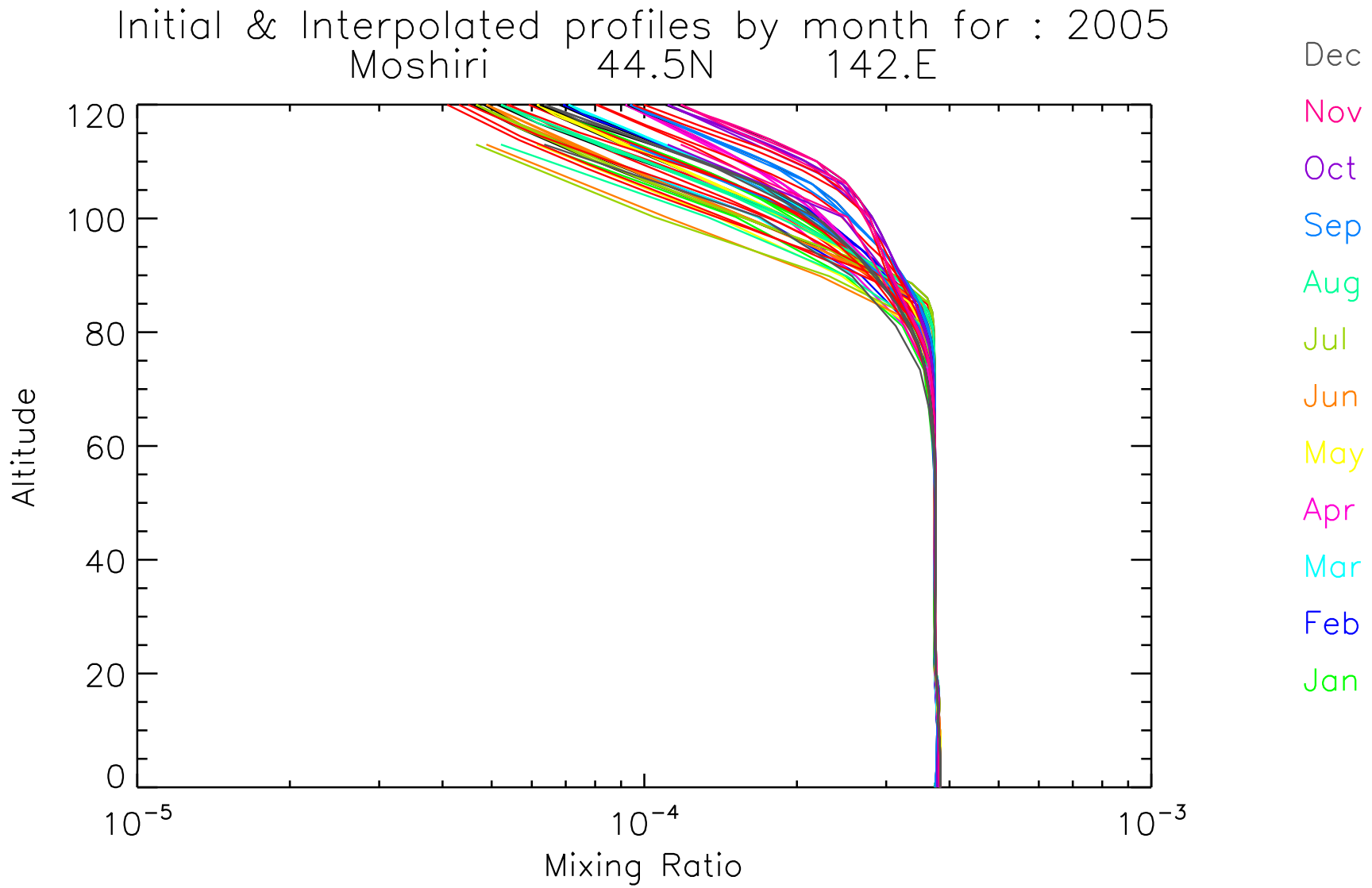
Initial & Interpolated profiles by month for : 2005
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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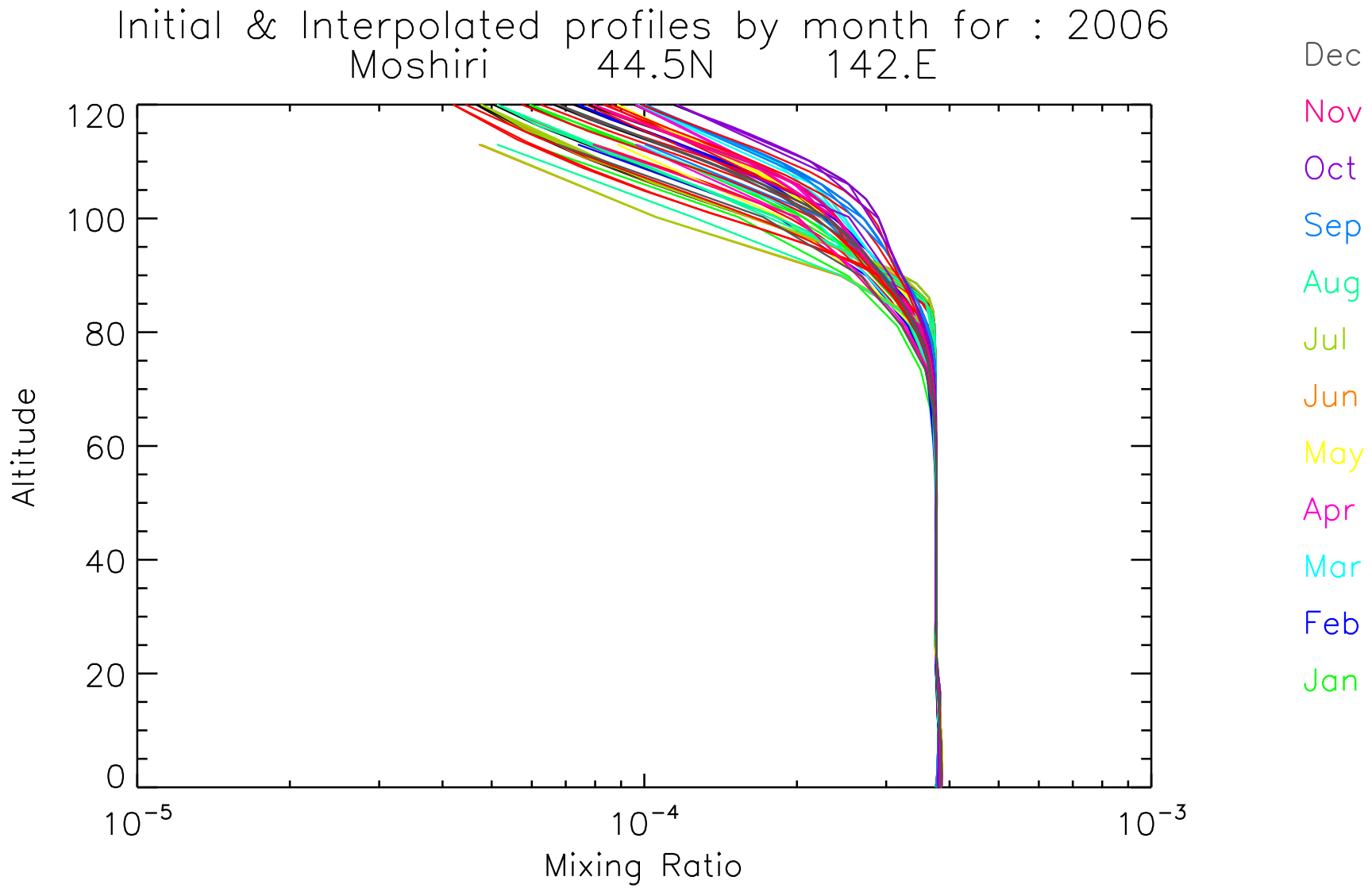
Initial & Interpolated profiles by month for : 2006
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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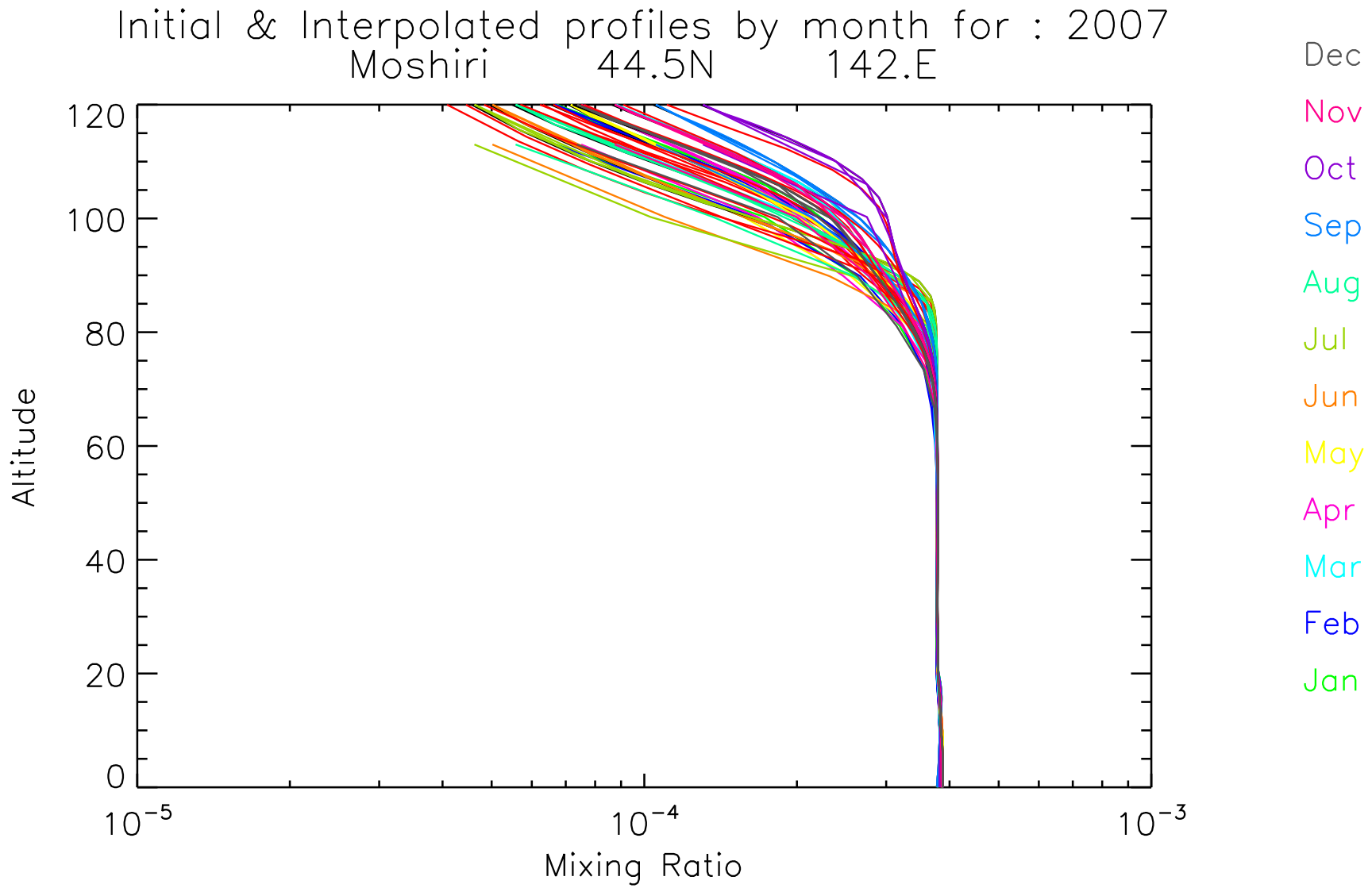
Initial & Interpolated profiles by month for : 2007
Moshiri 44.5N 142.E
Altitude
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10^{-3}
Mixing Ratio
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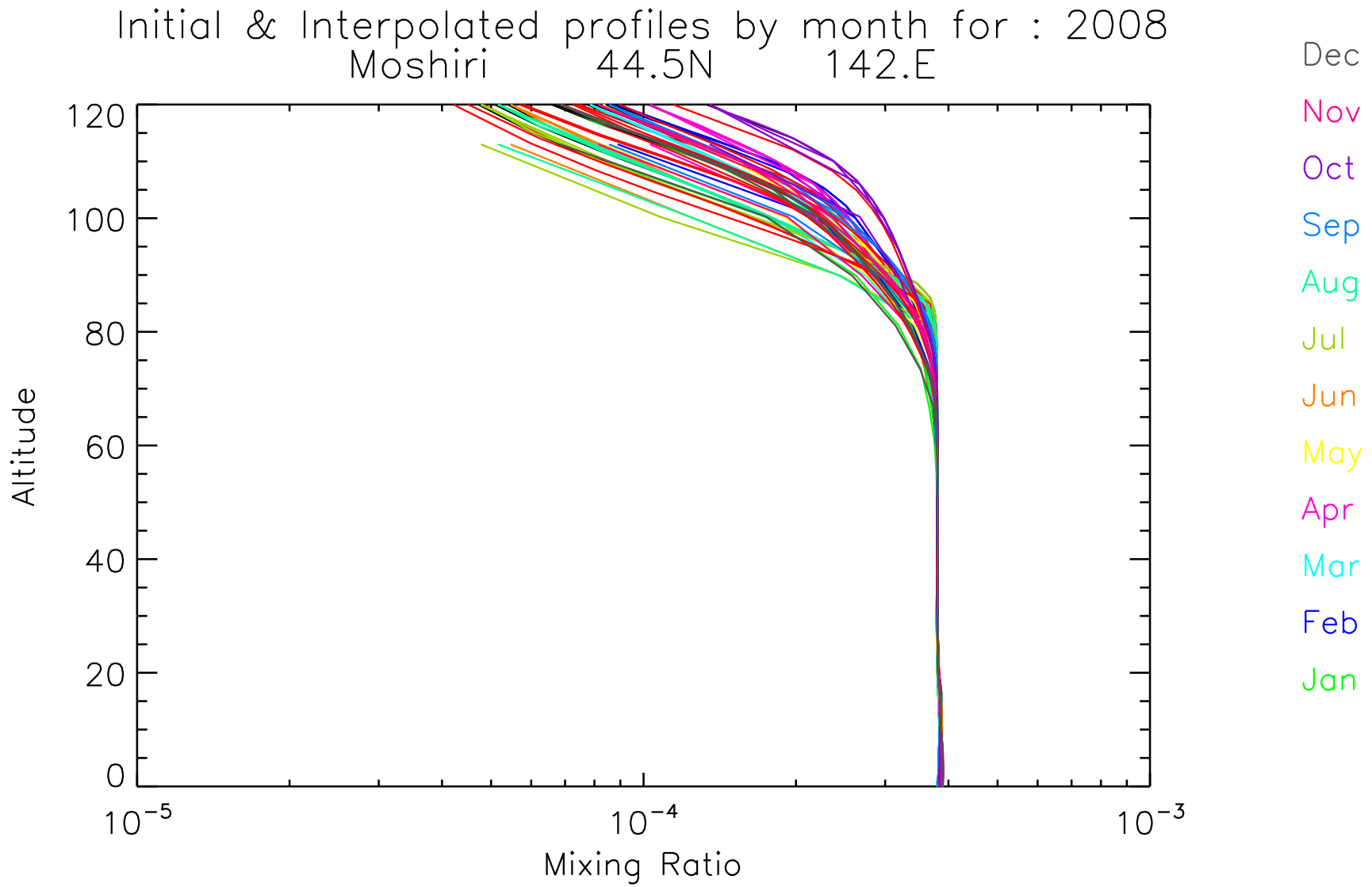
Initial & Interpolated profiles by month for : 2008
Moshiri 44.5N 142.E
Altitude
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10^{-3}
Mixing Ratio
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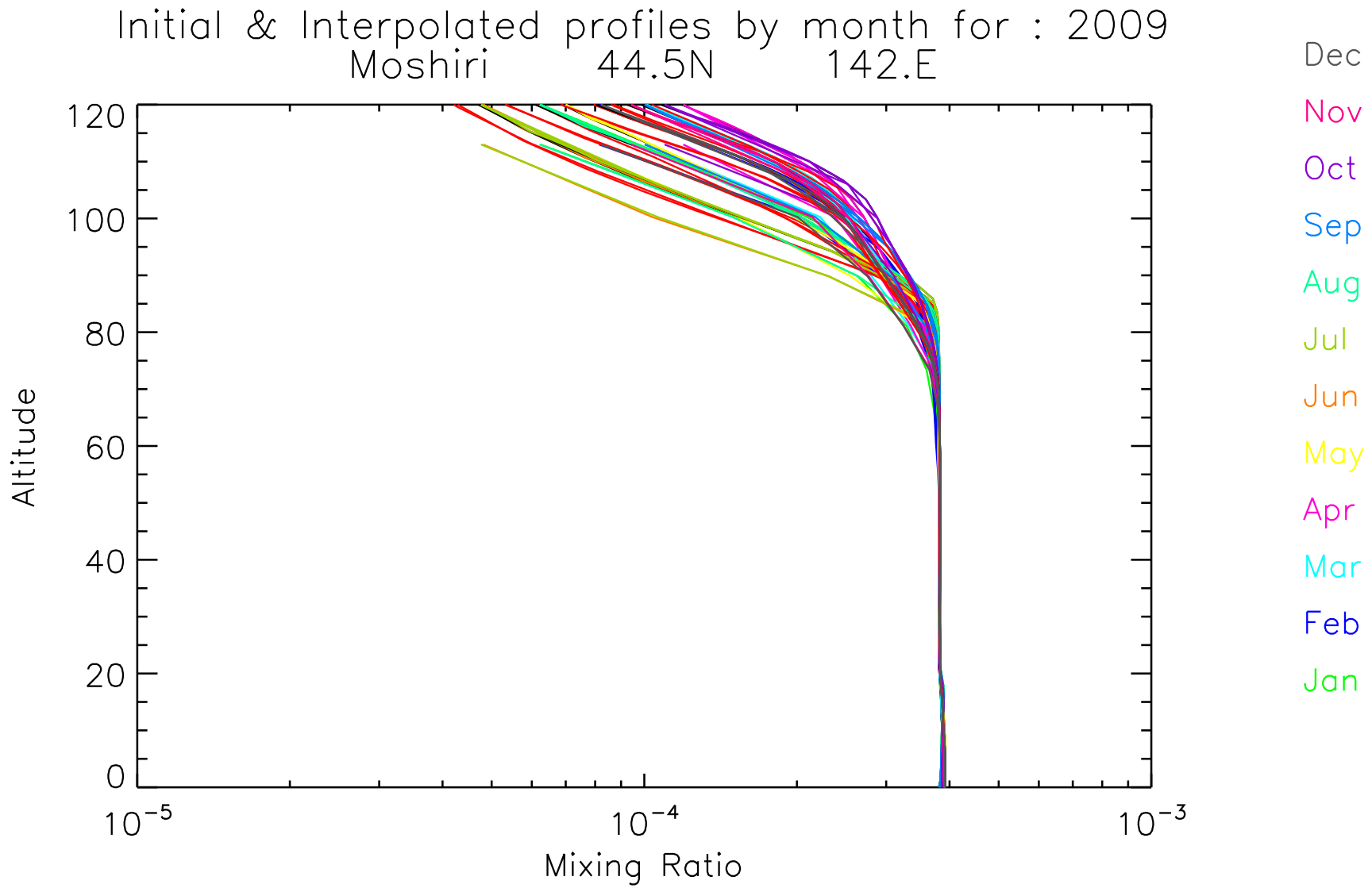
Initial & Interpolated profiles by month for : 2009
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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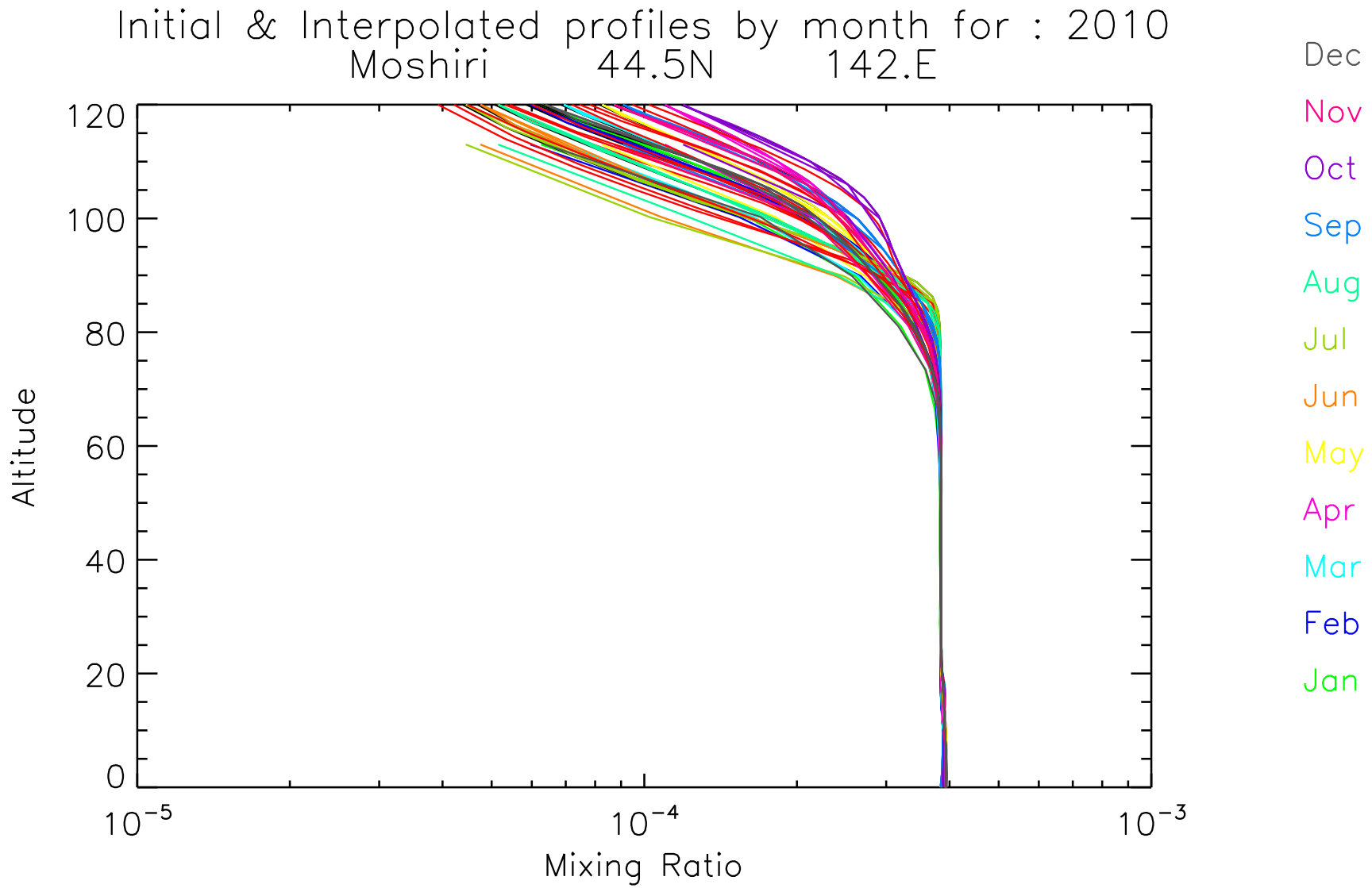
Initial & Interpolated profiles by month for : 2010
Moshiri 44.5N 142.E
Altitude
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10^{-3}
Mixing Ratio
Dec
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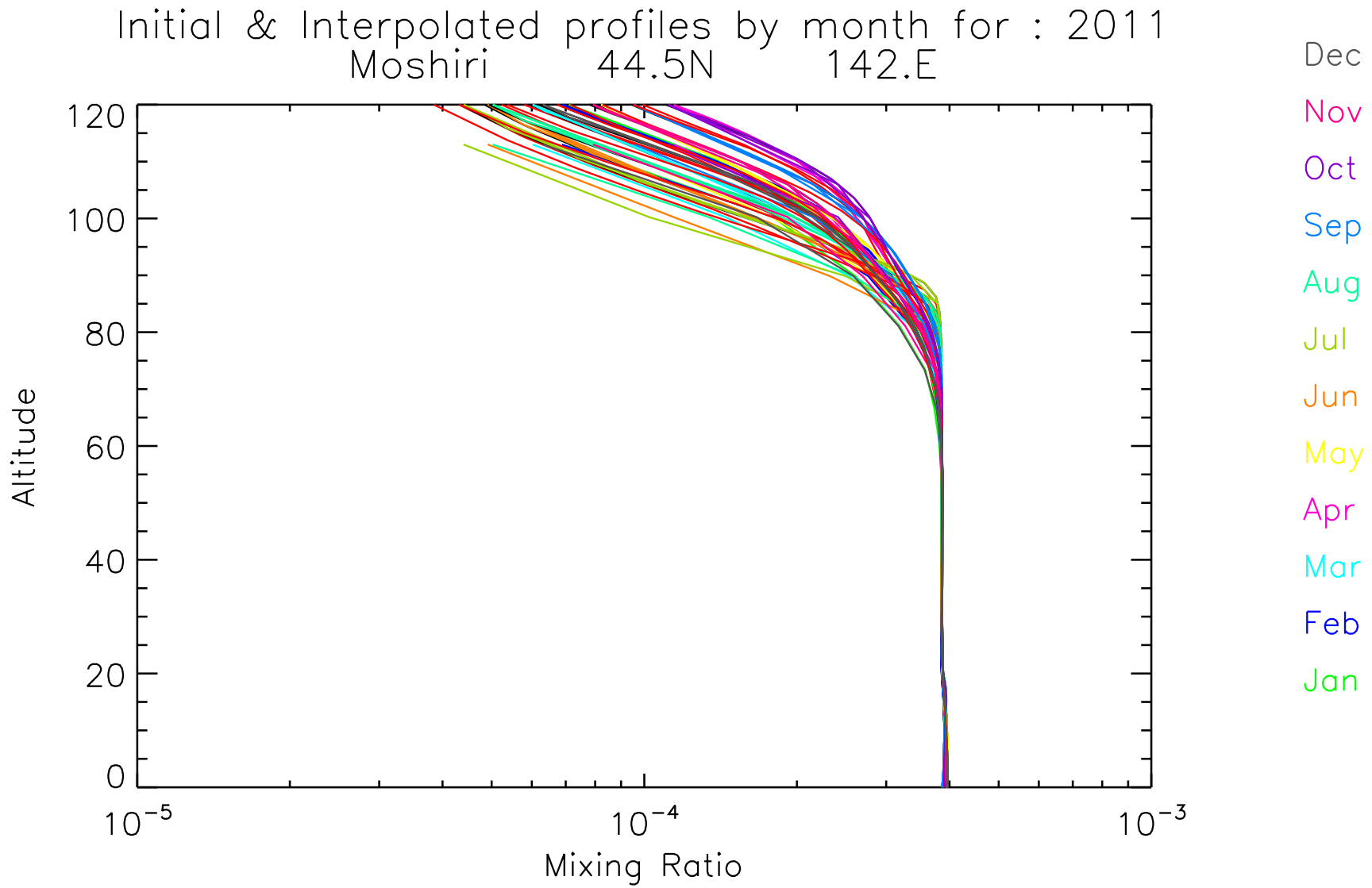
Initial & Interpolated profiles by month for : 2011
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
Dec
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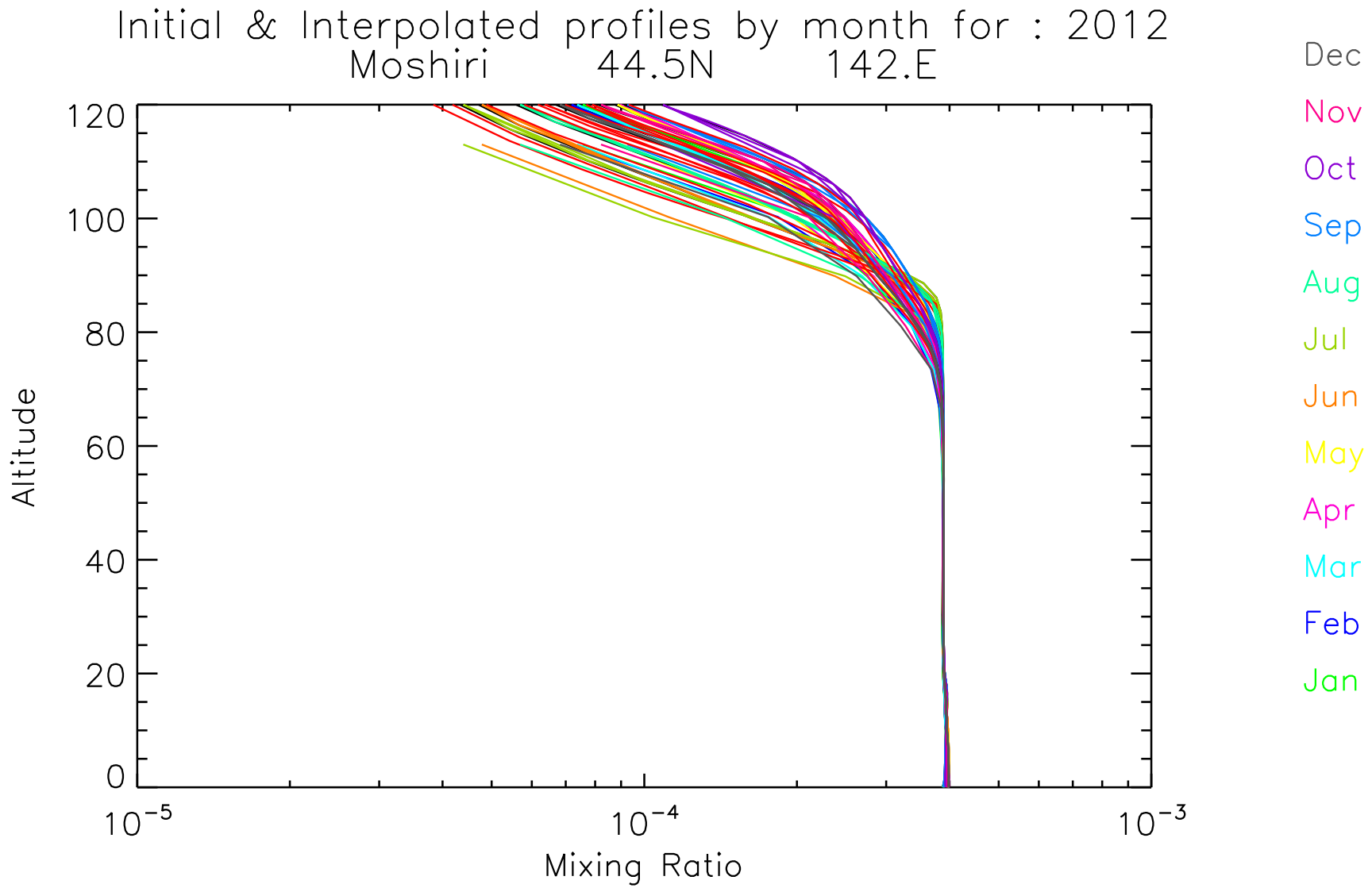
Initial & Interpolated profiles by month for : 2012
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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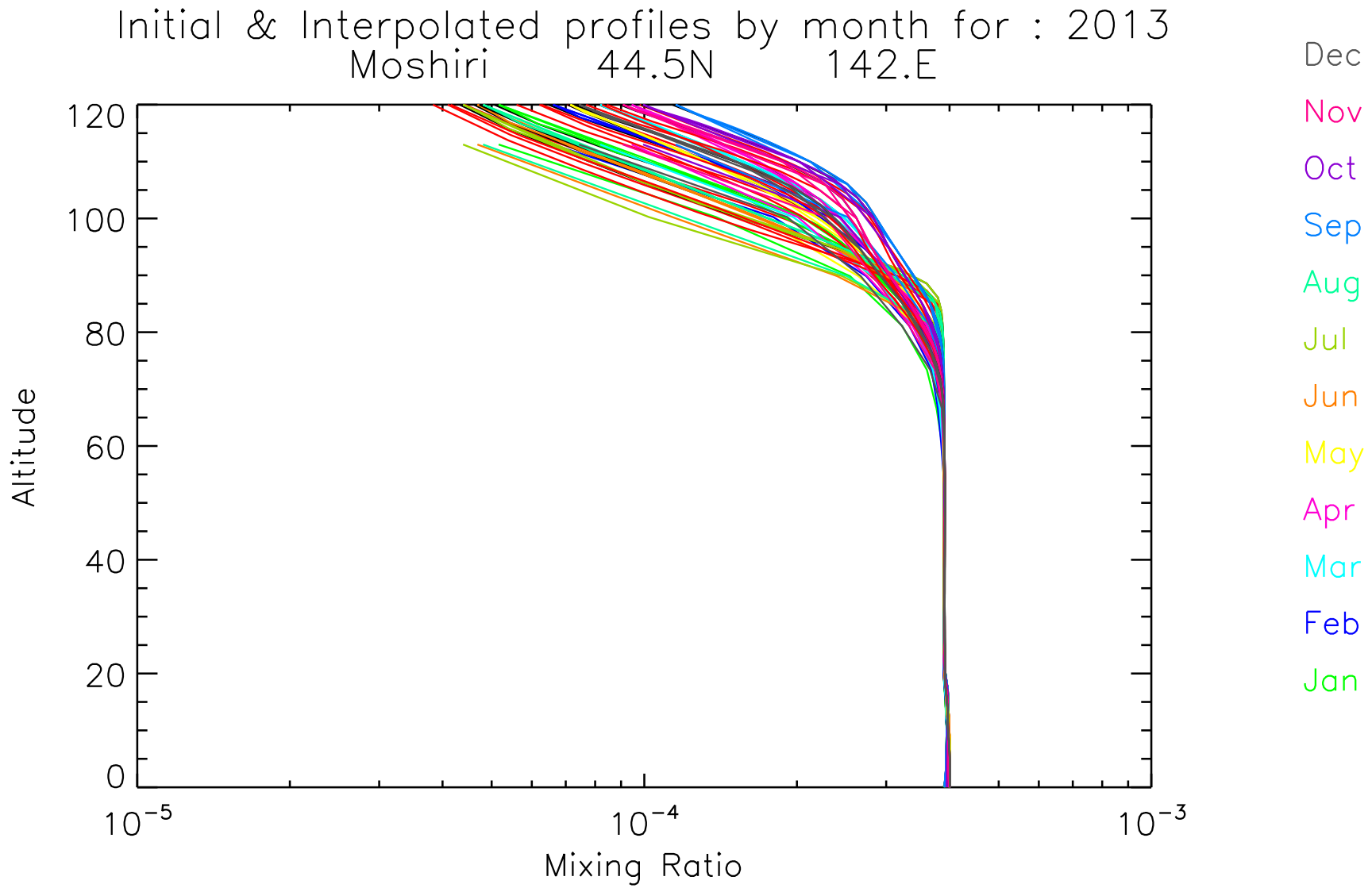
Initial & Interpolated profiles by month for : 2013
Moshiri 44.5N 142.E
Altitude
120
100
80
60
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10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
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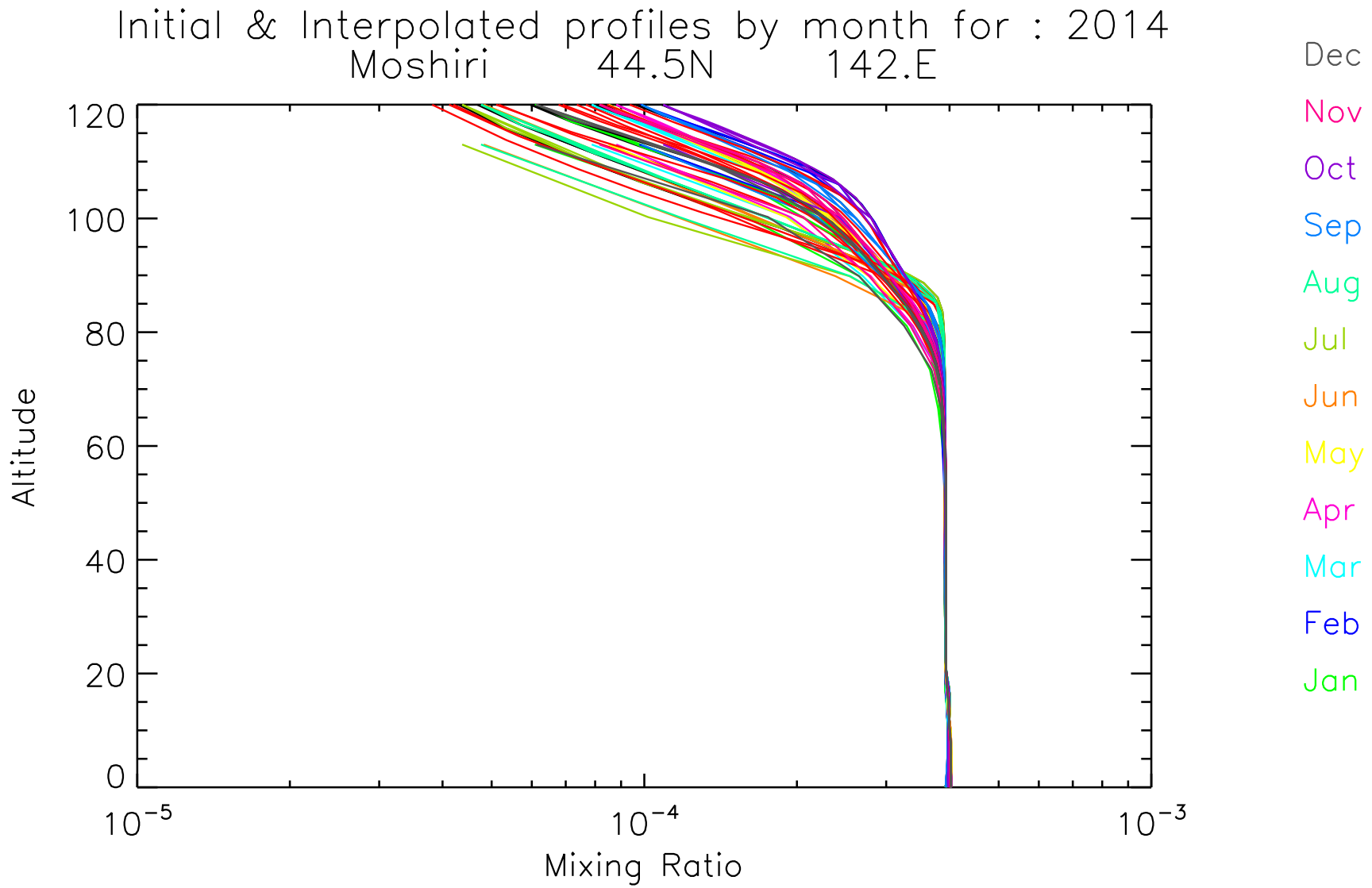
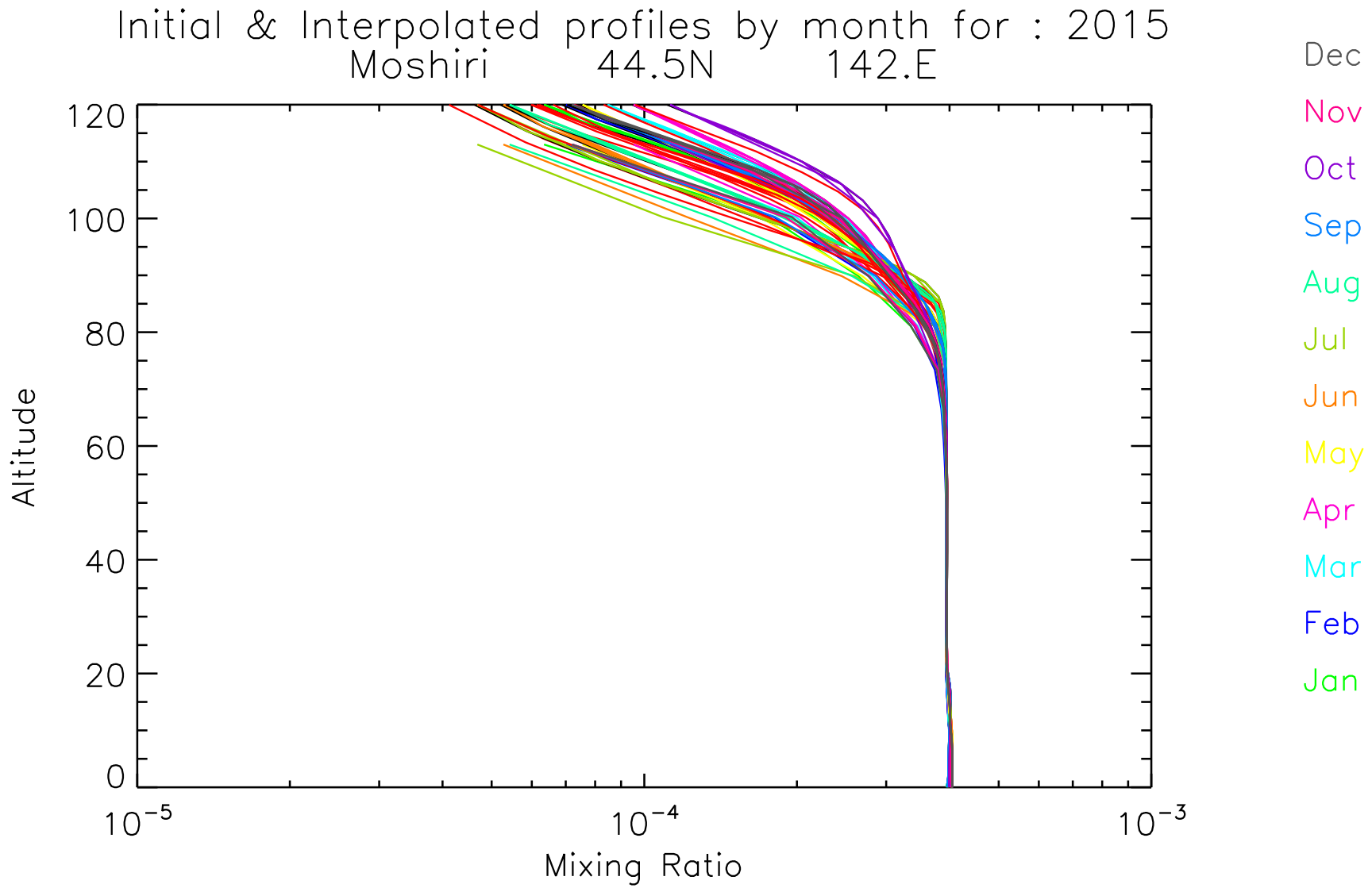
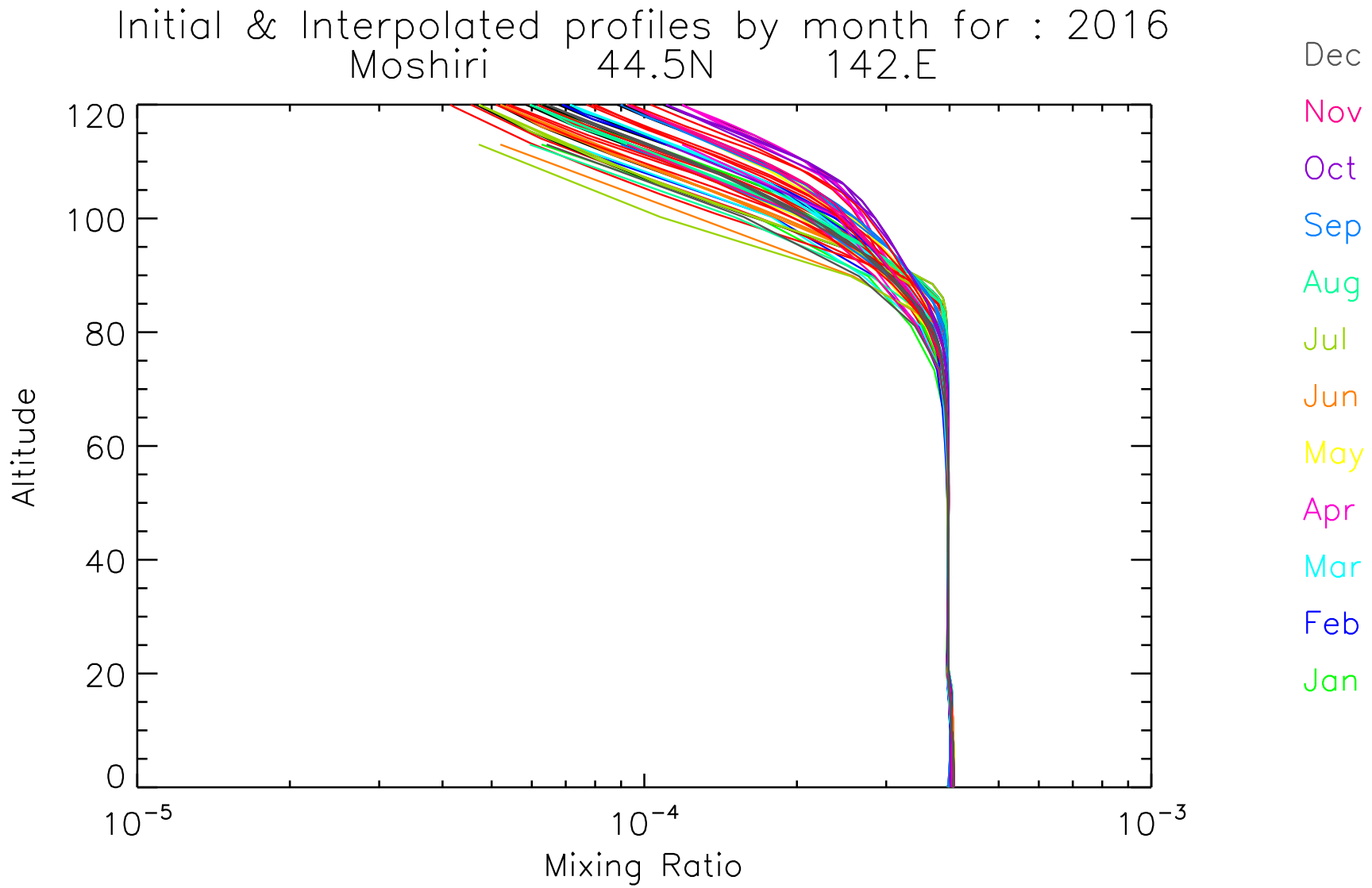
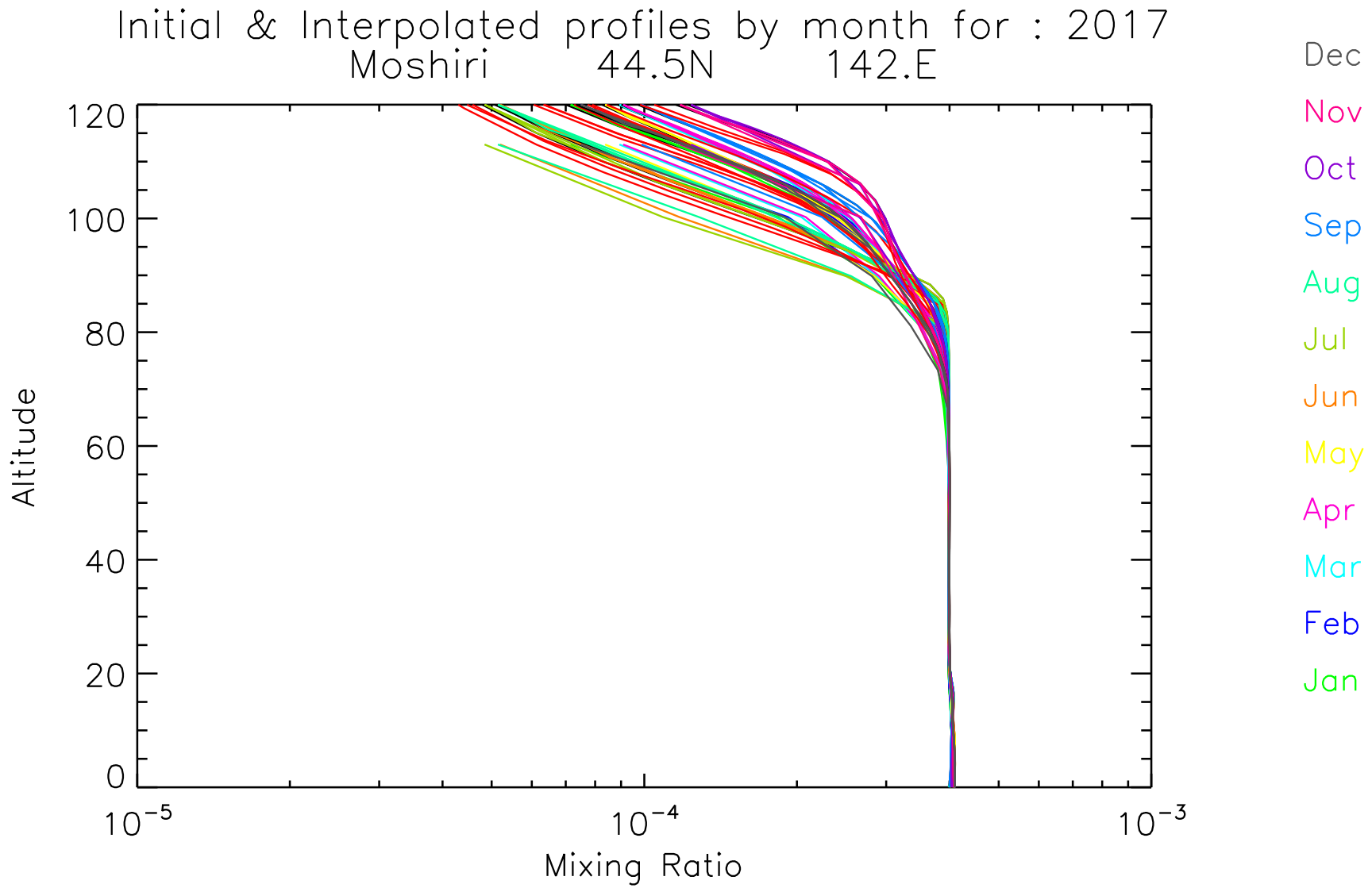
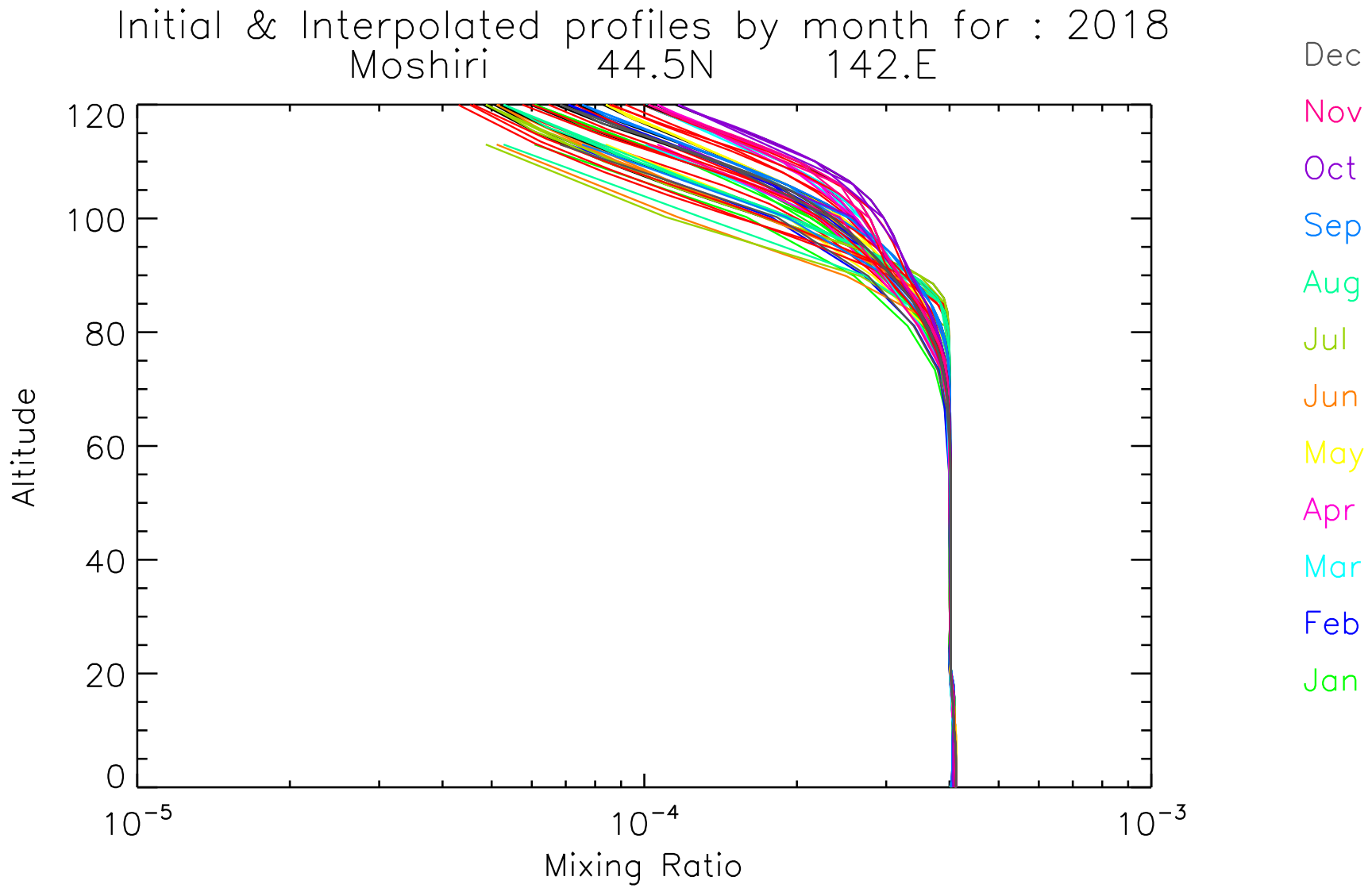
May
Apr
Mar
Feb
Jan

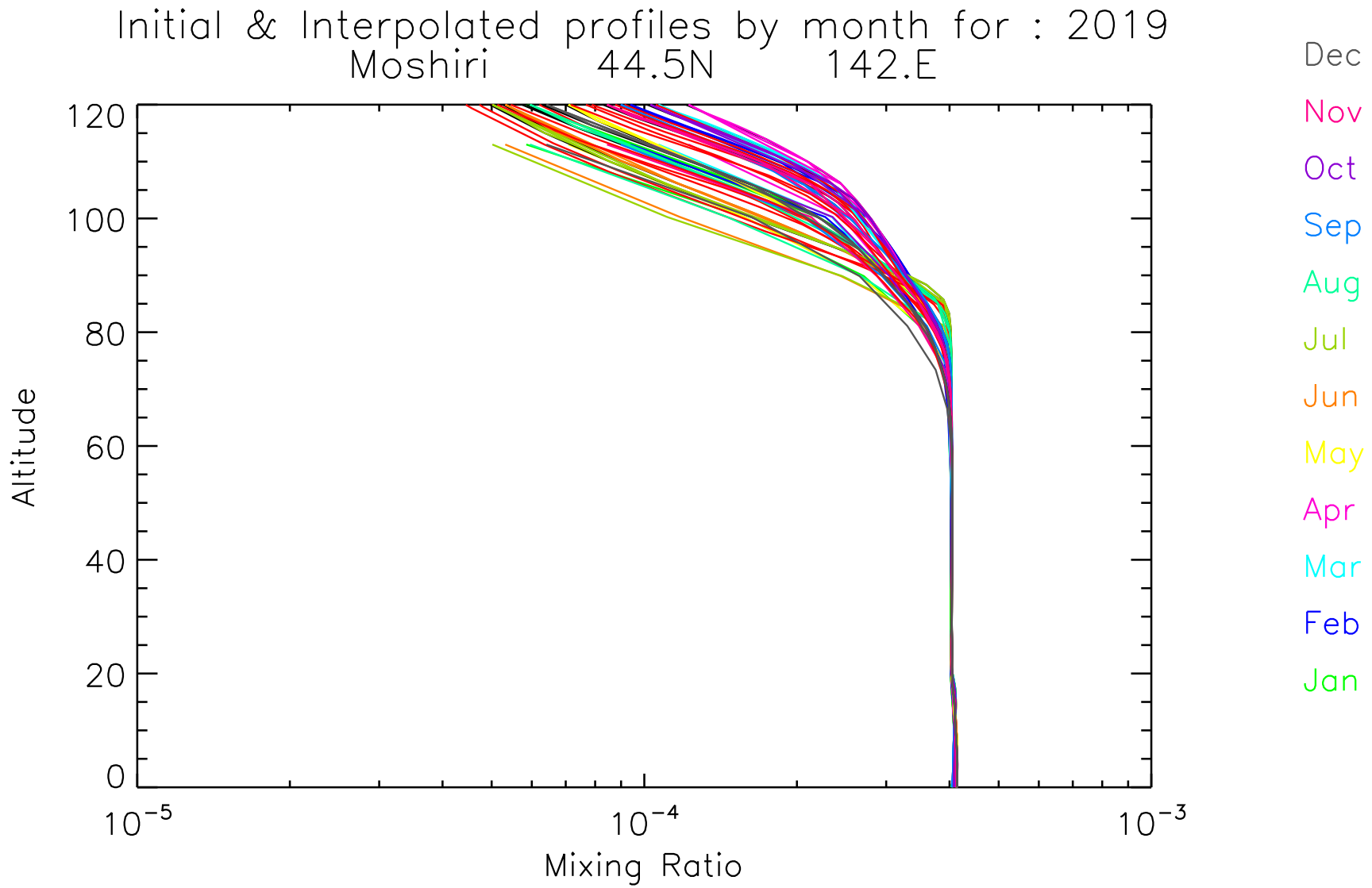

Initial & Interpolated profiles by month for : 2014
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

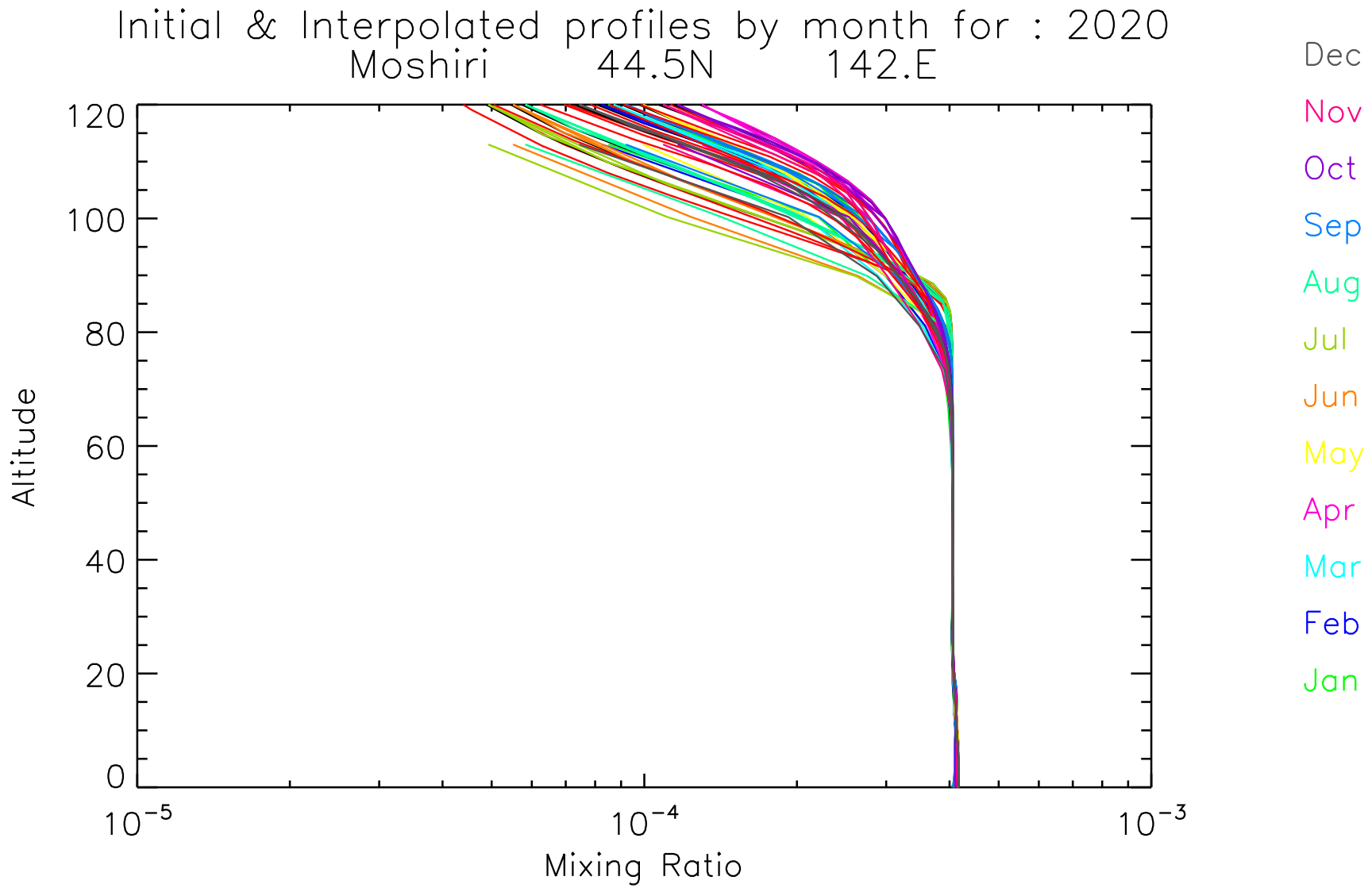

Initial & Interpolated profiles by month for : 2015
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

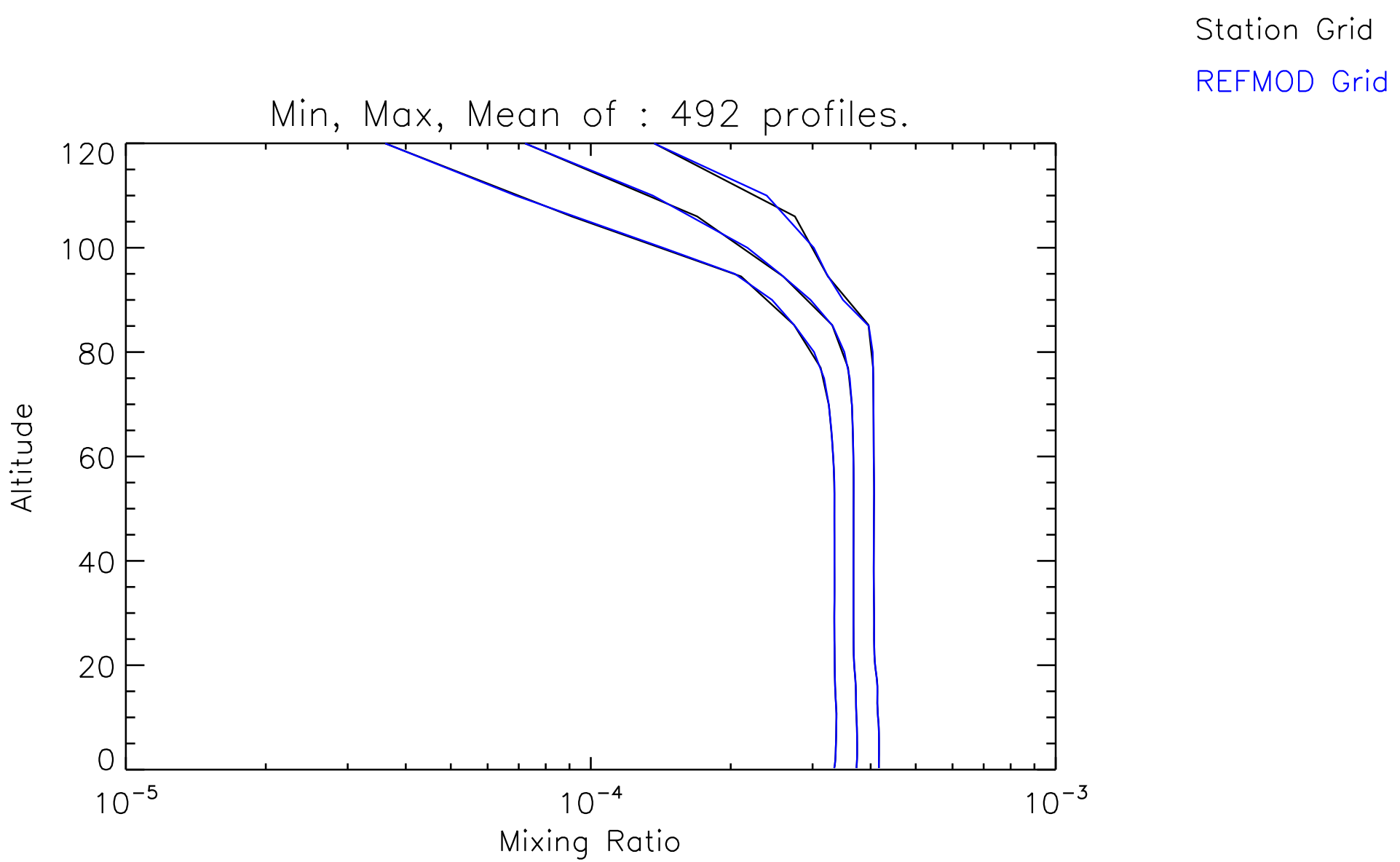

Initial & Interpolated profiles by month for : 2016
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

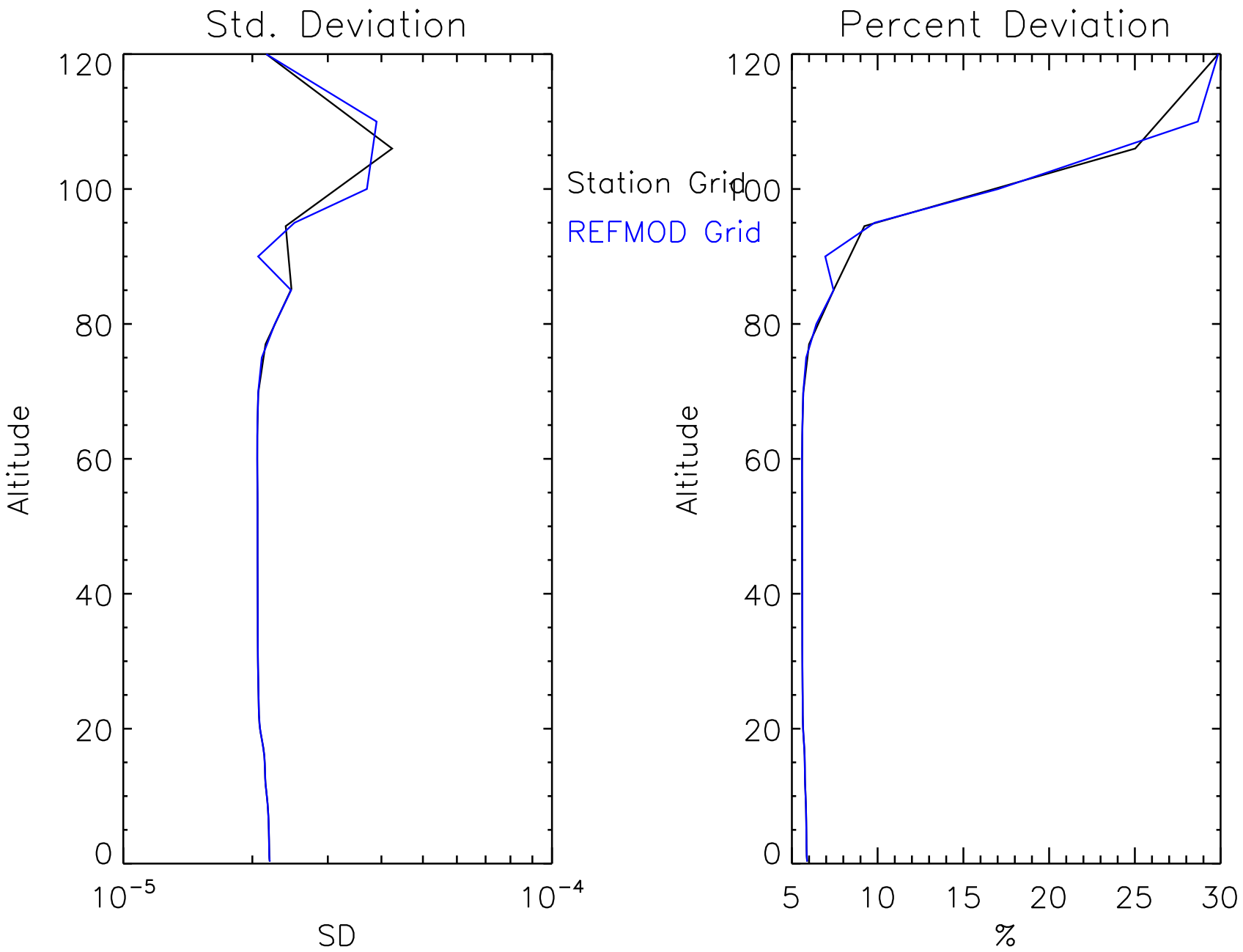

Initial & Interpolated profiles by month for : 2017
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

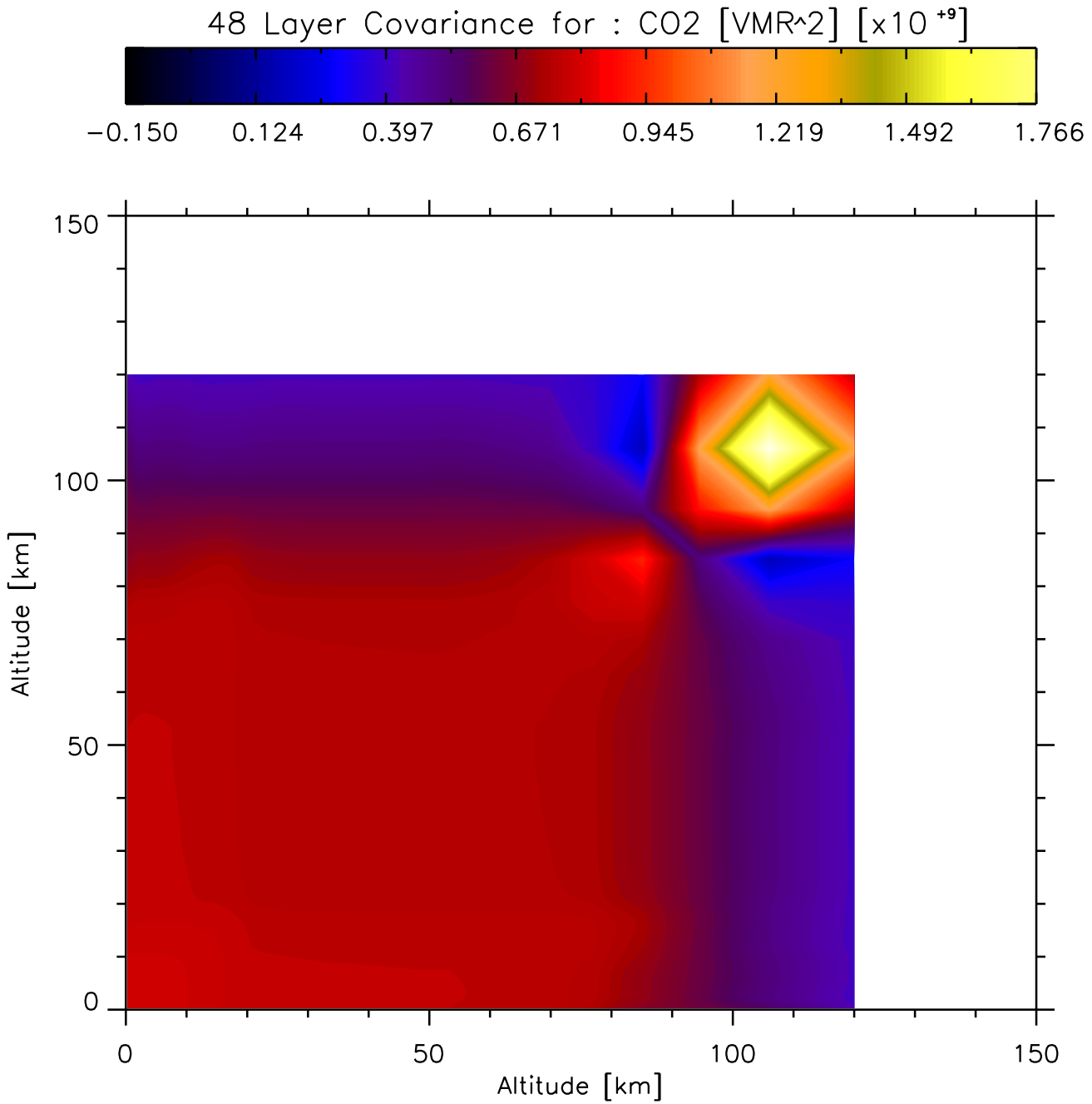

Initial & Interpolated profiles by month for : 2018
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

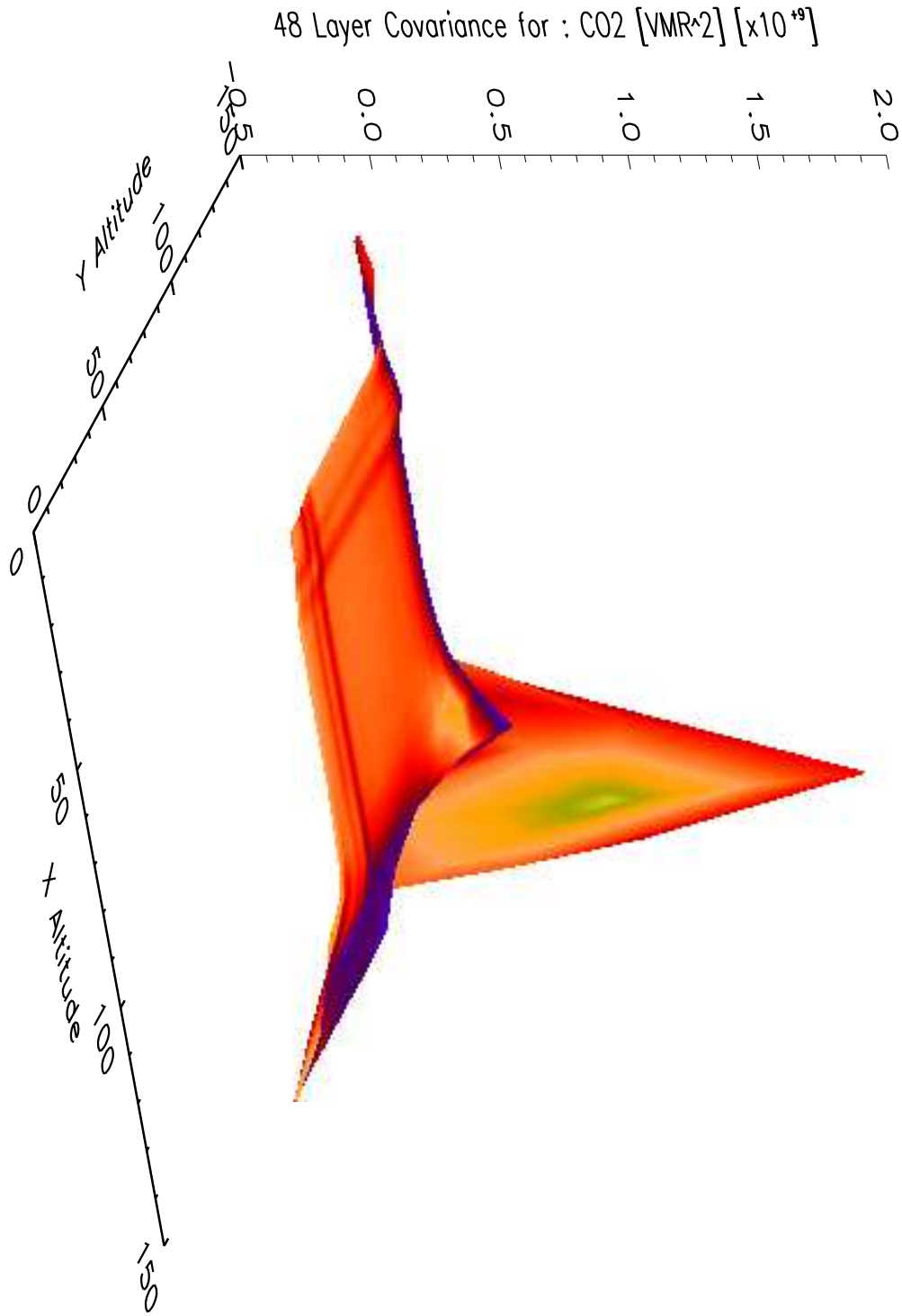

Initial & Interpolated profiles by month for : 2019
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

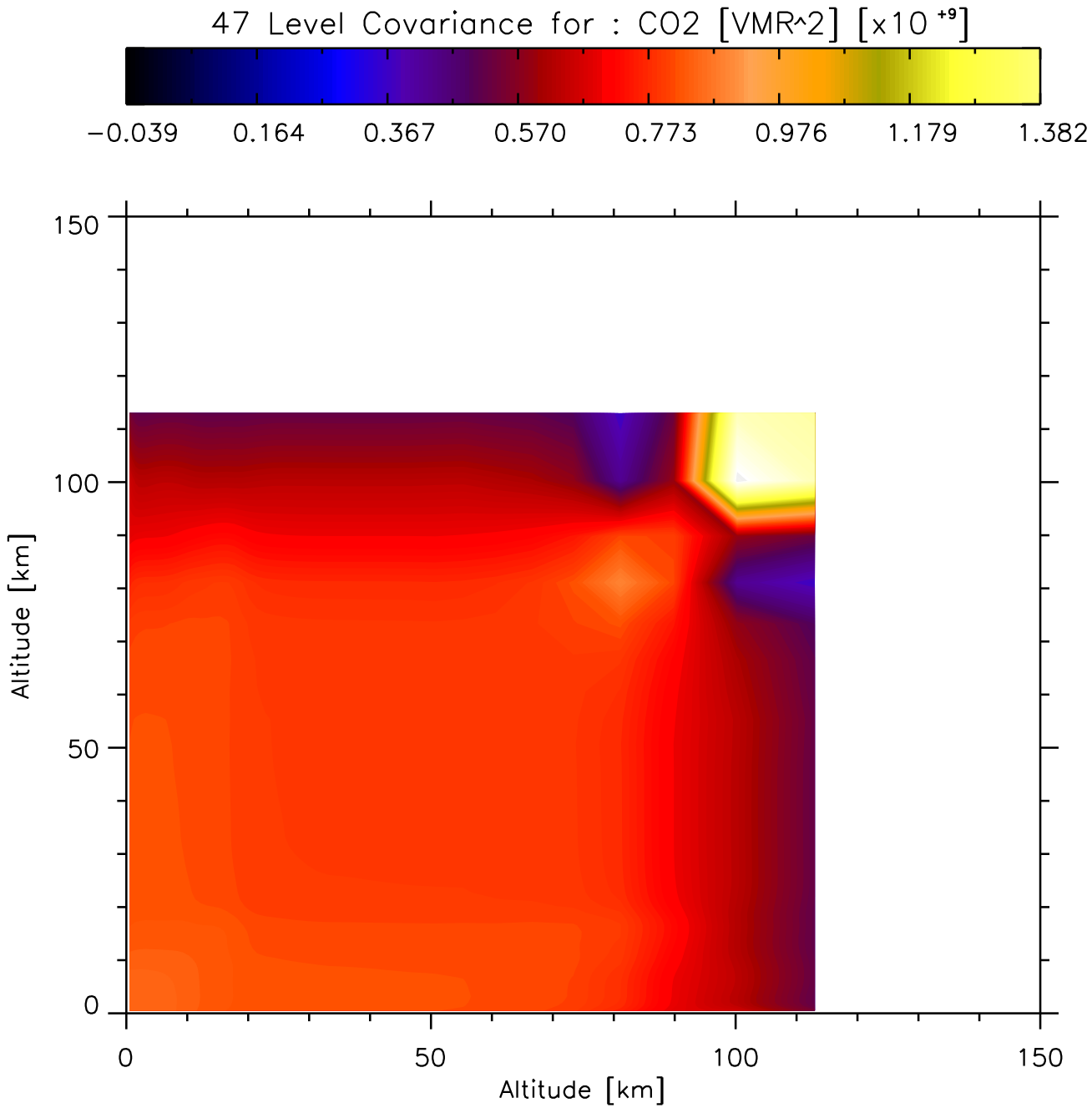

Initial & Interpolated profiles by month for : 2020
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


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
%


48 Layer Covariance for : CO2 [VMR^2] [x10 +9]
−0.150
0.124
0.397
0.671
0.945
1.219
1.492
1.766
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]
−0.039
0.164
0.367
0.570
0.773
0.976
1.179
1.382
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
-0.5
-1.0
-1.5
Y Altitude
0
20
40
60
80
100
120
X Altitude
0
50
100
150