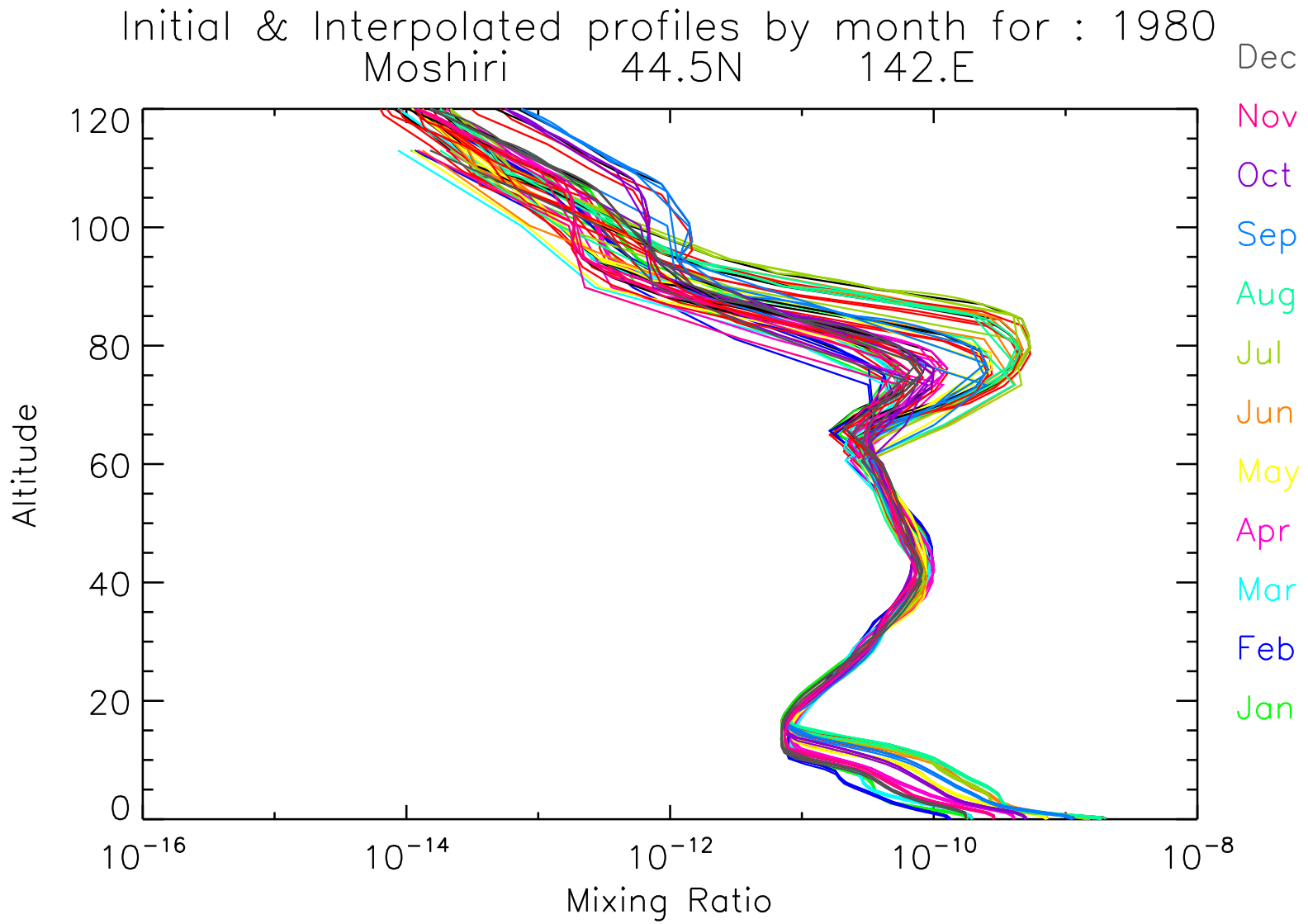
Initial & Interpolated profiles by month for : 1980
Moshiri 44.5N 142.E
Altitude
120
100
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Mixing Ratio
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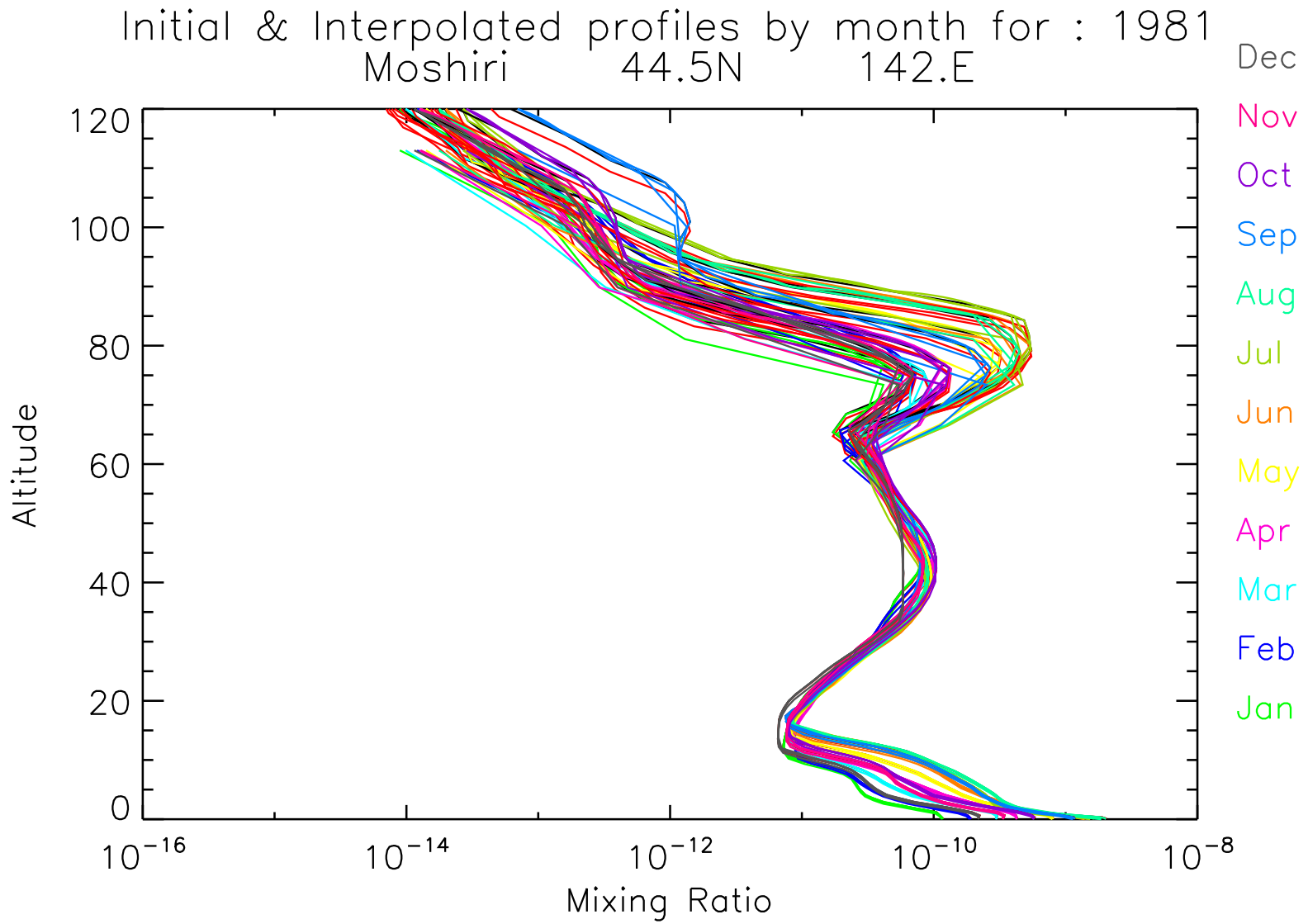
Initial & Interpolated profiles by month for : 1981
Moshiri 44.5N 142.E
Altitude
120
100
80
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Mixing Ratio
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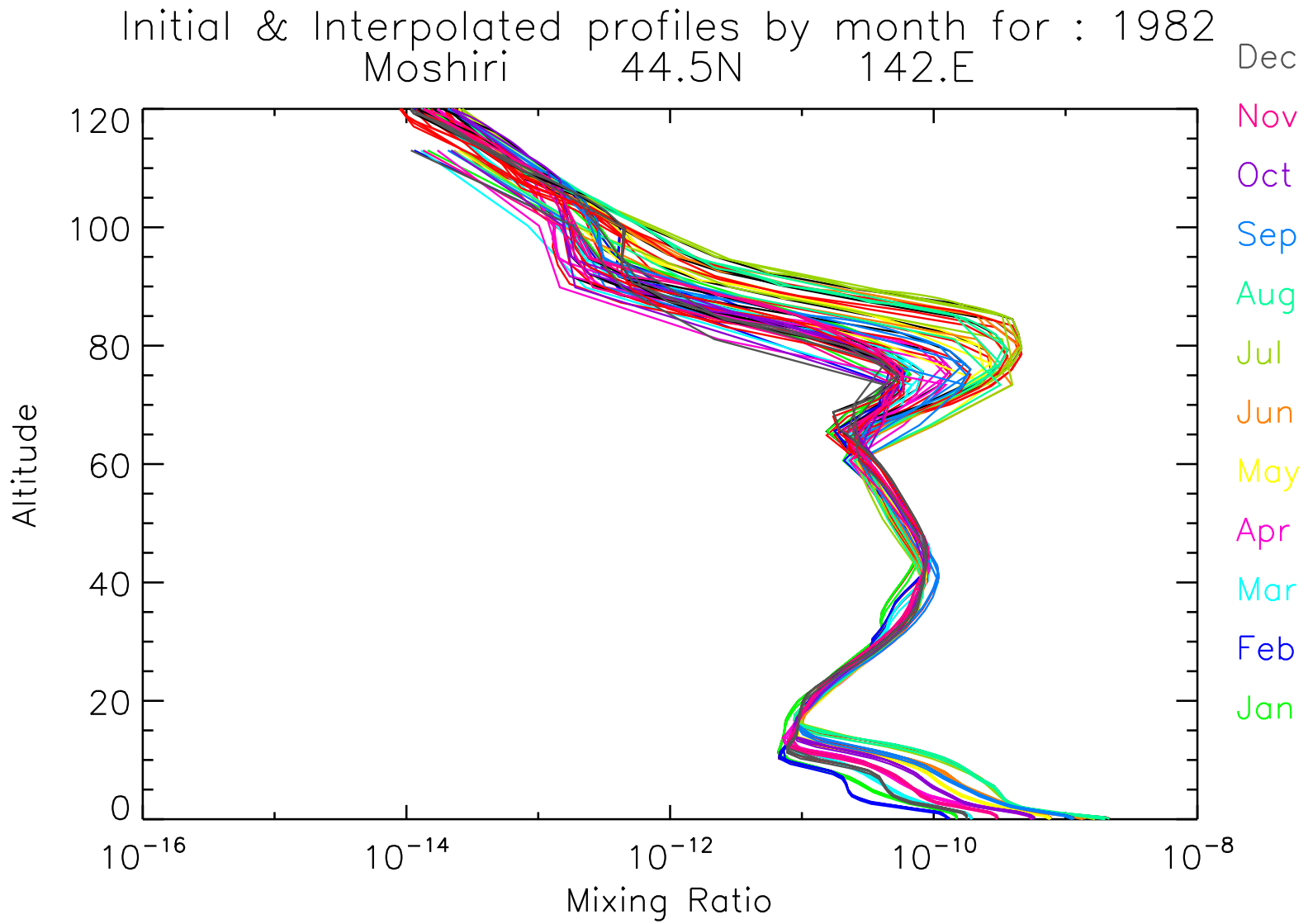
Initial & Interpolated profiles by month for : 1982
Moshiri 44.5N 142.E
Altitude
120
100
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60
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10^{-16}
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Mixing Ratio
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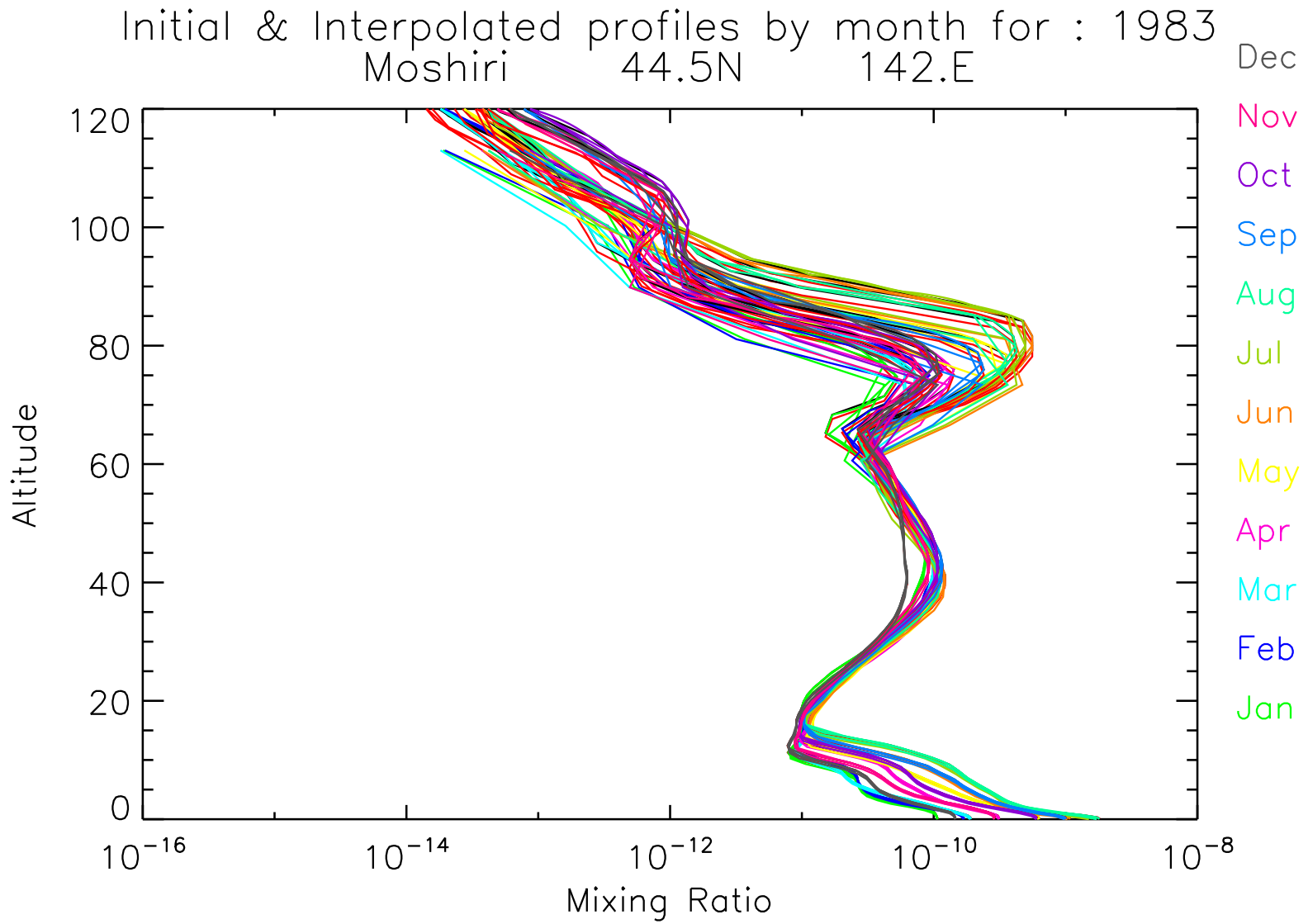
Initial & Interpolated profiles by month for : 1983
Moshiri 44.5N 142.E
Altitude
120
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0
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Mixing Ratio
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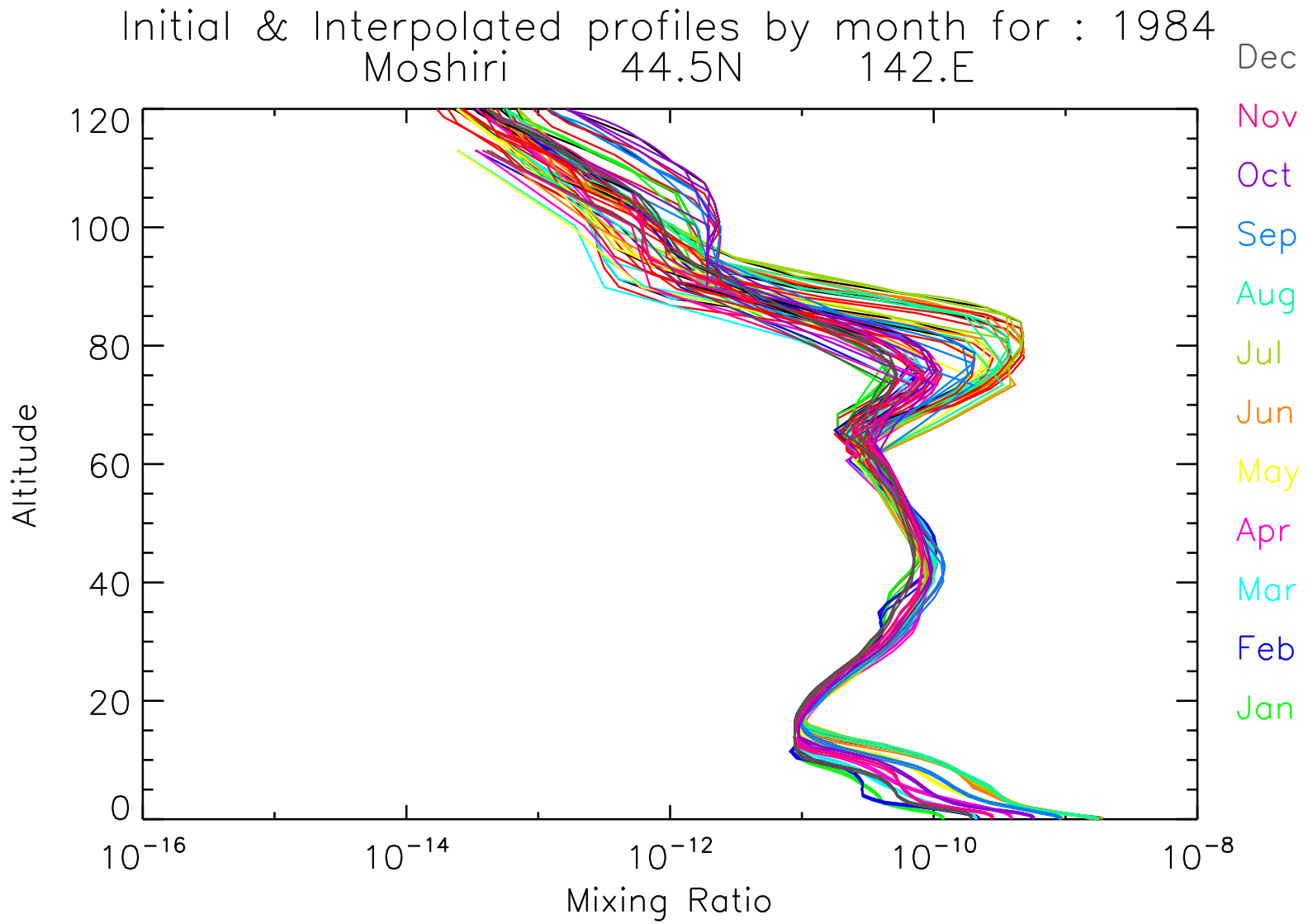
Initial & Interpolated profiles by month for : 1984
Moshiri 44.5N 142.E
Altitude
120
100
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60
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10^{-14}
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Mixing Ratio
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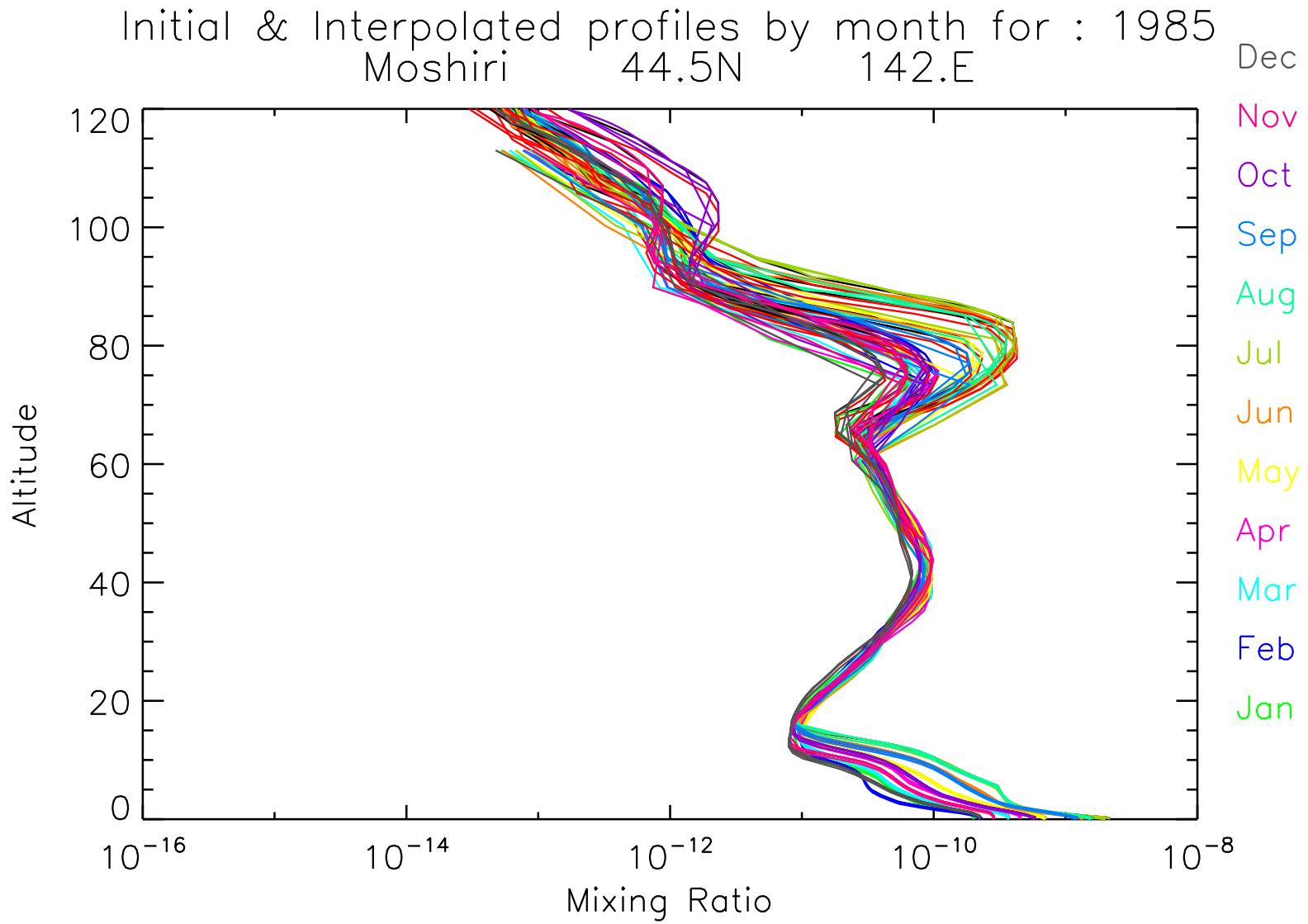
Initial & Interpolated profiles by month for : 1985
Moshiri 44.5N 142.E
Altitude
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100
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10^{-14}
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10^{-8}
Mixing Ratio
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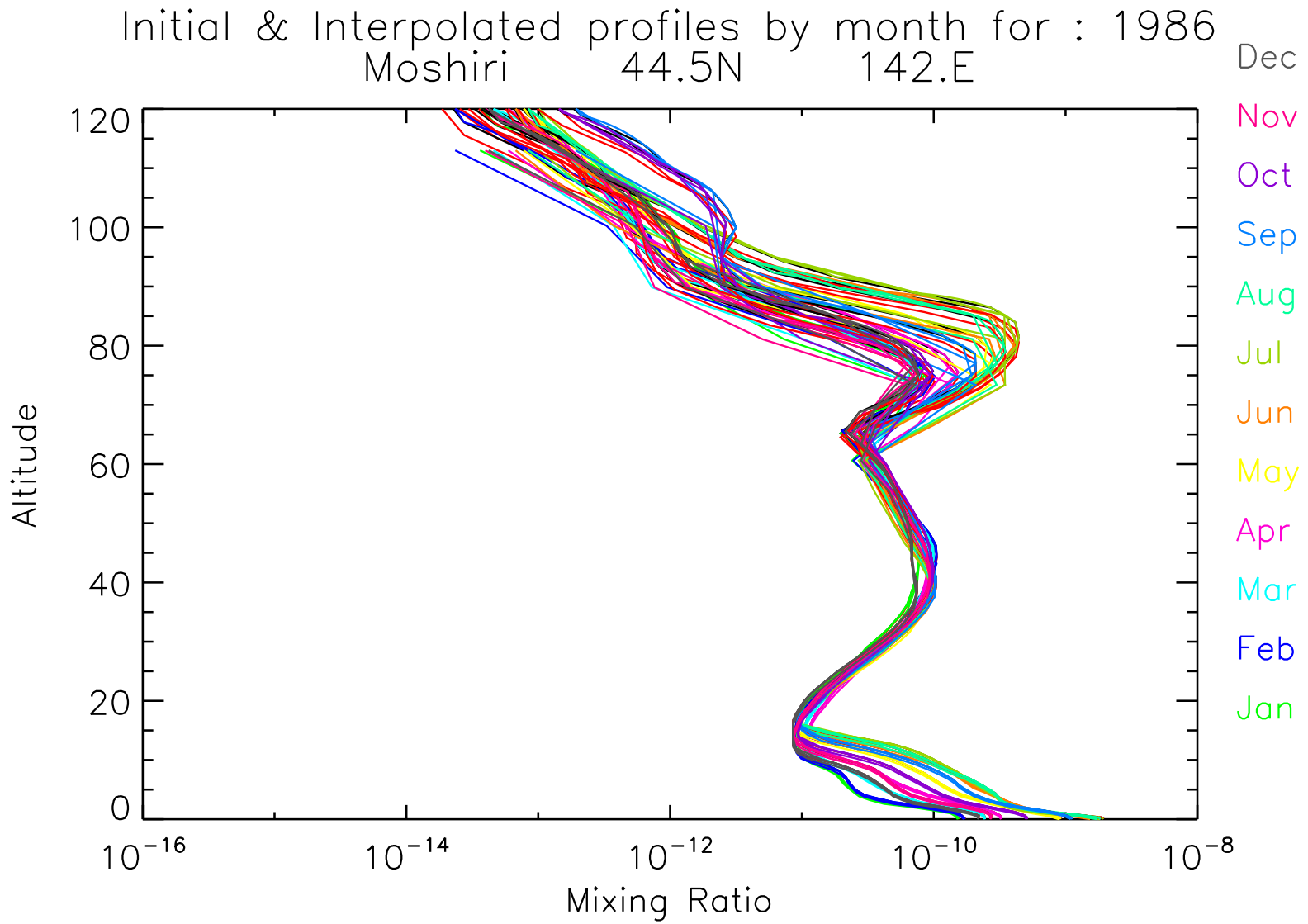
Initial & Interpolated profiles by month for : 1986
Moshiri 44.5N 142.E
Altitude
120
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10^{-16}
10^{-14}
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Mixing Ratio
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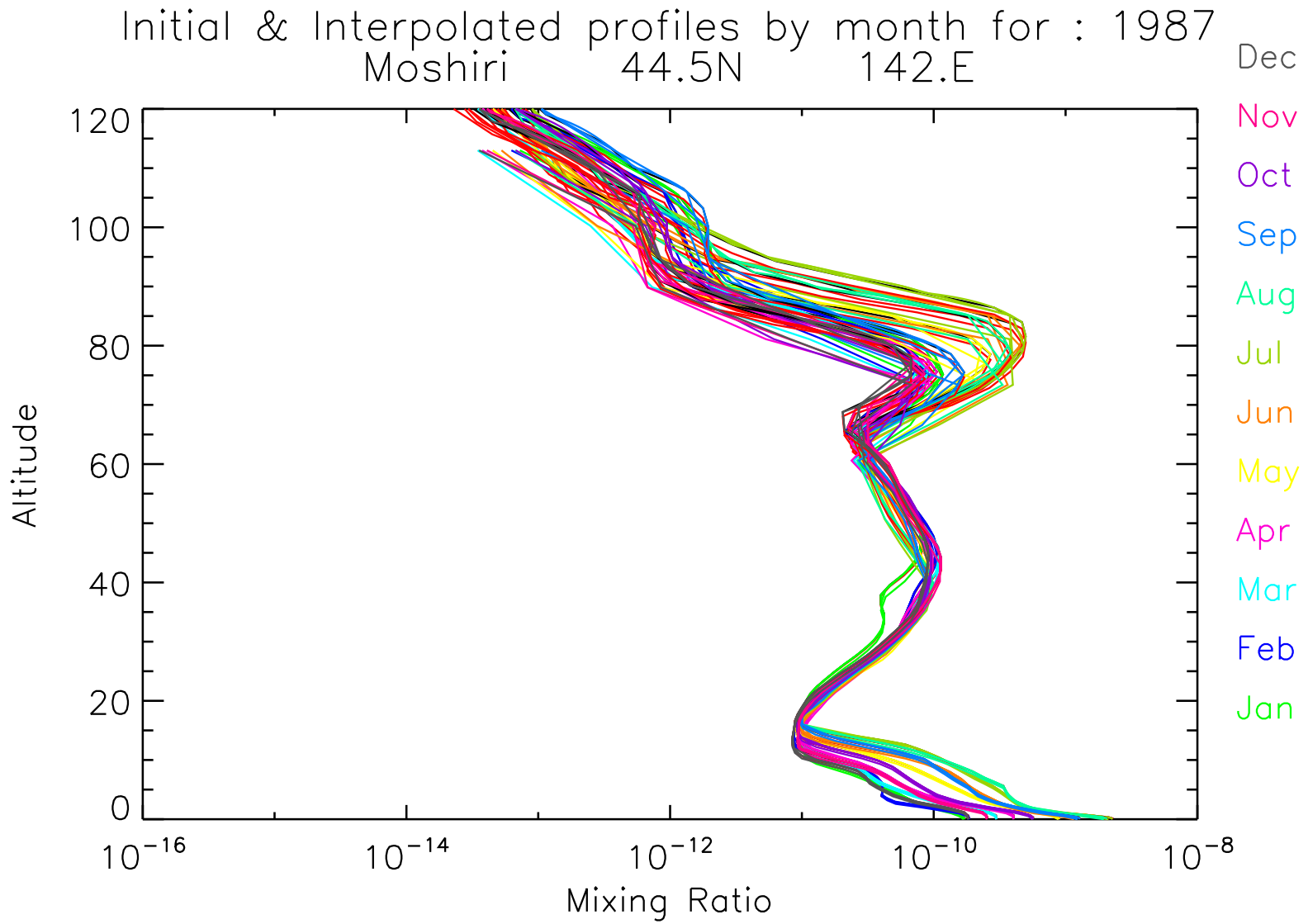
Initial & Interpolated profiles by month for : 1987
Moshiri 44.5N 142.E
Altitude
120
100
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10^{-16}
10^{-14}
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10^{-8}
Mixing Ratio
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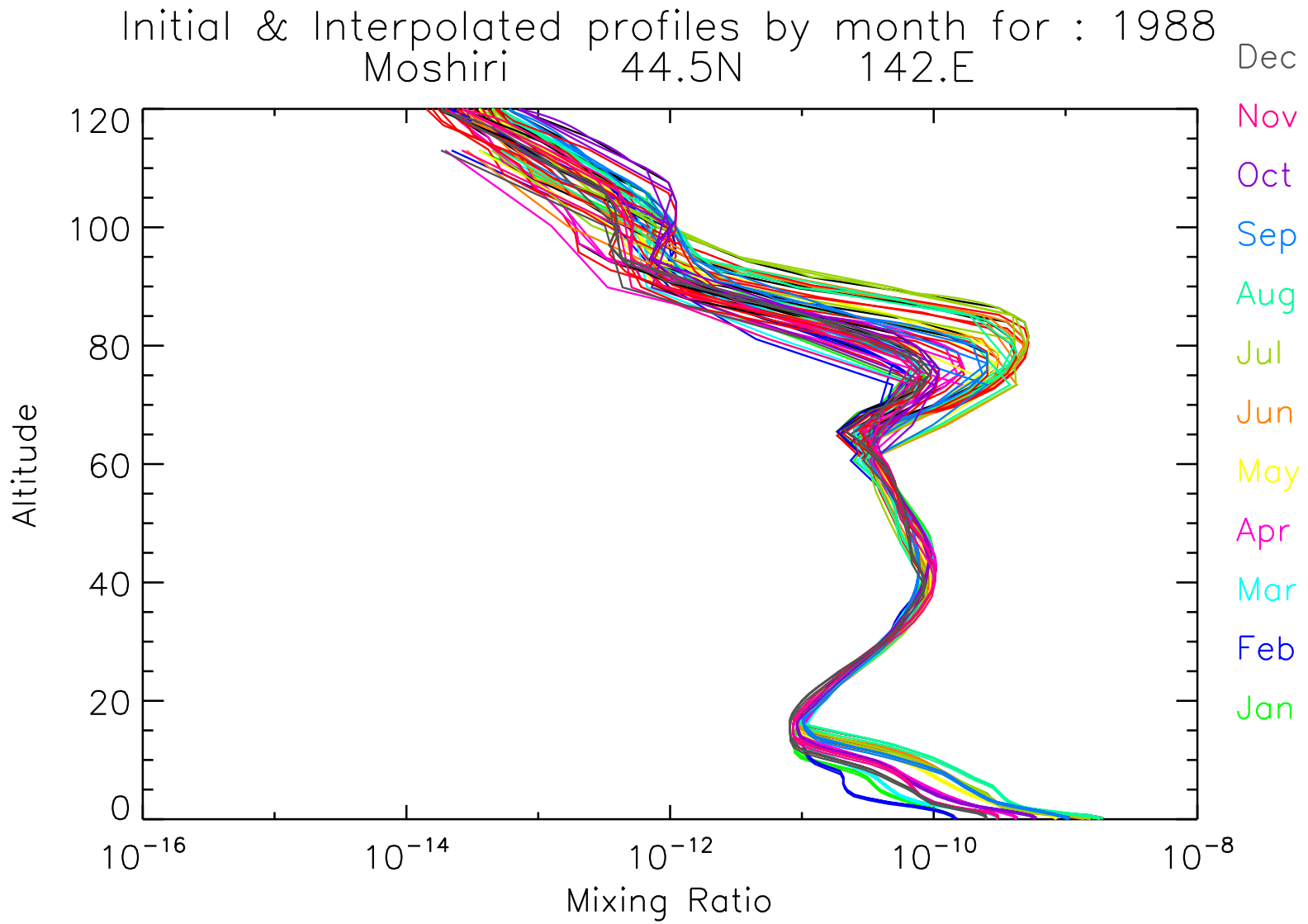
Initial & Interpolated profiles by month for : 1988
Moshiri 44.5N 142.E
Altitude
120
100
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0
10^{-16}
10^{-14}
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10^{-8}
Mixing Ratio
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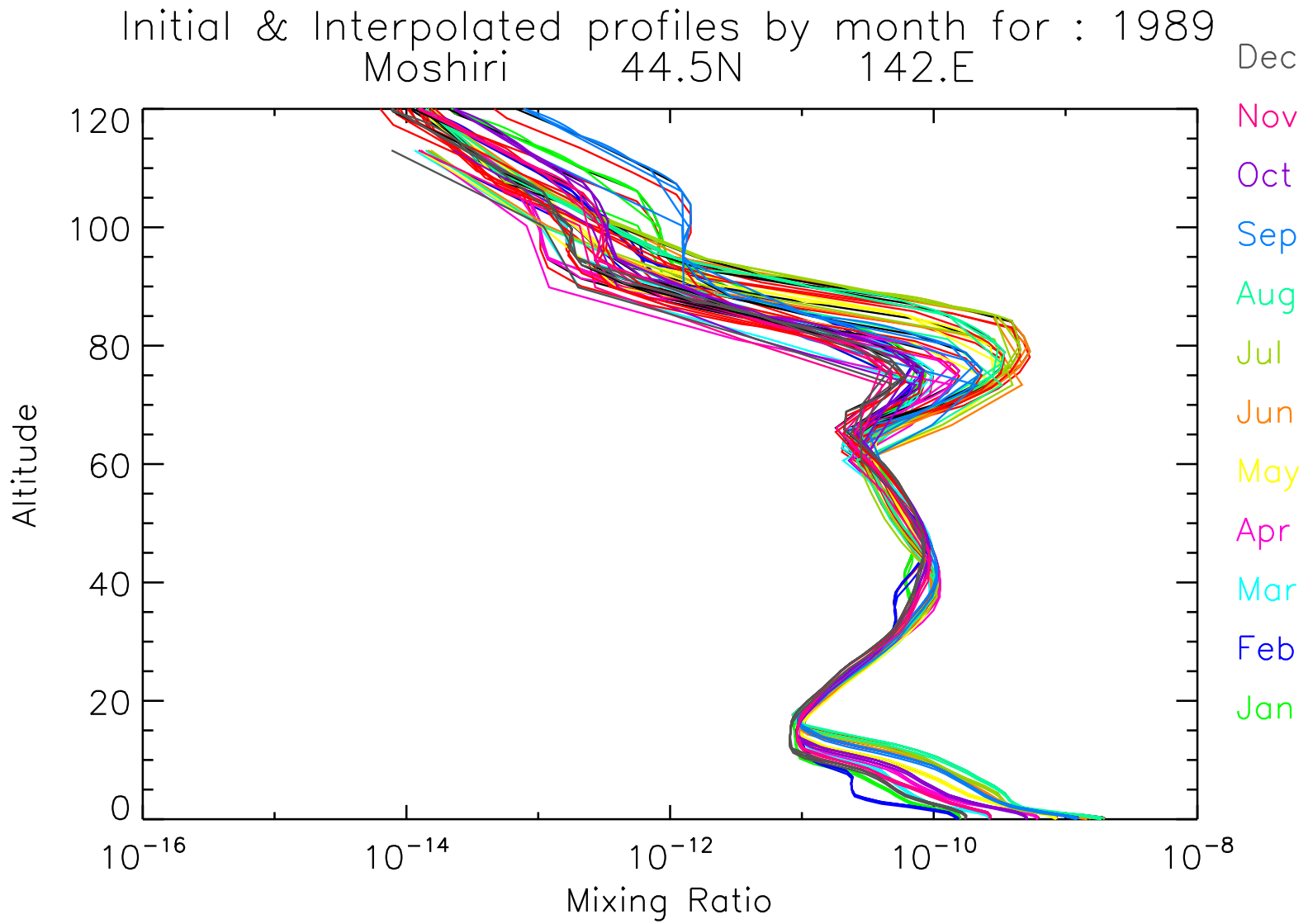
Initial & Interpolated profiles by month for : 1989
Moshiri 44.5N 142.E
Altitude
120
100
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Mixing Ratio
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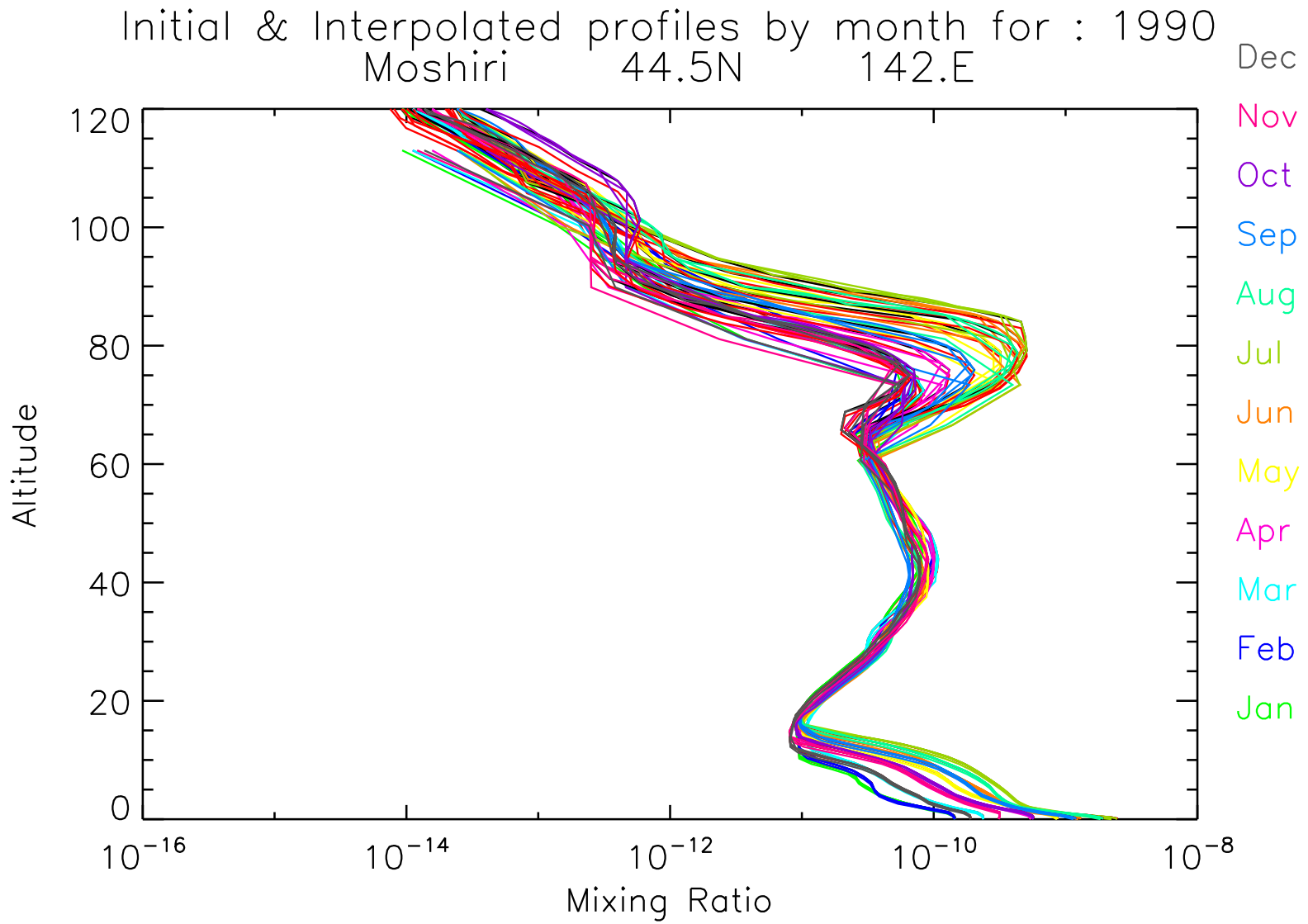
Initial & Interpolated profiles by month for : 1990
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
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Mixing Ratio
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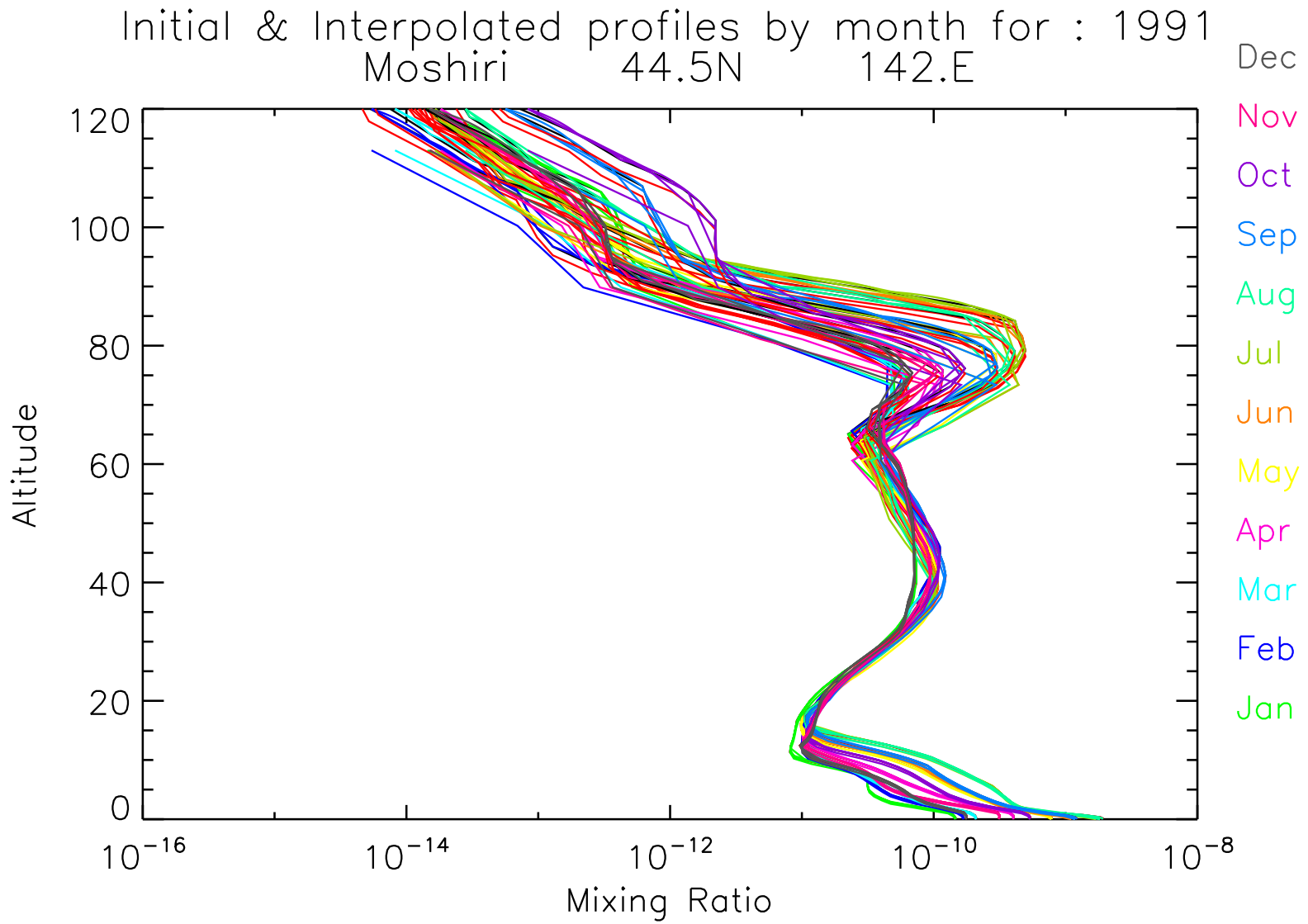
Initial & Interpolated profiles by month for : 1991
Moshiri 44.5N 142.E
Altitude
120
100
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60
40
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0
10^{-16}
10^{-14}
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10^{-8}
Mixing Ratio
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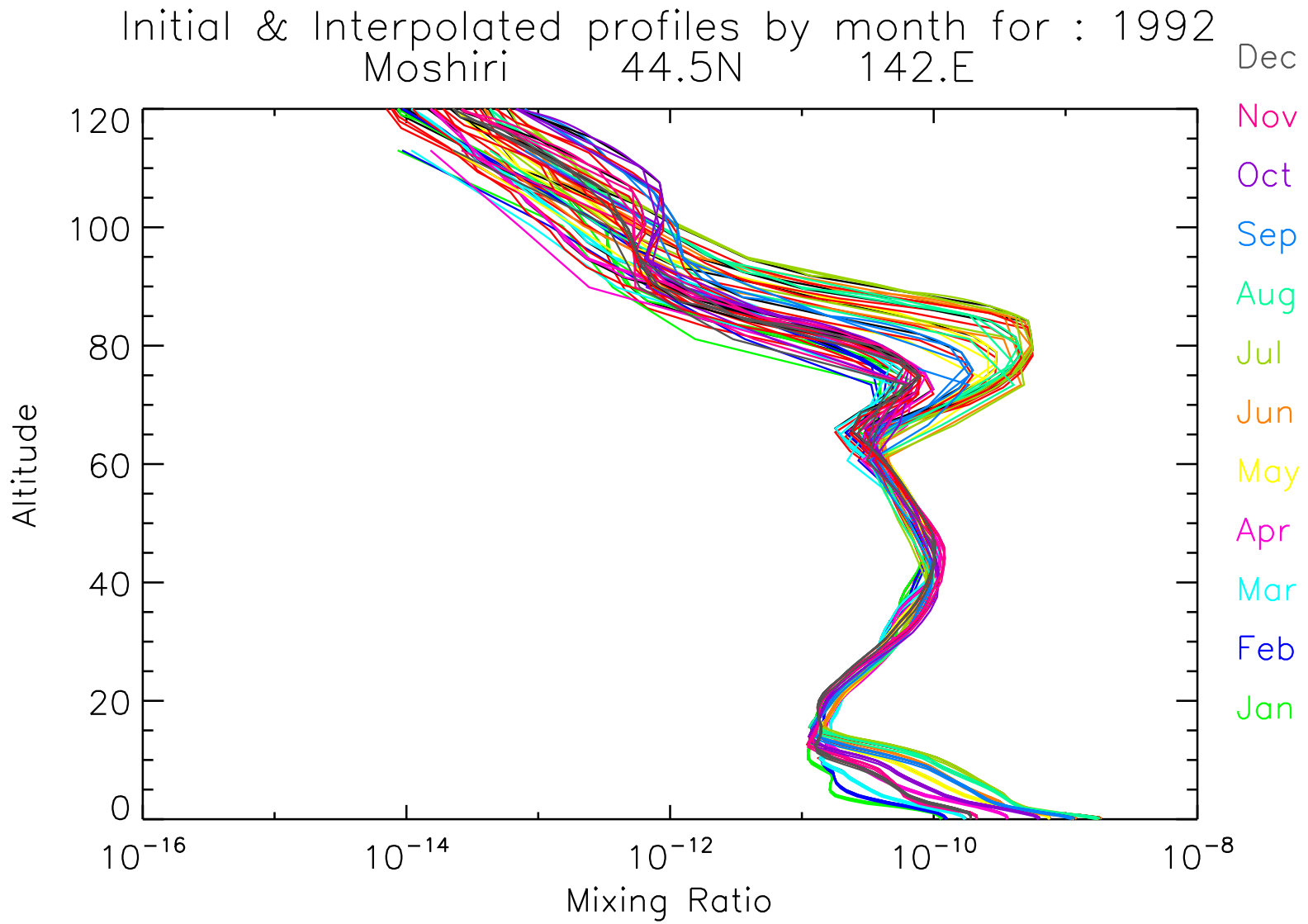
Initial & Interpolated profiles by month for : 1992
Moshiri 44.5N 142.E
Altitude
120
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10^{-16}
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Mixing Ratio
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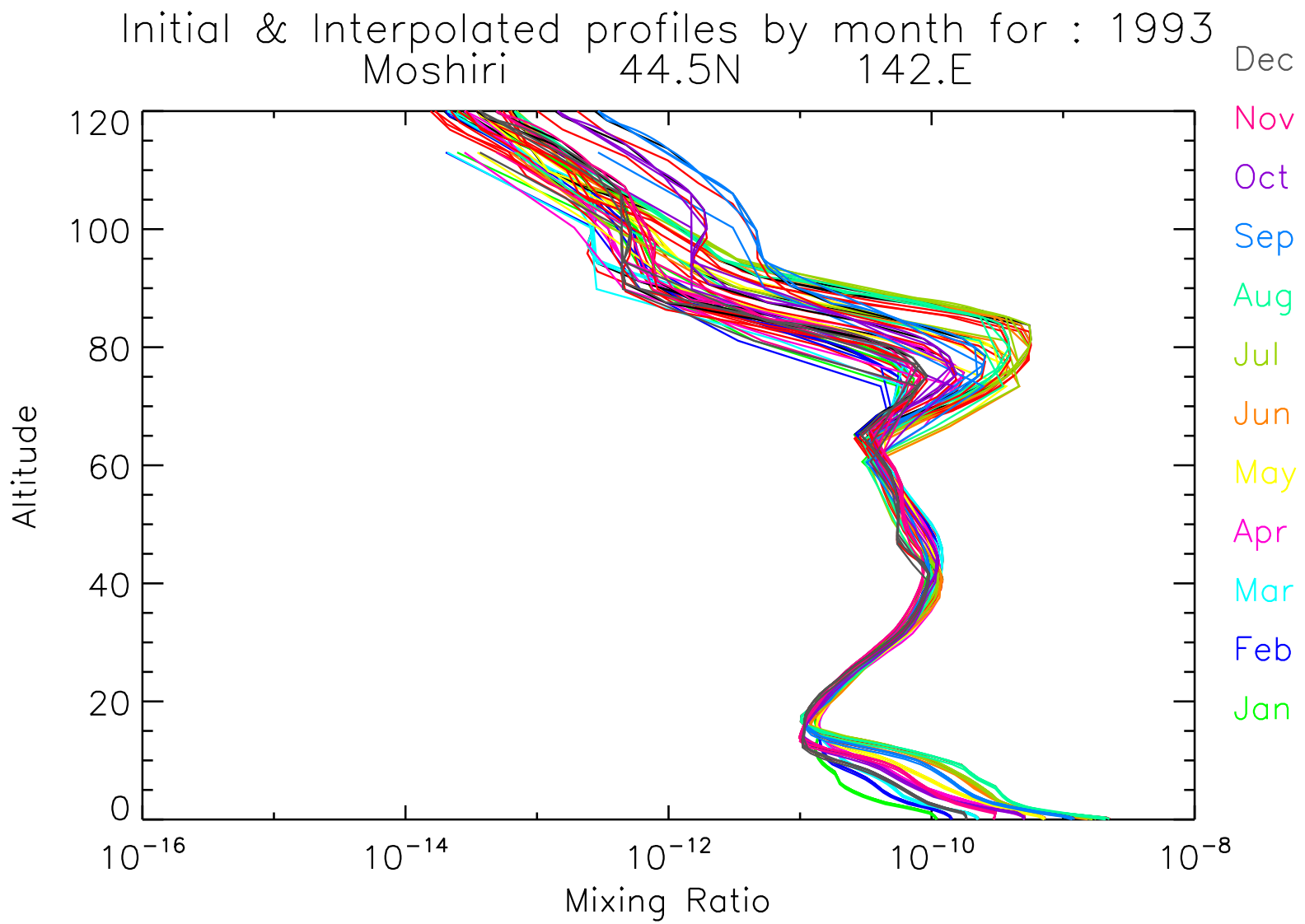
Initial & Interpolated profiles by month for : 1993
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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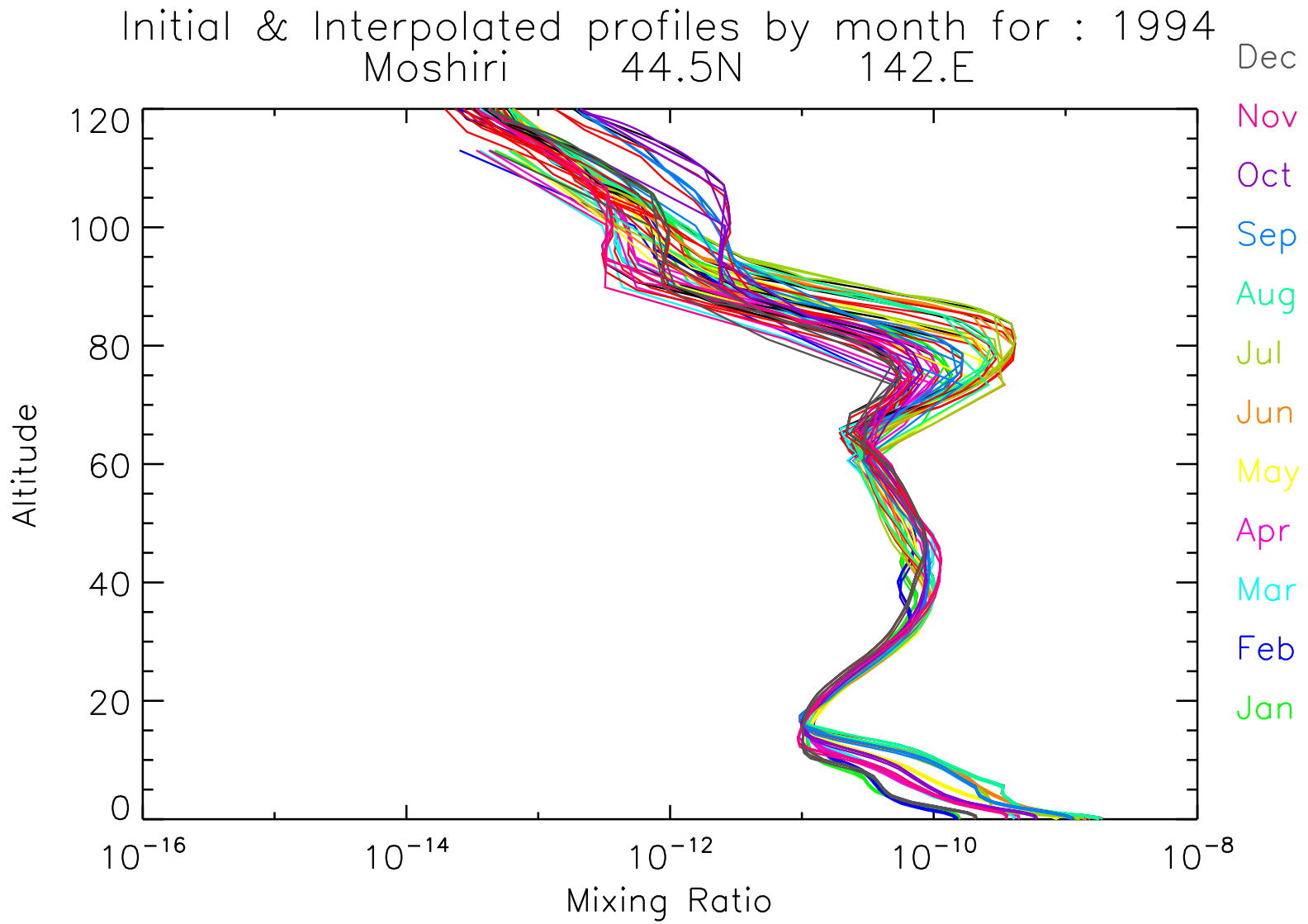
Initial & Interpolated profiles by month for : 1994
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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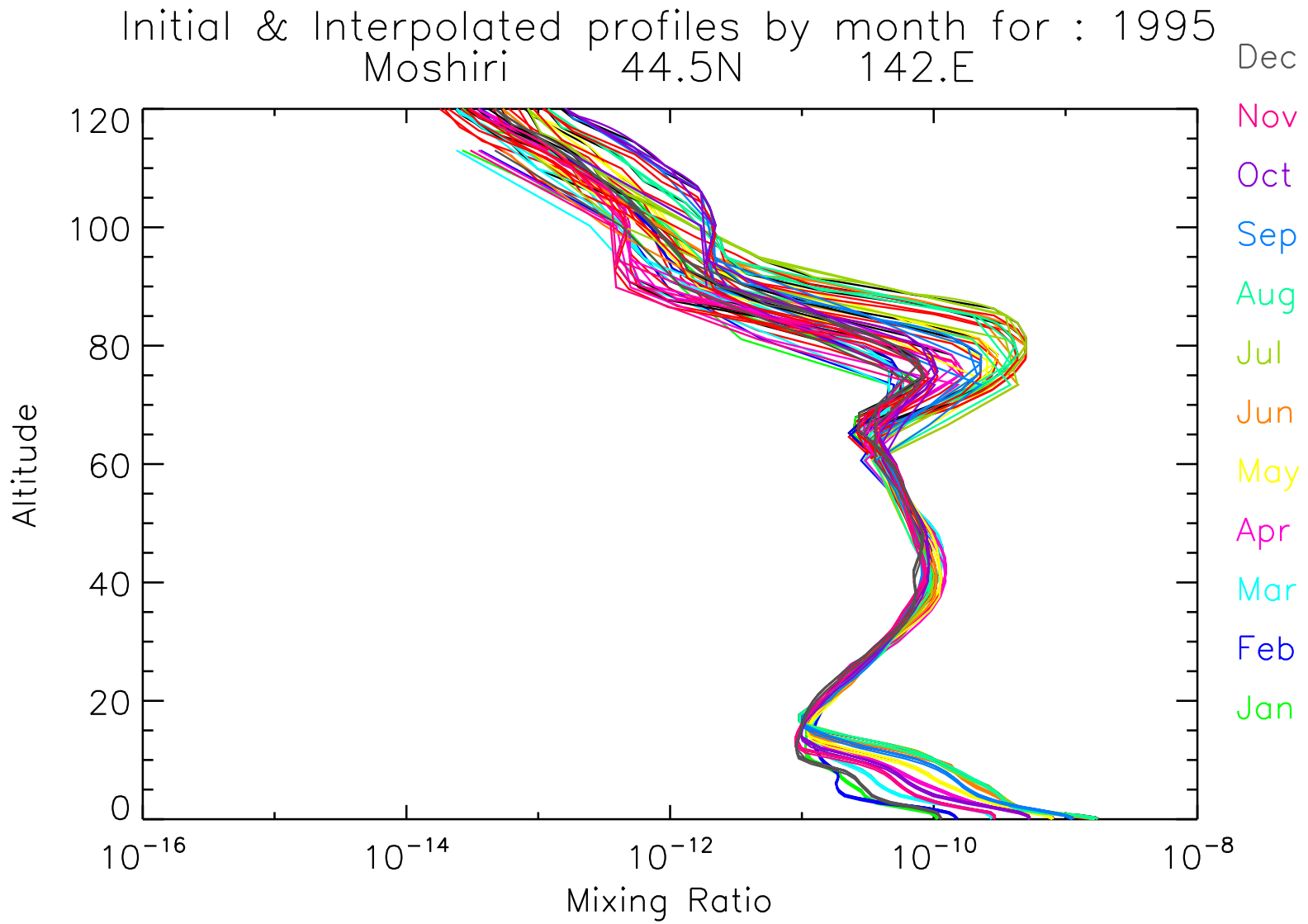
Initial & Interpolated profiles by month for : 1995
Moshiri 44.5N 142.E
Altitude
120
100
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10^{-16}
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10^{-8}
Mixing Ratio
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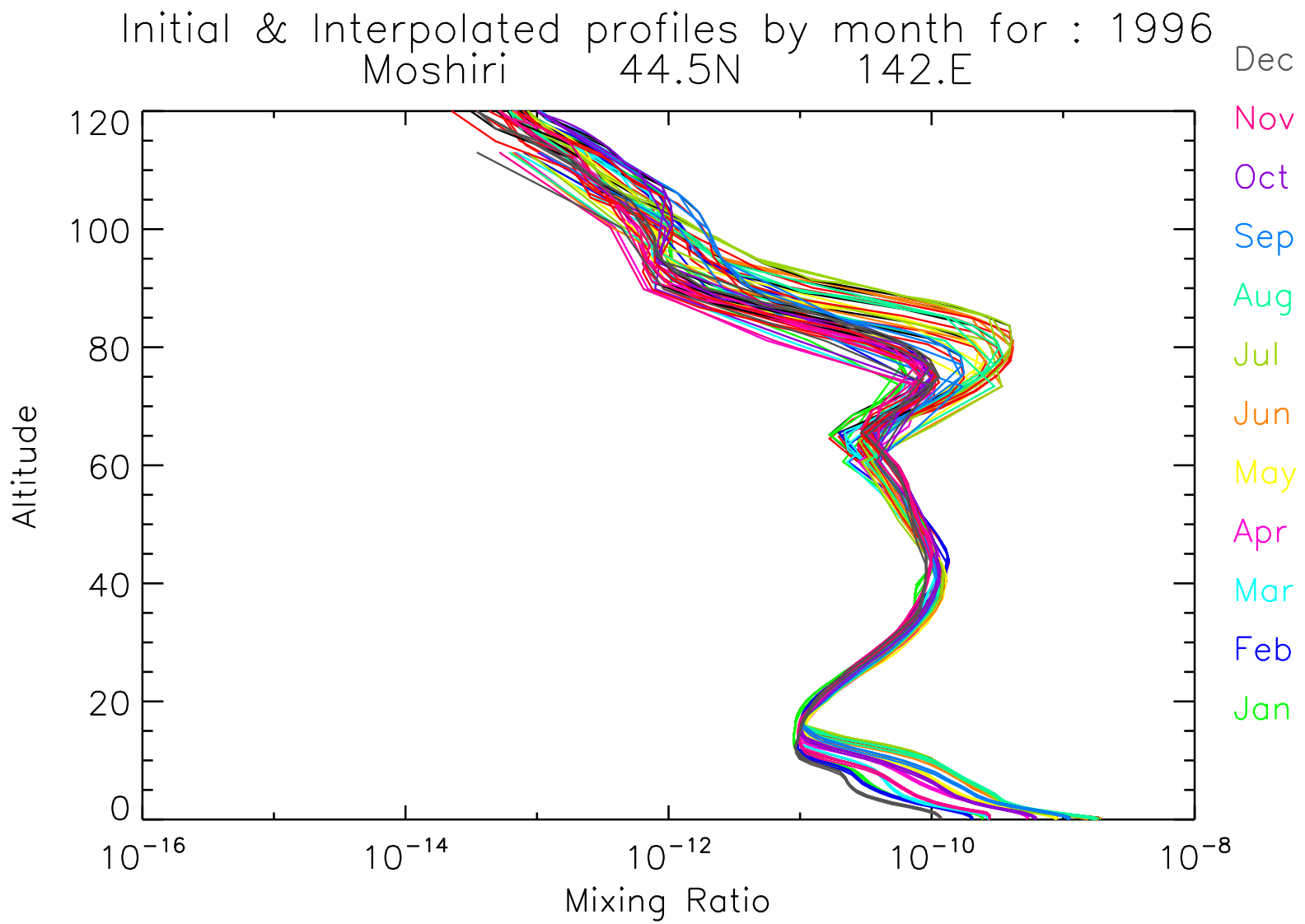
Initial & Interpolated profiles by month for : 1996
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
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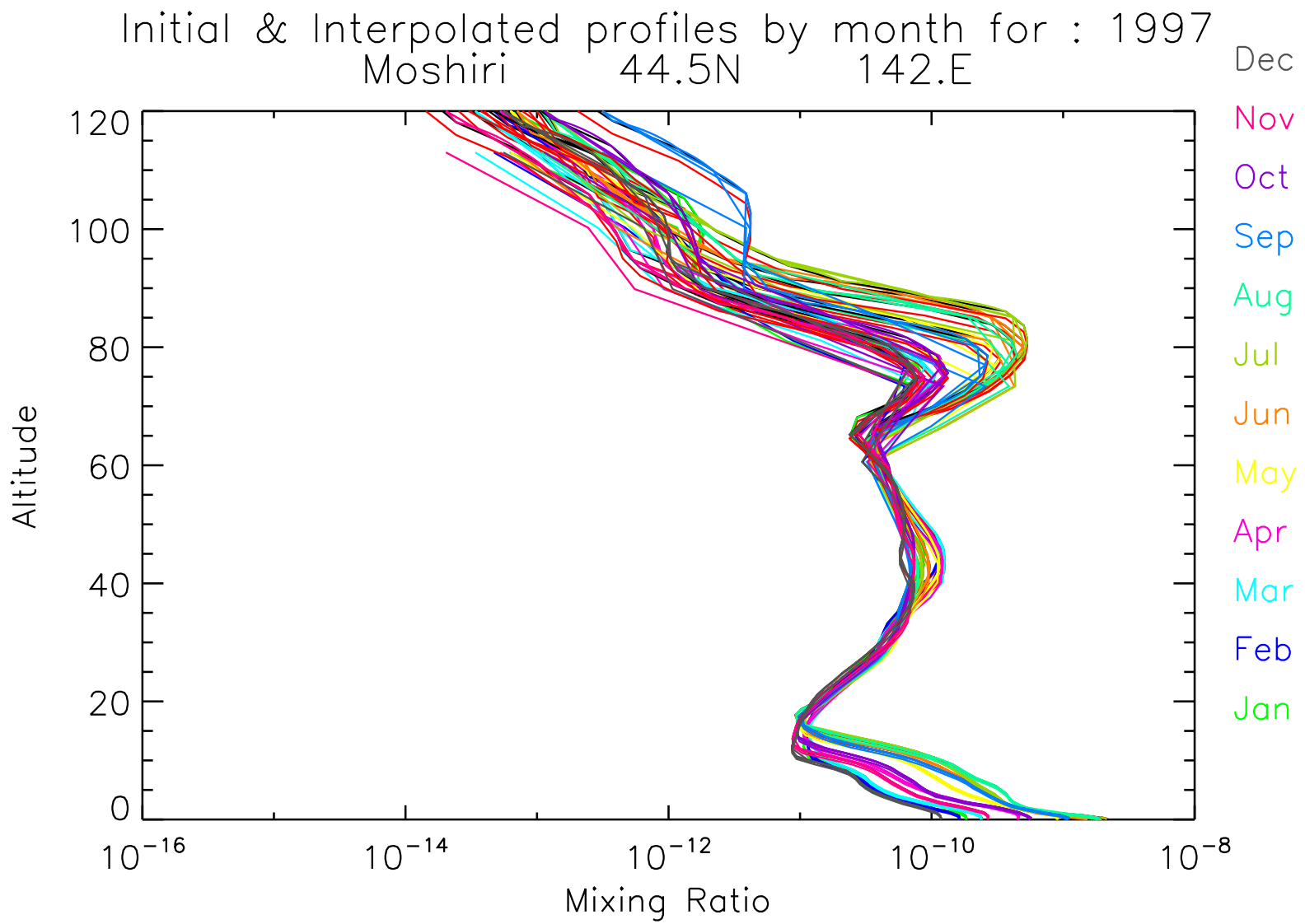
Initial & Interpolated profiles by month for : 1997
Moshiri 44.5N 142.E
Altitude
120
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10^{-16}
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Mixing Ratio
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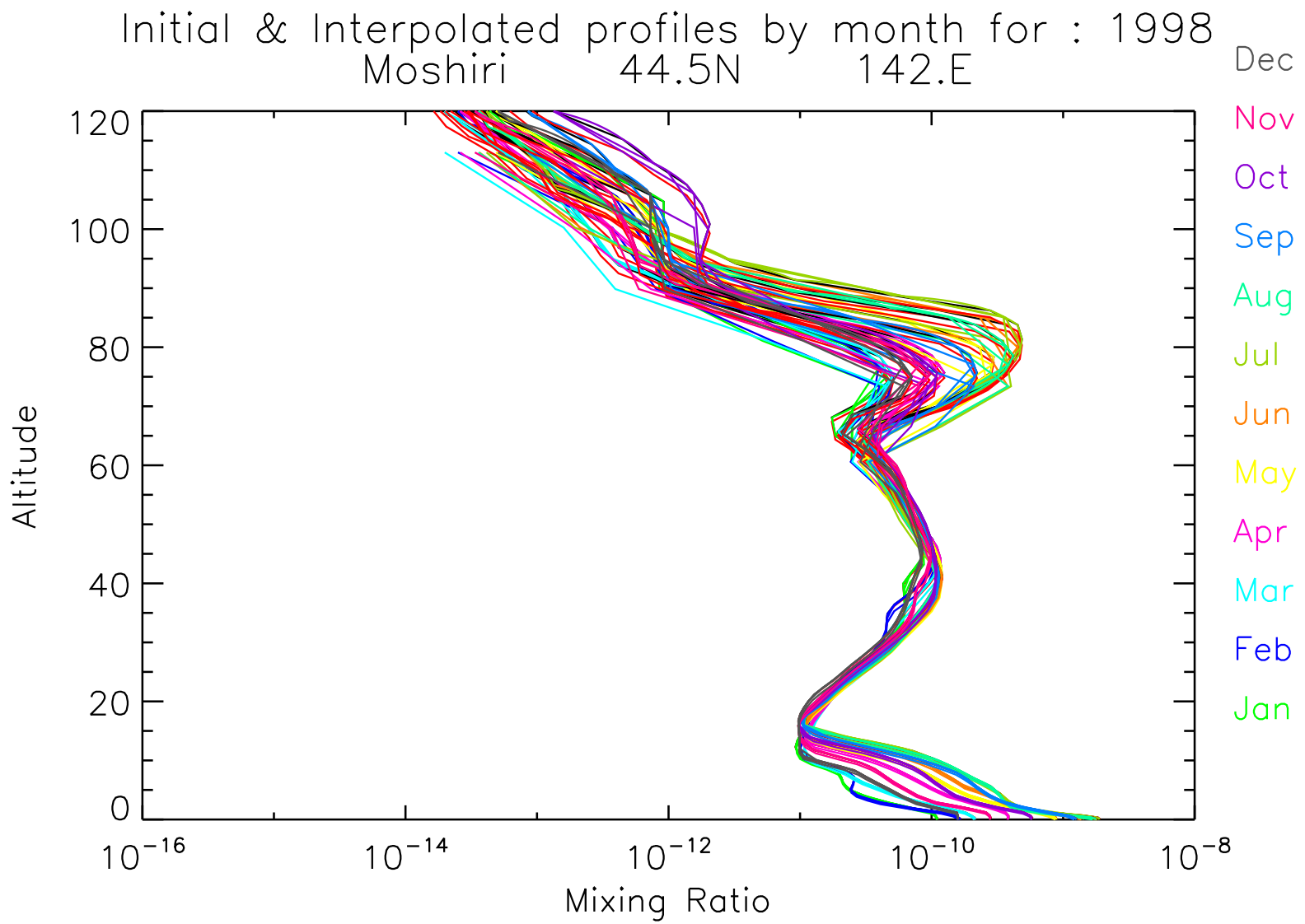
Initial & Interpolated profiles by month for : 1998
Moshiri 44.5N 142.E
Altitude
120
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10^{-16}
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Mixing Ratio
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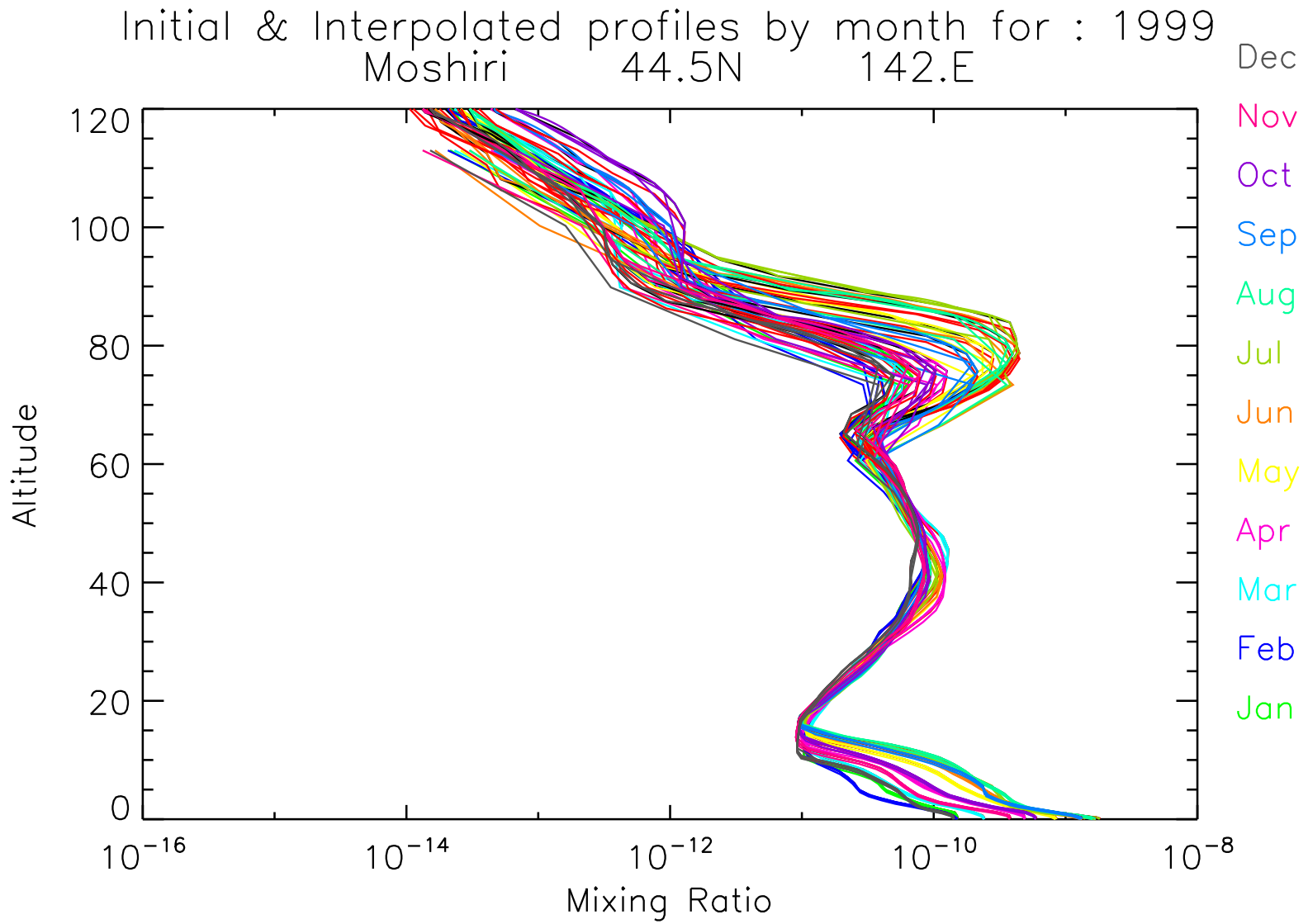
Initial & Interpolated profiles by month for : 1999
Moshiri 44.5N 142.E
Altitude
120
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10^{-16}
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Mixing Ratio
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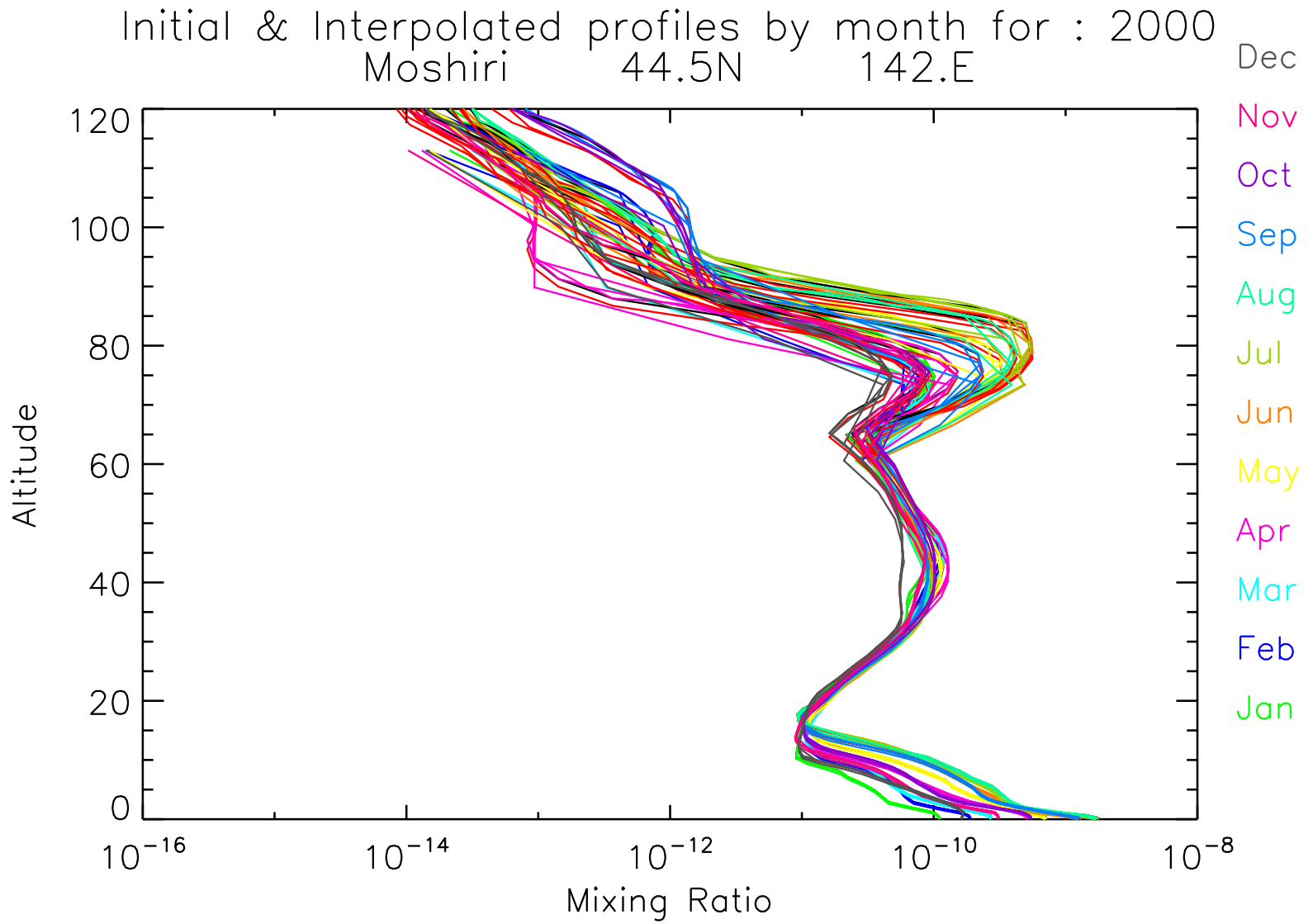
Initial & Interpolated profiles by month for : 2000
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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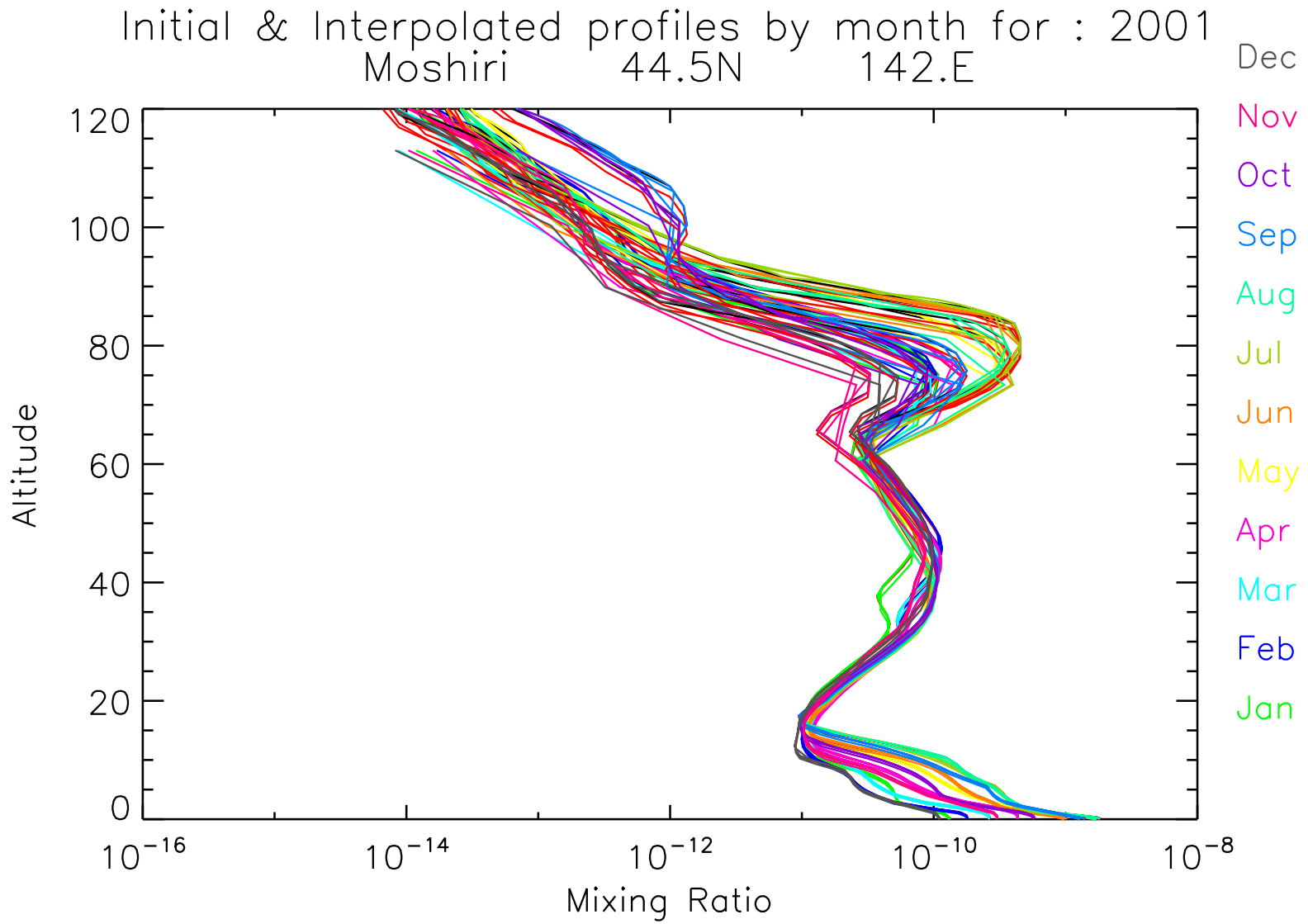
Initial & Interpolated profiles by month for : 2001
Moshiri 44.5N 142.E
Altitude
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10^{-8}
Mixing Ratio
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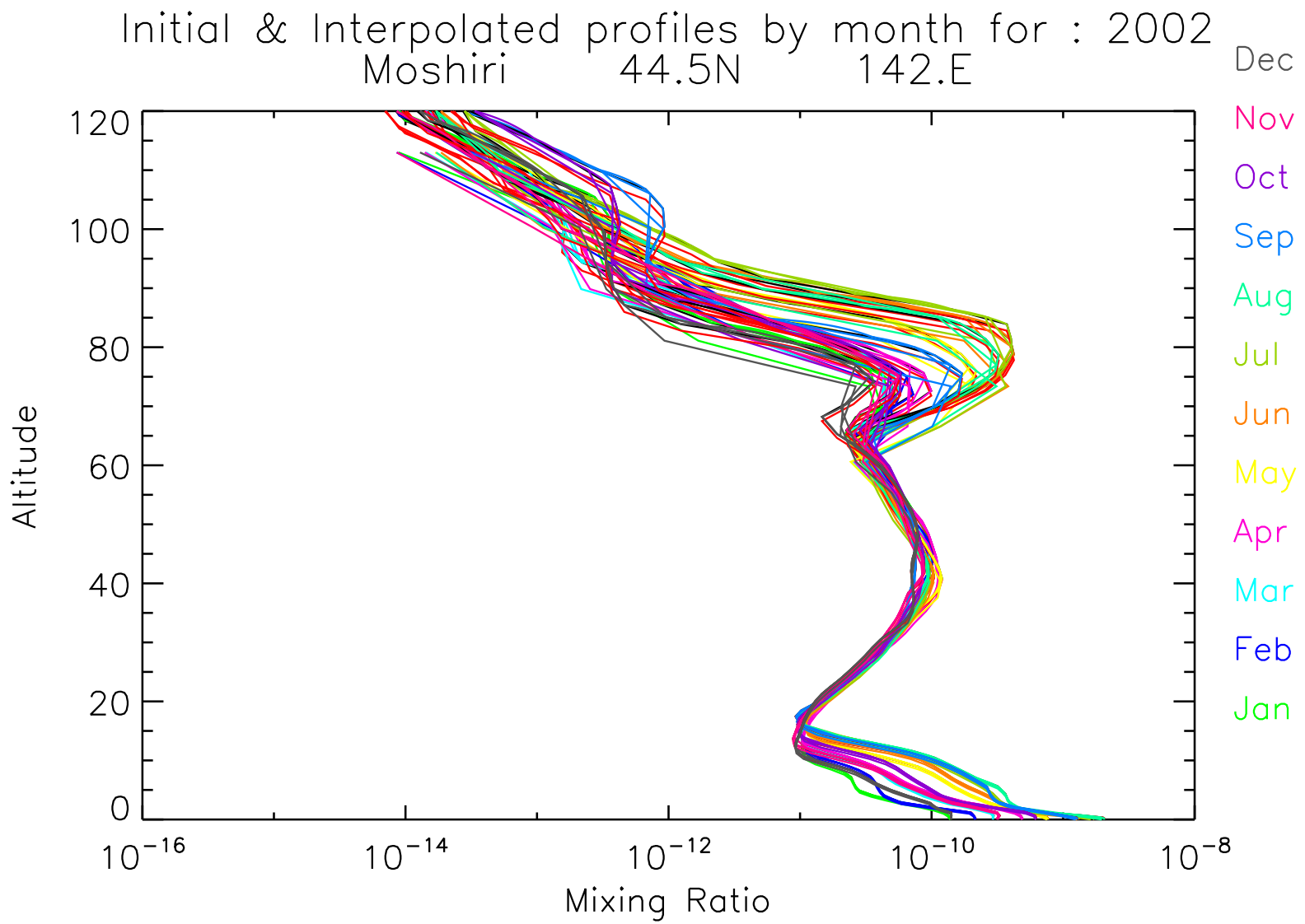
Initial & Interpolated profiles by month for : 2002
Moshiri 44.5N 142.E
Altitude
120
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20
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10^{-16}
10^{-14}
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10^{-8}
Mixing Ratio
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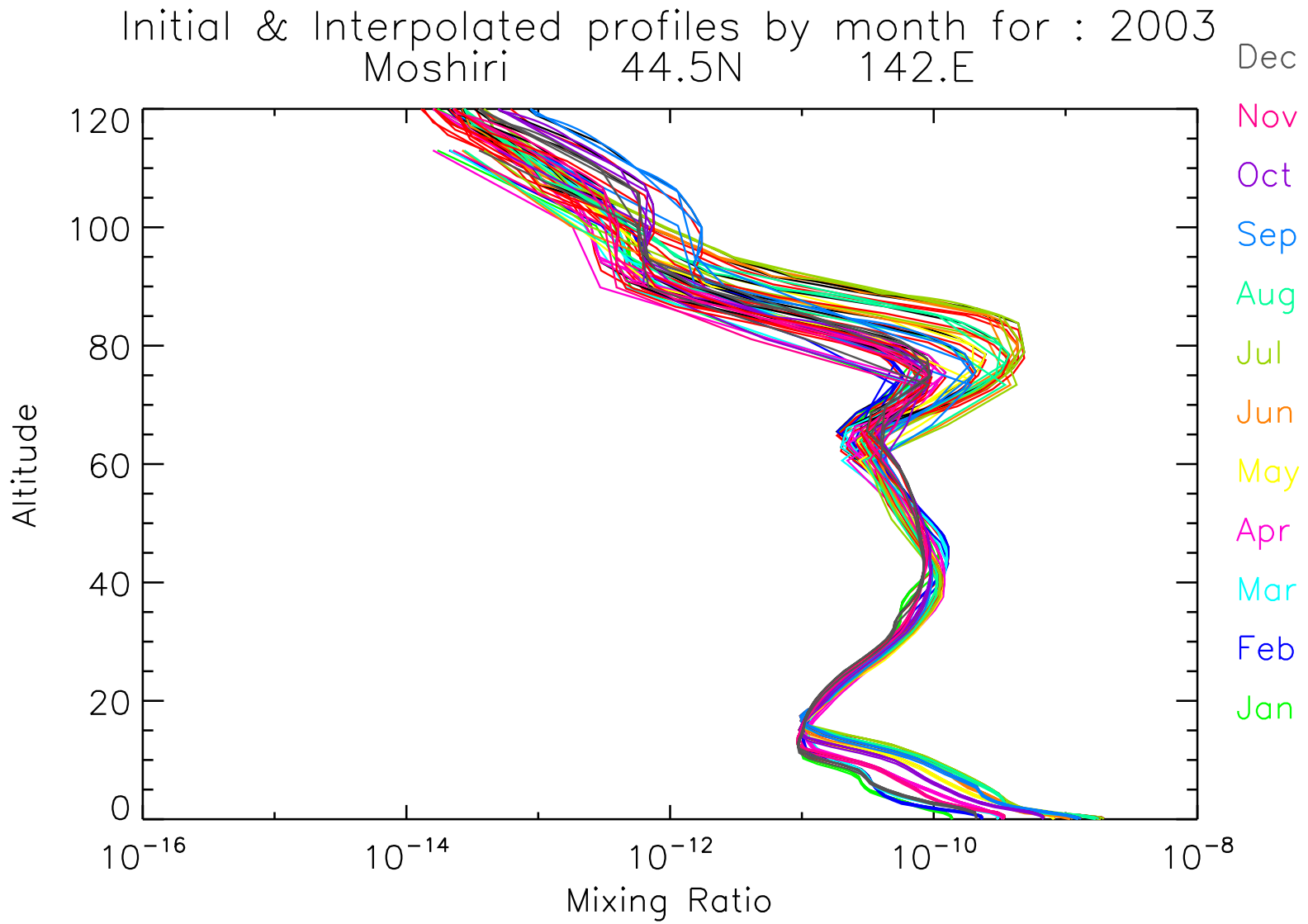
Initial & Interpolated profiles by month for : 2003
Moshiri 44.5N 142.E
Altitude
120
100
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60
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20
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10^{-16}
10^{-14}
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10^{-8}
Mixing Ratio
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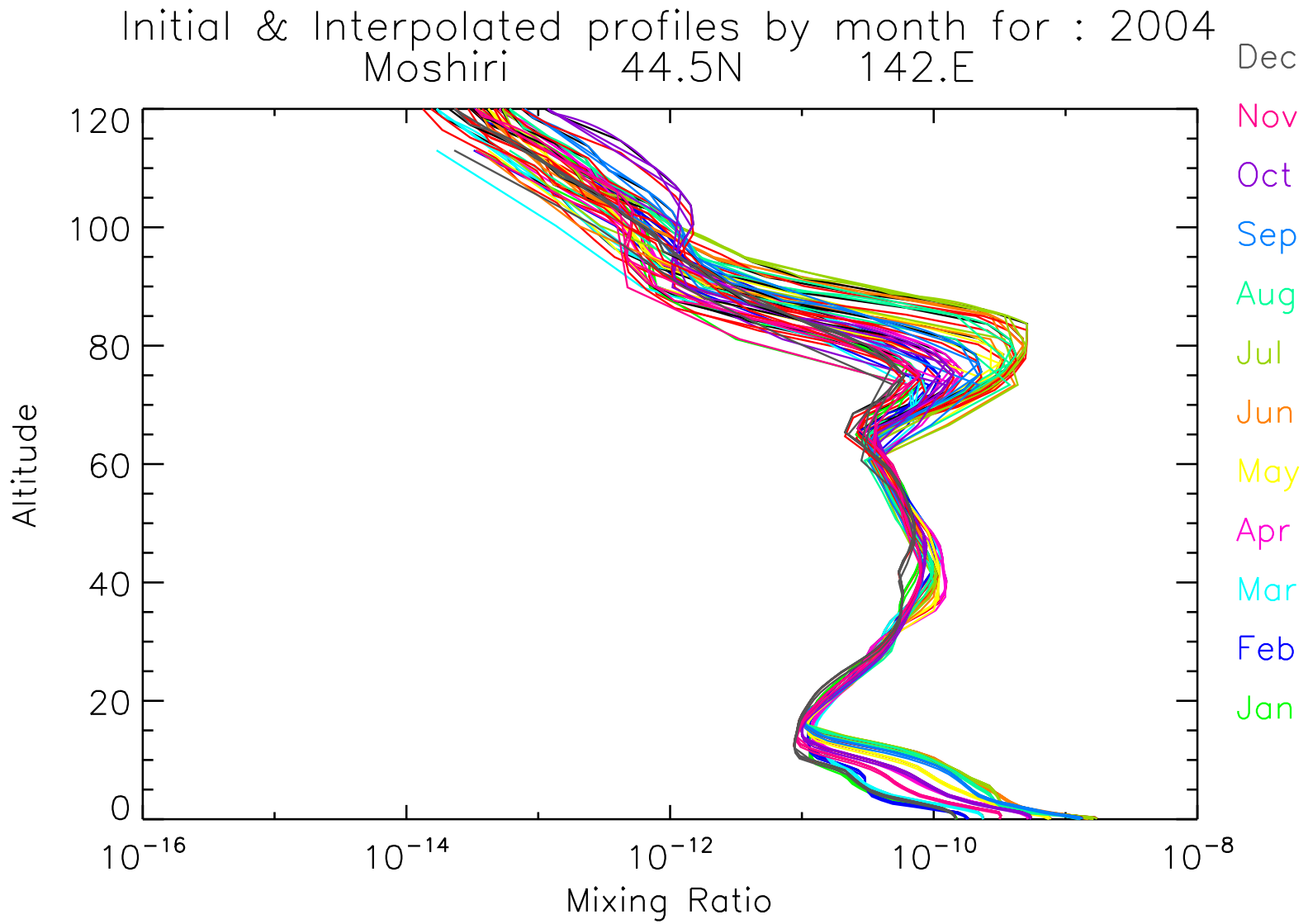
Initial & Interpolated profiles by month for : 2004
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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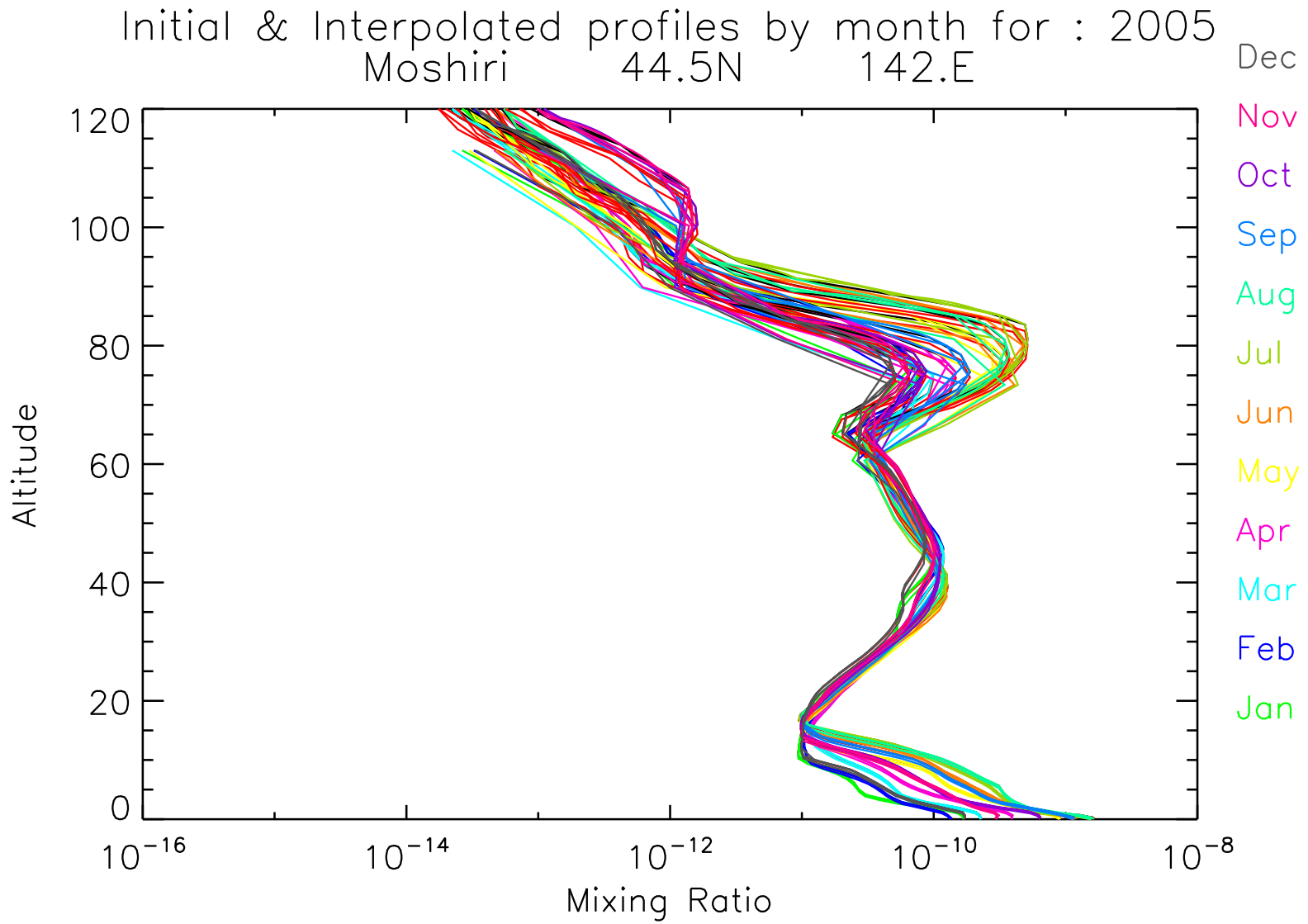
Initial & Interpolated profiles by month for : 2005
Moshiri 44.5N 142.E
Altitude
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100
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20
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Mixing Ratio
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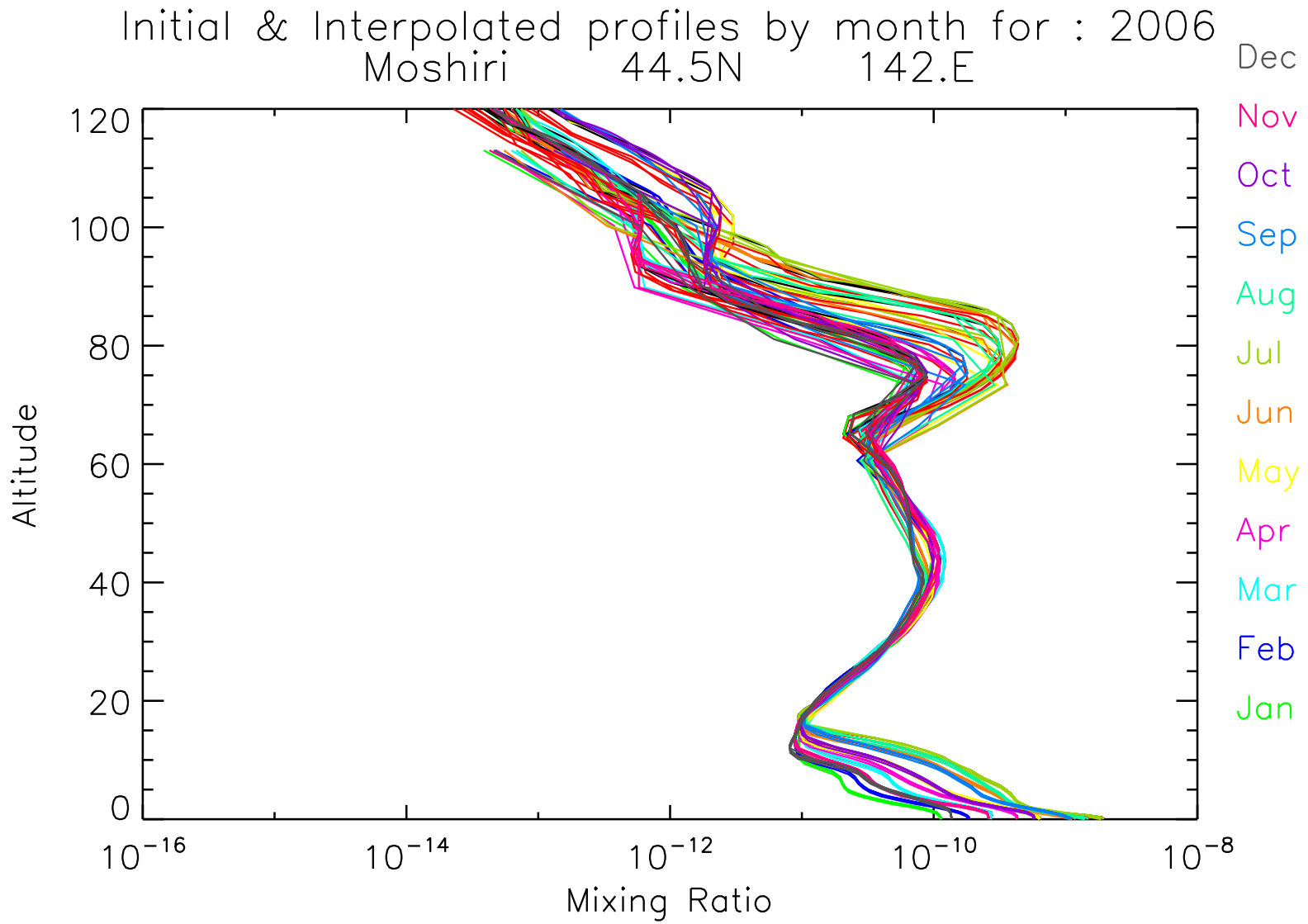
Initial & Interpolated profiles by month for : 2006
Moshiri 44.5N 142.E
Altitude
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10^{-8}
Mixing Ratio
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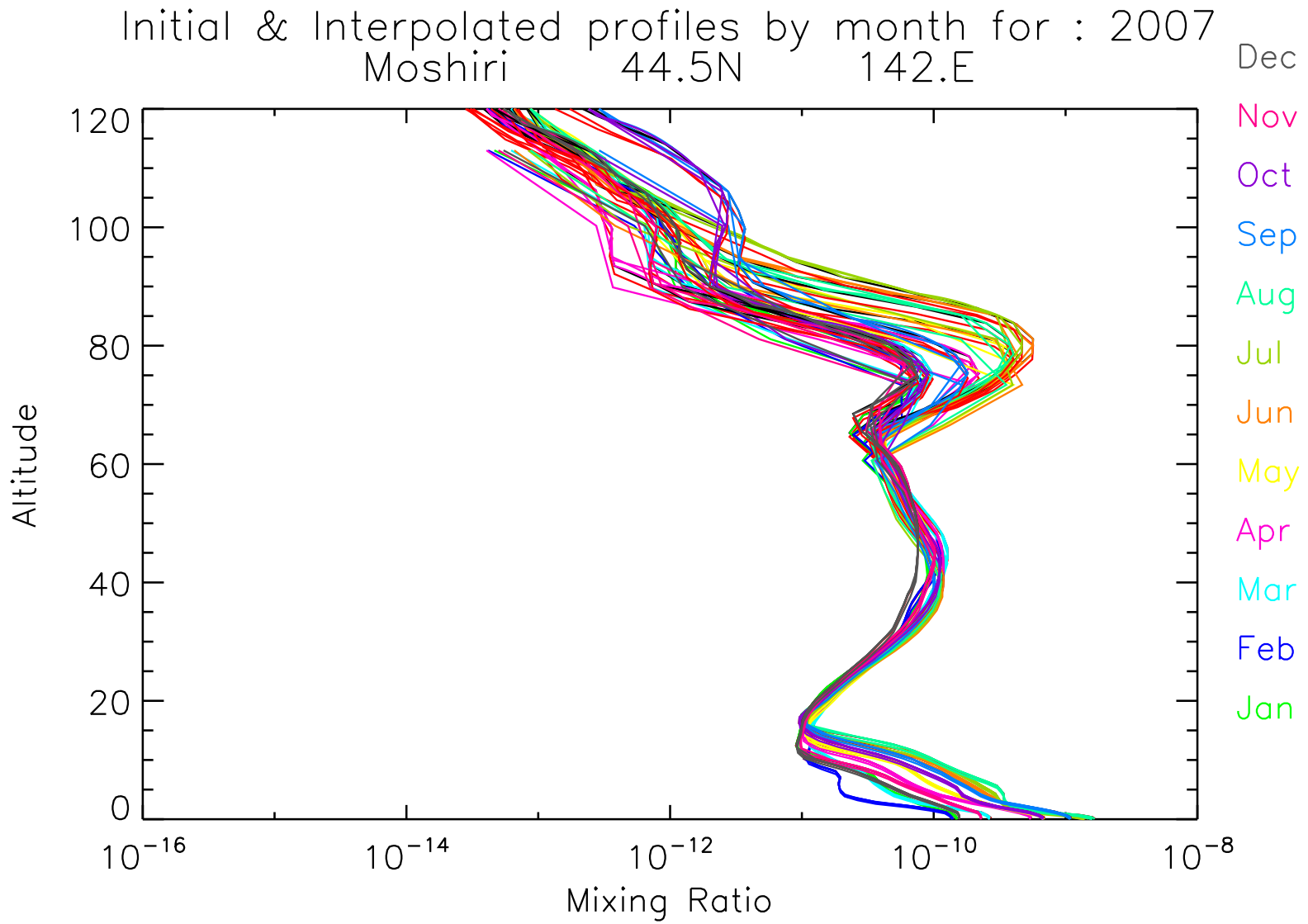
Jan


Initial & Interpolated profiles by month for : 2007
Moshiri 44.5N 142.E
Dec
Nov
Oct
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Feb
Jan
120
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20
0
Altitude
10^{-16}
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10^{-12}
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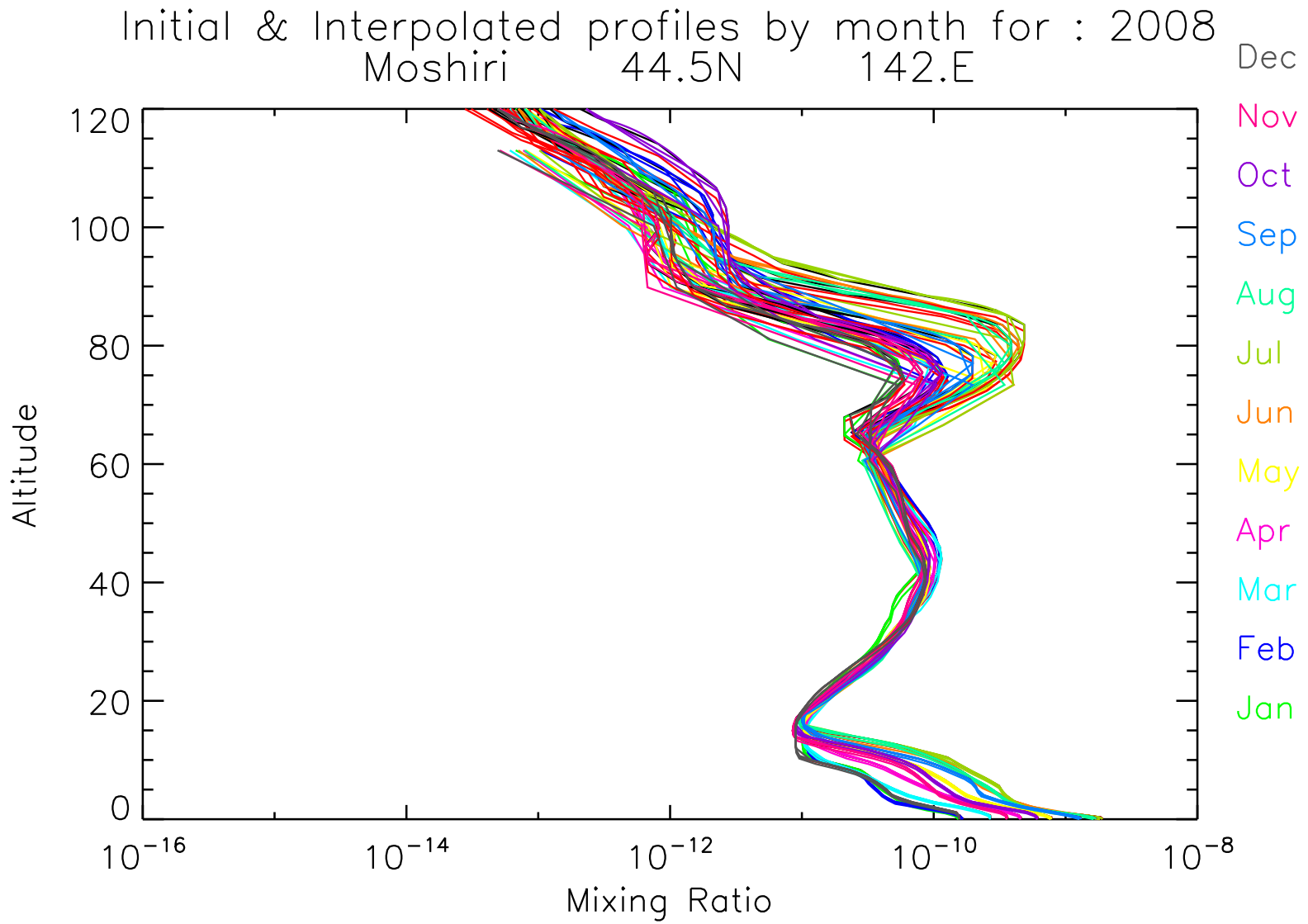
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Moshiri 44.5N 142.E
Altitude
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100
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60
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10^{-16}
10^{-14}
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10^{-8}
Mixing Ratio
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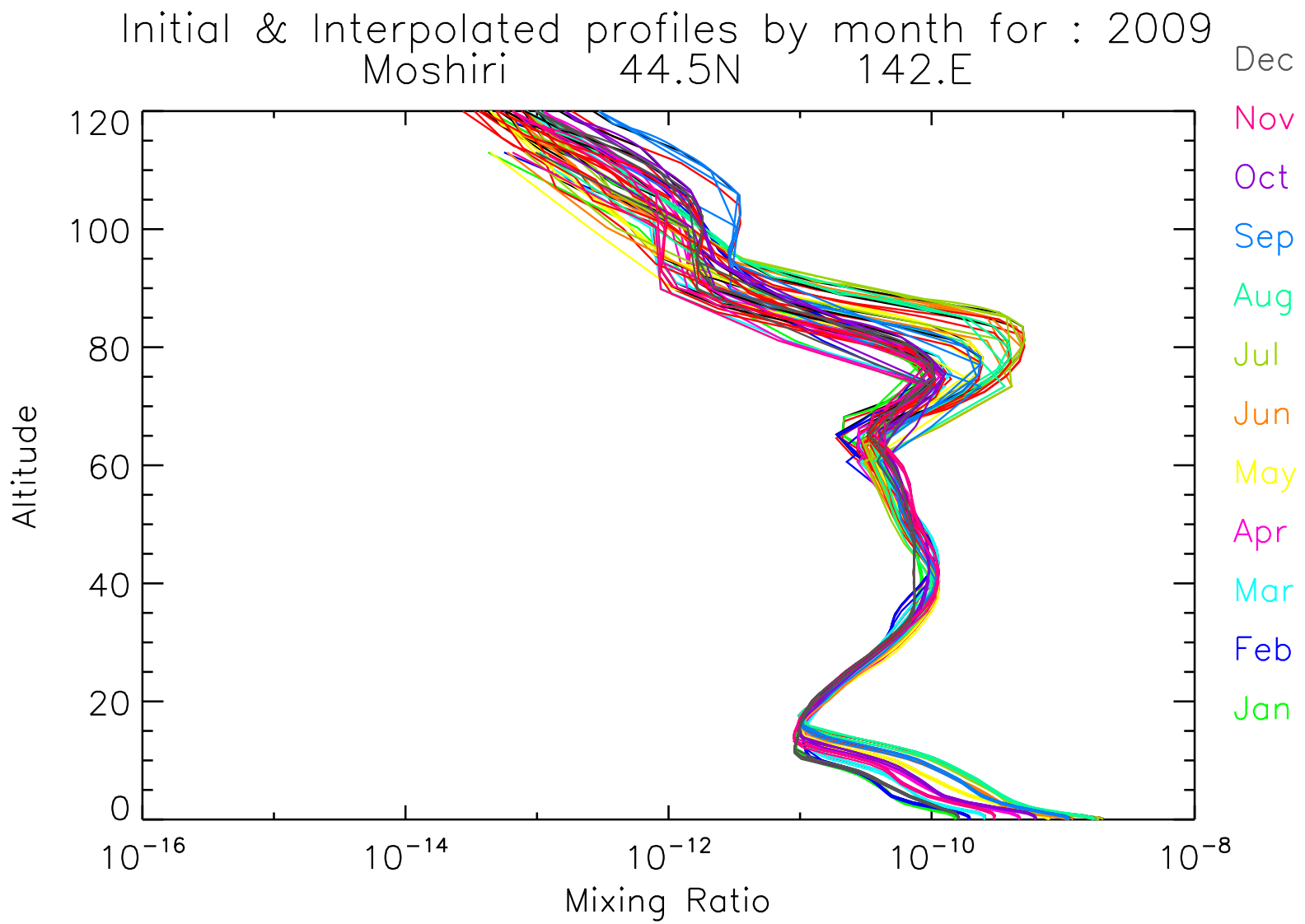
Initial & Interpolated profiles by month for : 2009
Moshiri 44.5N 142.E
Altitude
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Mixing Ratio
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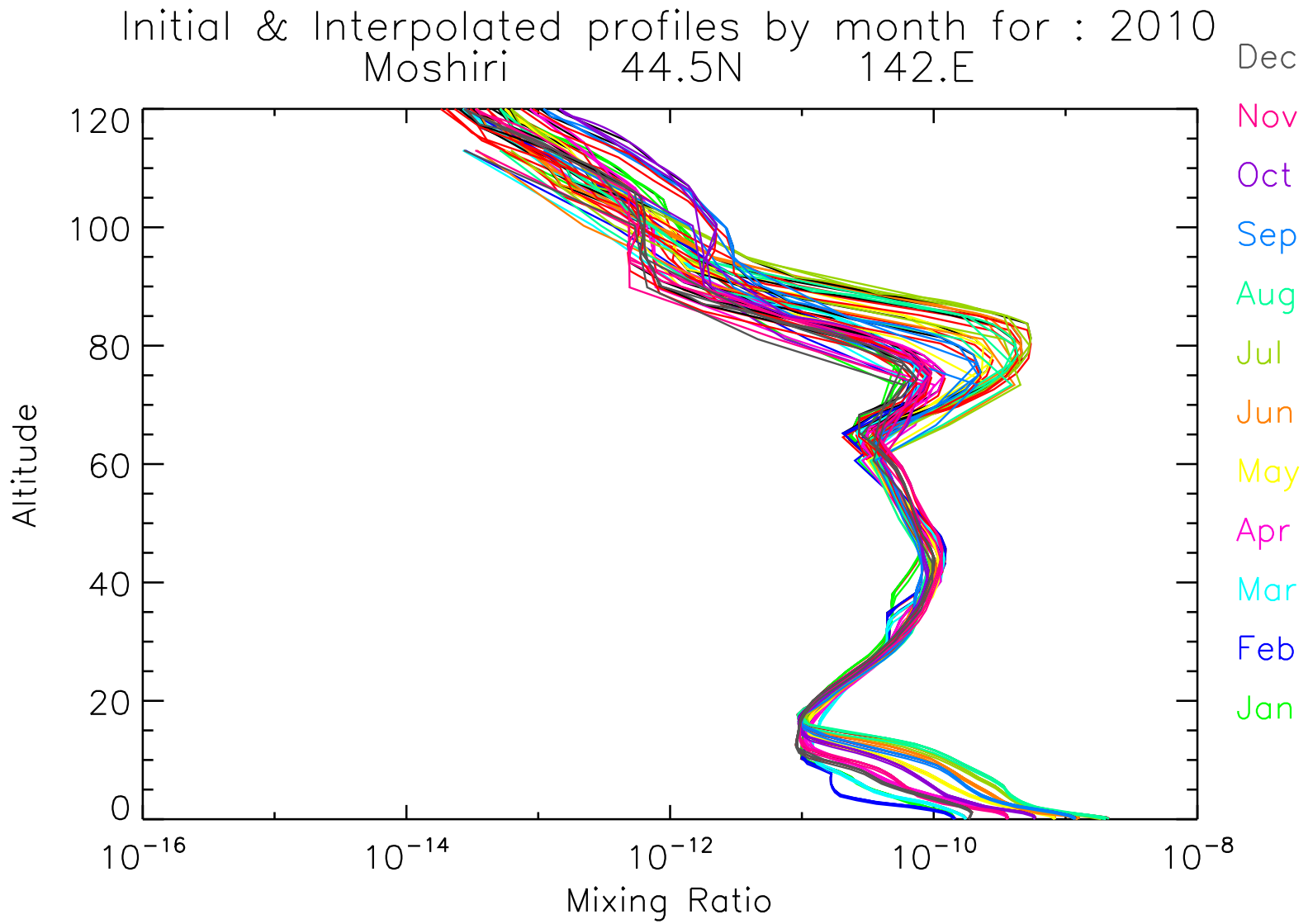
Initial & Interpolated profiles by month for : 2010
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
Dec
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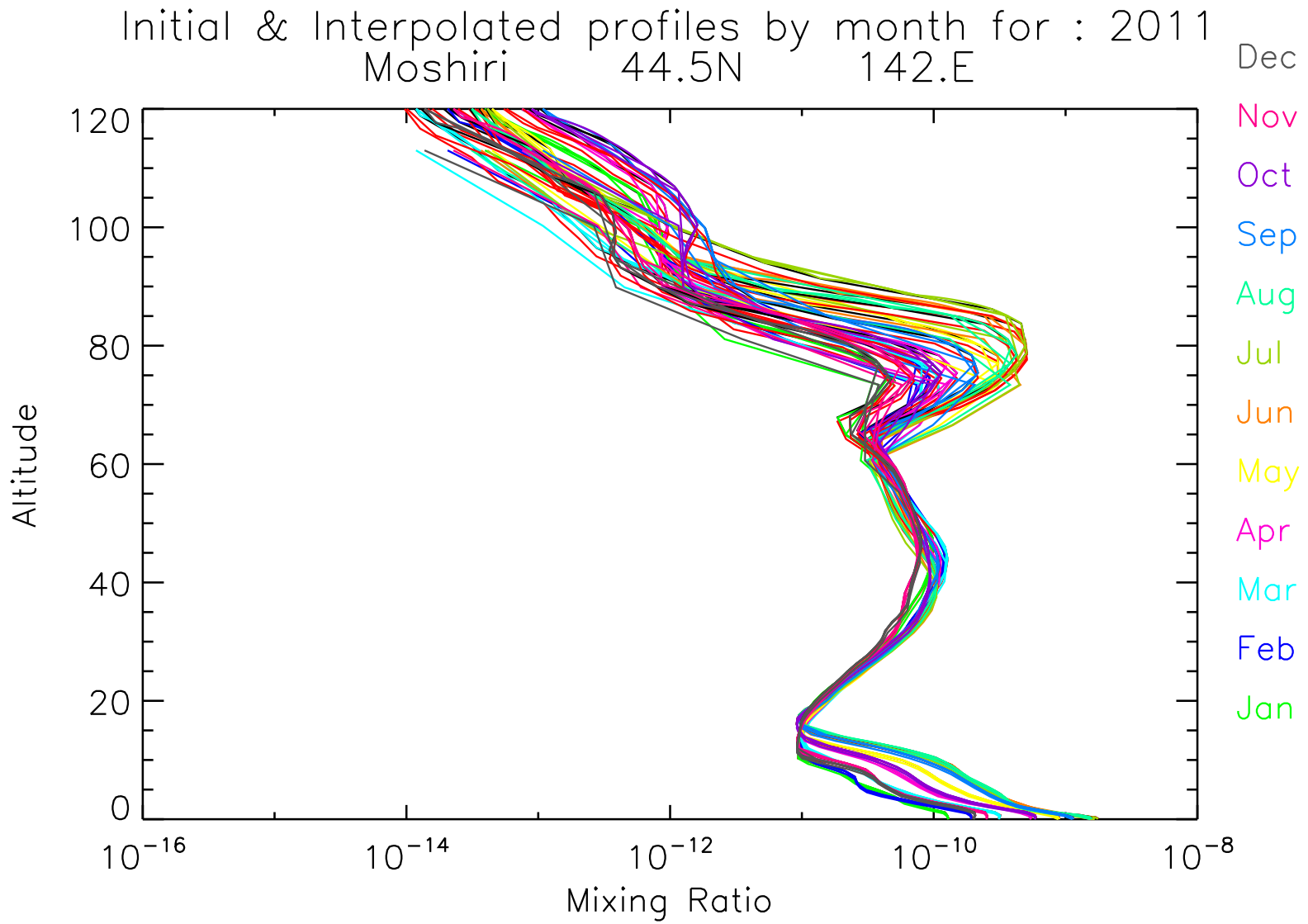
Initial & Interpolated profiles by month for : 2011
Moshiri 44.5N 142.E
Altitude
120
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Mixing Ratio
Dec
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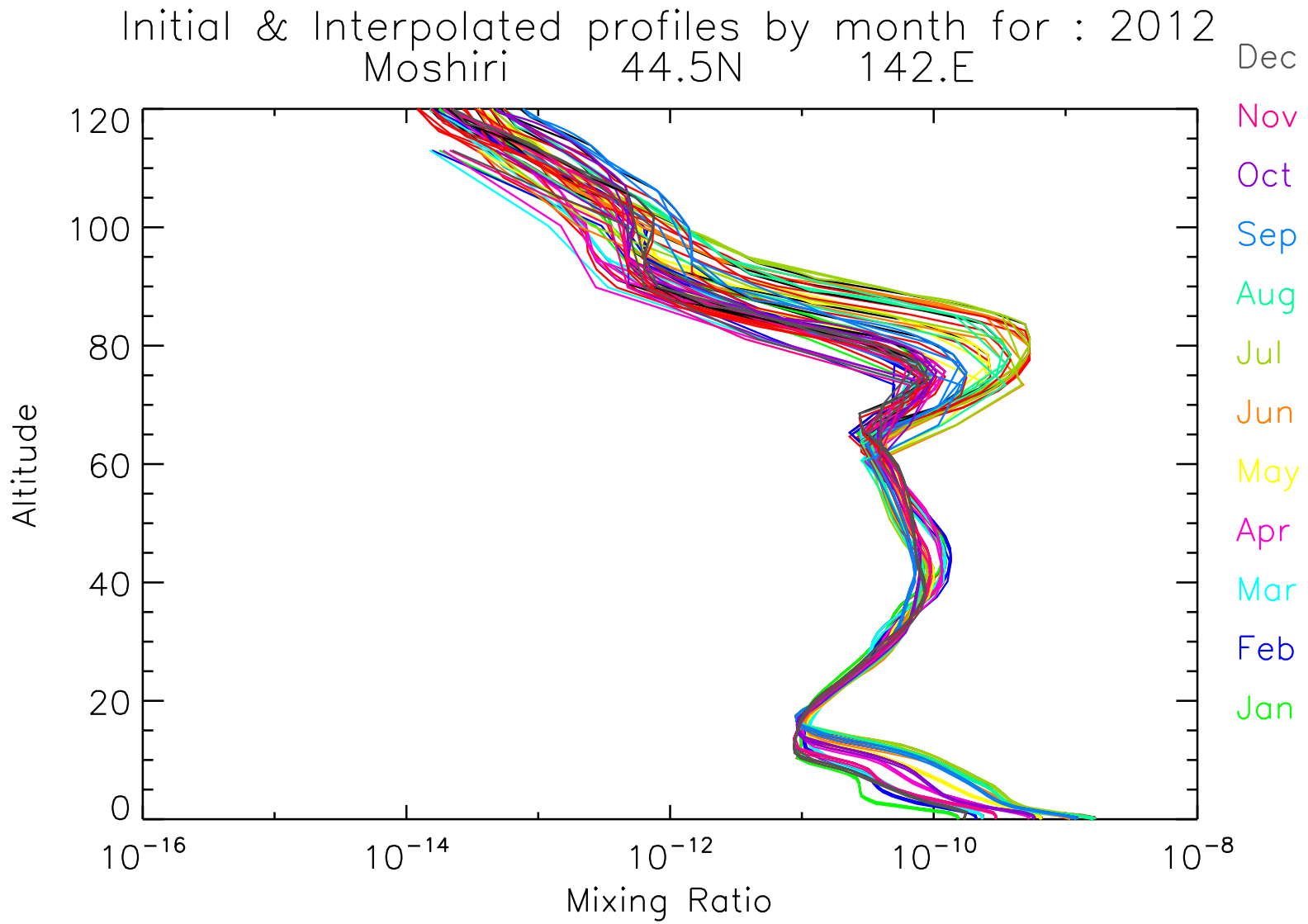
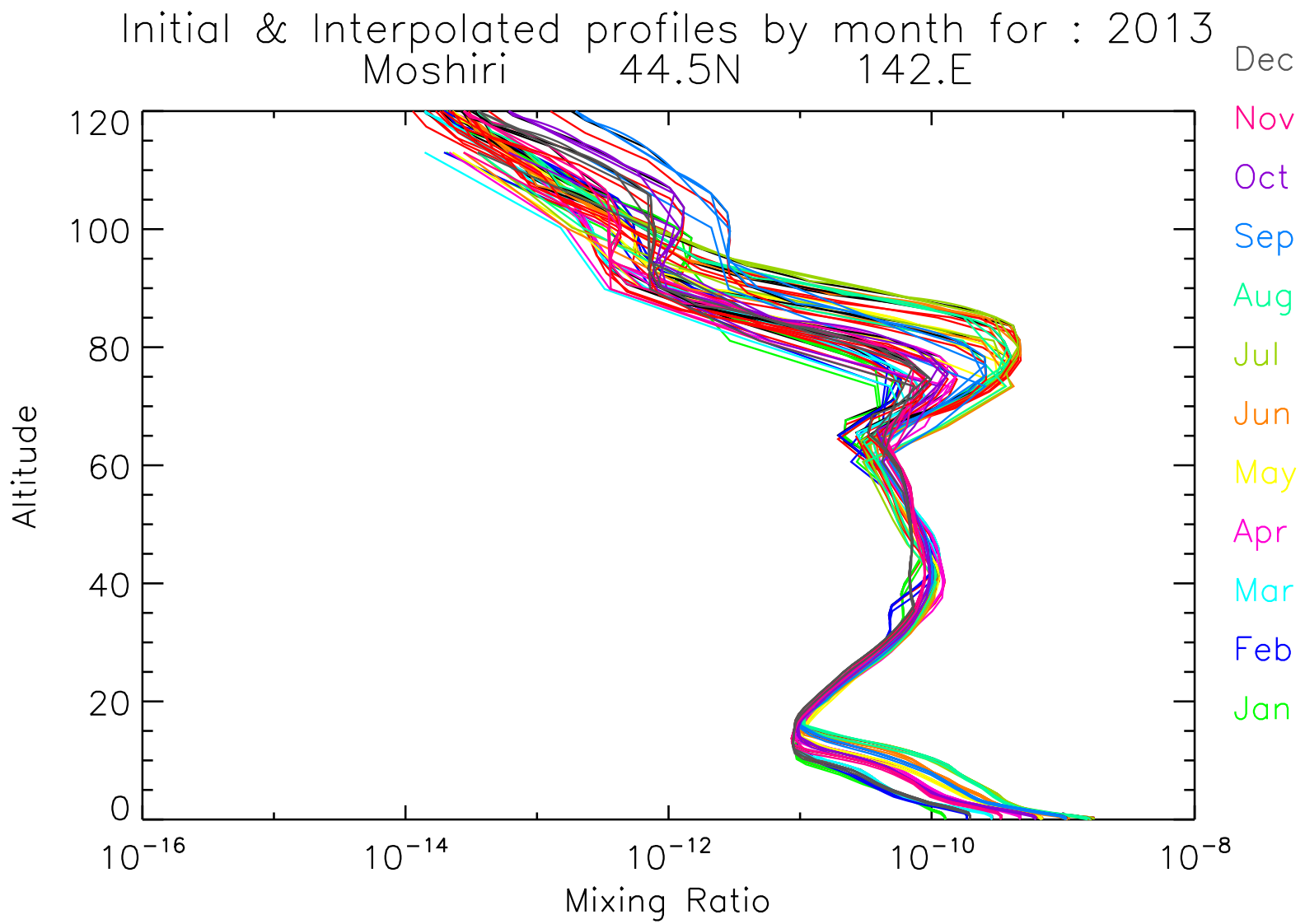
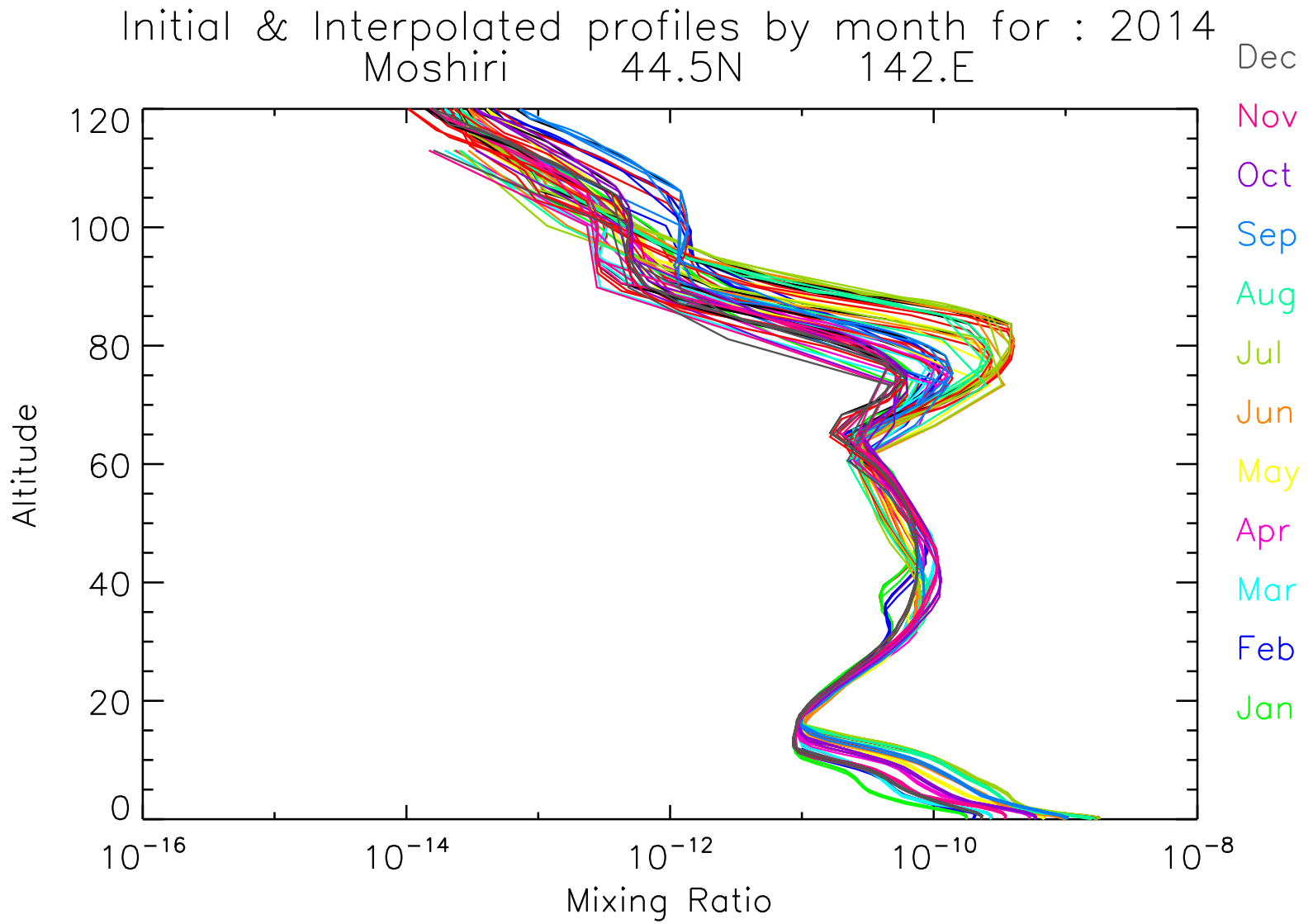
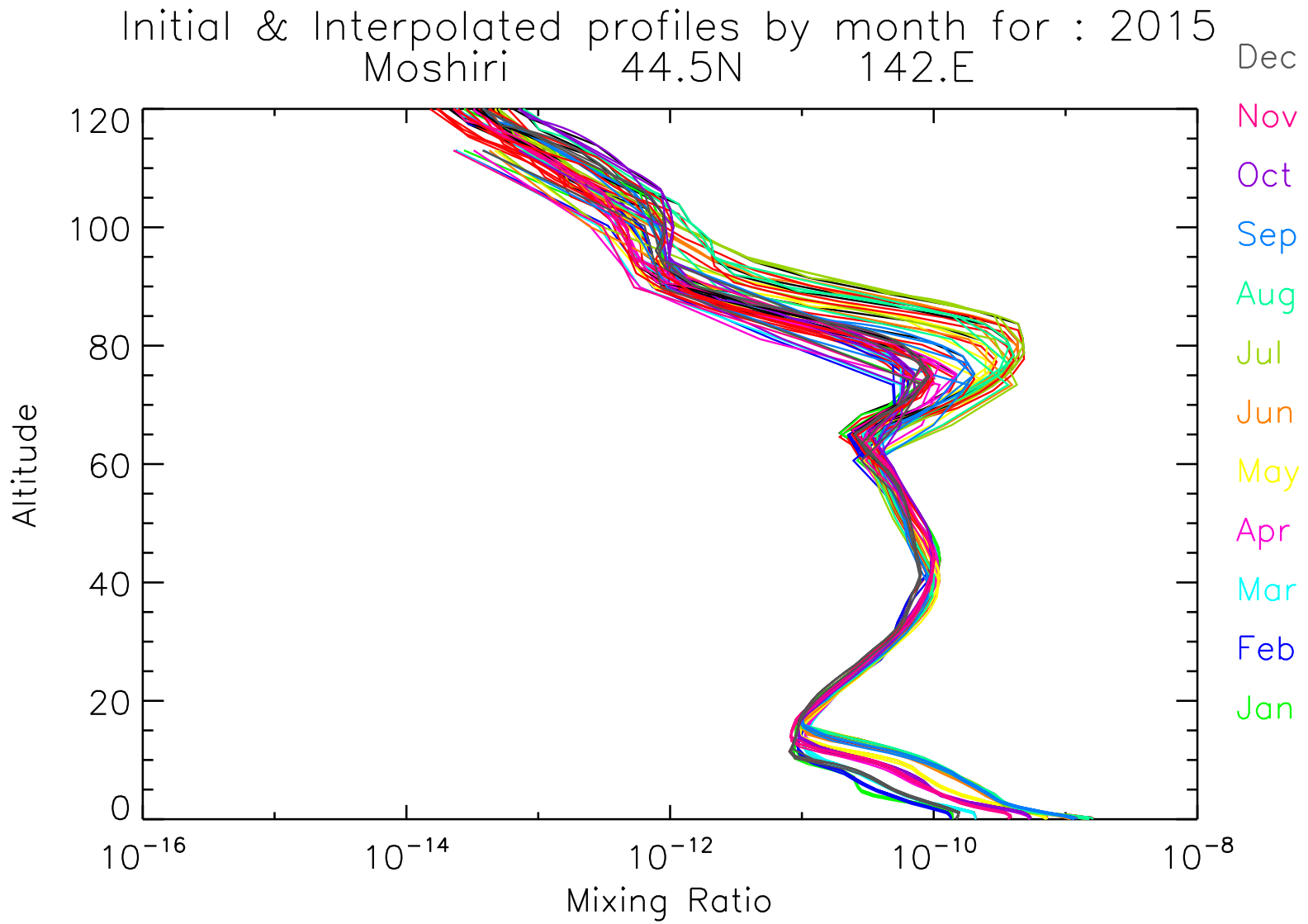
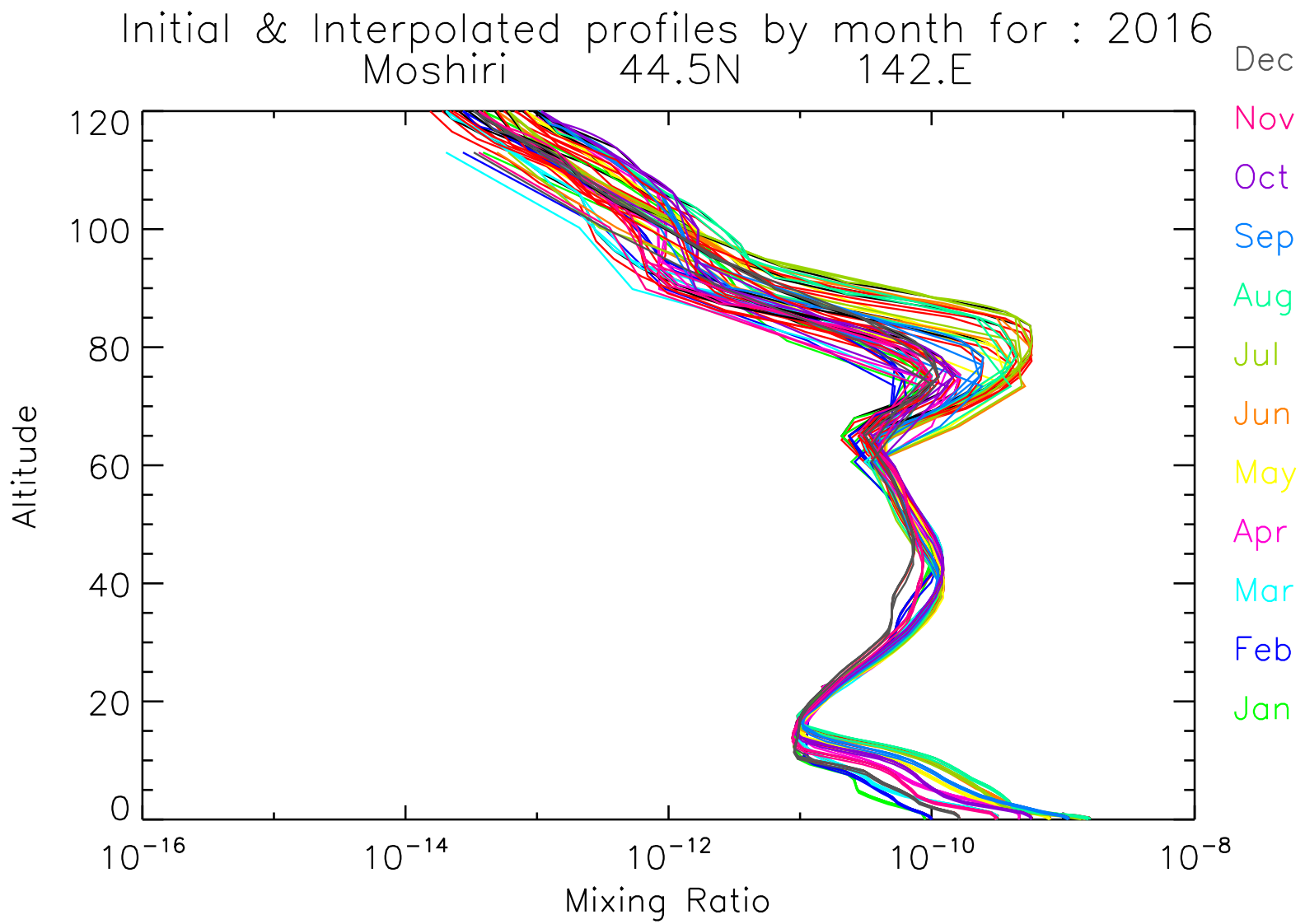
Feb
Jan

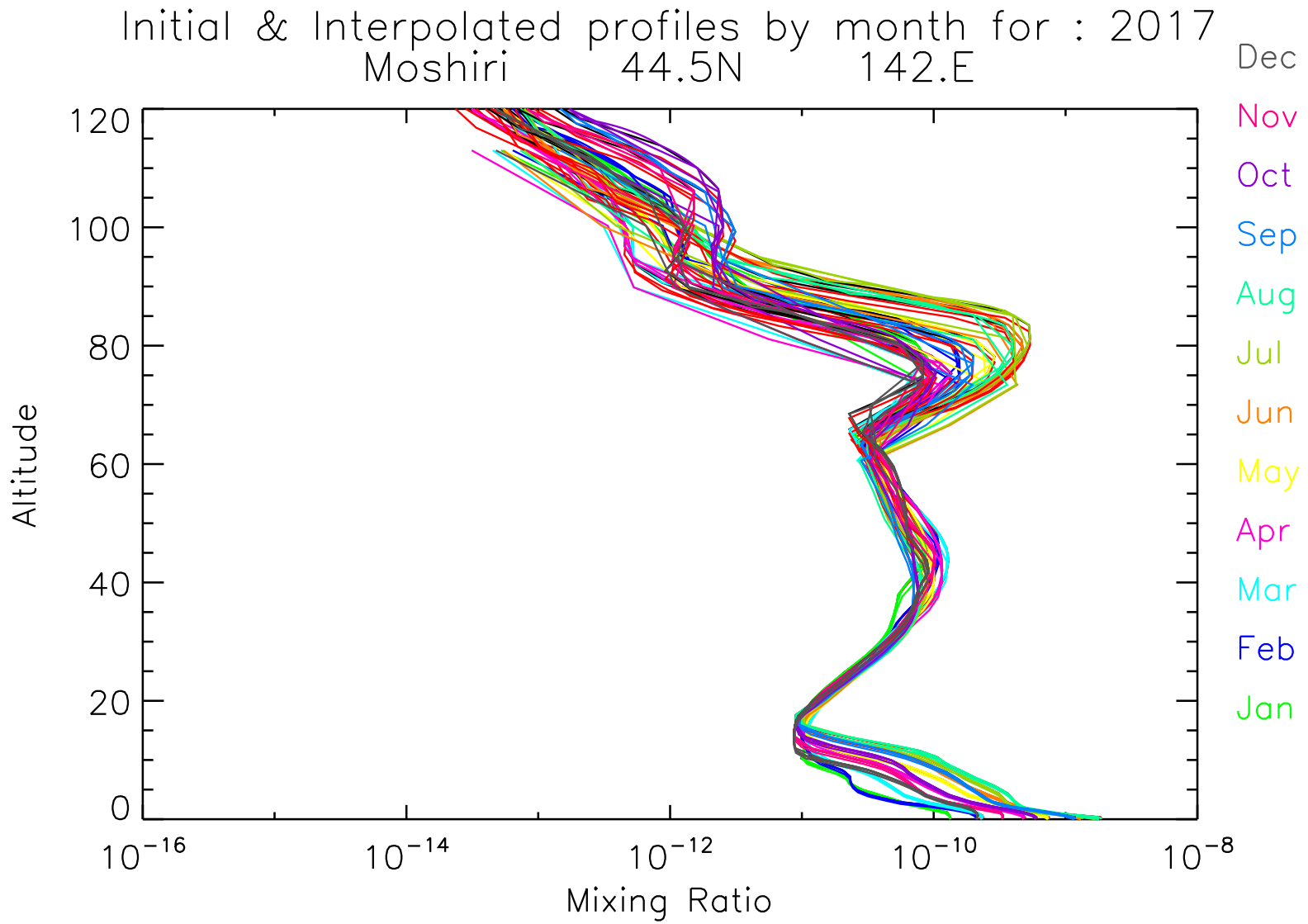

Initial & Interpolated profiles by month for : 2012
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

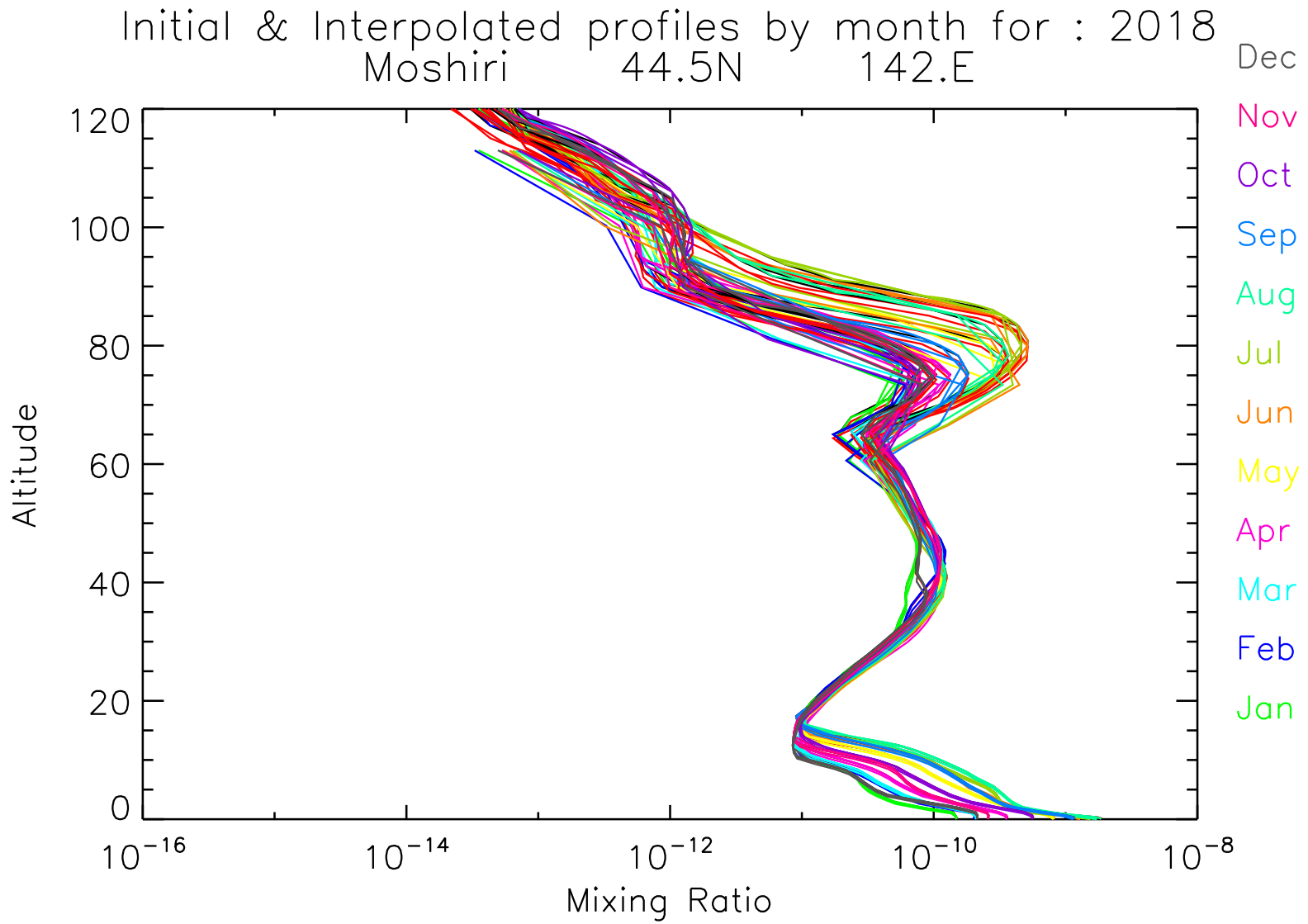

Initial & Interpolated profiles by month for : 2013
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

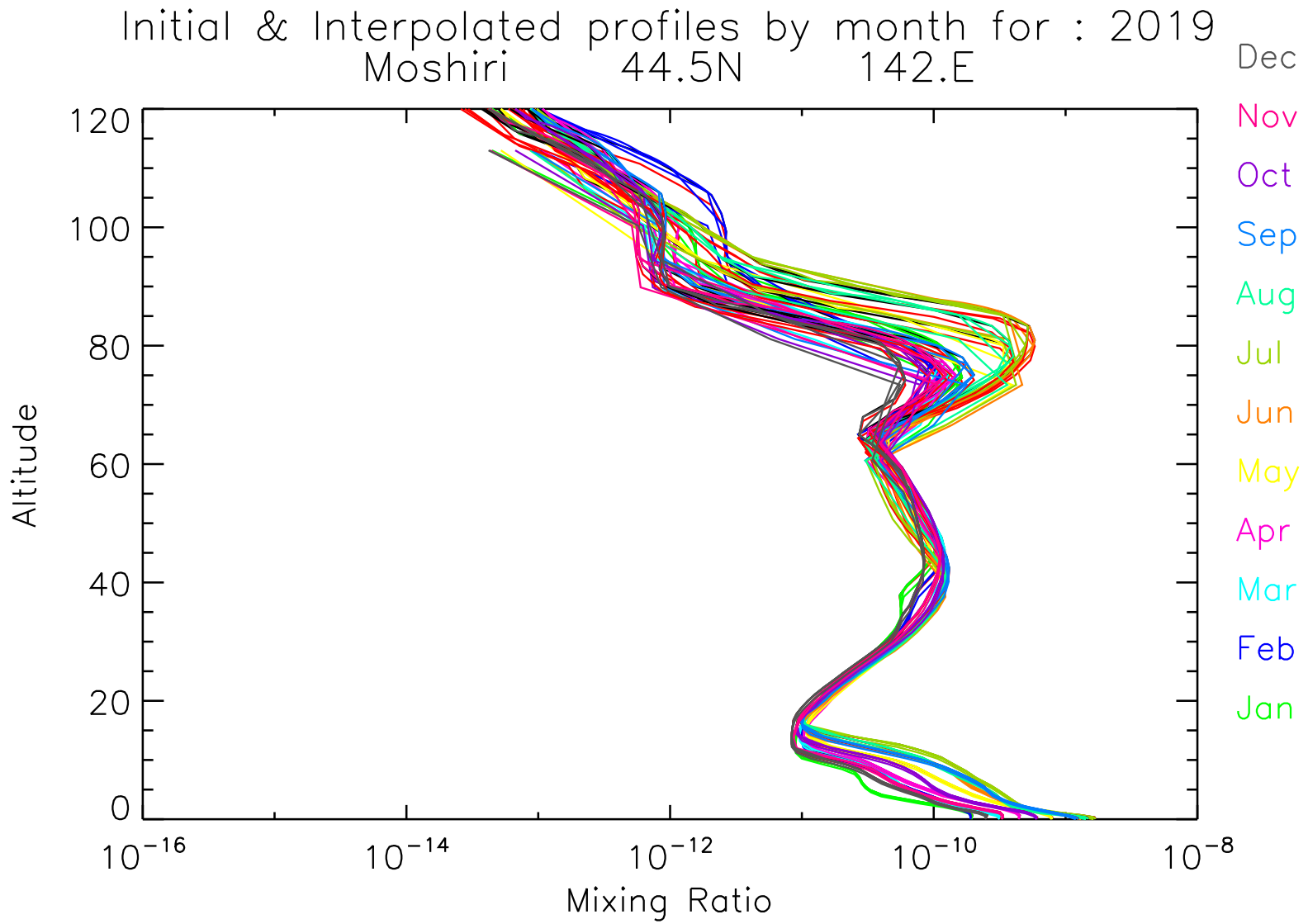

Initial & Interpolated profiles by month for : 2014
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

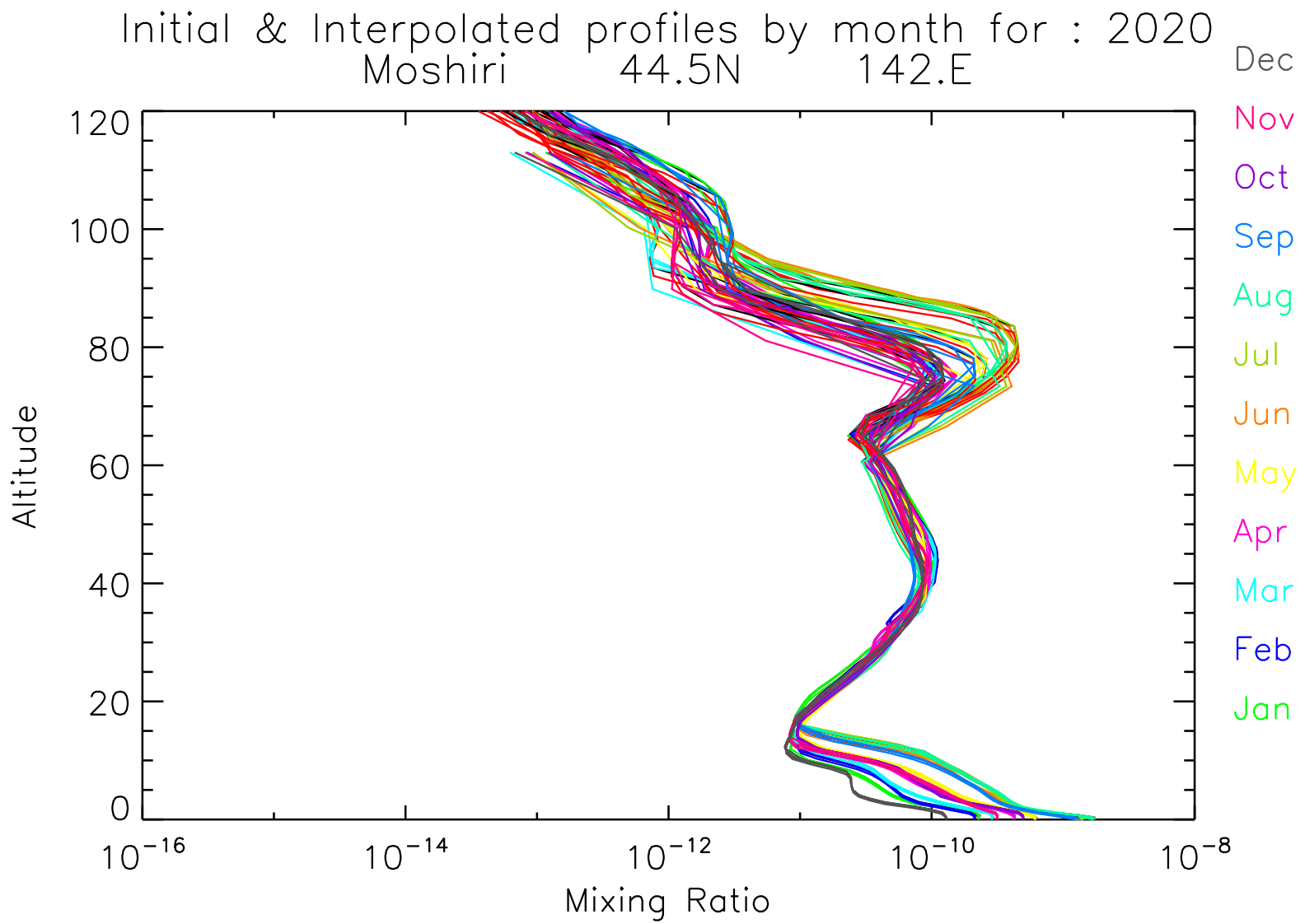

Initial & Interpolated profiles by month for : 2015
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

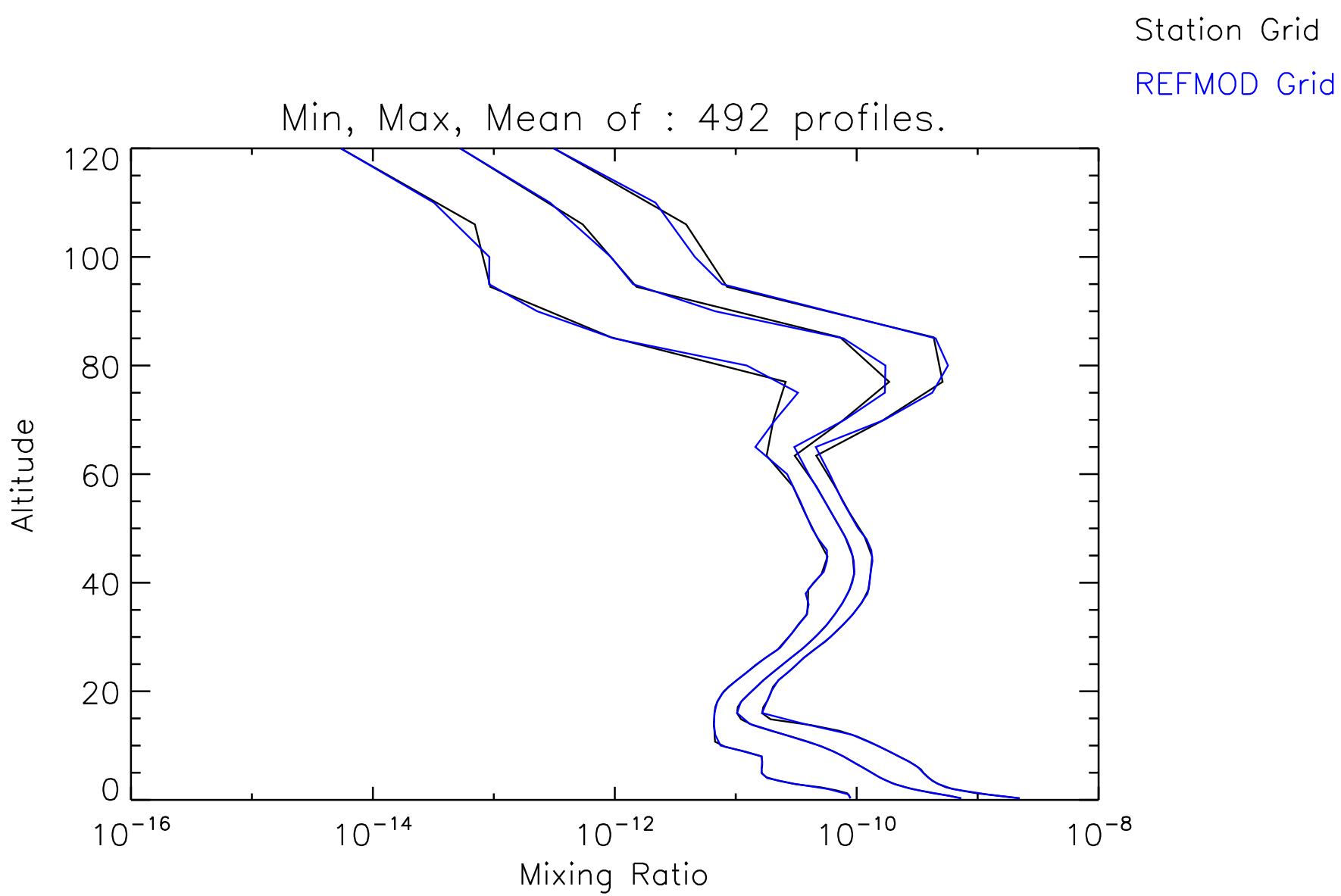

Initial & Interpolated profiles by month for : 2016
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

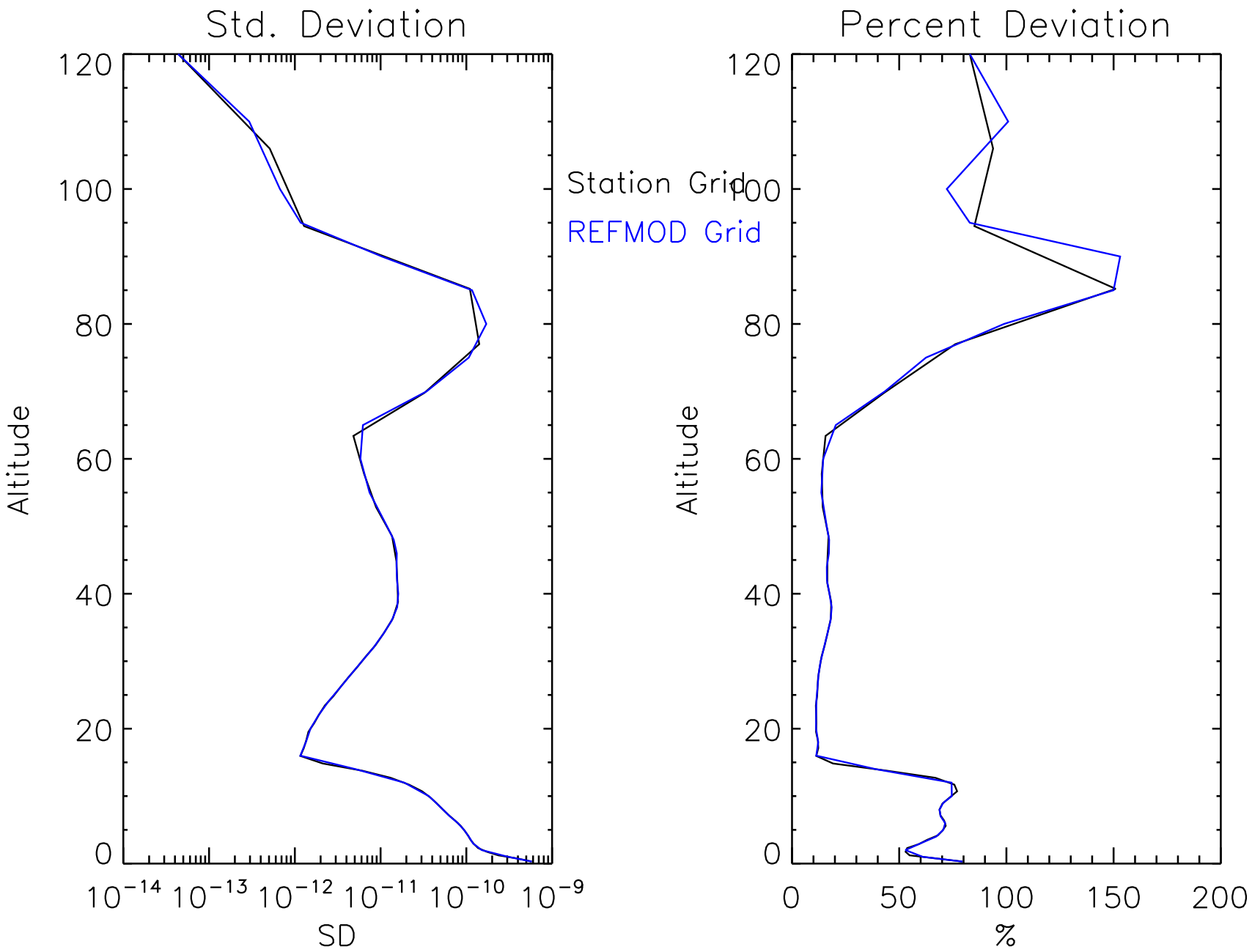

Initial & Interpolated profiles by month for : 2017
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

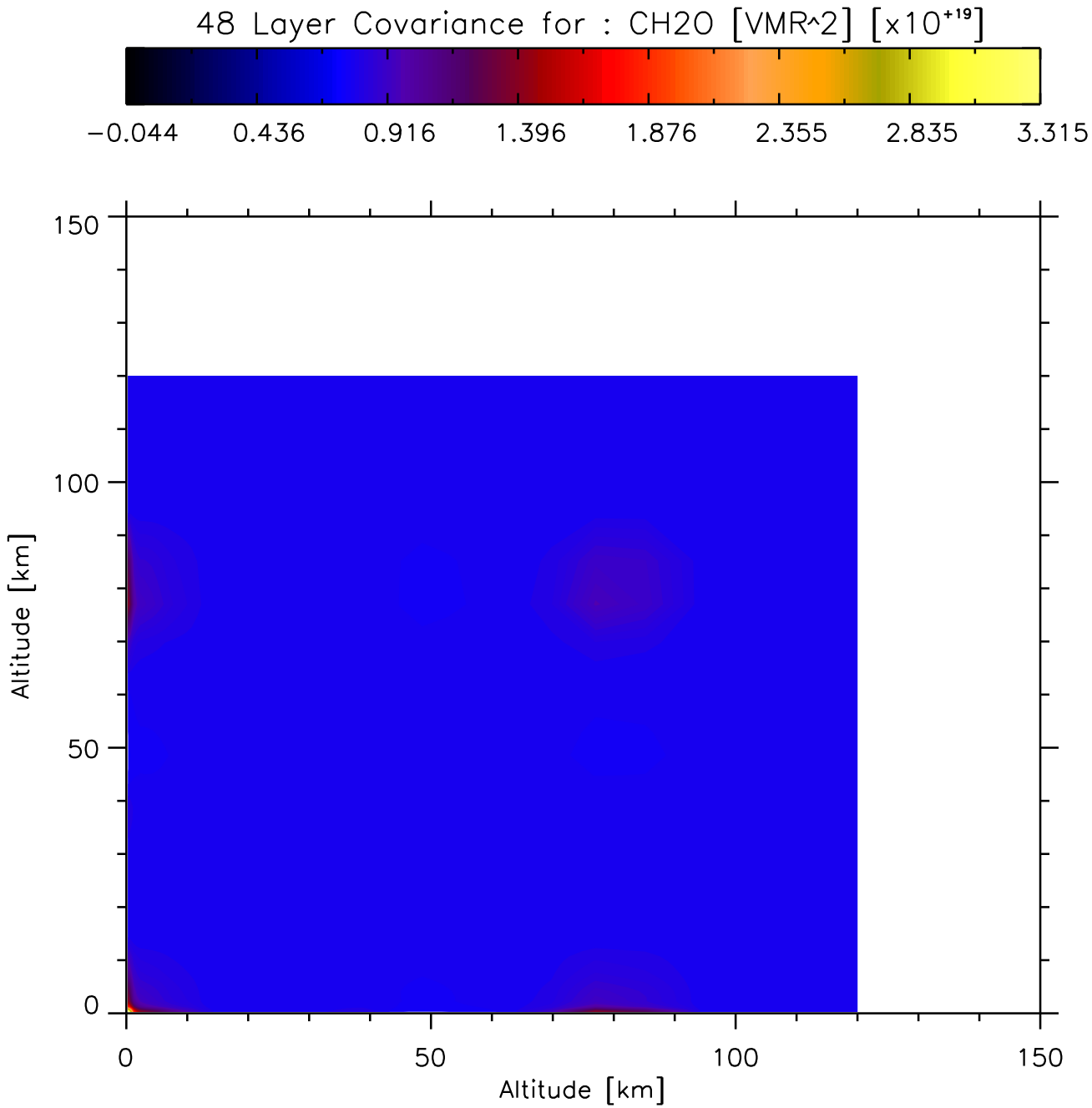

Initial & Interpolated profiles by month for : 2018
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

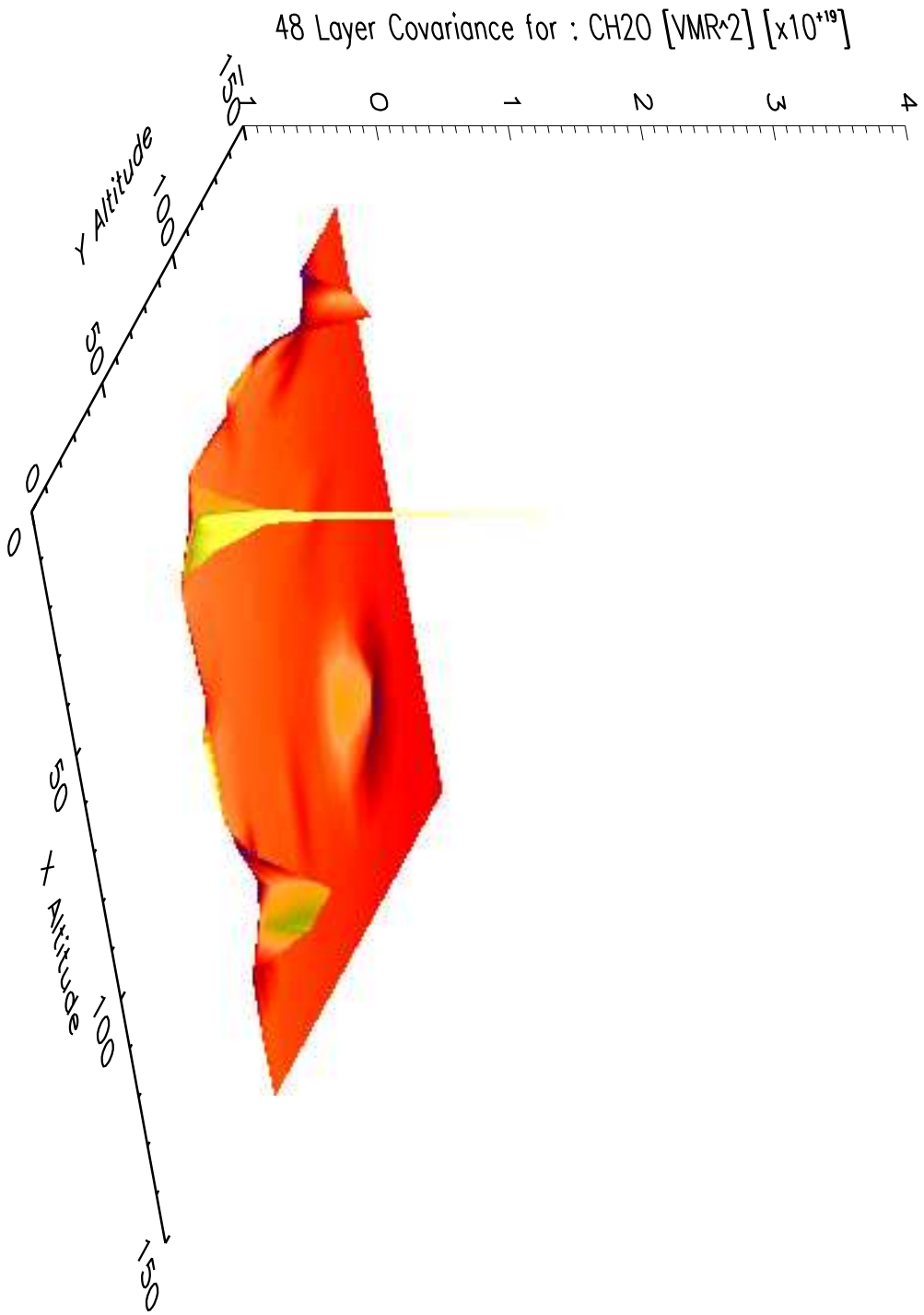

Initial & Interpolated profiles by month for : 2019
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

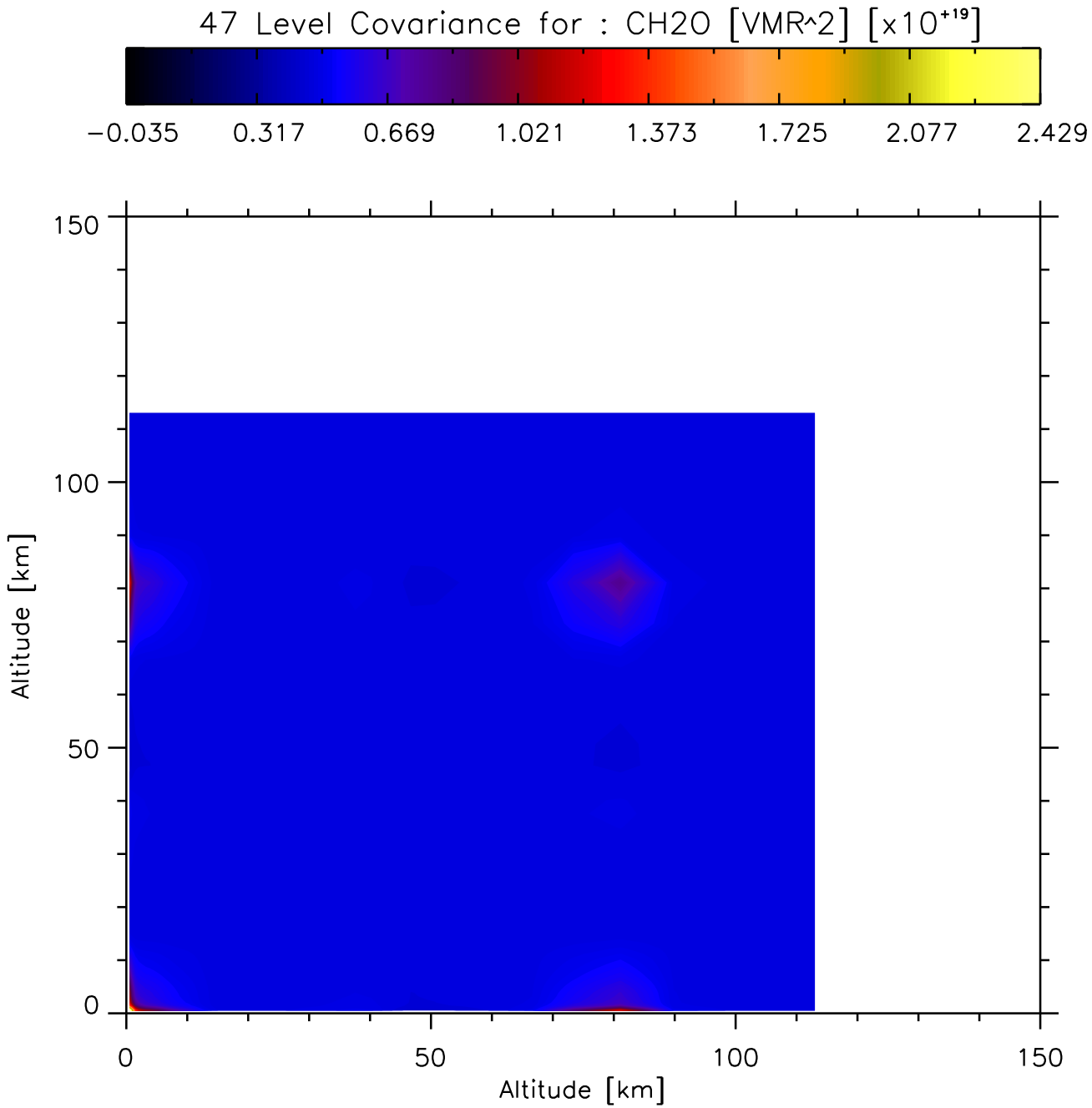

Initial & Interpolated profiles by month for : 2020
Moshiri 44.5N 142.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


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^{-14} 10^{-13} 10^{-12} 10^{-11} 10^{-10} 10^{-9}
SD
0
50
100
150
200
%


48 Layer Covariance for : CH2O [VMR^2] [x10^+19]
−0.044
0.436
0.916
1.396
1.876
2.355
2.835
3.315
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : CH2O [VMR^2] [x10^+19]
-150
0
1
2
3
4
Y Altitude
100
50
0
0
50
X Altitude
100
150


47 Level Covariance for : CH2O [VMR^2] [x10^+19]
−0.035
0.317
0.669
1.021
1.373
1.725
2.077
2.429
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Level Covariance for : CH2O [VMR^2] [x10^+19]
2.5
2.0
1.5
1.0
0.5
0.0
Y Altitude
0
15
30
45
60
X Altitude
0
50
100
150