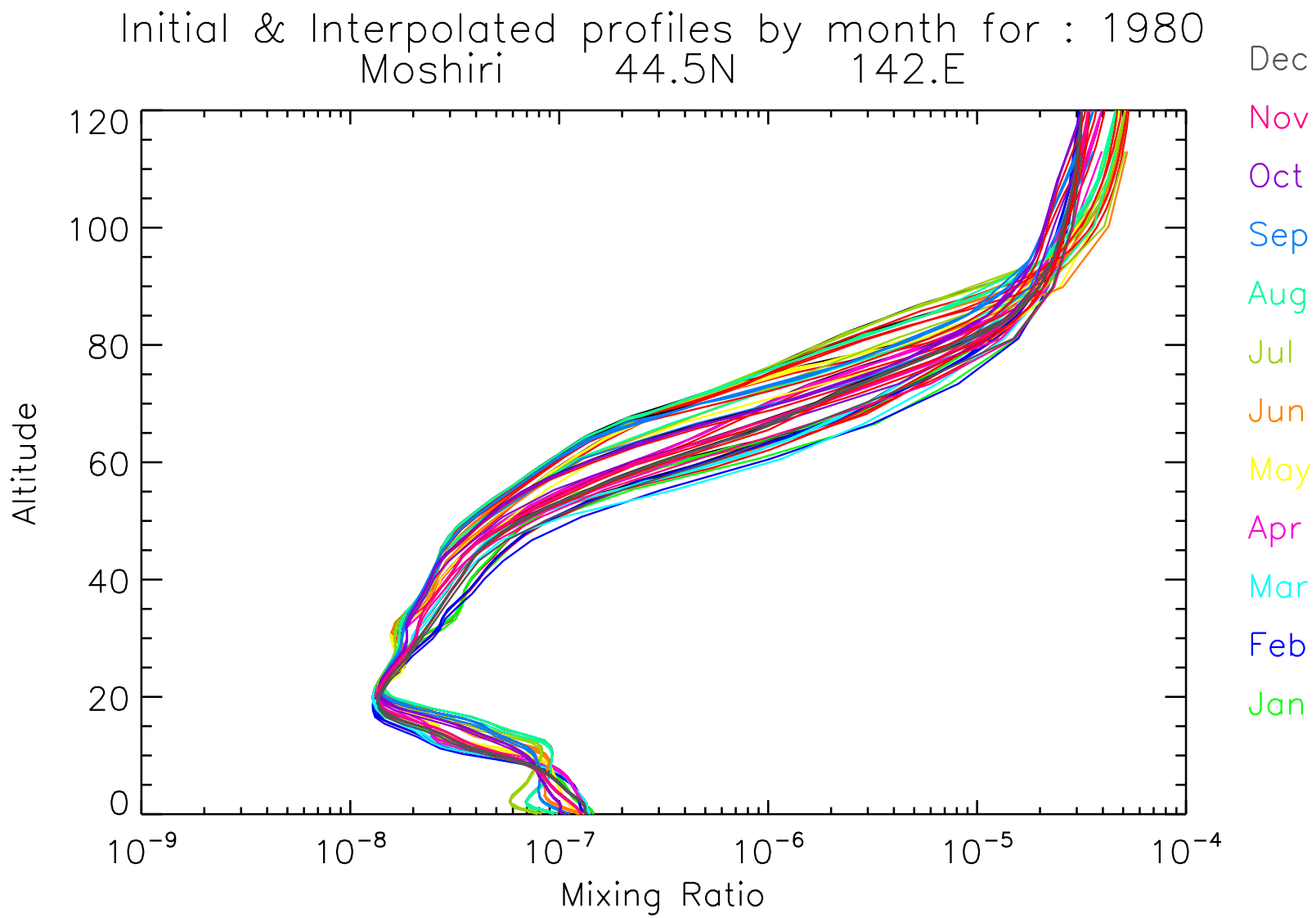
Initial & Interpolated profiles by month for : 1980
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Altitude
120
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Mixing Ratio
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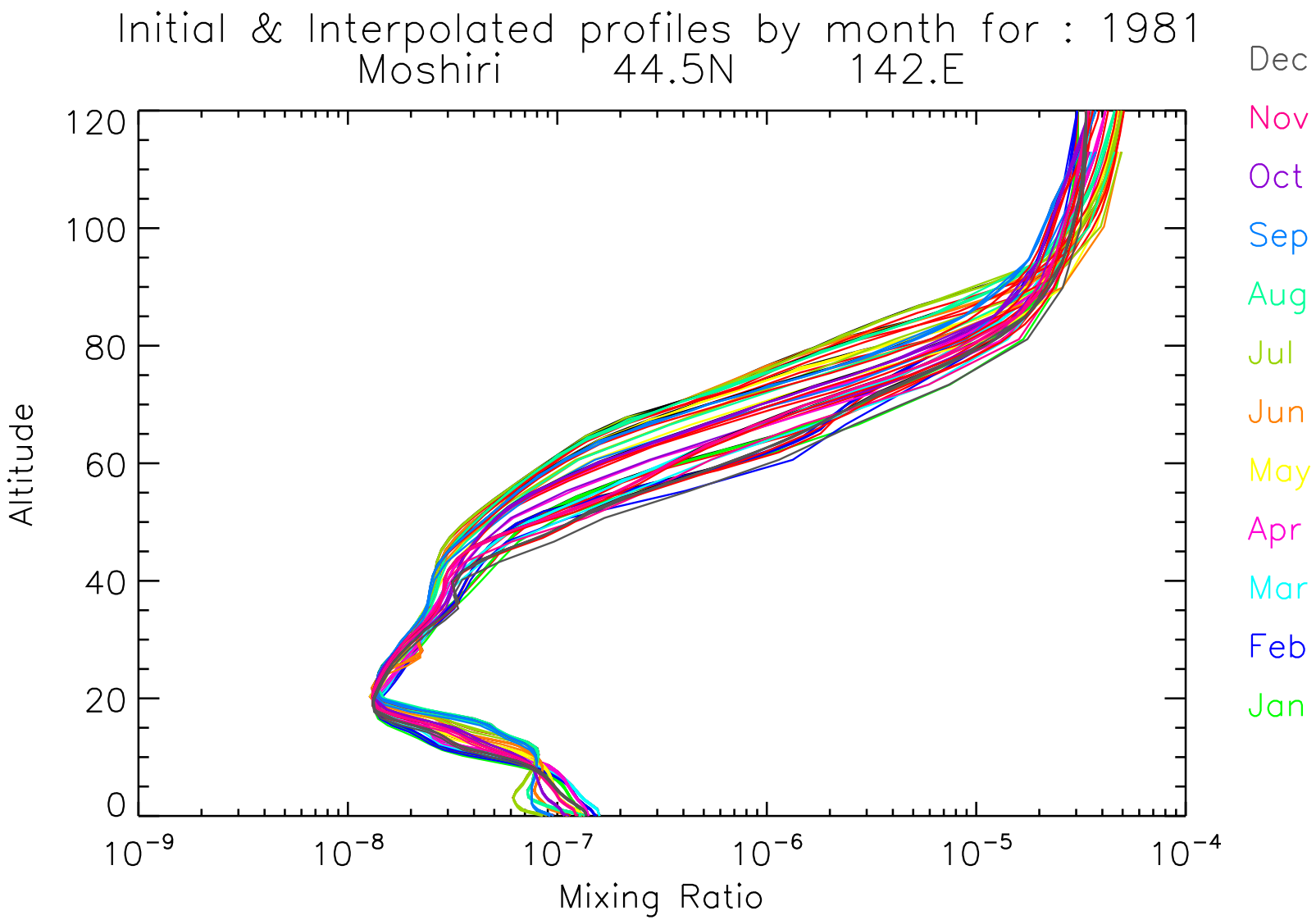
Initial & Interpolated profiles by month for : 1981
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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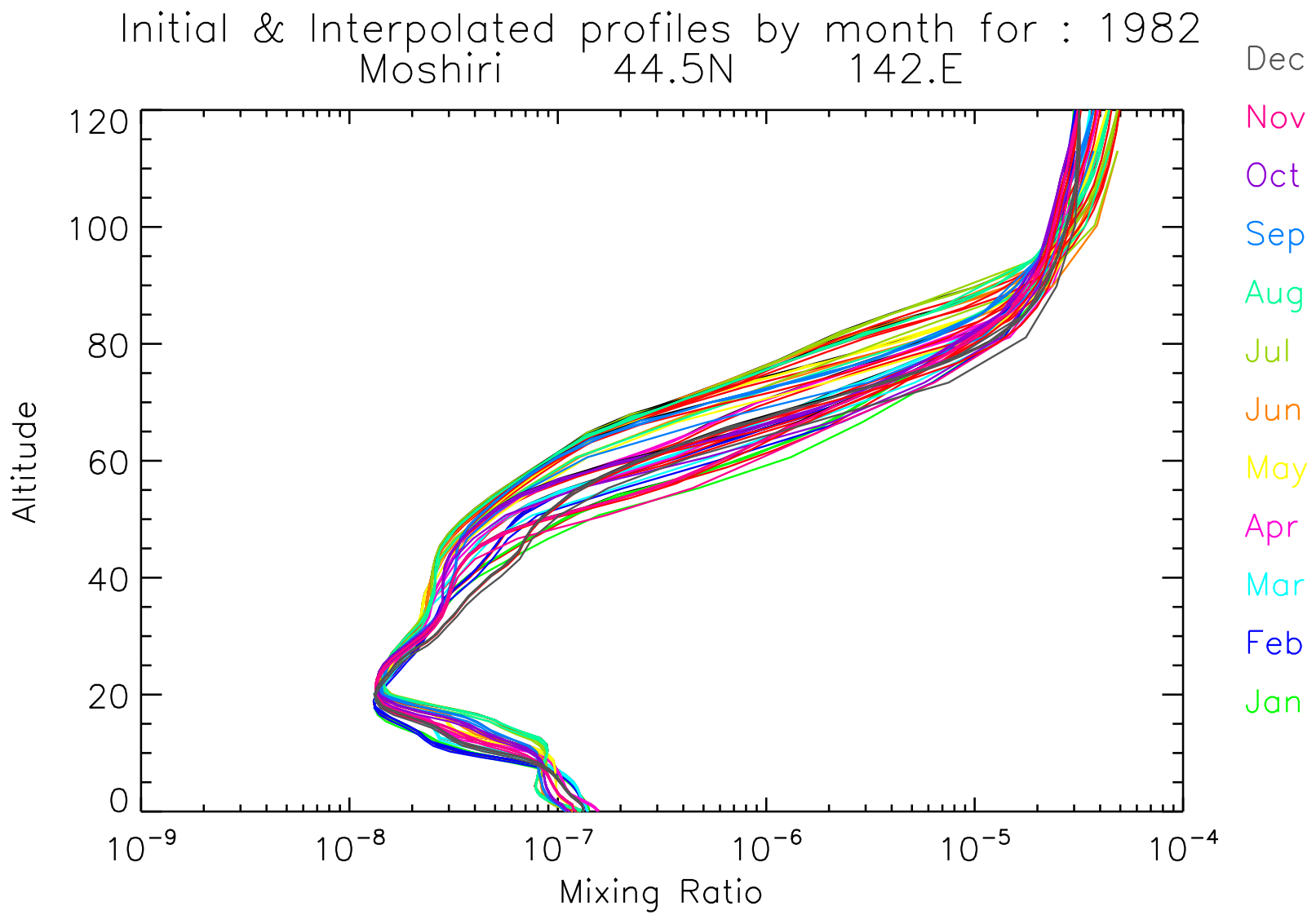
Initial & Interpolated profiles by month for : 1982
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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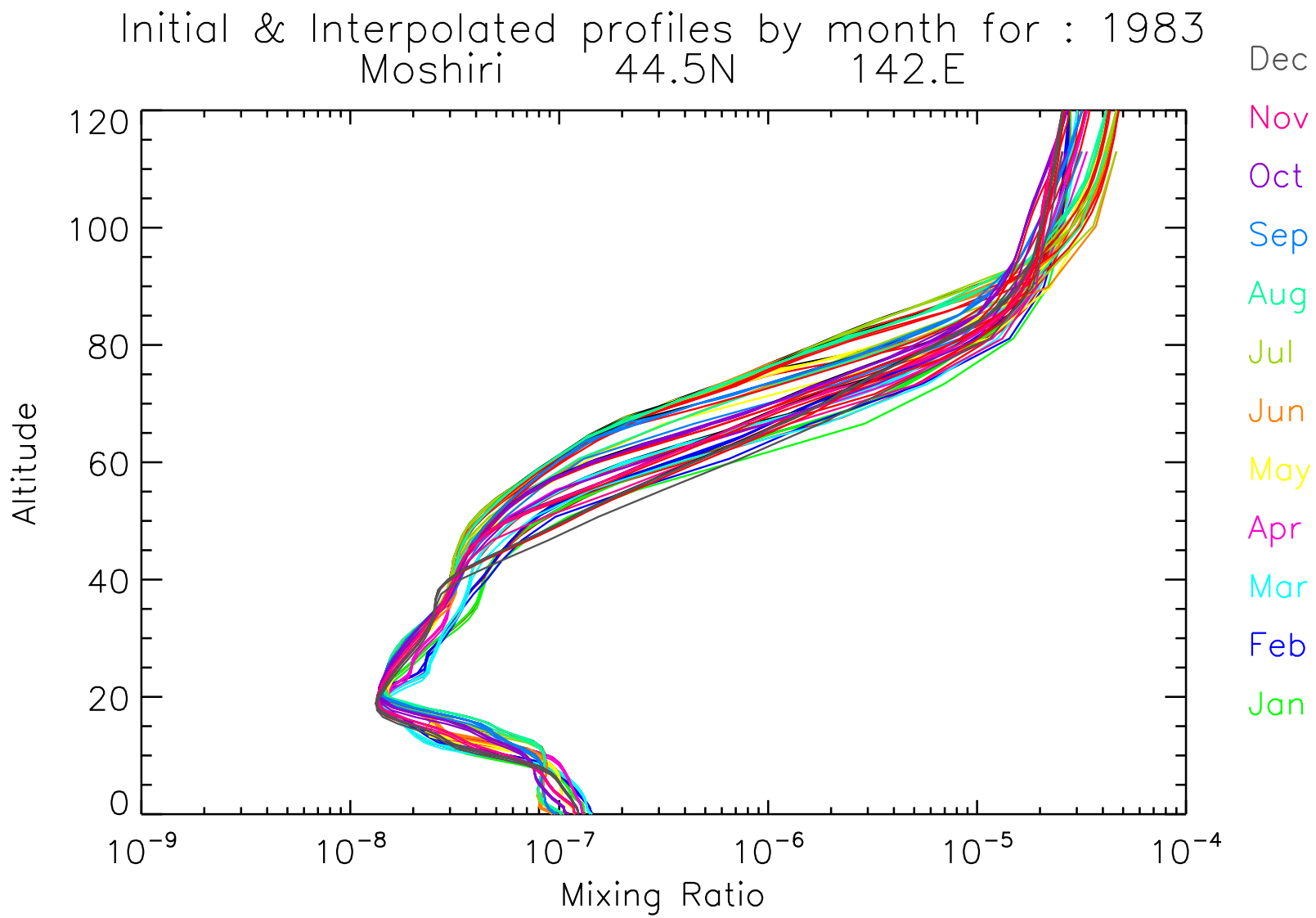
Initial & Interpolated profiles by month for : 1983
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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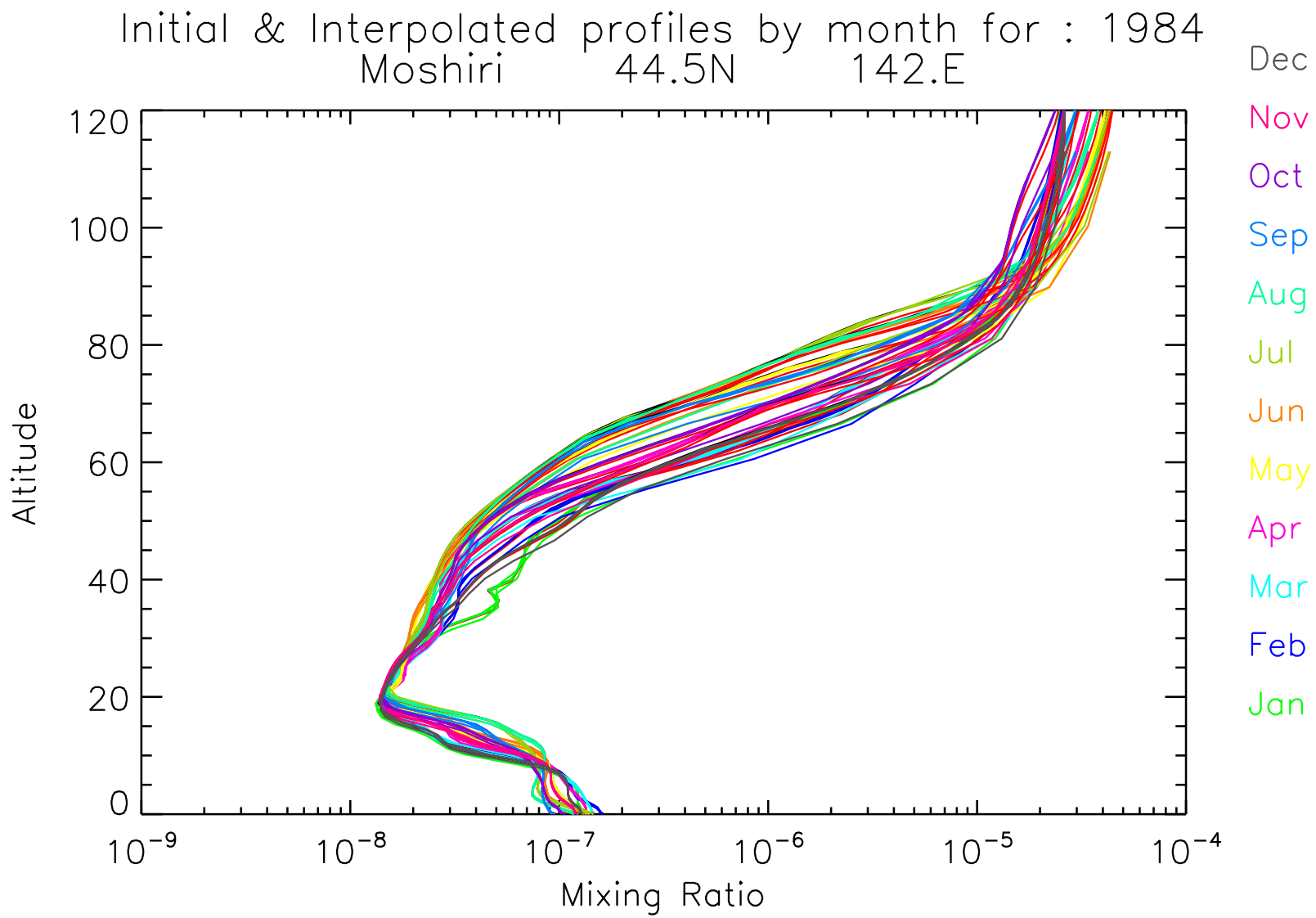
Initial & Interpolated profiles by month for : 1984
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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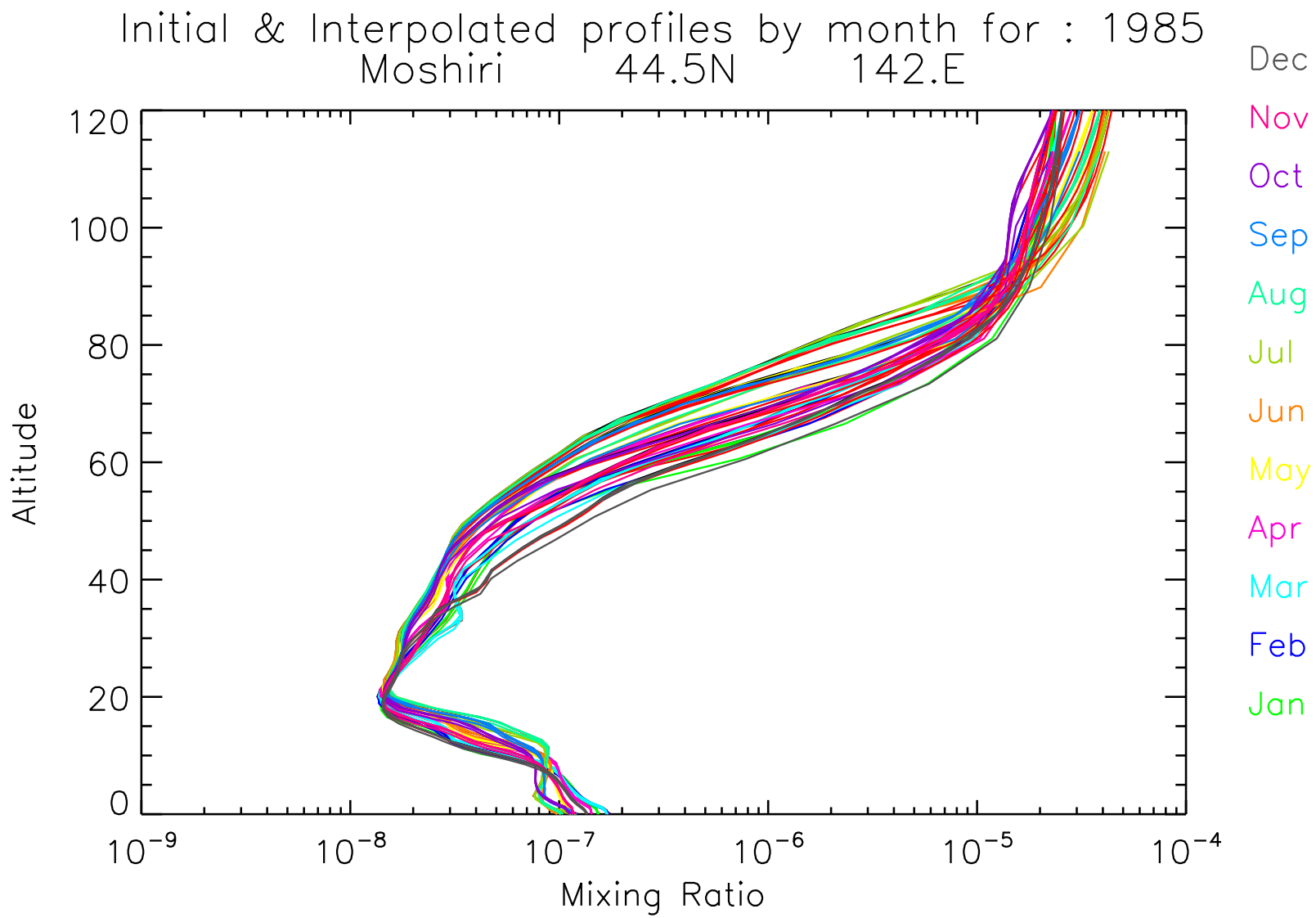
Initial & Interpolated profiles by month for : 1985
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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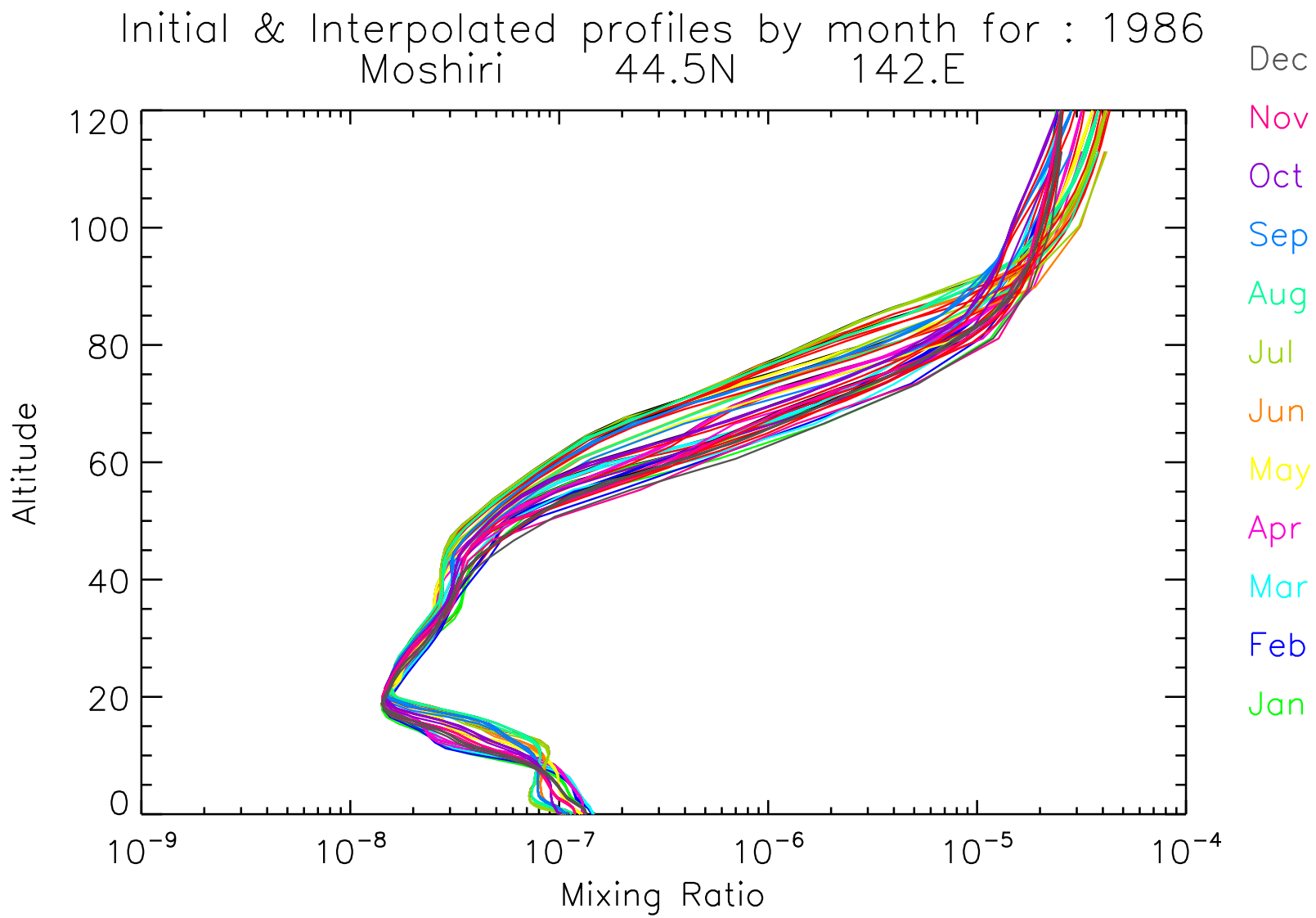
Initial & Interpolated profiles by month for : 1986
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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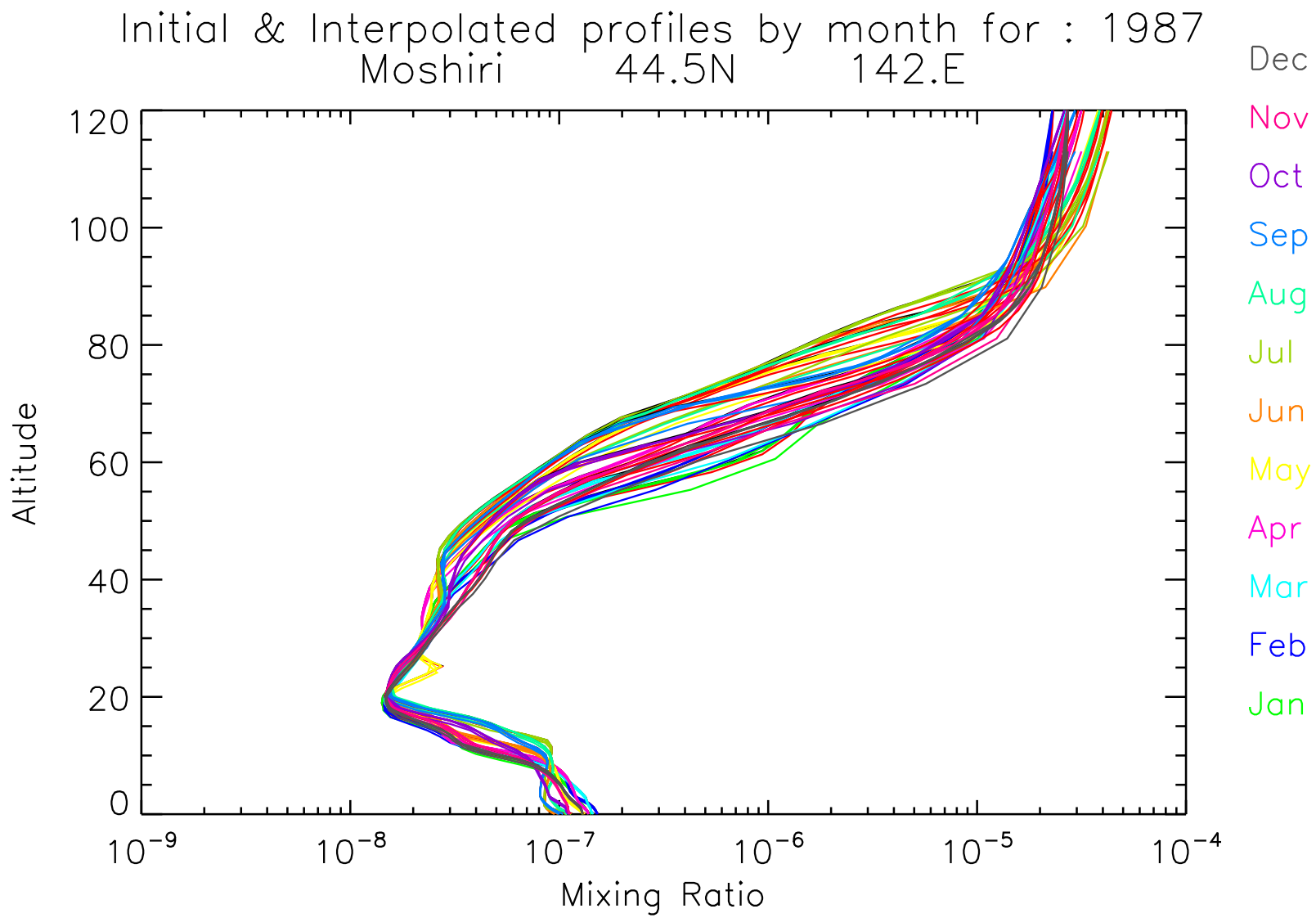
Initial & Interpolated profiles by month for : 1987
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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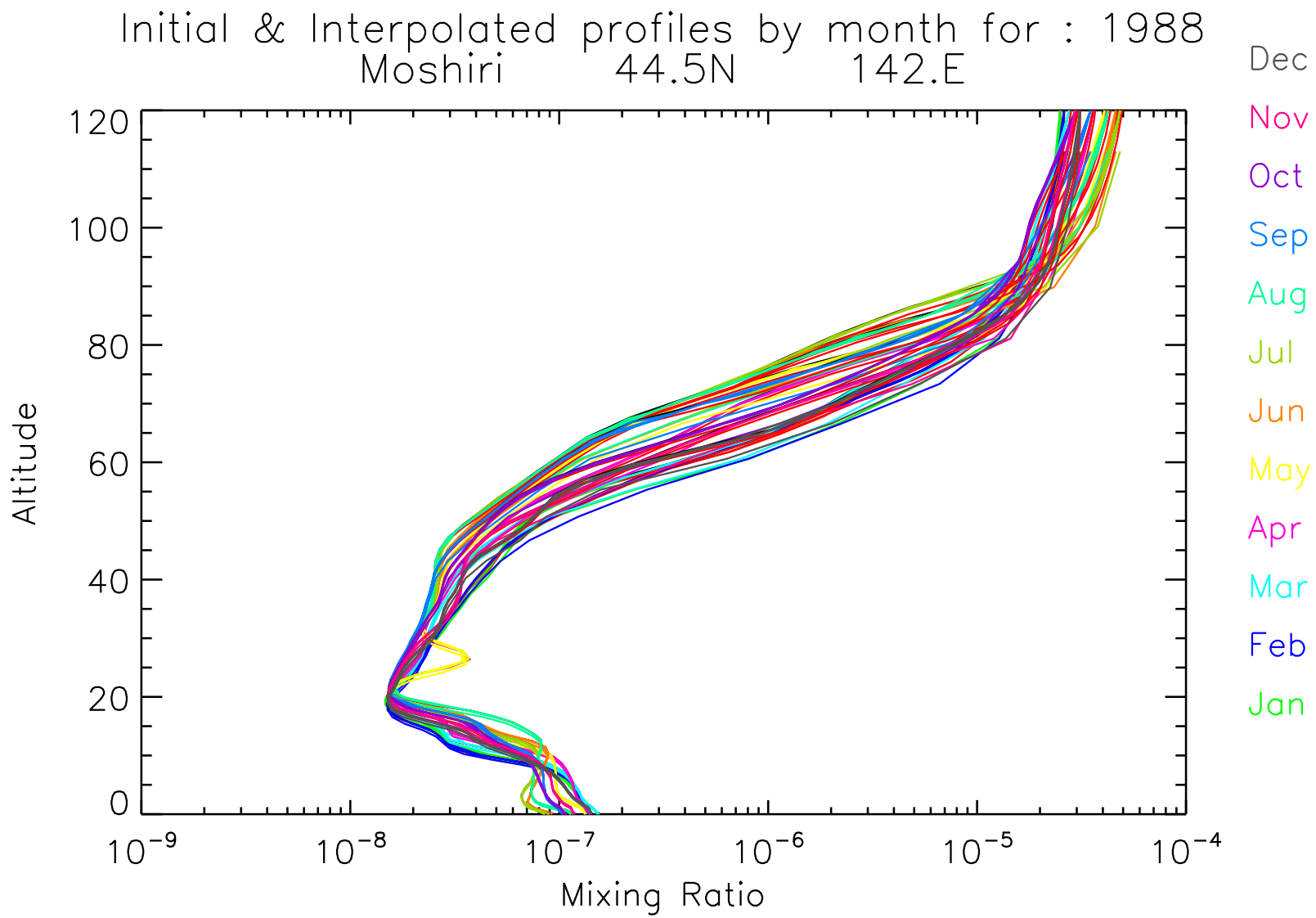
Initial & Interpolated profiles by month for : 1988
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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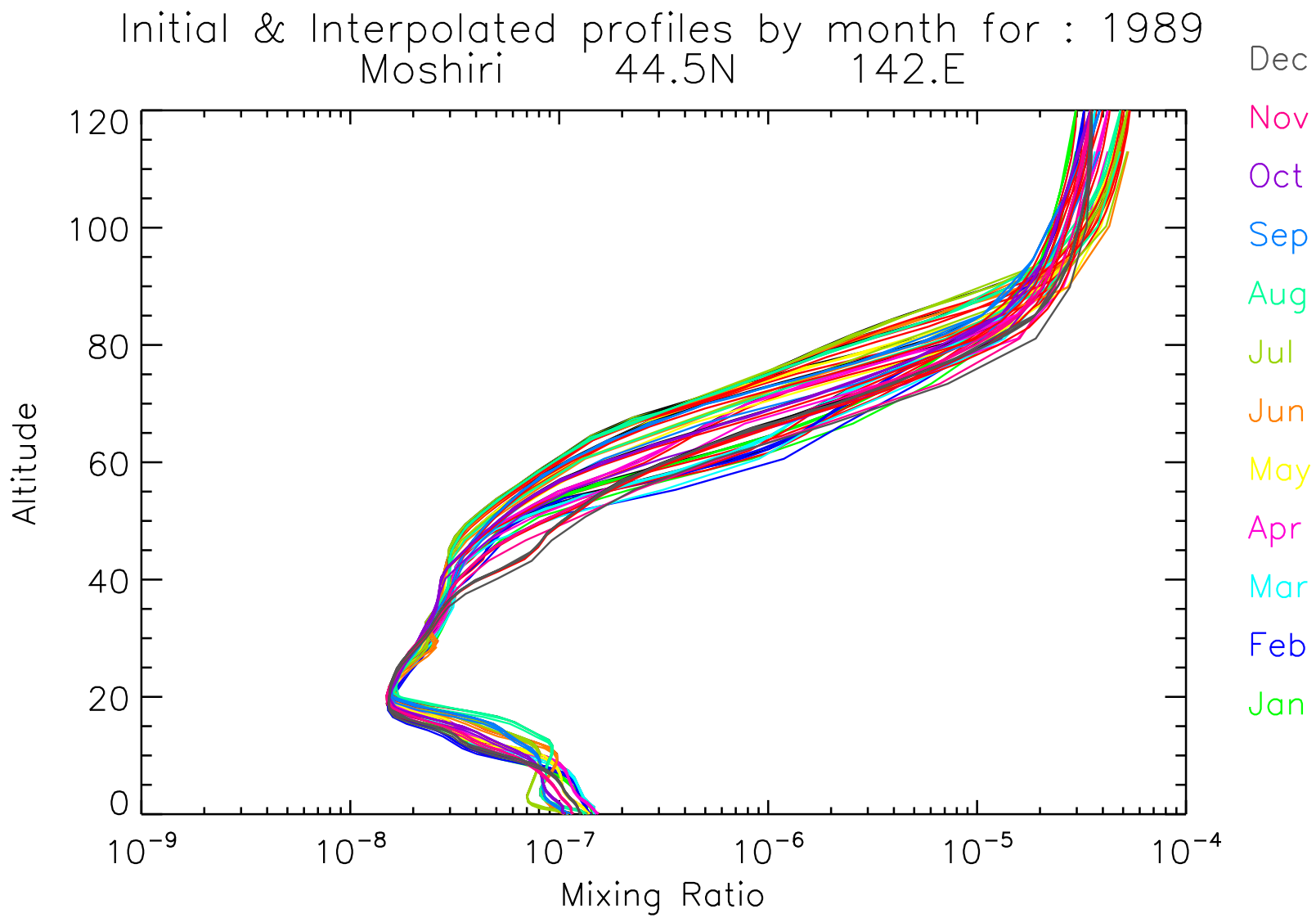
Initial & Interpolated profiles by month for : 1989
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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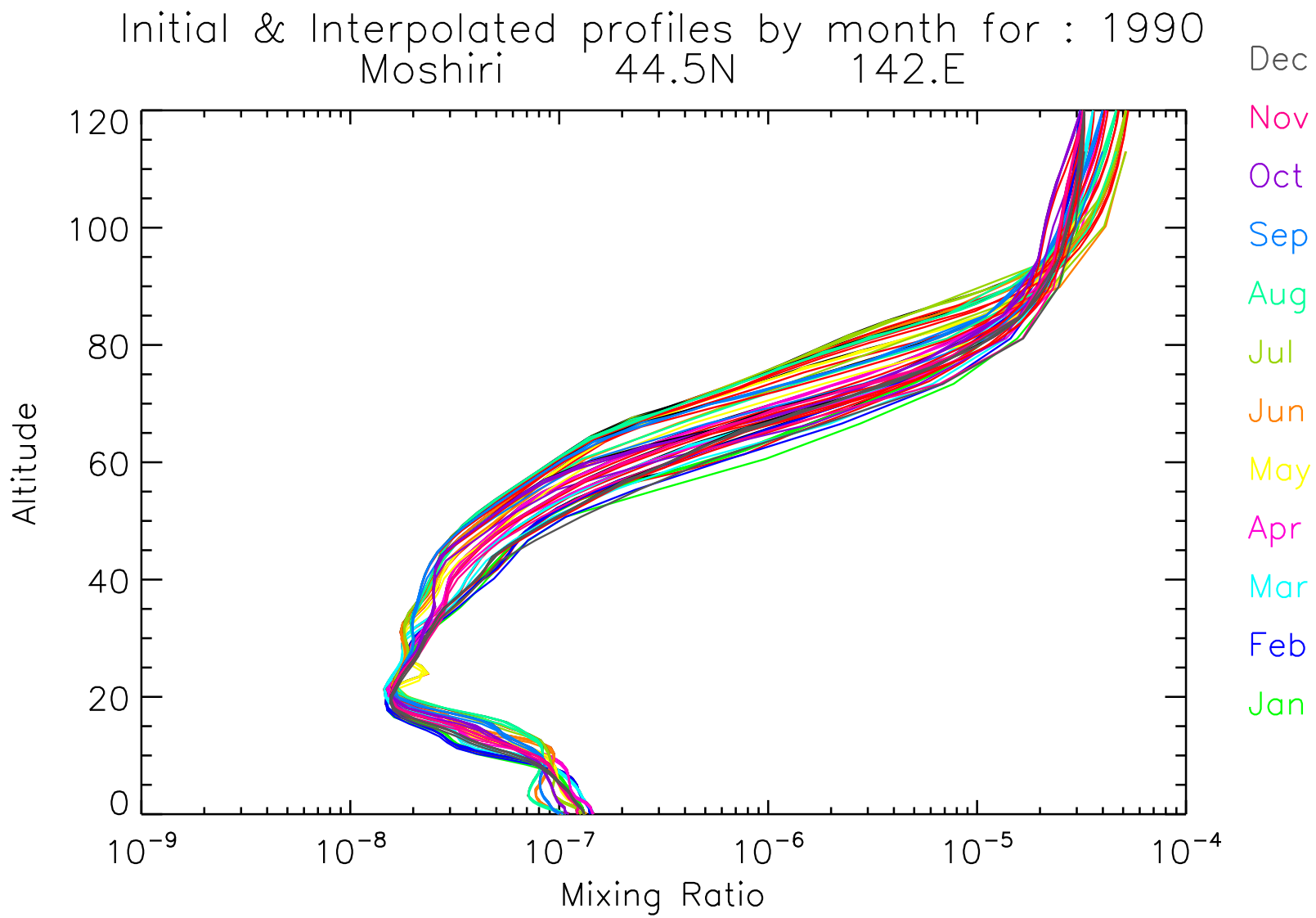
Initial & Interpolated profiles by month for : 1990
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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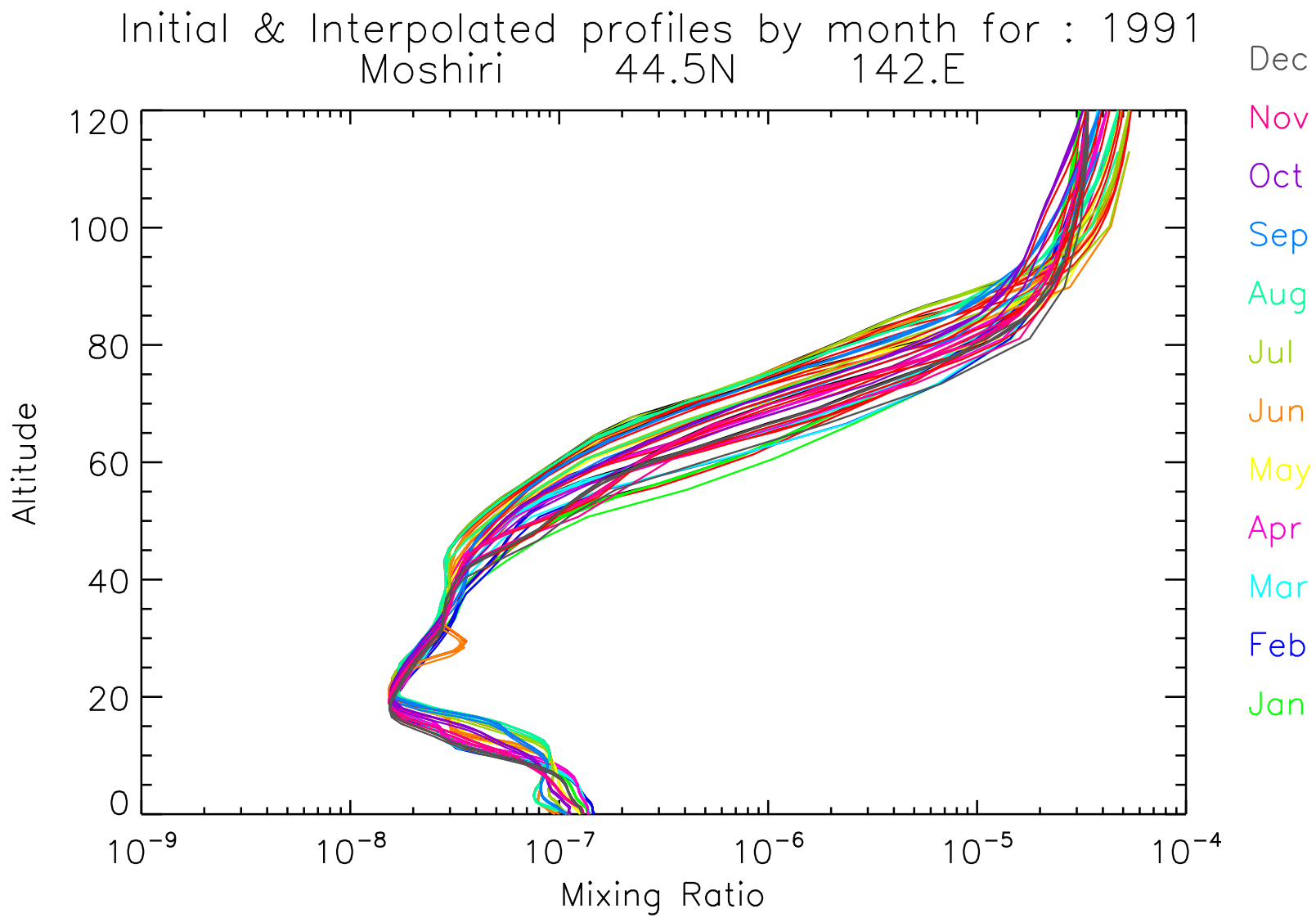
Initial & Interpolated profiles by month for : 1991
Moshiri 44.5N 142.E
Altitude
120
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10^{-9}
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Mixing Ratio
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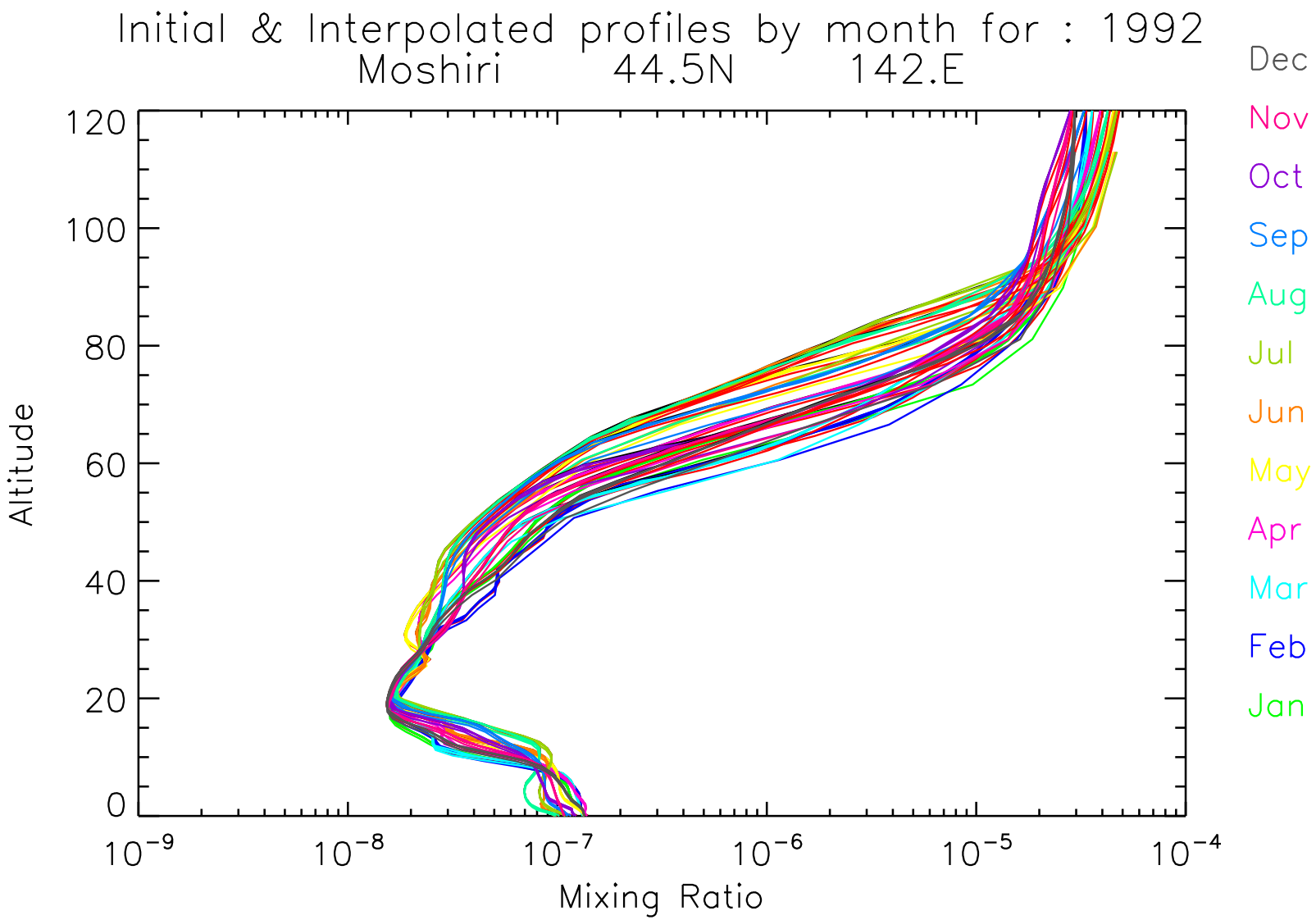
Initial & Interpolated profiles by month for : 1992
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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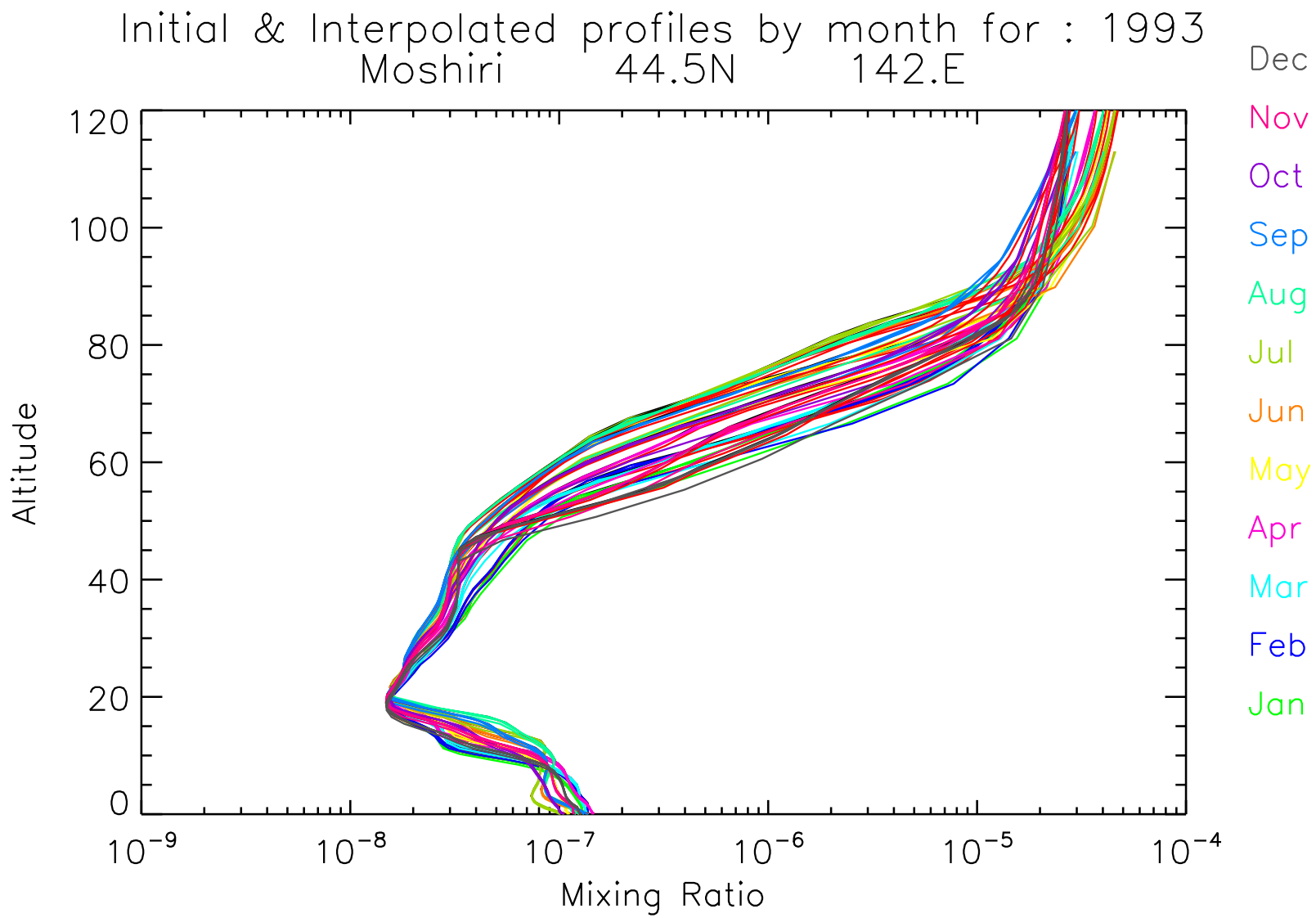
Initial & Interpolated profiles by month for : 1993
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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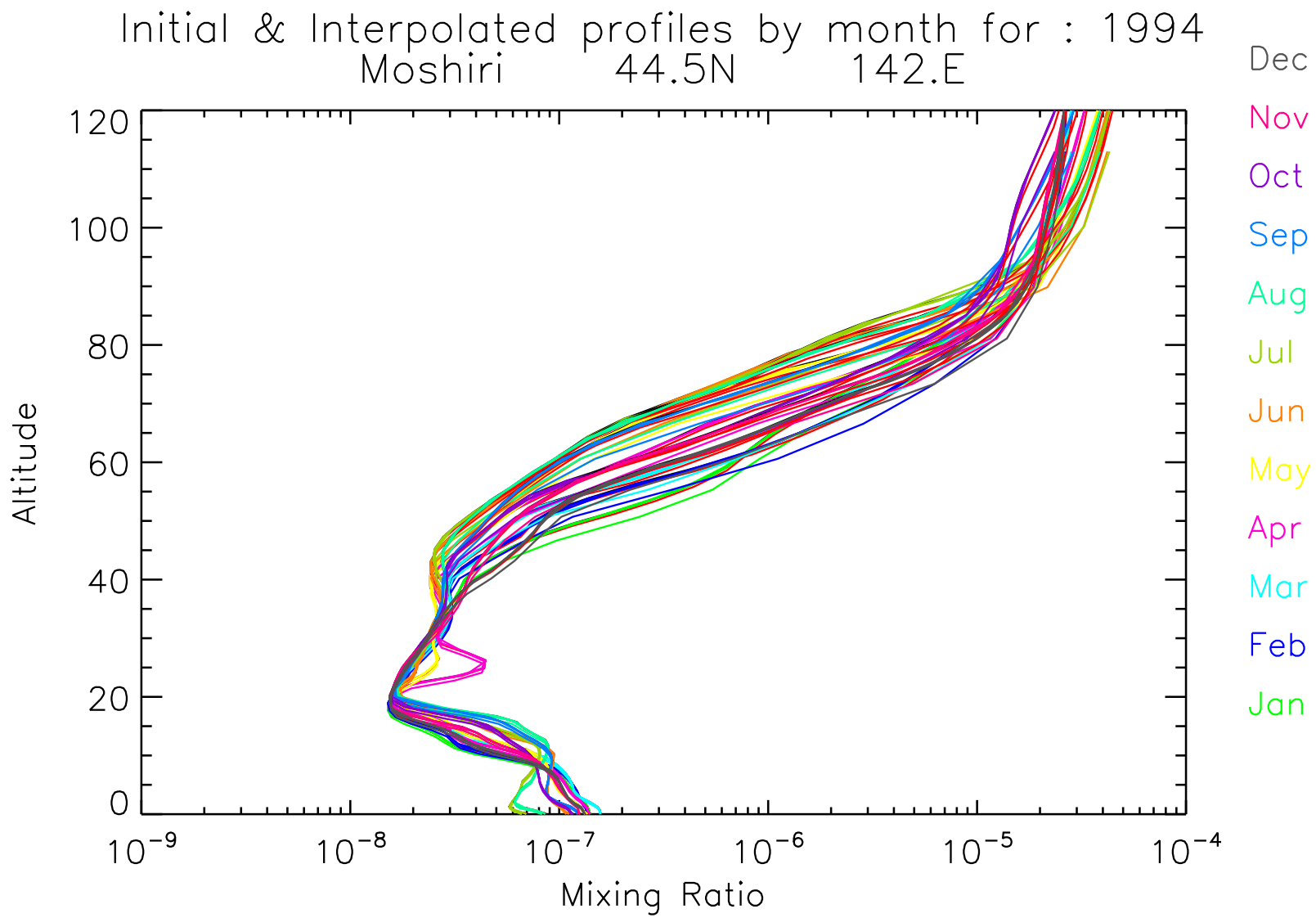
Initial & Interpolated profiles by month for : 1994
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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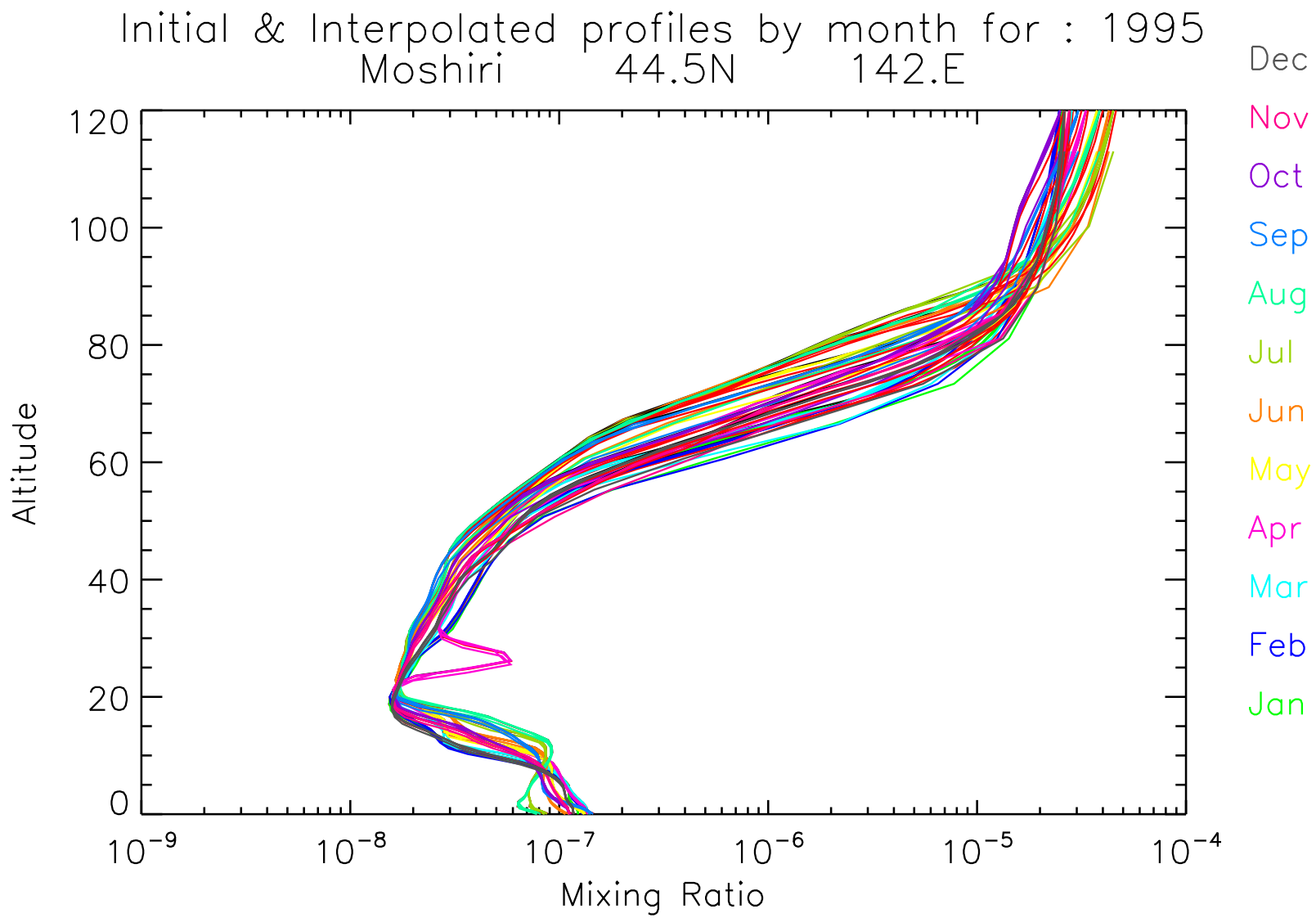
Initial & Interpolated profiles by month for : 1995
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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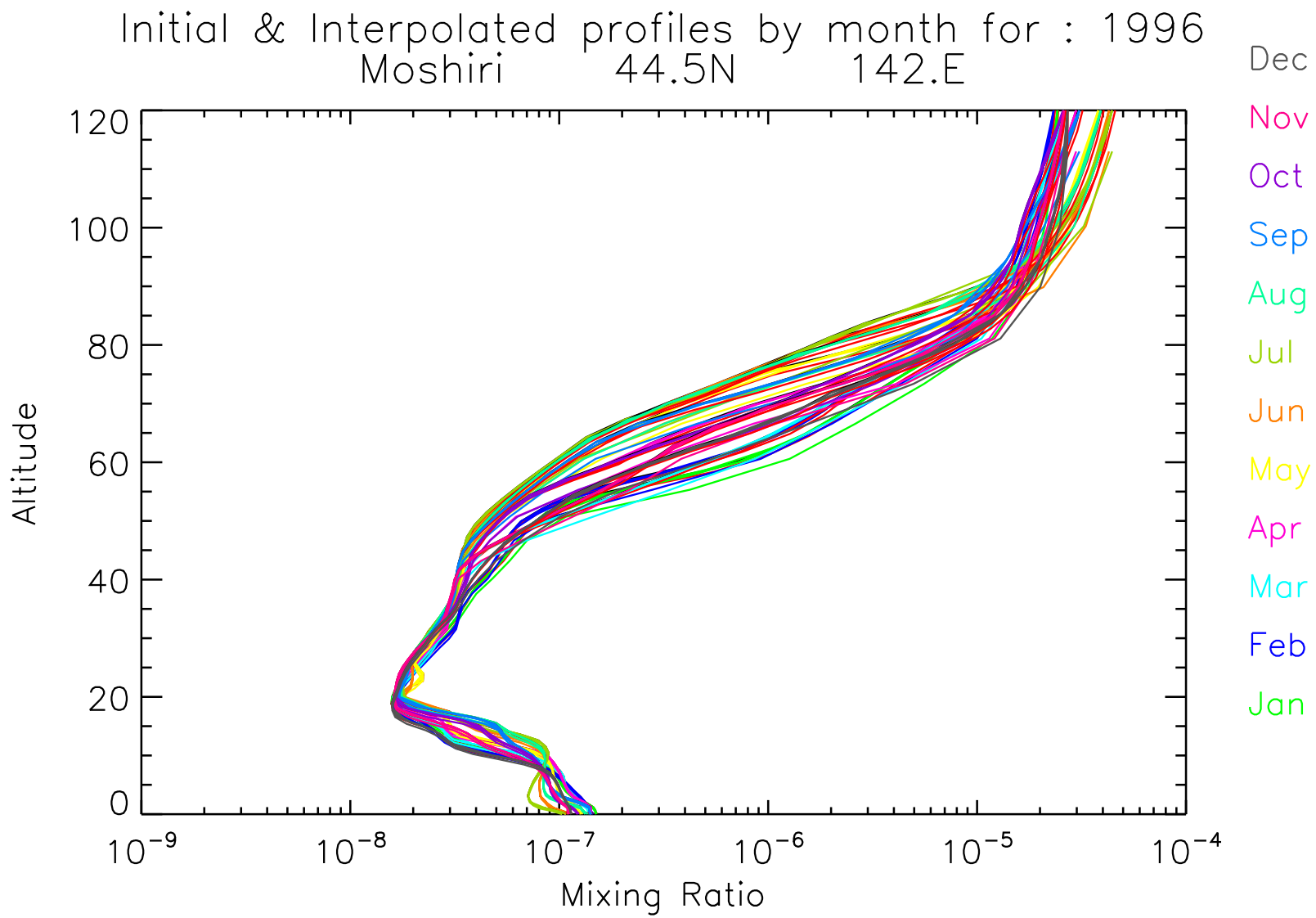
Initial & Interpolated profiles by month for : 1996
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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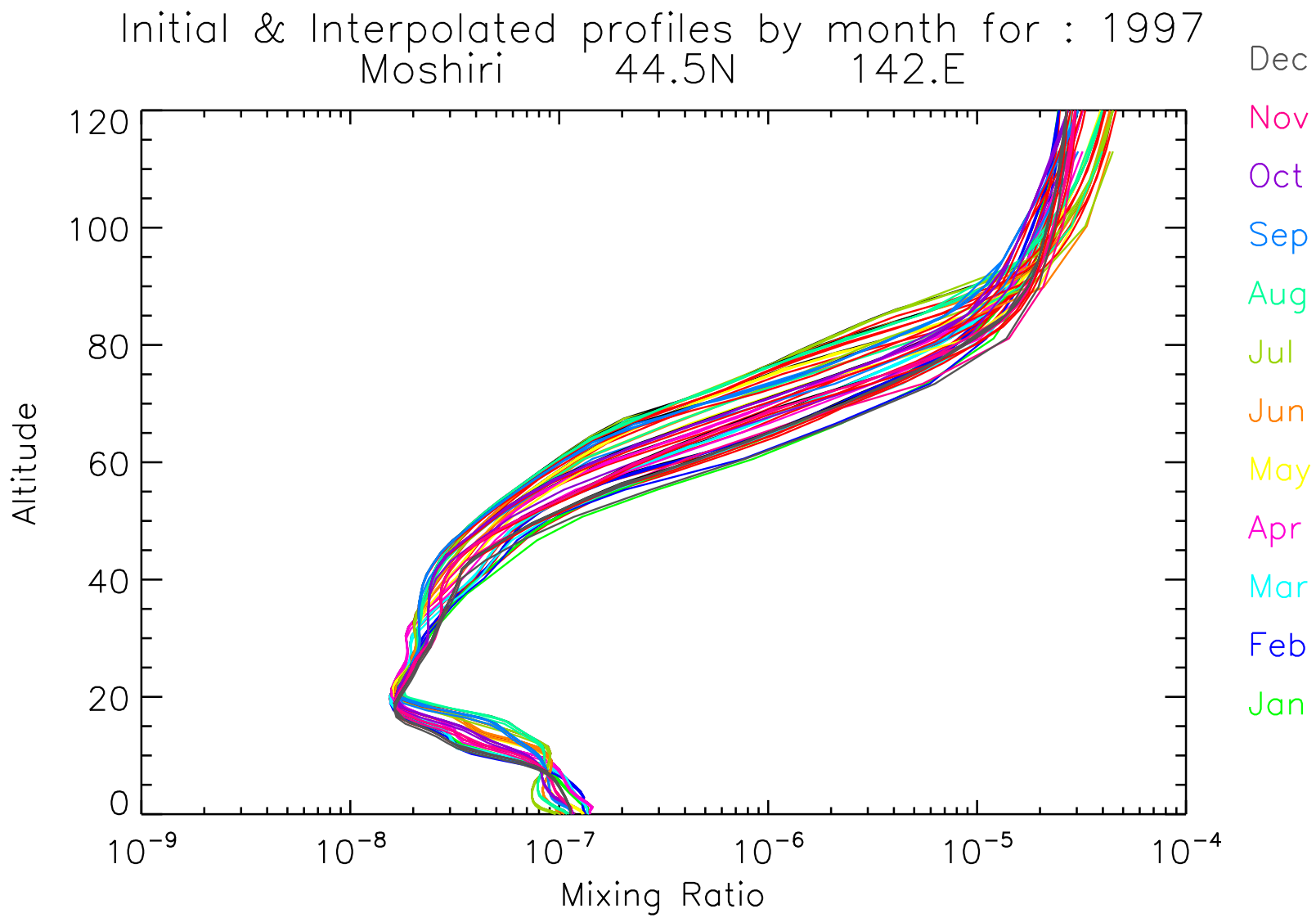
Initial & Interpolated profiles by month for : 1997
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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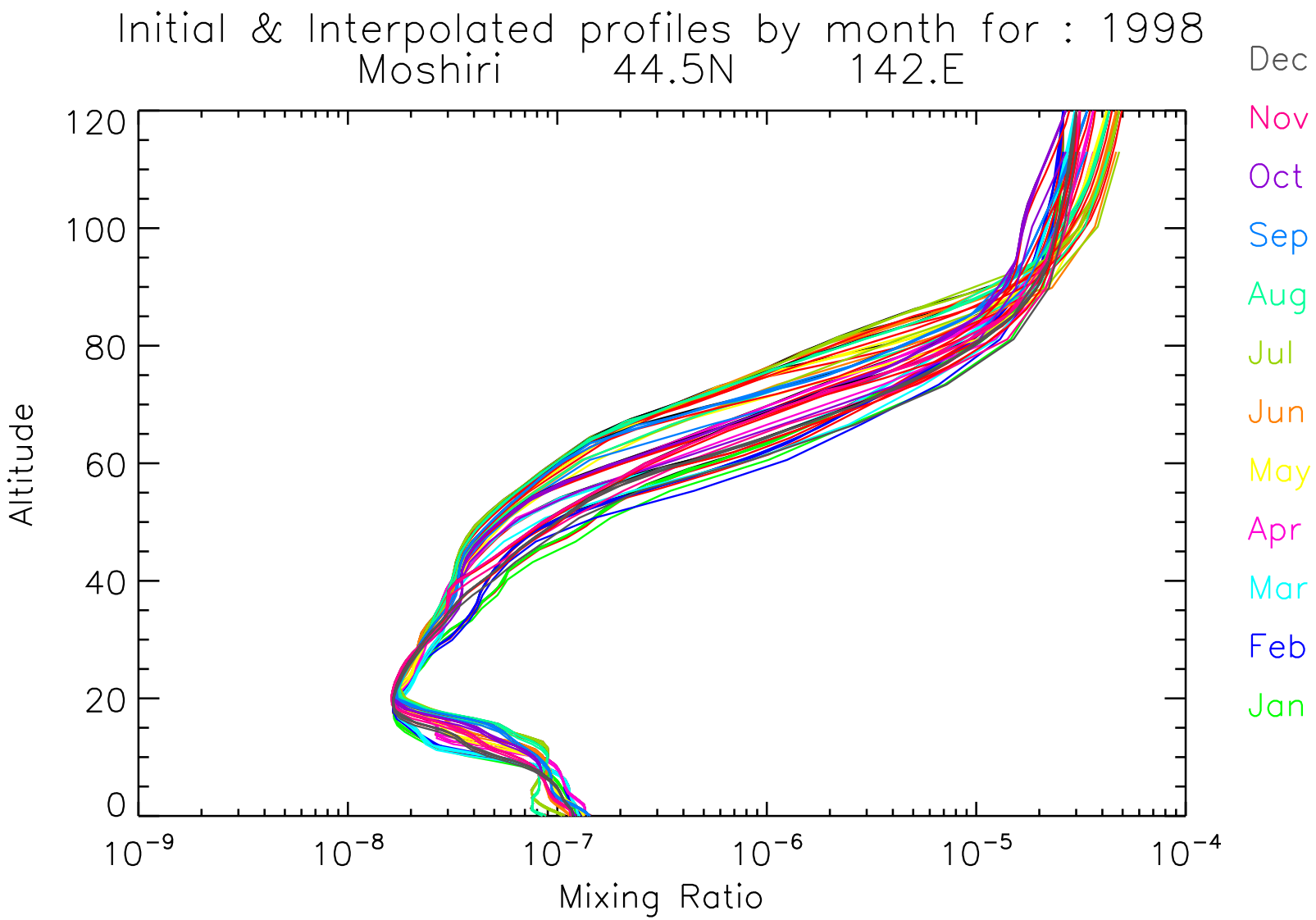
Initial & Interpolated profiles by month for : 1998
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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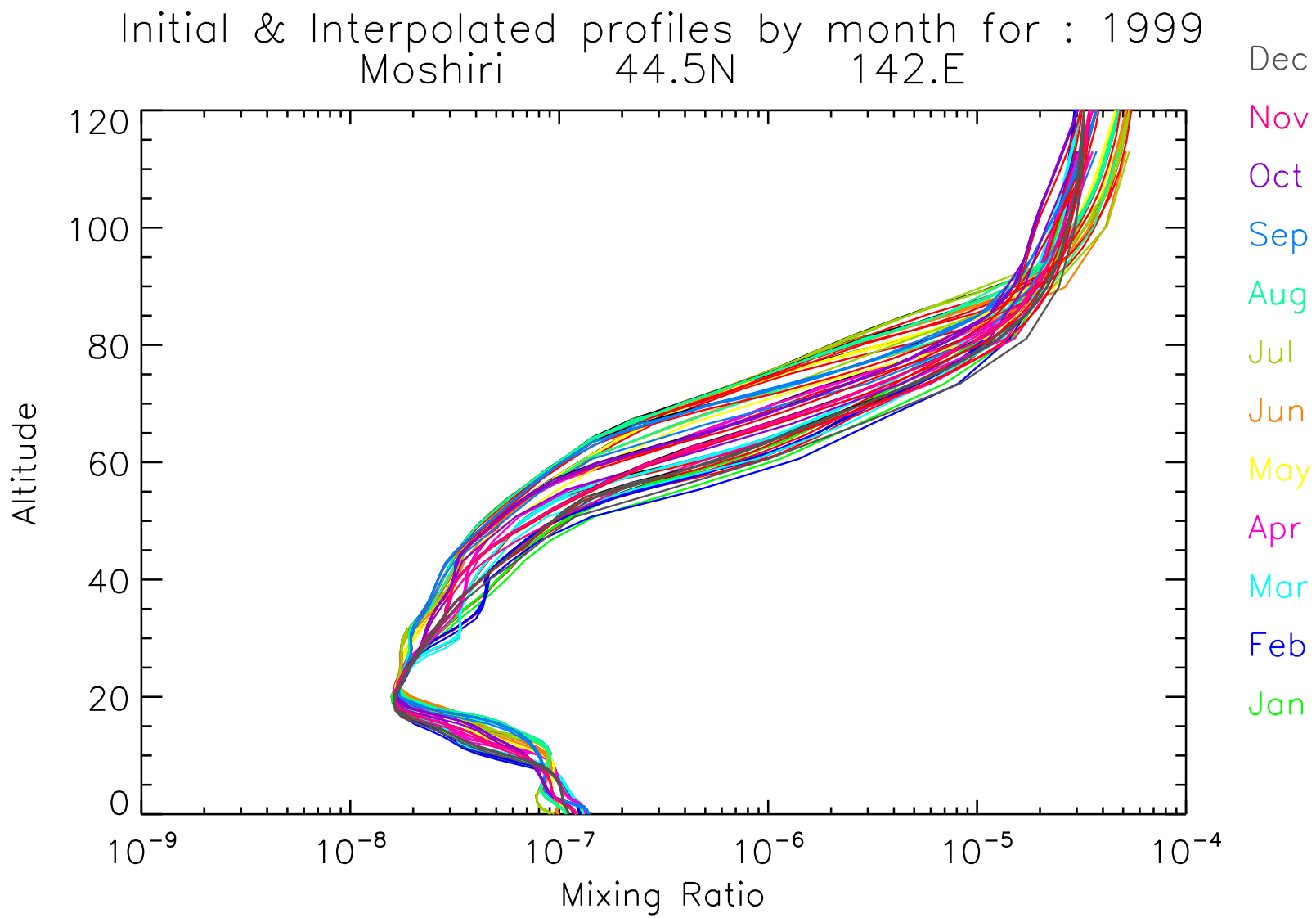
Initial & Interpolated profiles by month for : 1999
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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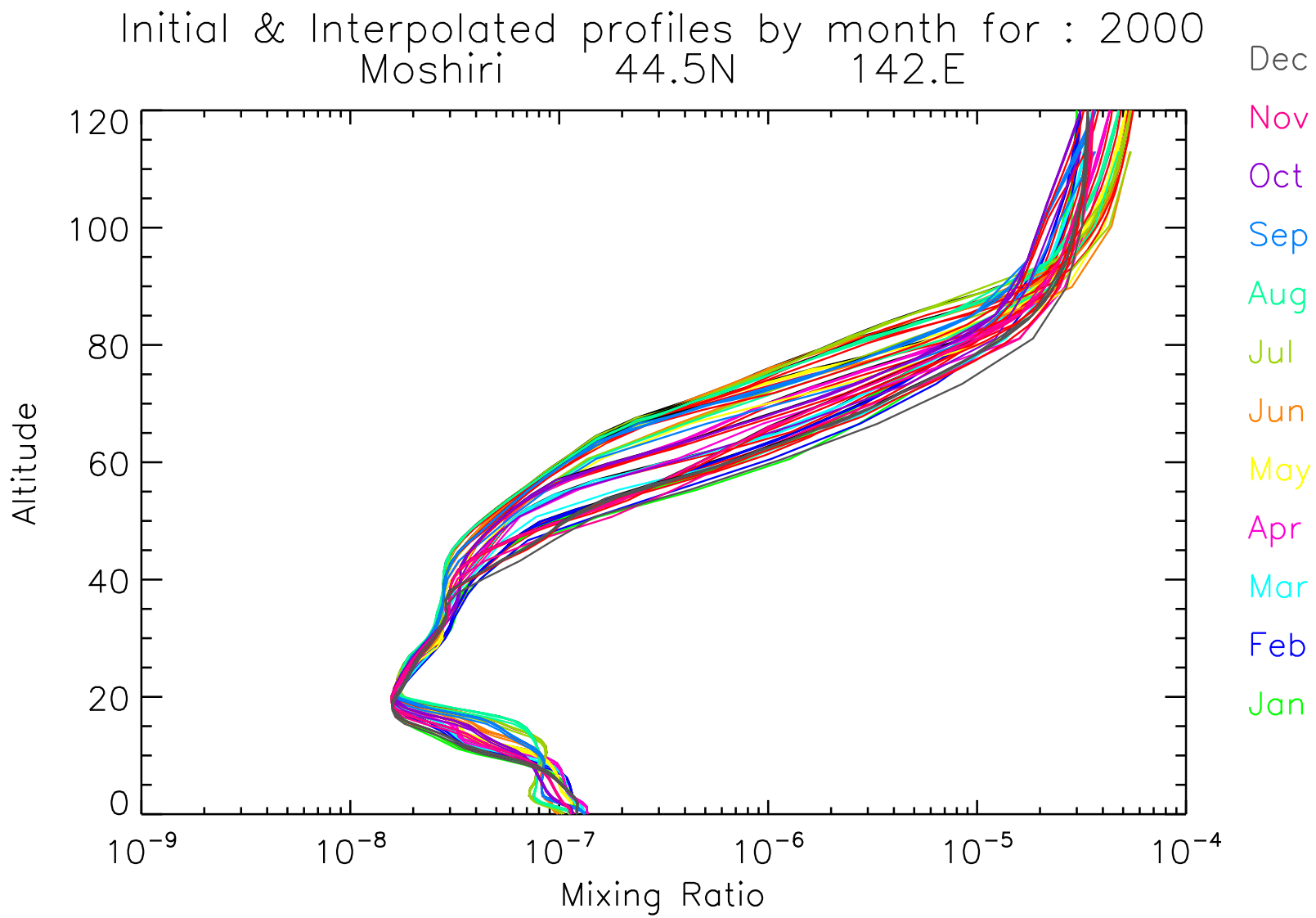
Initial & Interpolated profiles by month for : 2000
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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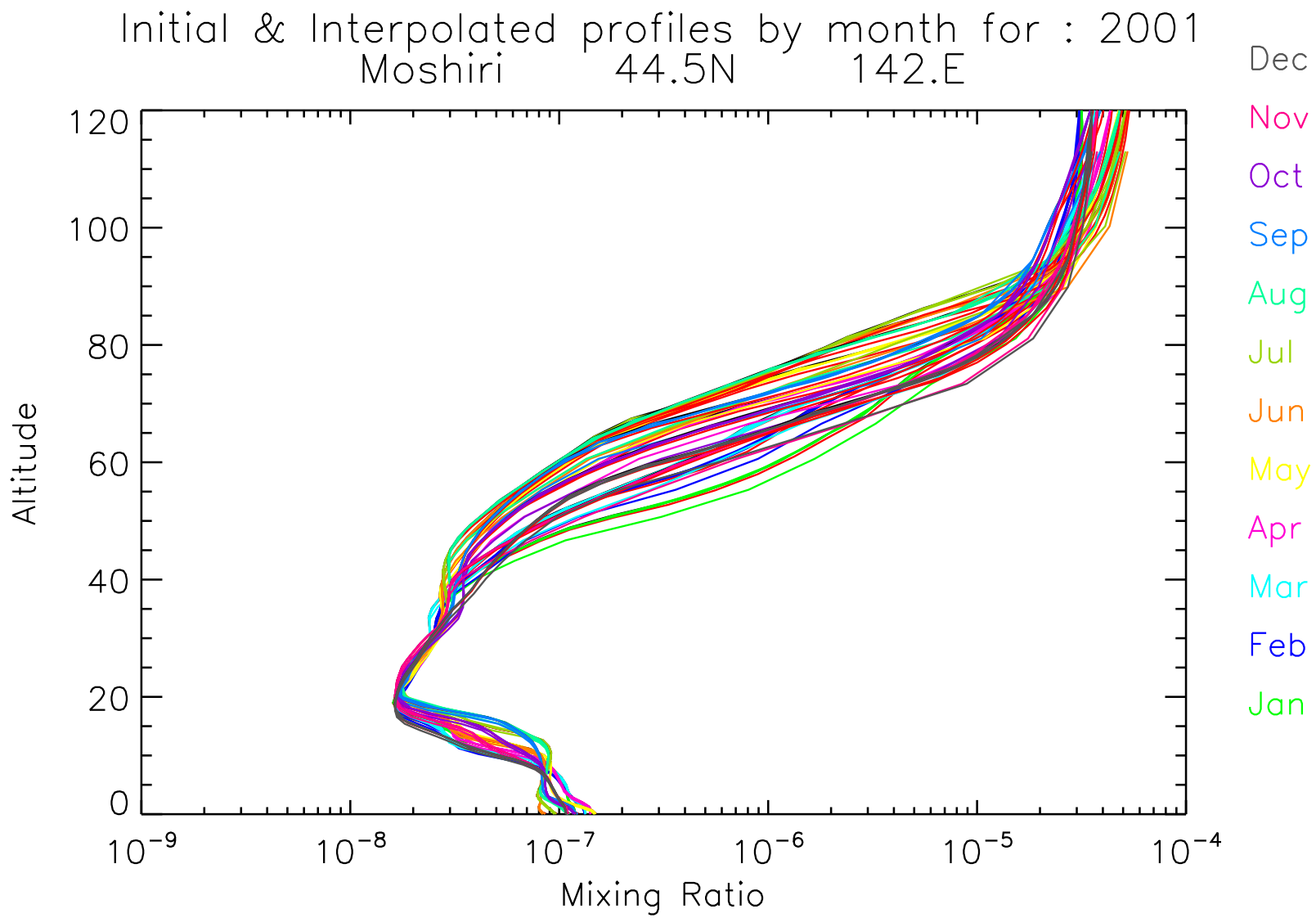
Initial & Interpolated profiles by month for : 2001
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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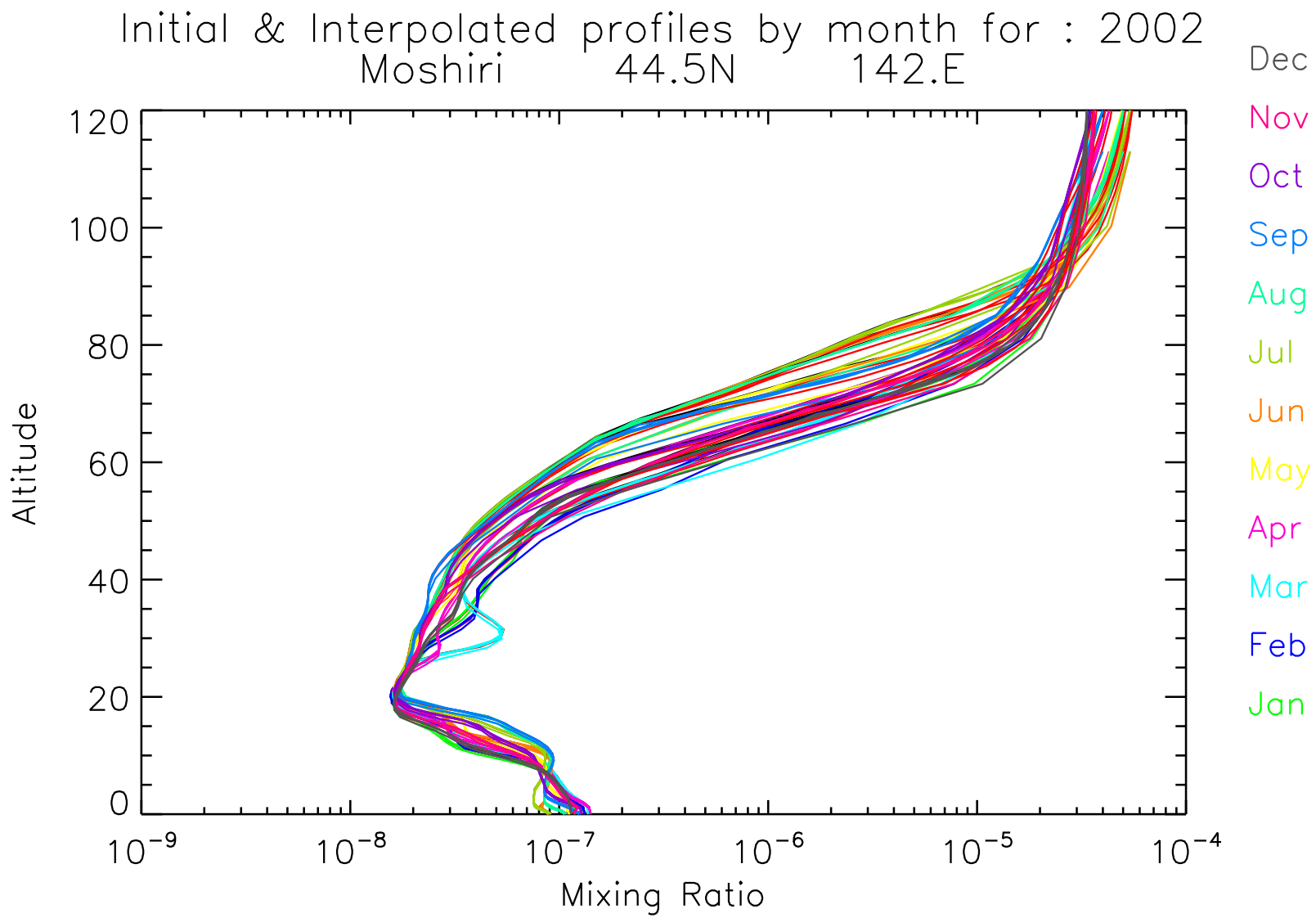
Initial & Interpolated profiles by month for : 2002
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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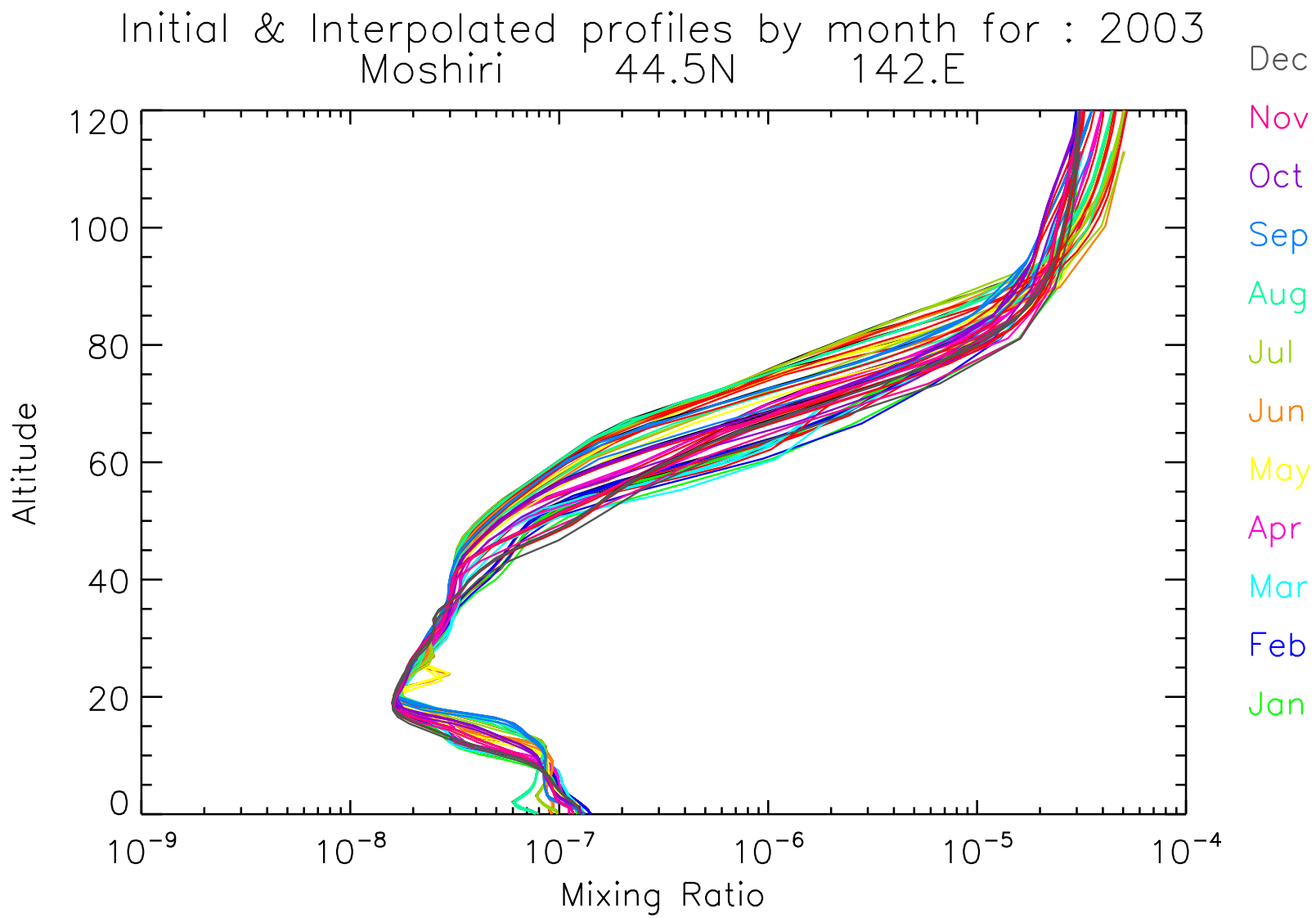
Initial & Interpolated profiles by month for : 2003
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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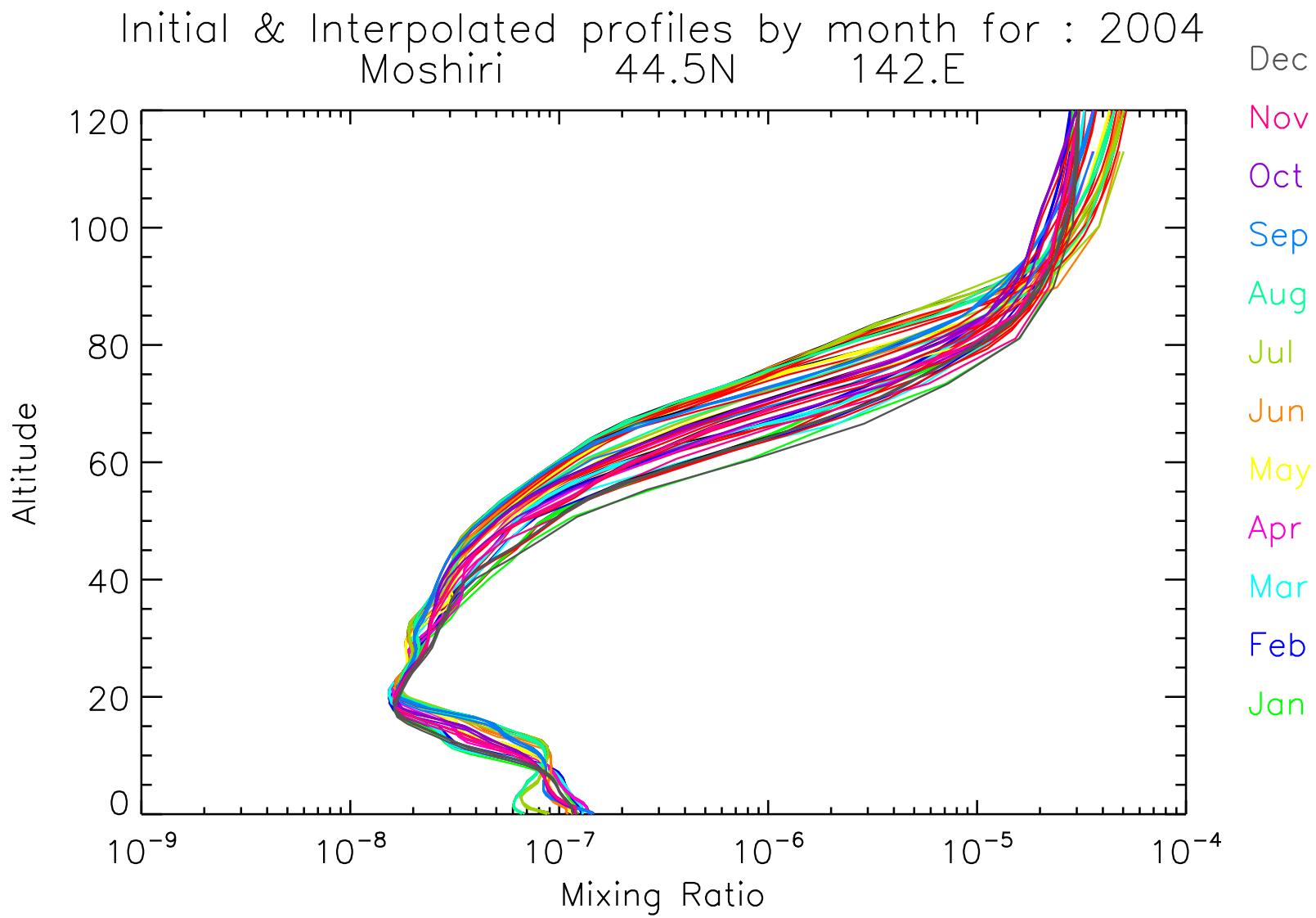
Initial & Interpolated profiles by month for : 2004
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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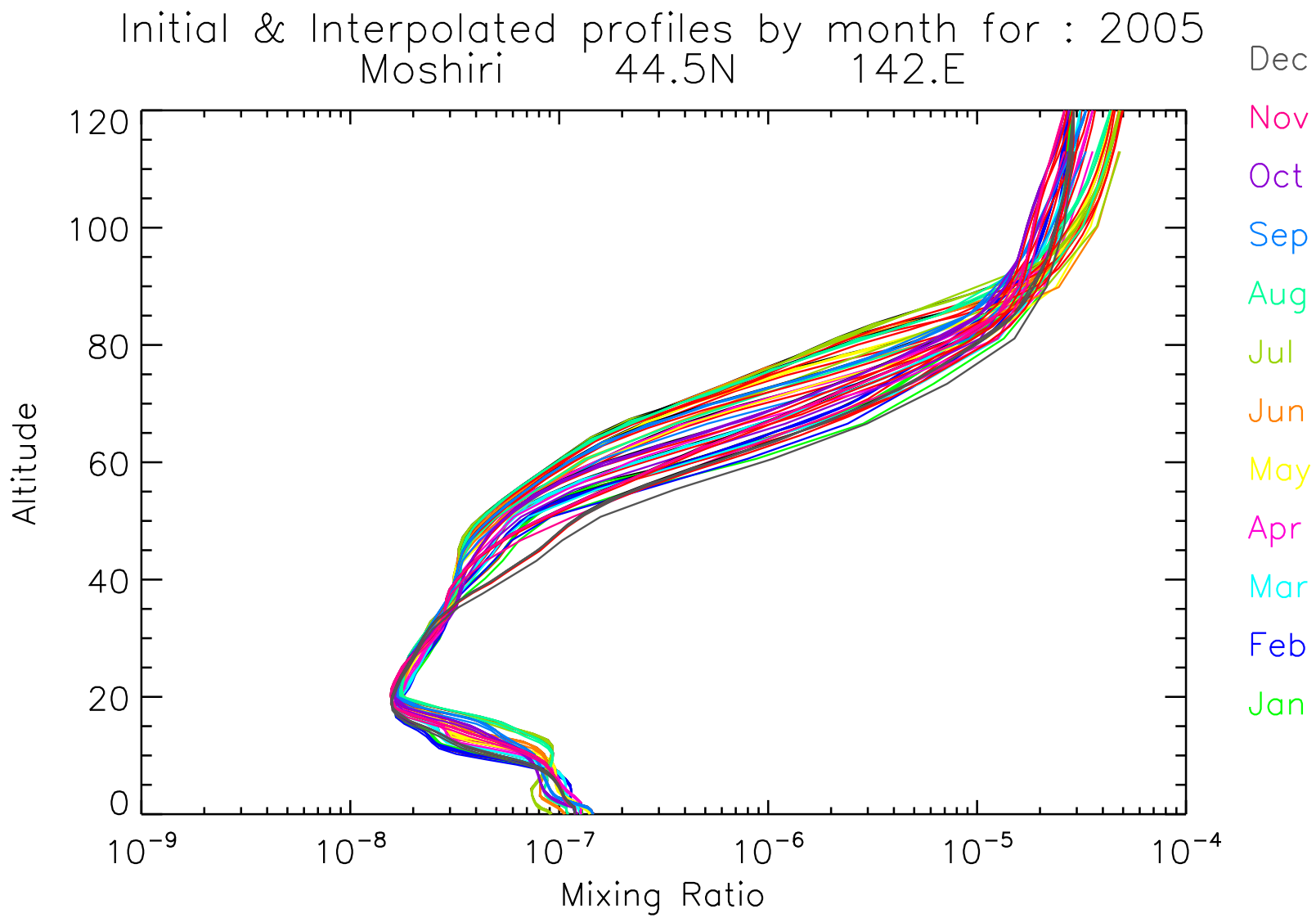
Initial & Interpolated profiles by month for : 2005
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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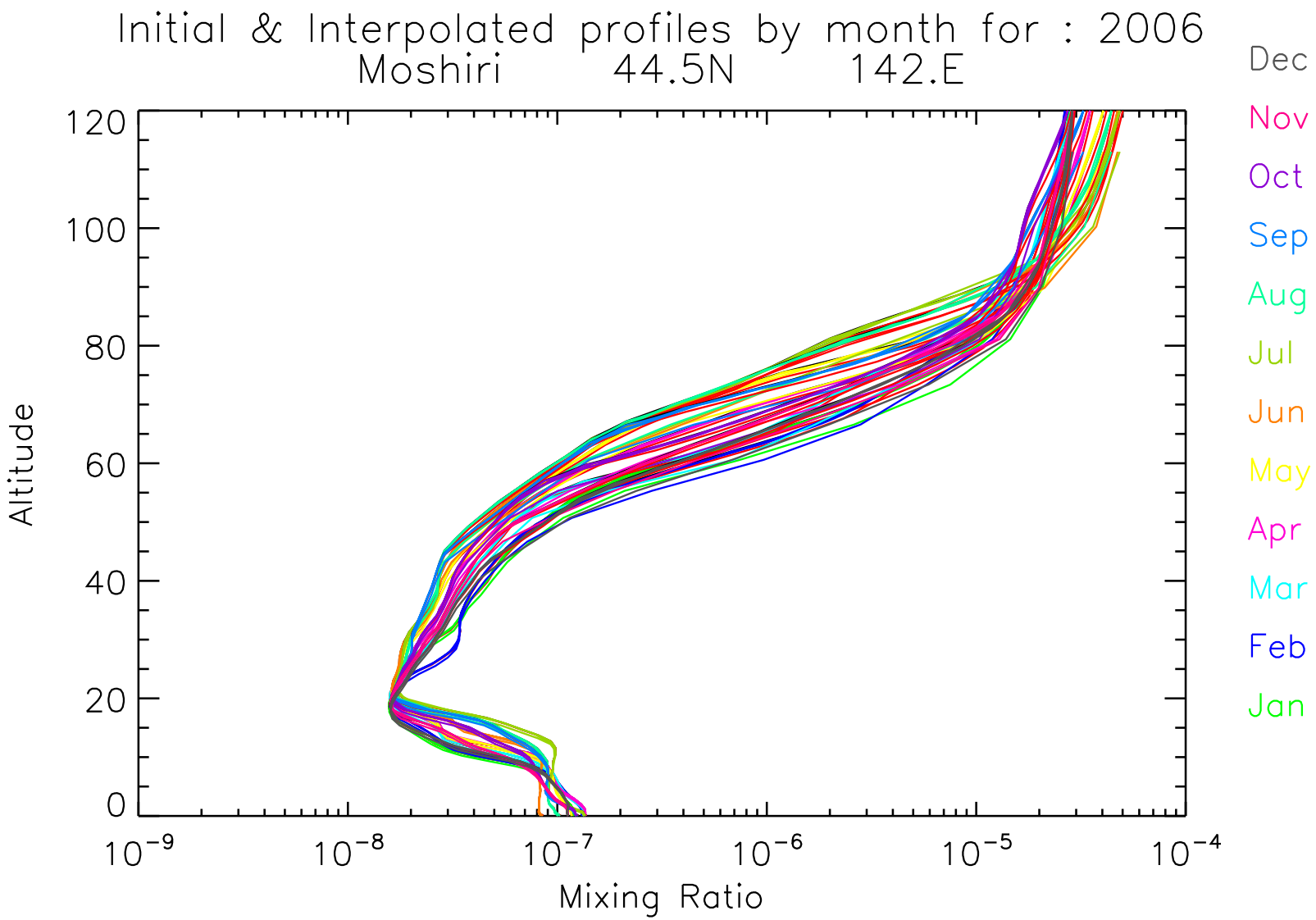
Initial & Interpolated profiles by month for : 2006
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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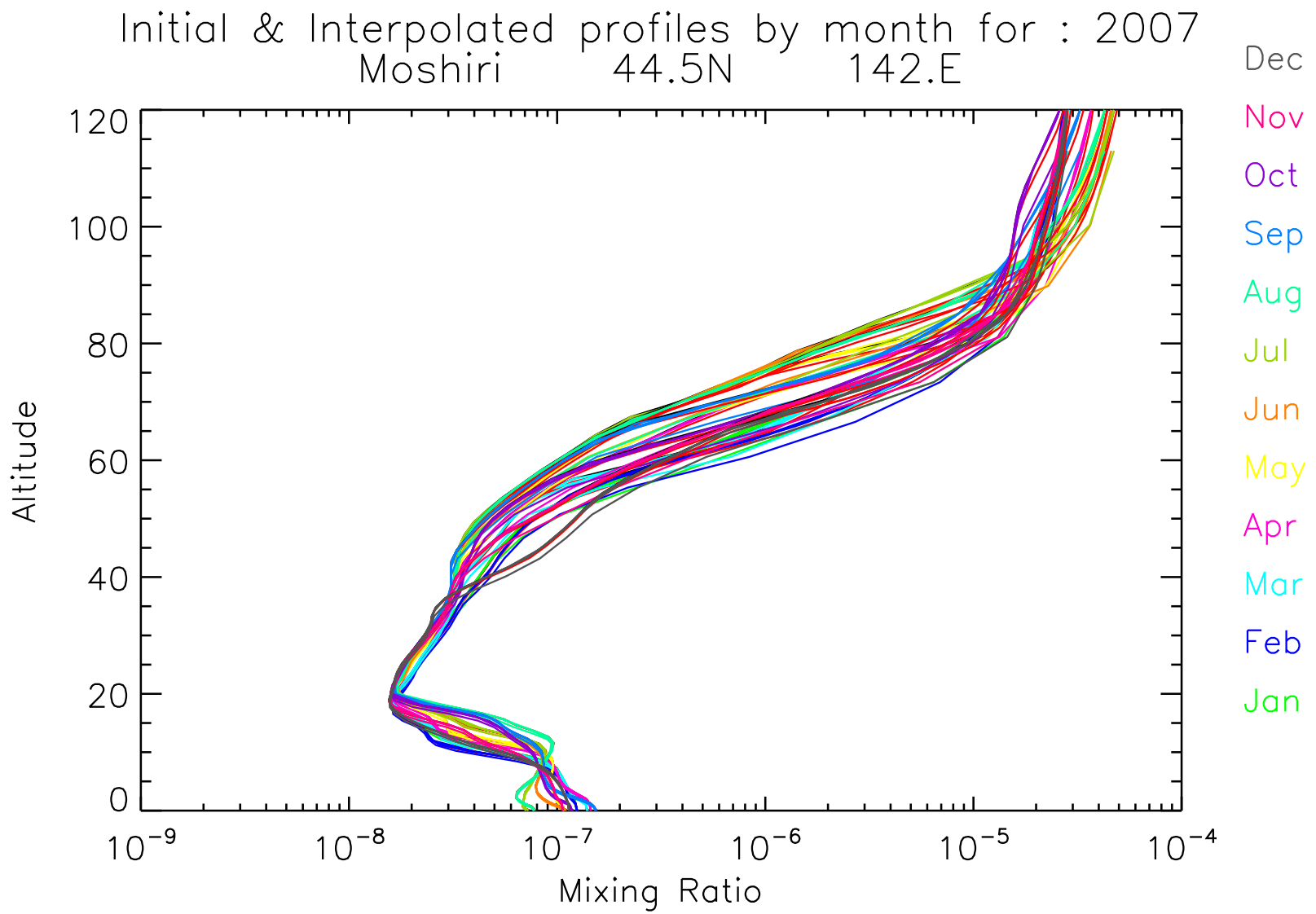
Initial & Interpolated profiles by month for : 2007
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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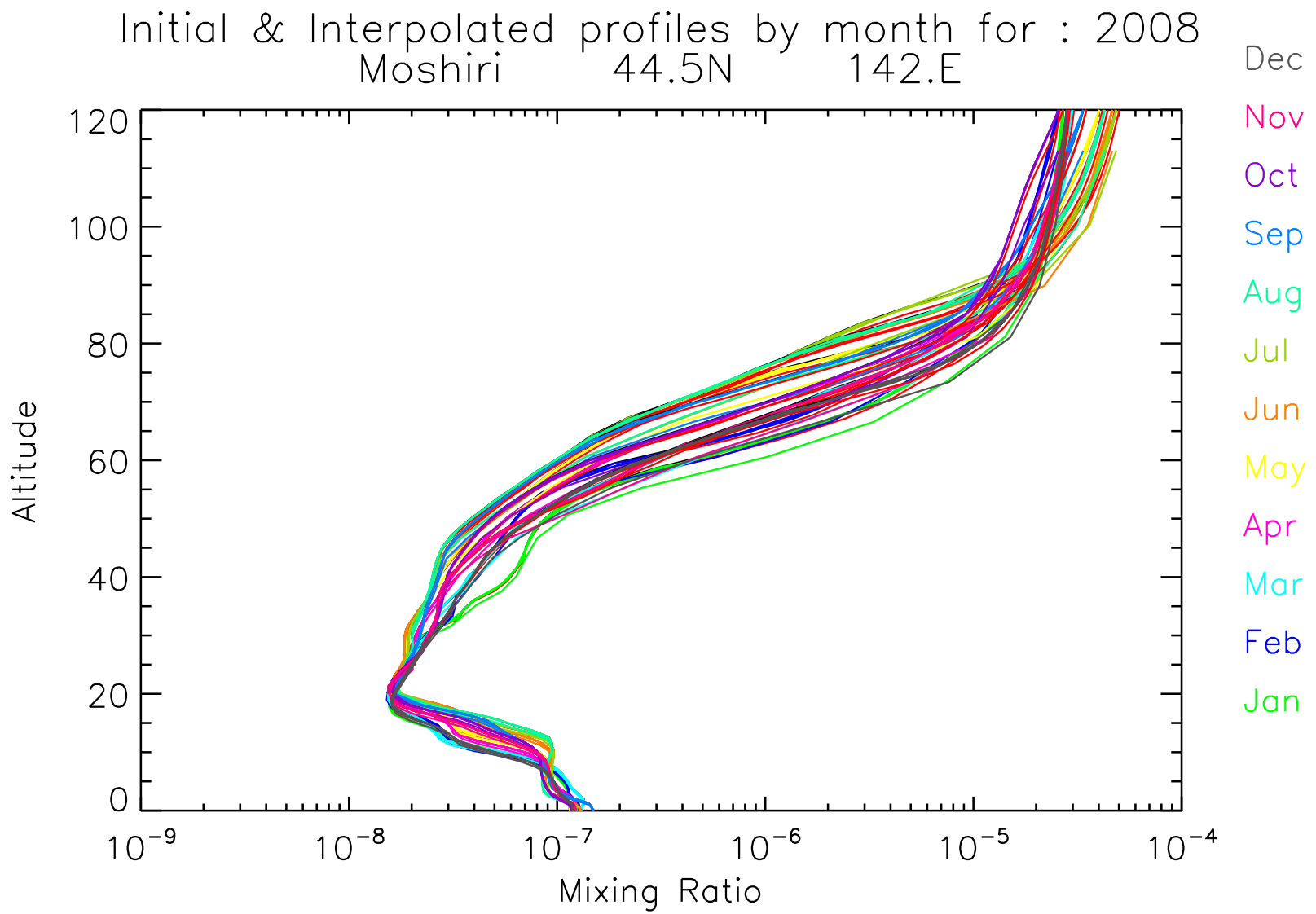
Initial & Interpolated profiles by month for : 2008
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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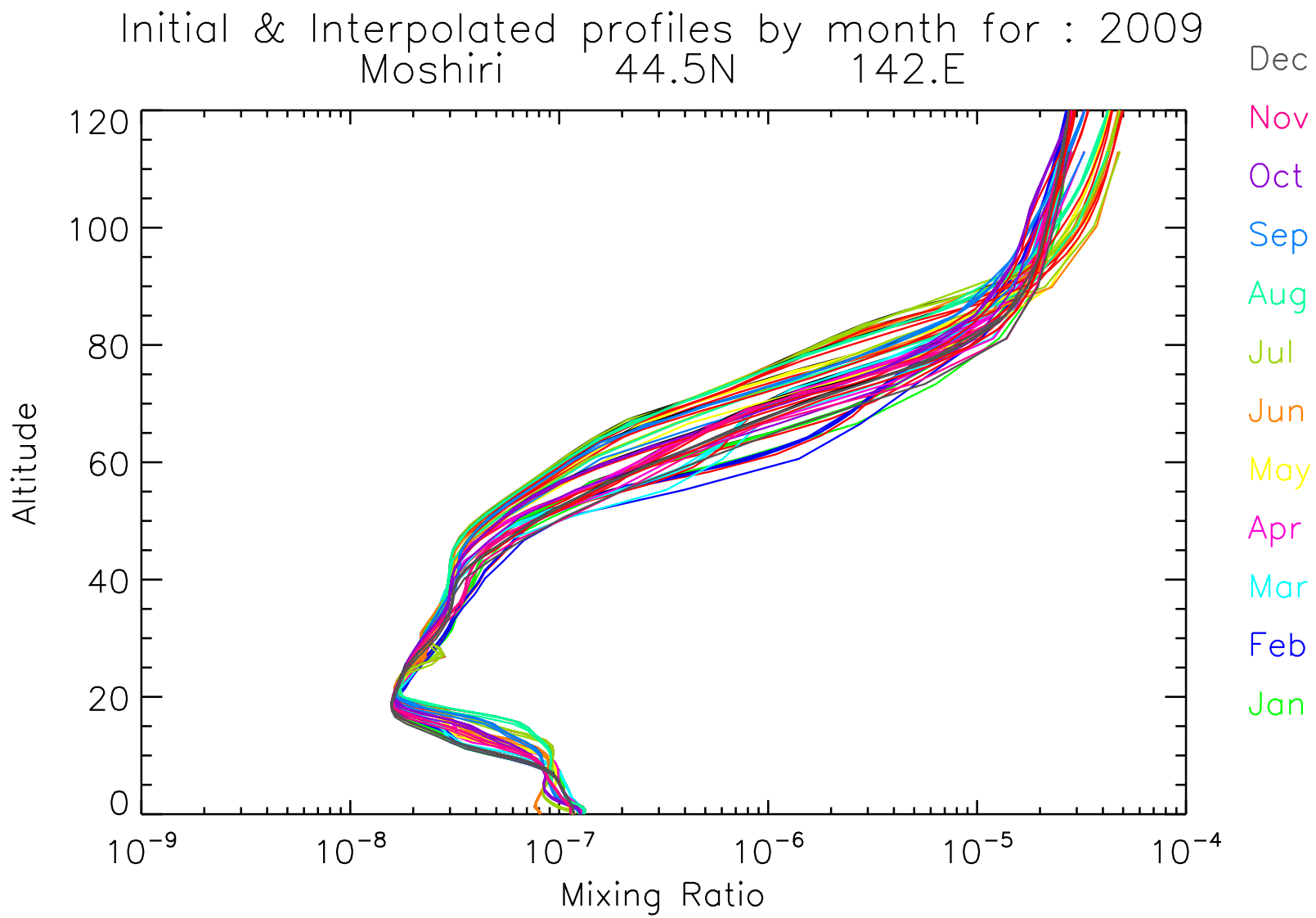
Initial & Interpolated profiles by month for : 2009
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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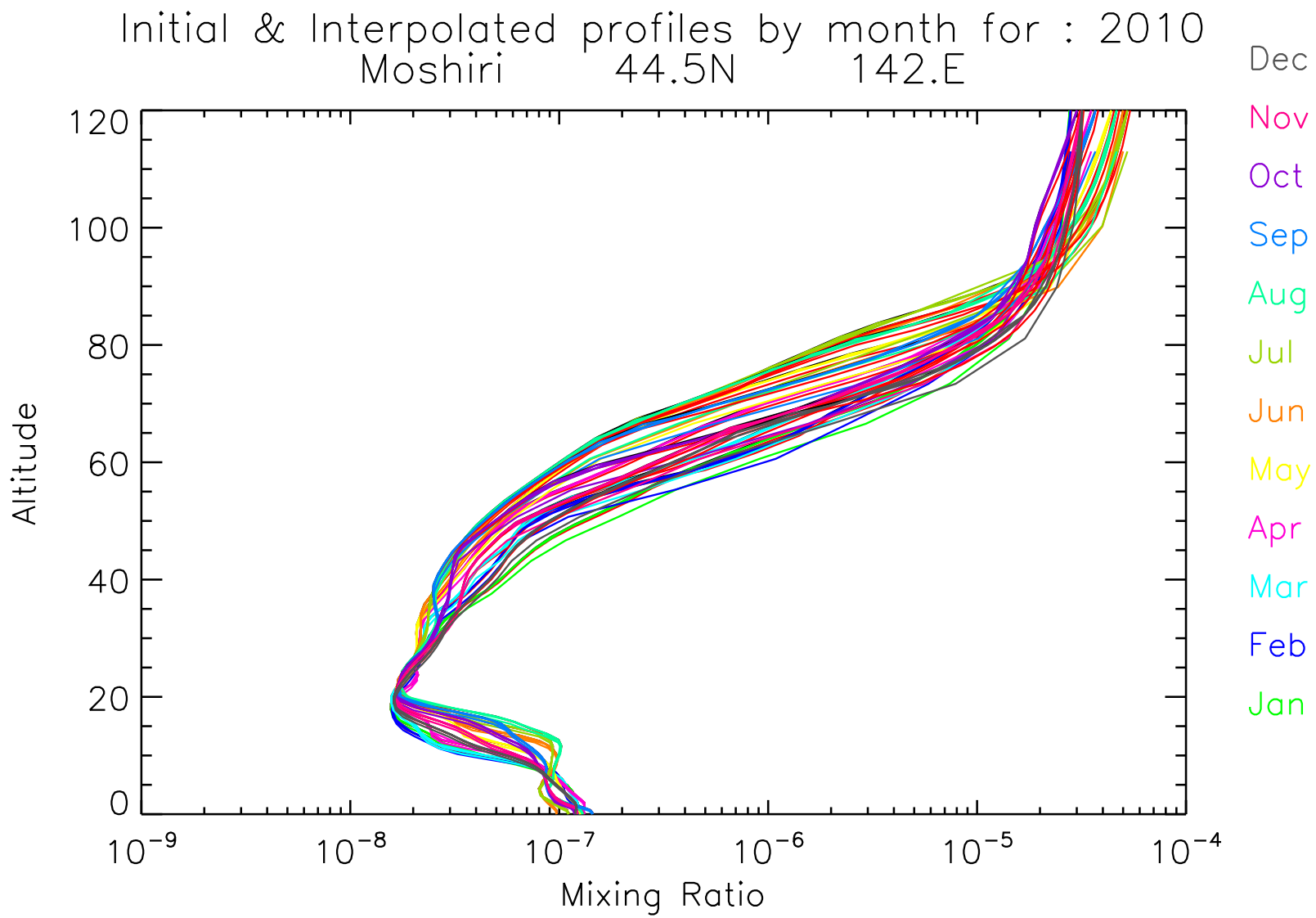
Initial & Interpolated profiles by month for : 2010
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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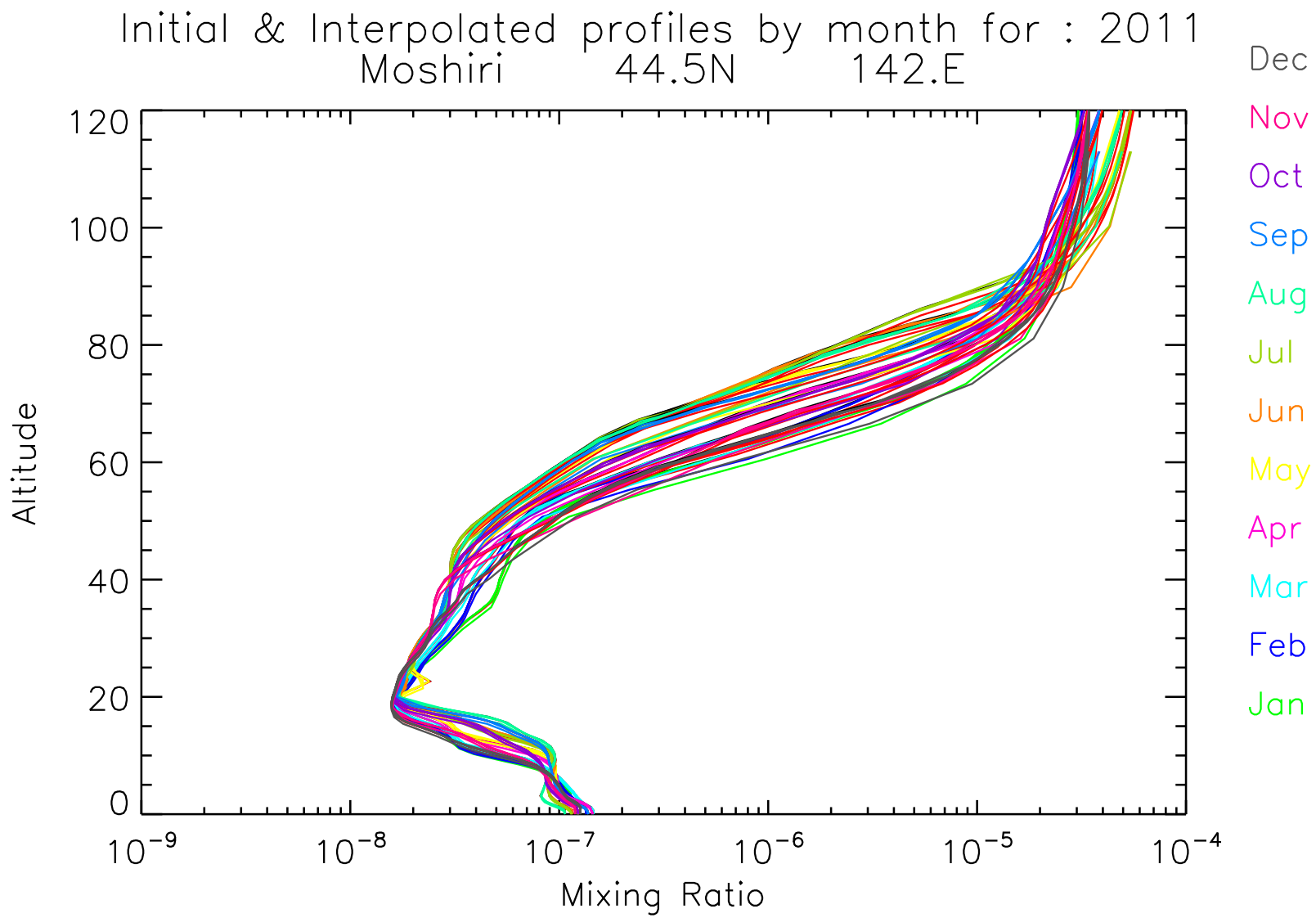
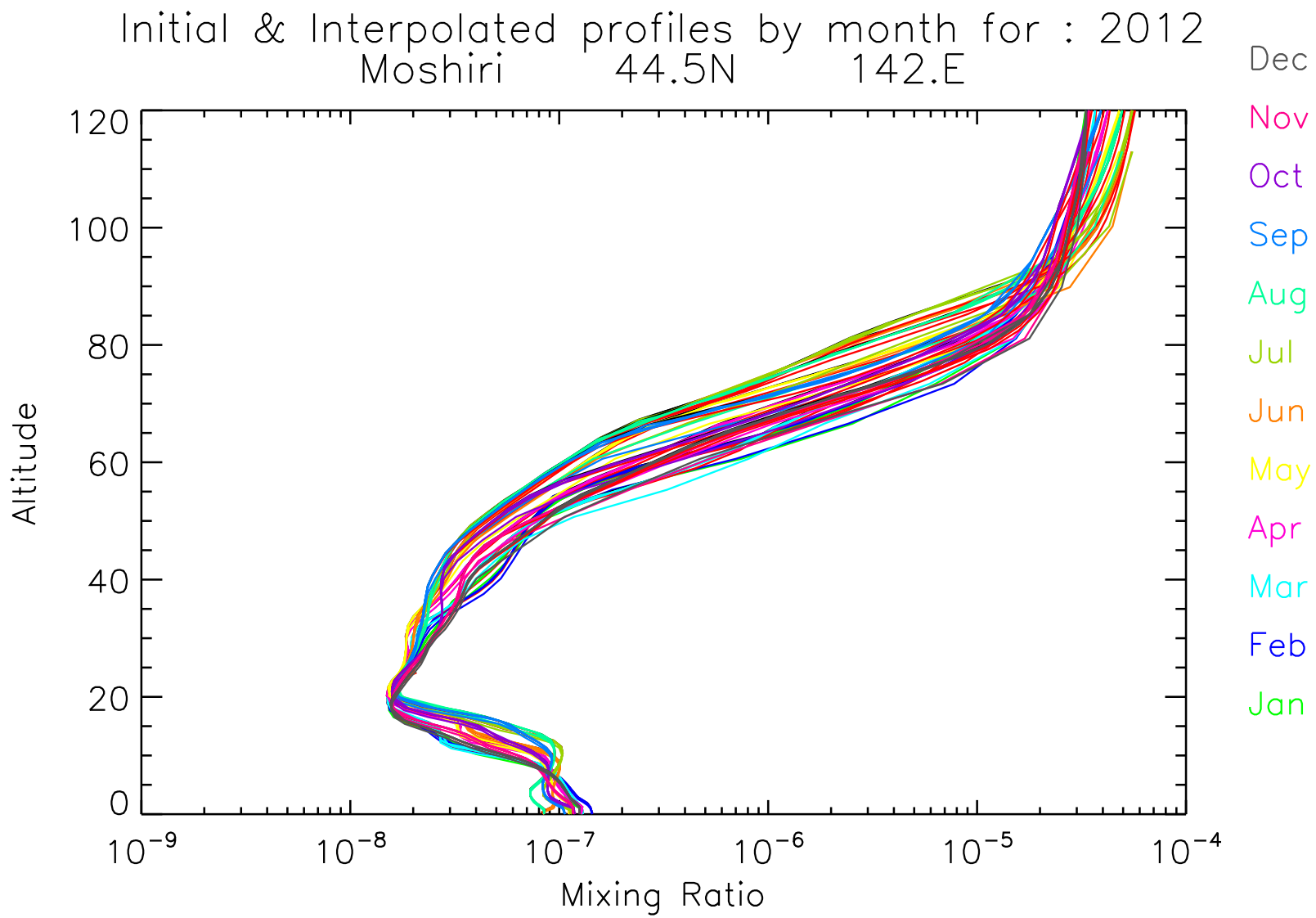
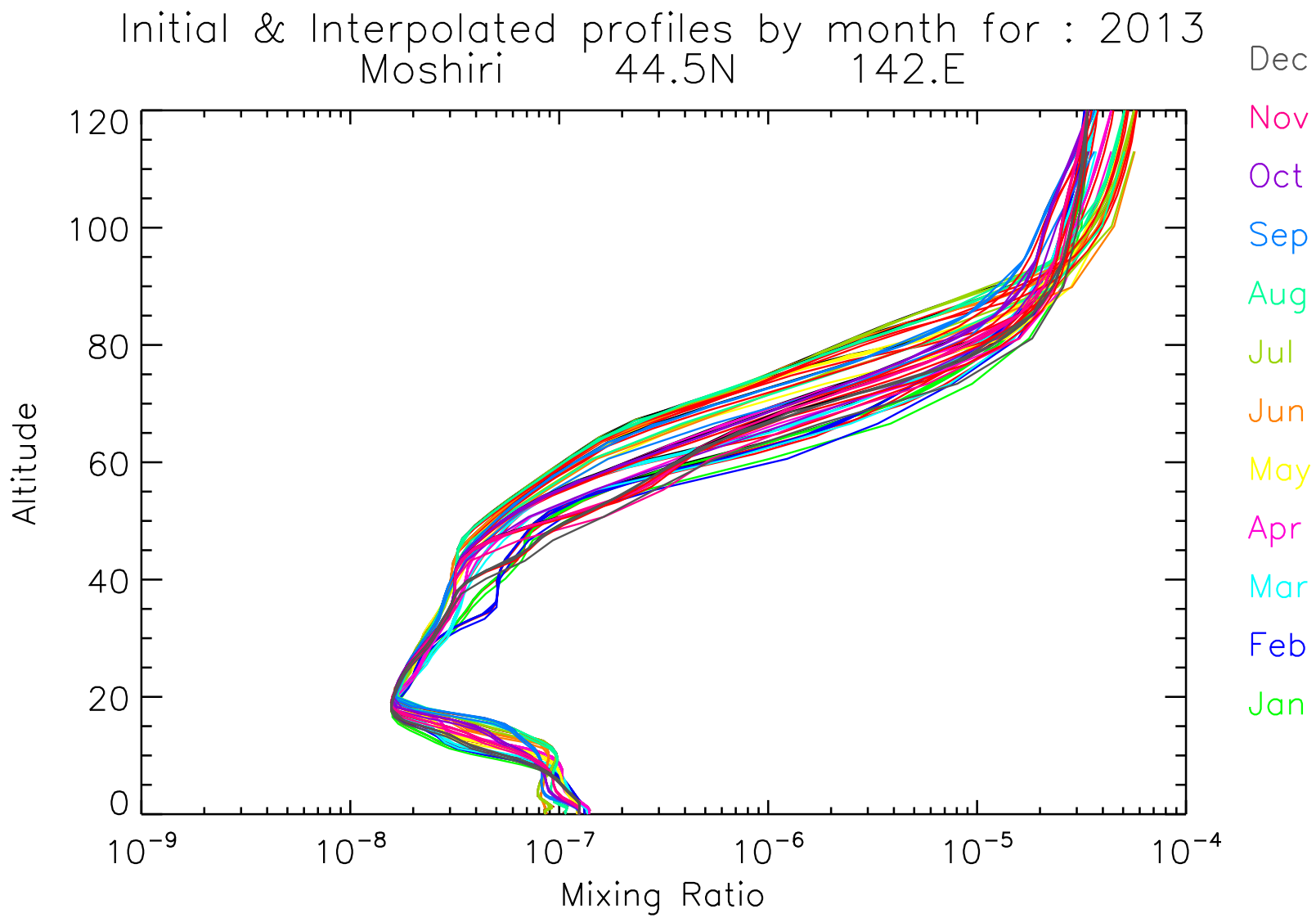
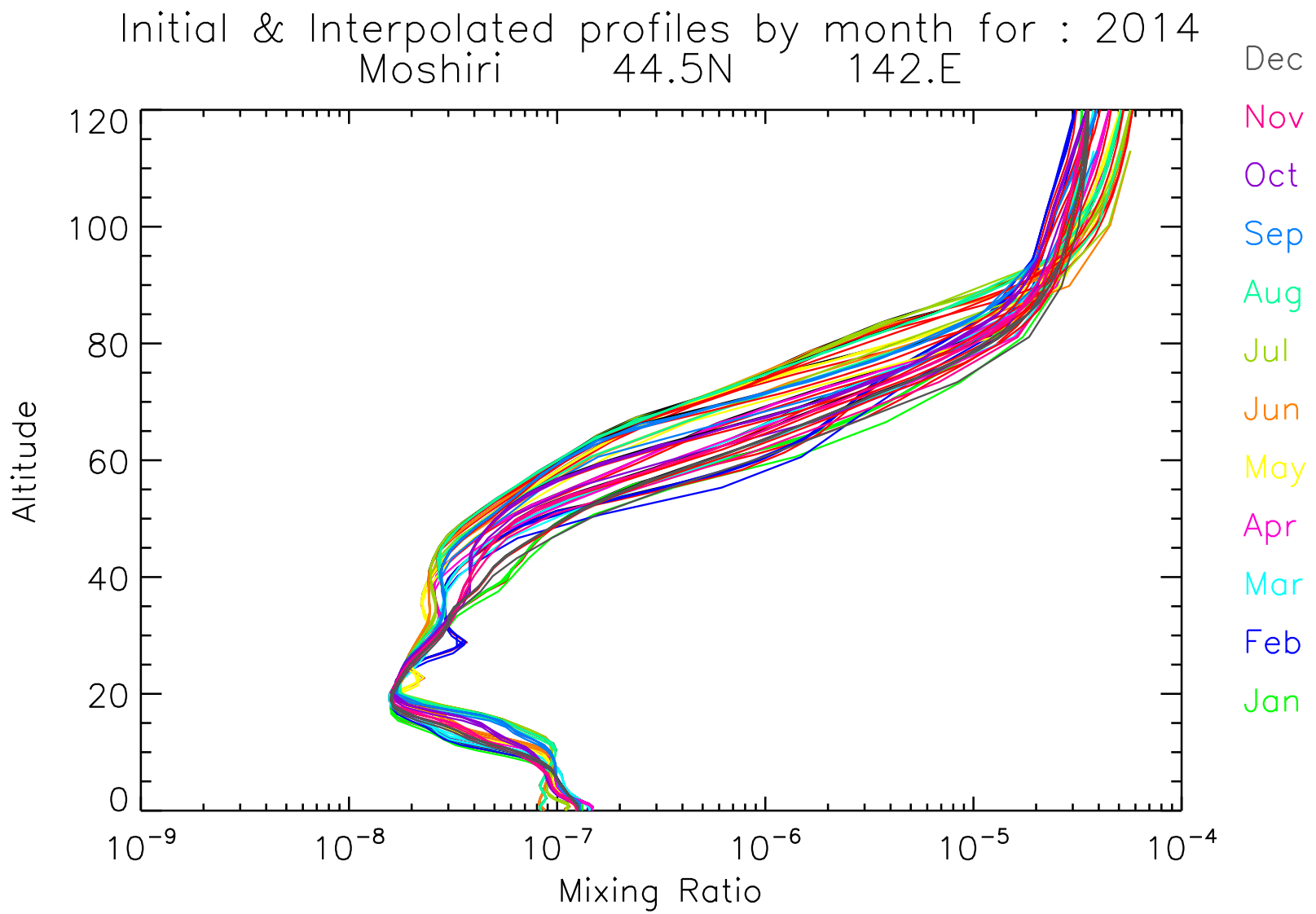
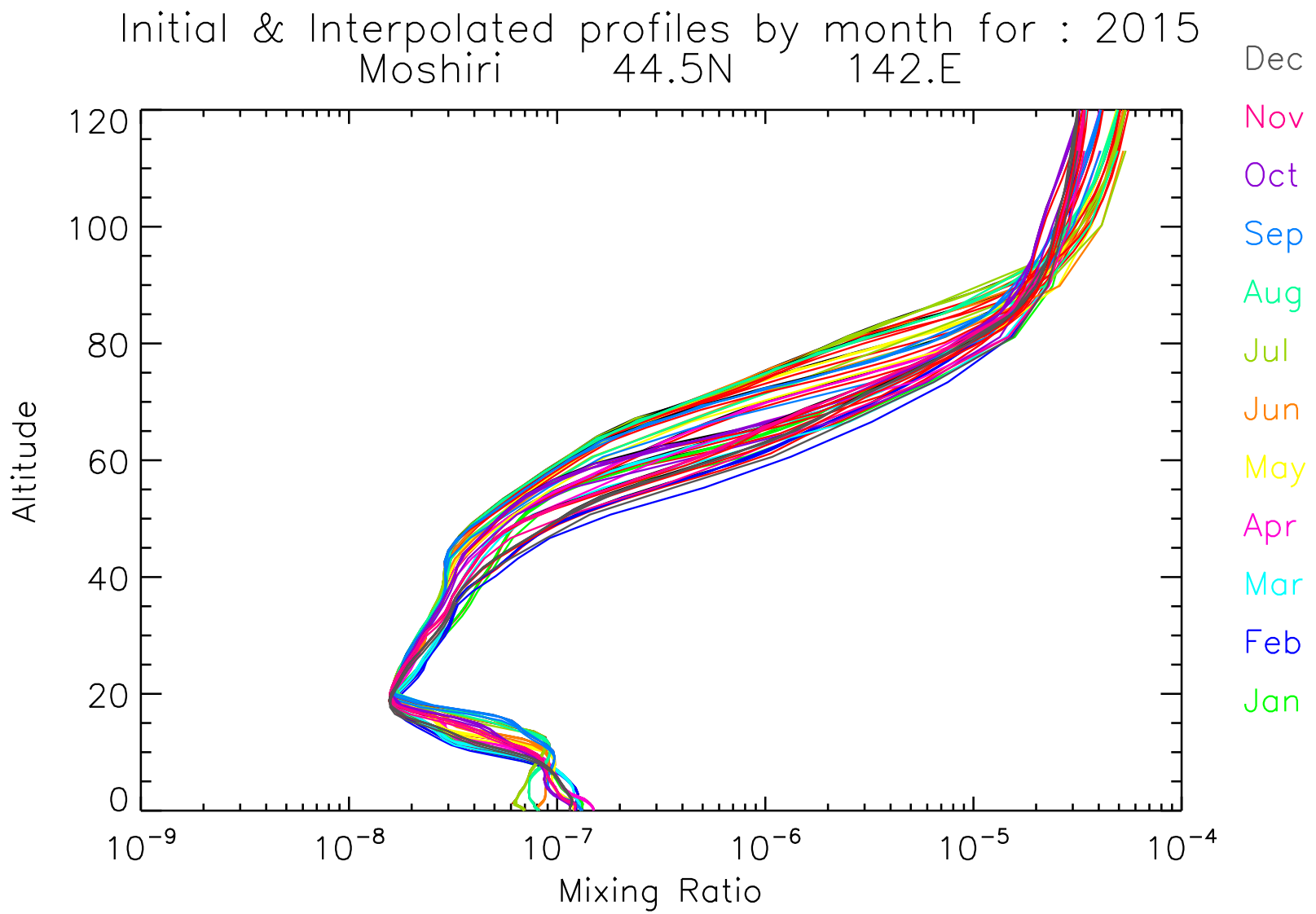
Feb
Jan

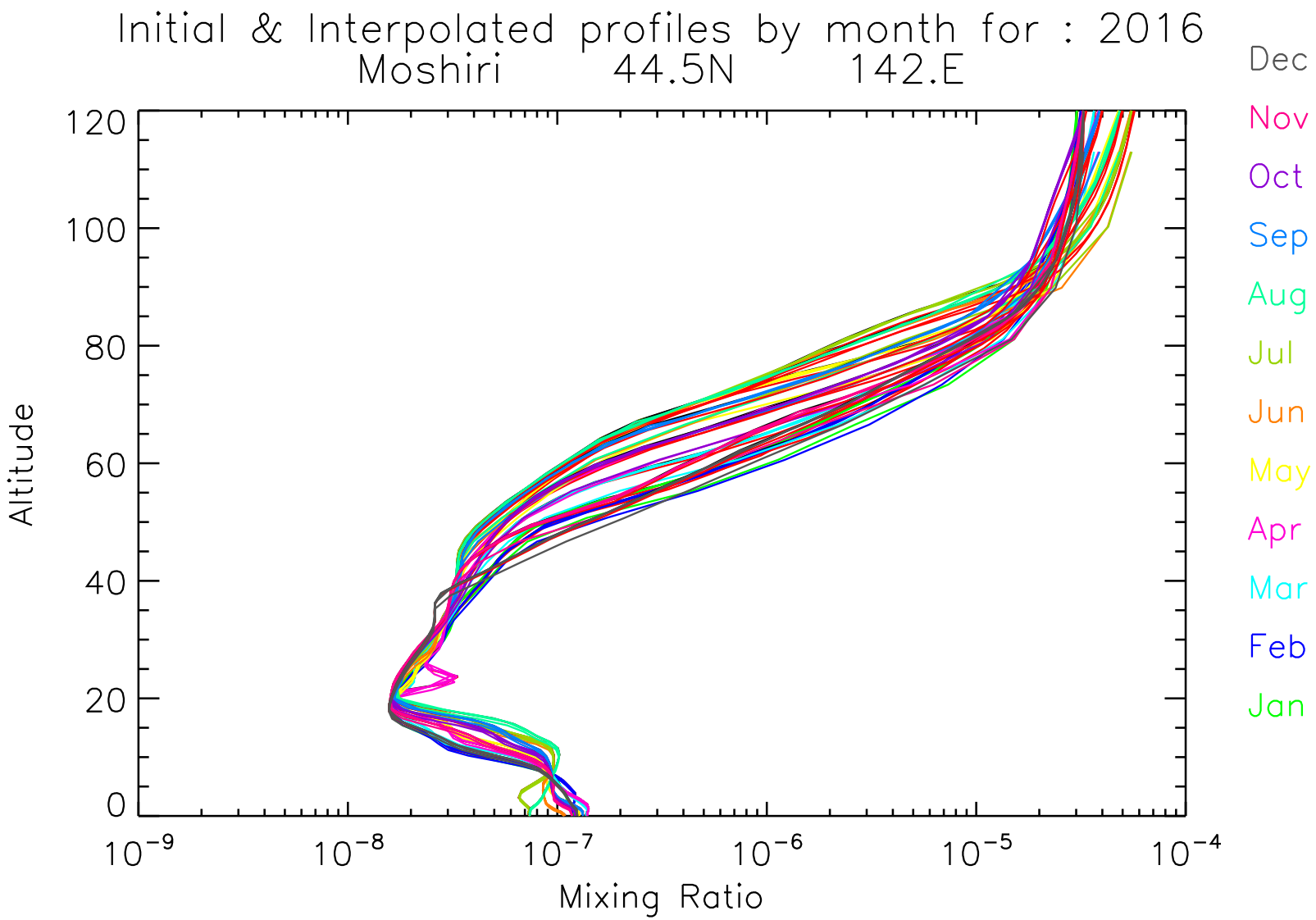

Initial & Interpolated profiles by month for : 2011
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

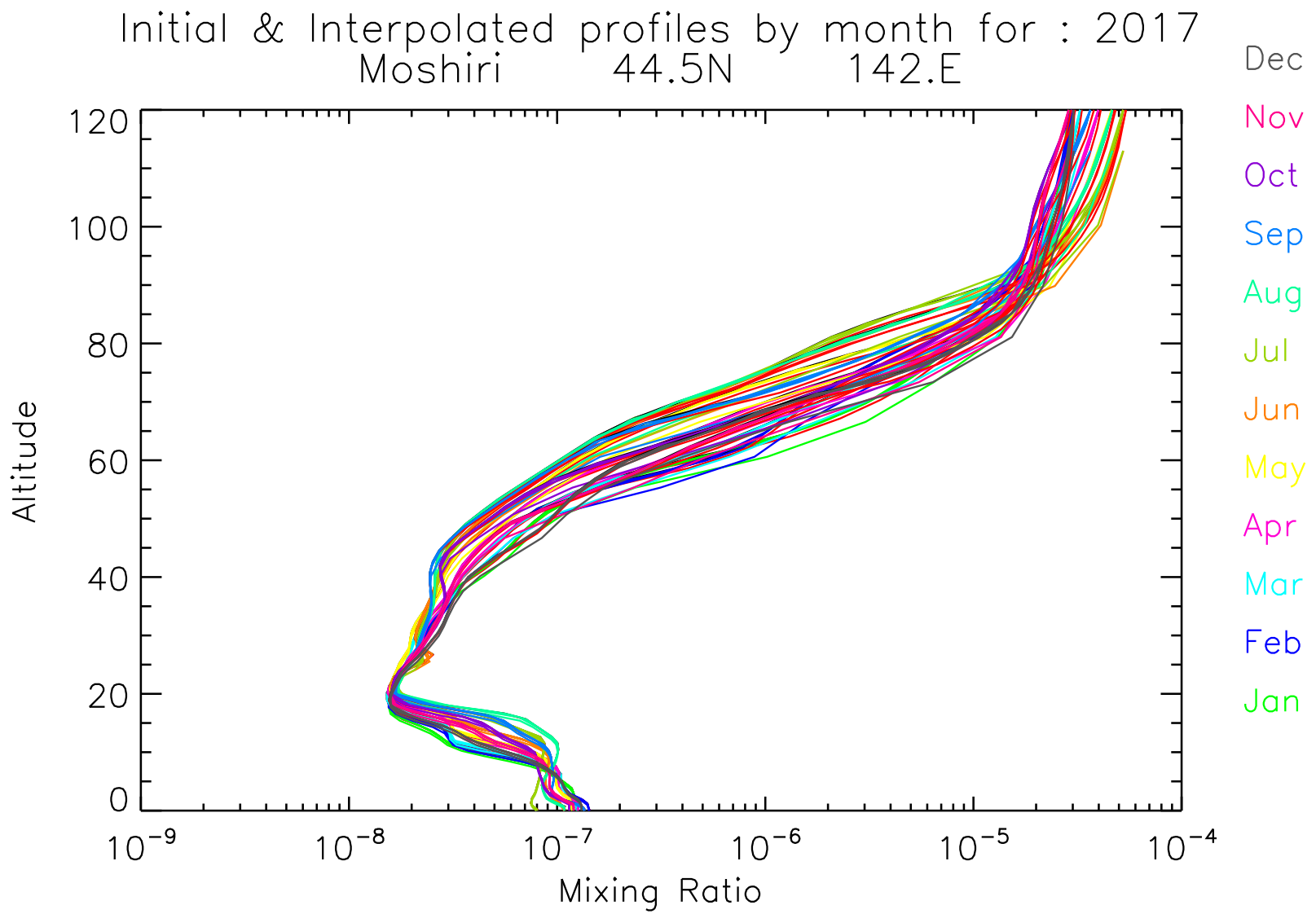

Initial & Interpolated profiles by month for : 2012
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

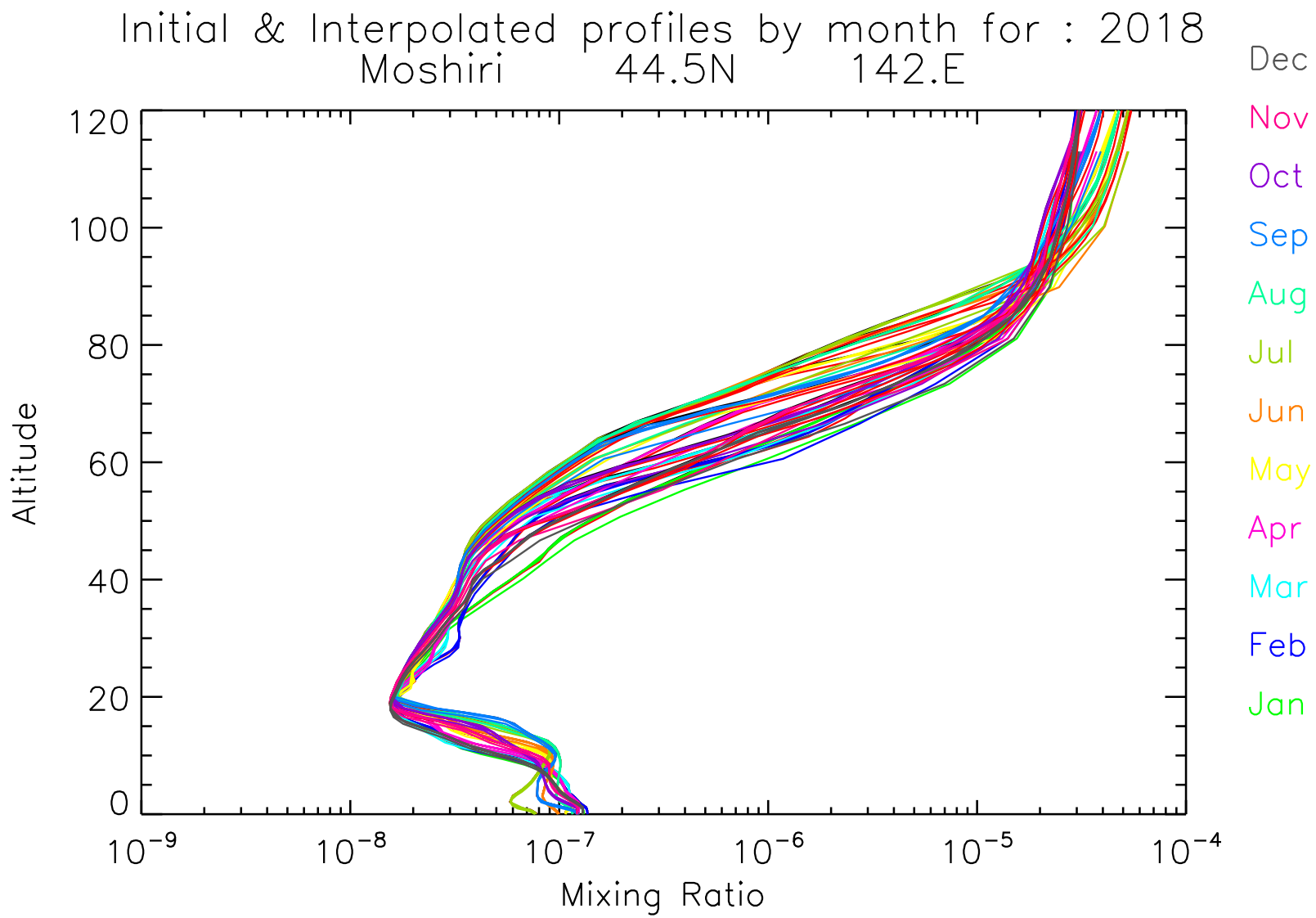

Initial & Interpolated profiles by month for : 2013
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

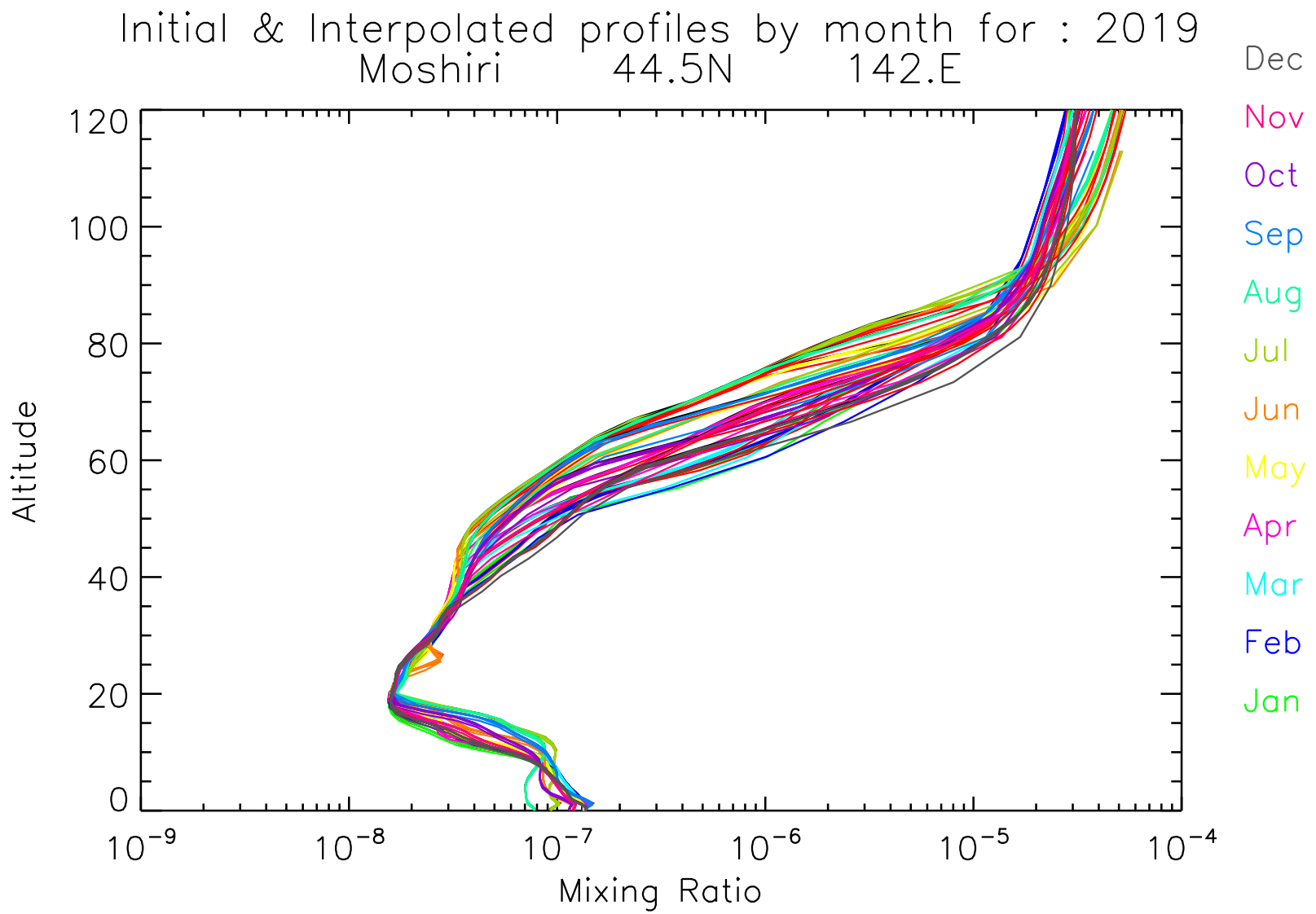

Initial & Interpolated profiles by month for : 2014
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

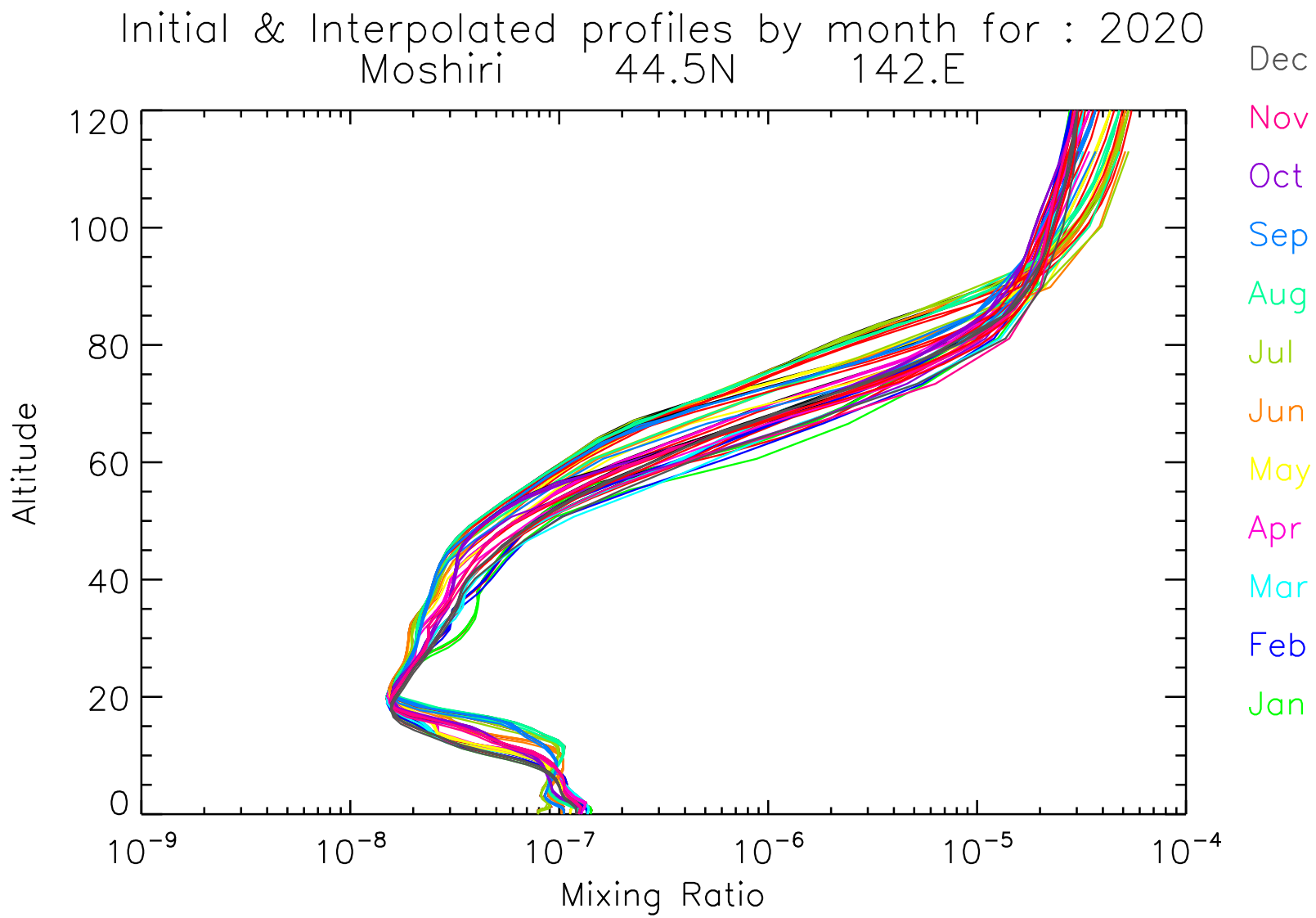

Initial & Interpolated profiles by month for : 2015
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

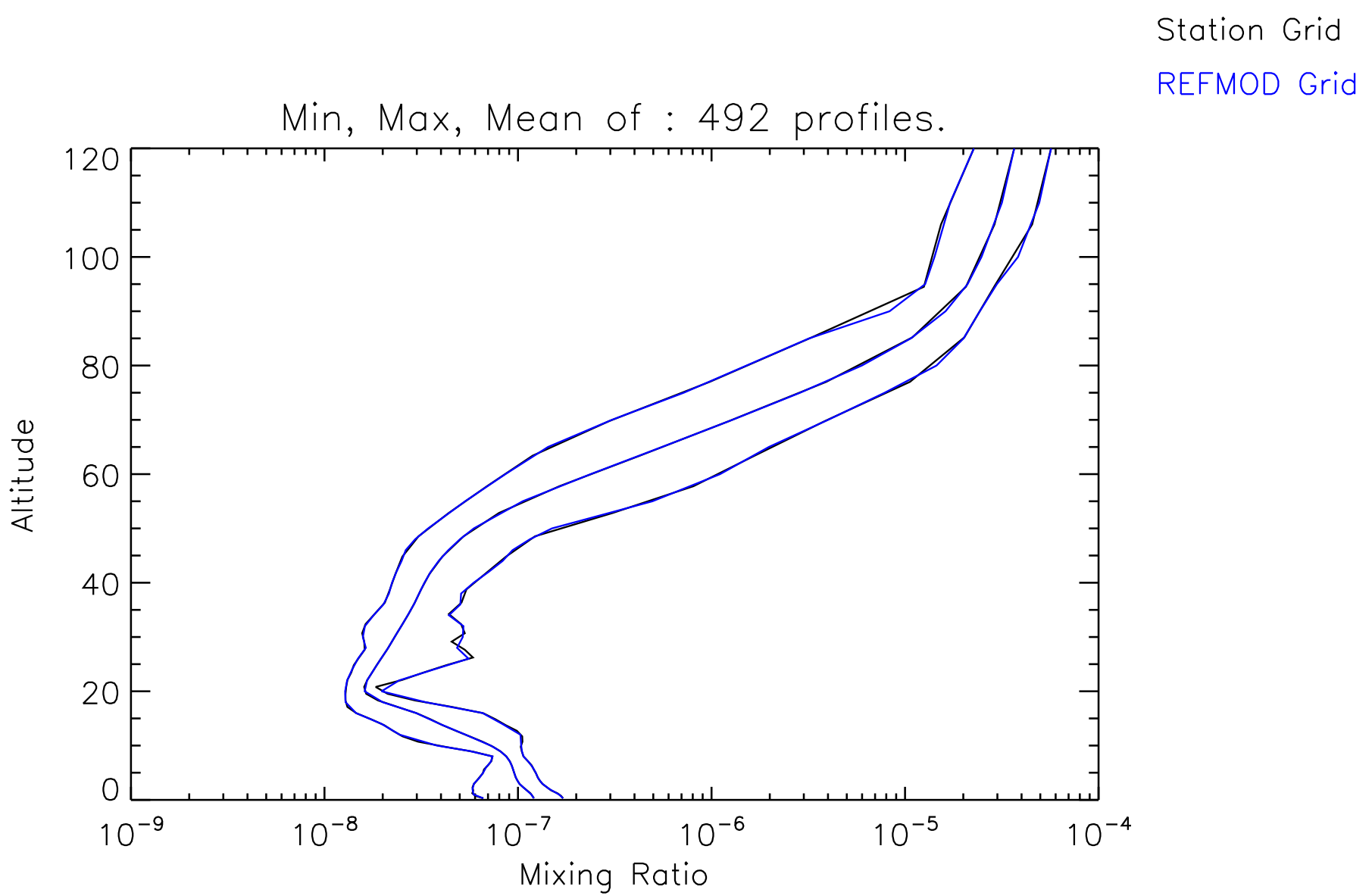

Initial & Interpolated profiles by month for : 2016
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

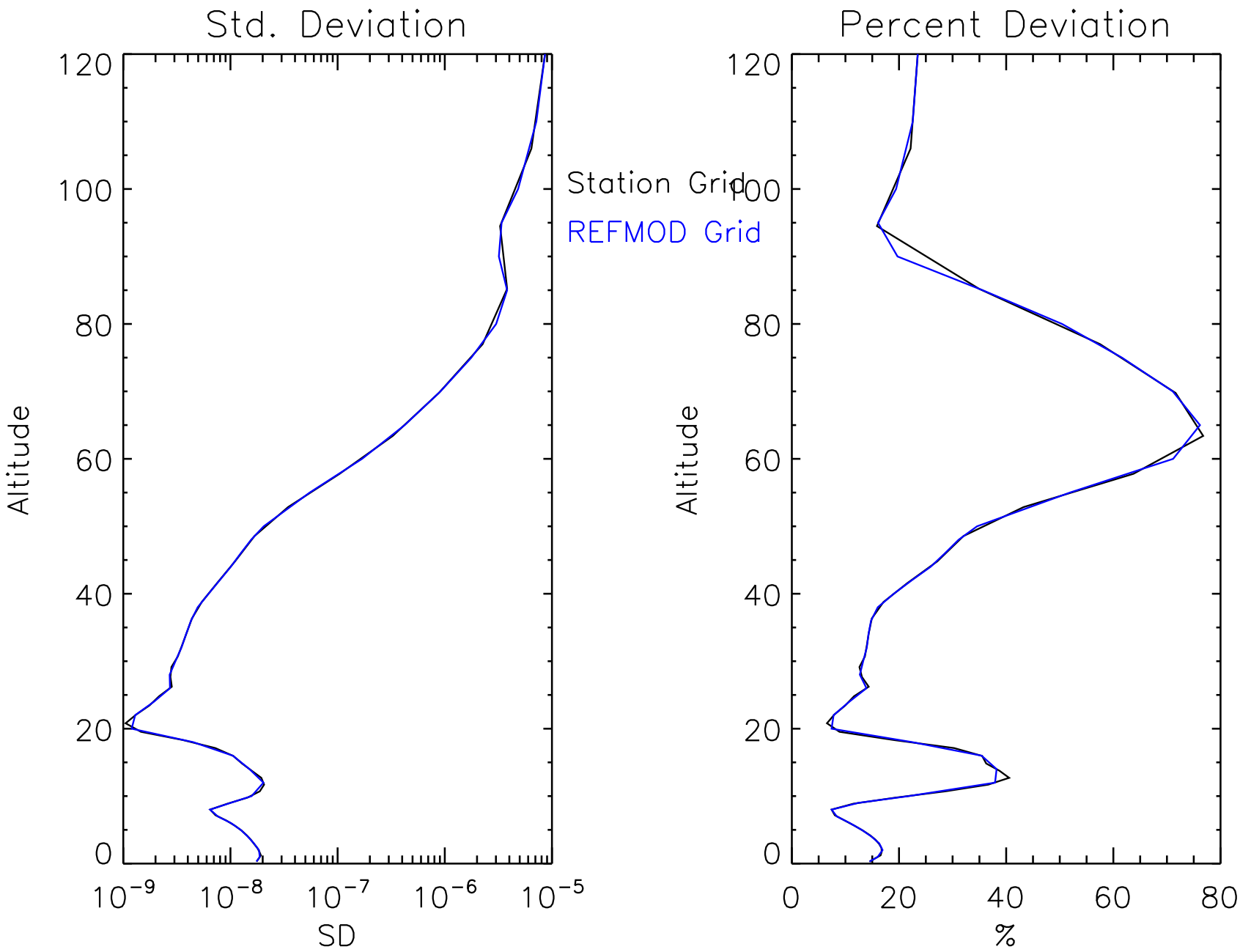

Initial & Interpolated profiles by month for : 2017
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

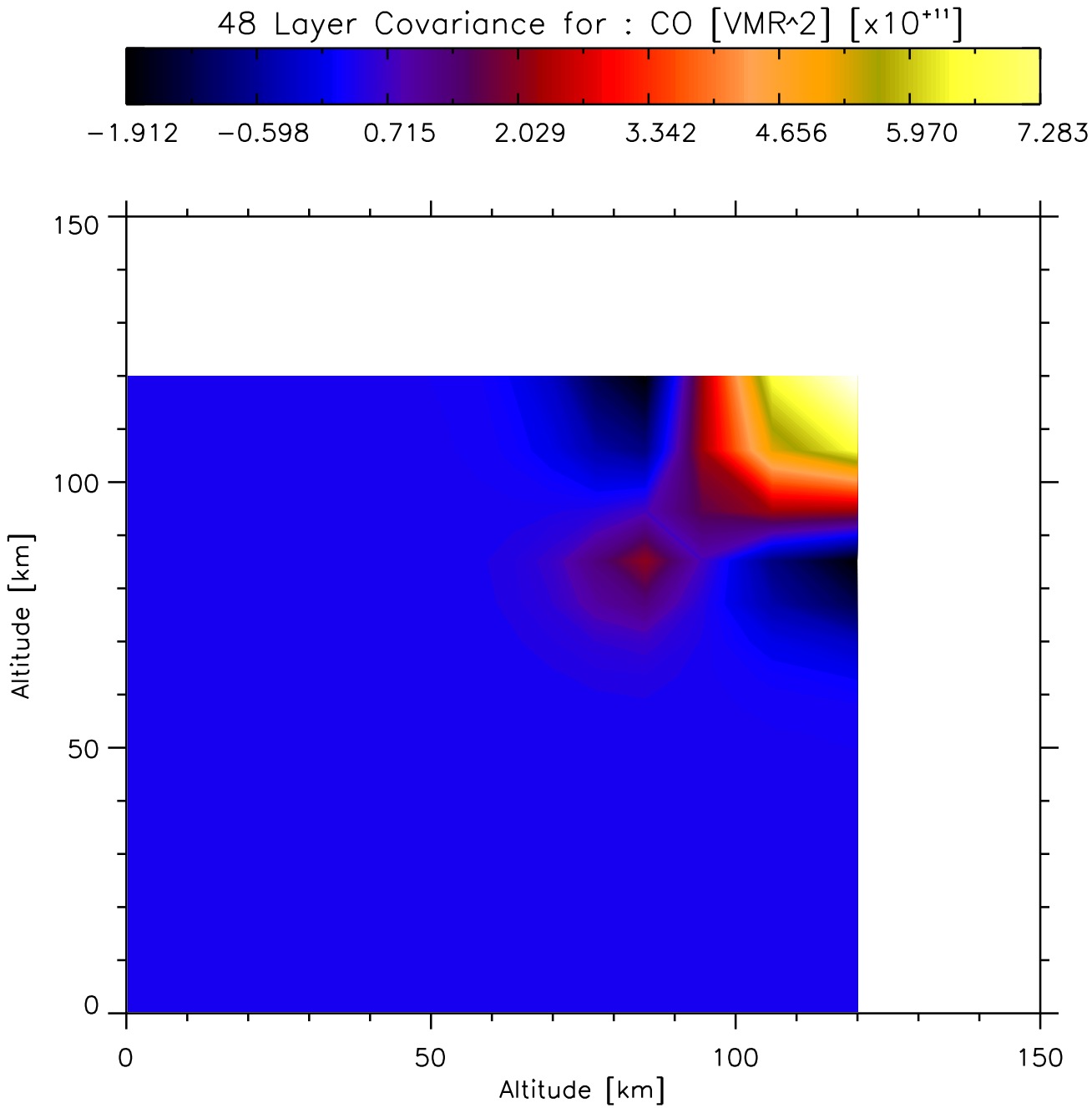

Initial & Interpolated profiles by month for : 2018
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

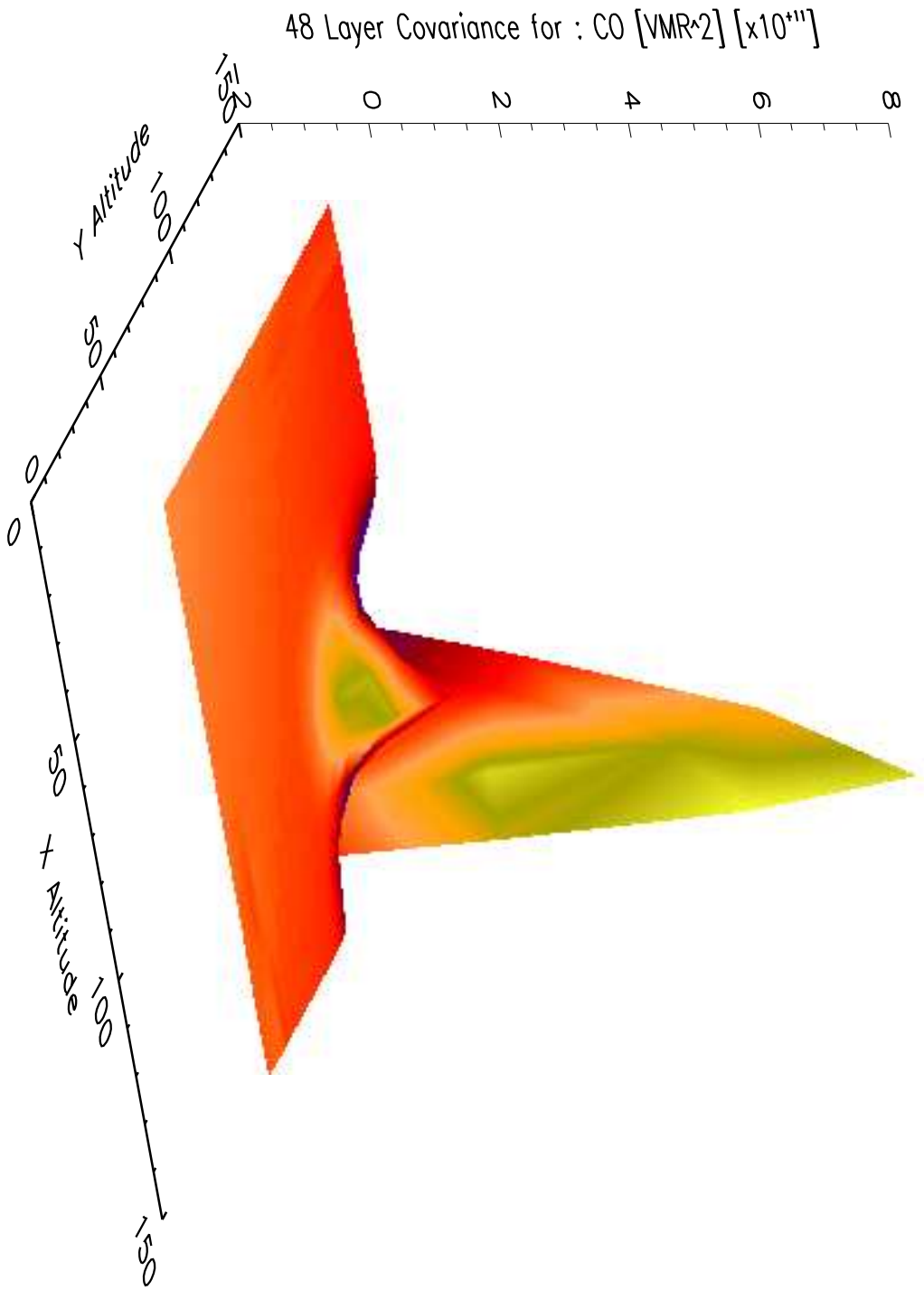

Initial & Interpolated profiles by month for : 2019
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

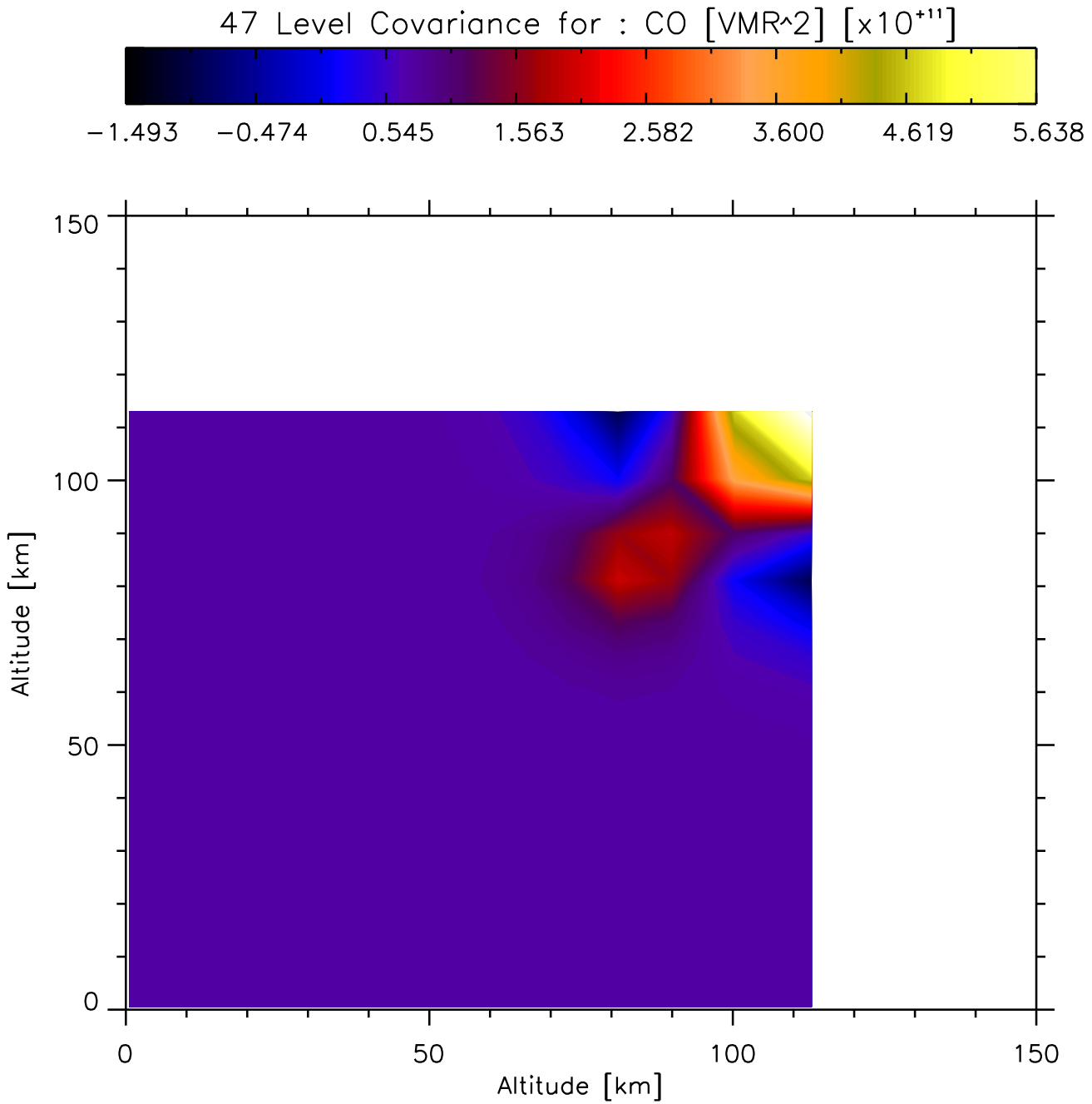

Initial & Interpolated profiles by month for : 2020
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
SD
0
20
40
60
80
%


48 Layer Covariance for : CO [VMR^2] [x10^+11]
−1.912
−0.598
0.715
2.029
3.342
4.656
5.970
7.283
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : CO [VMR^2] [x10^+11]
-150
0
2
4
6
8
Y Altitude
100
50
0
0
50
X Altitude
100
150


47 Level Covariance for : CO [VMR^2] [x10^+11]
−1.493
−0.474
0.545
1.563
2.582
3.600
4.619
5.638
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Level Covariance for : CO [VMR^2] [x10^11]
Y Altitude
X Altitude
0
50
100
150
0
2
4
6
8
10
12