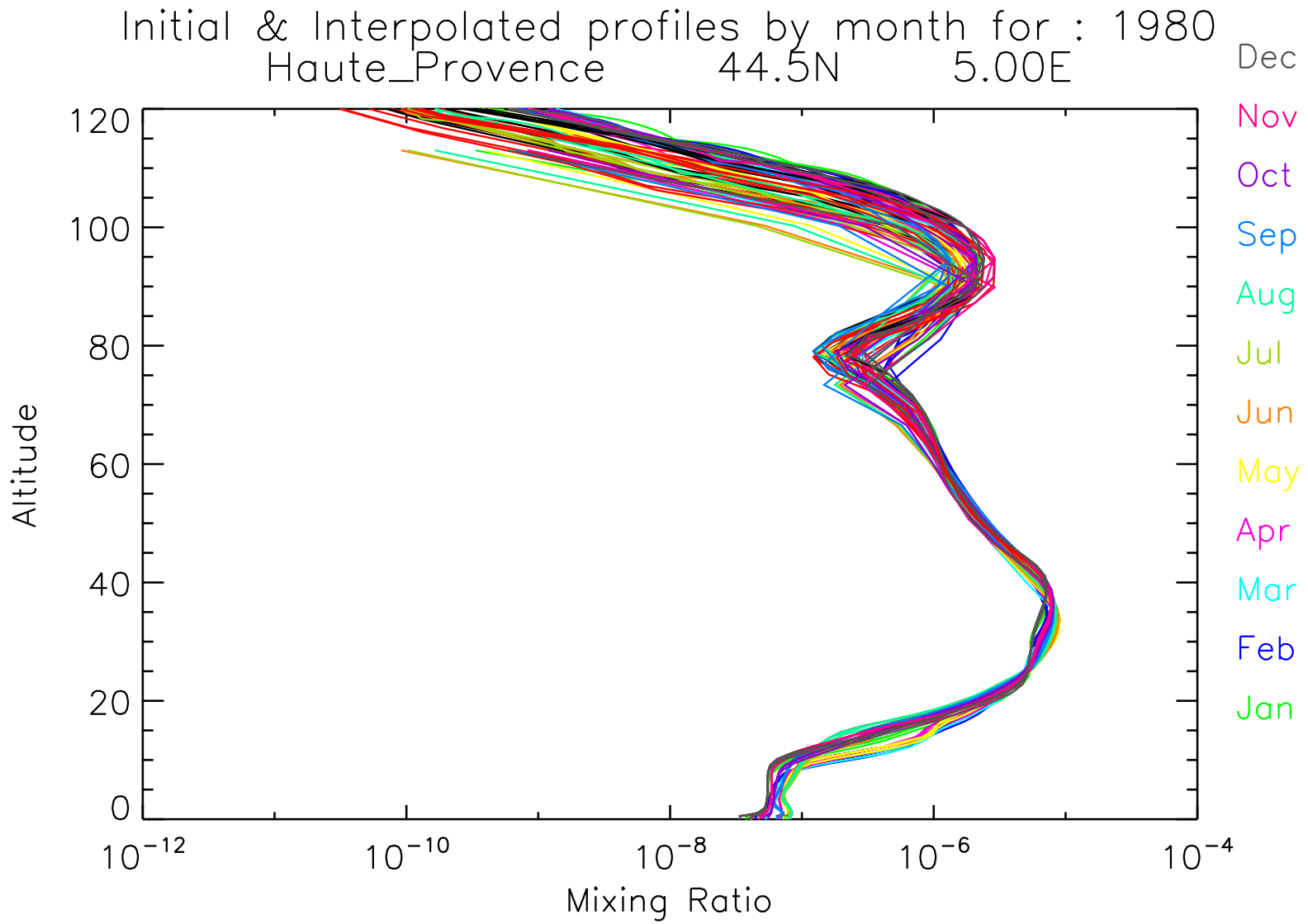
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Altitude
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Mixing Ratio
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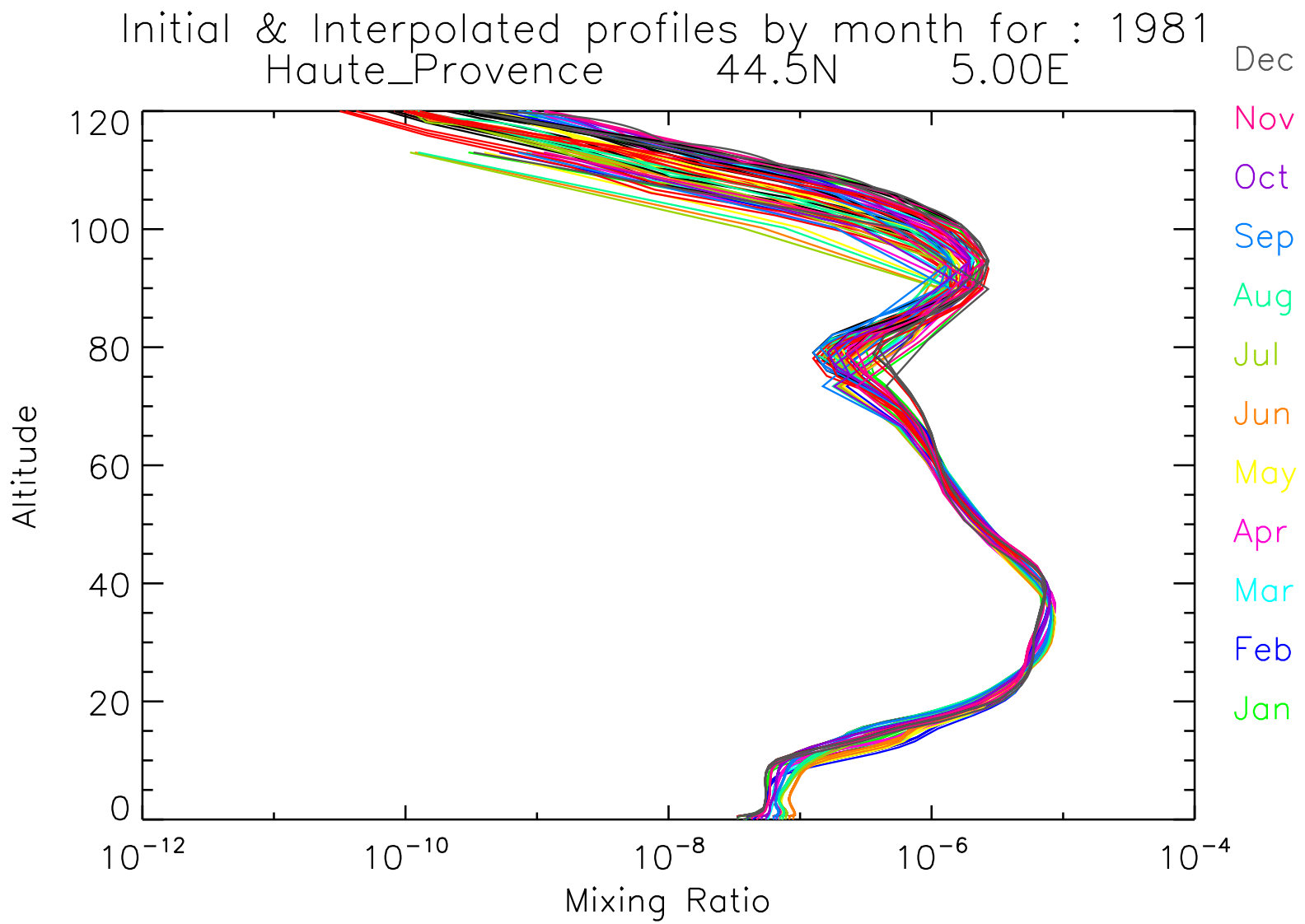
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Mixing Ratio
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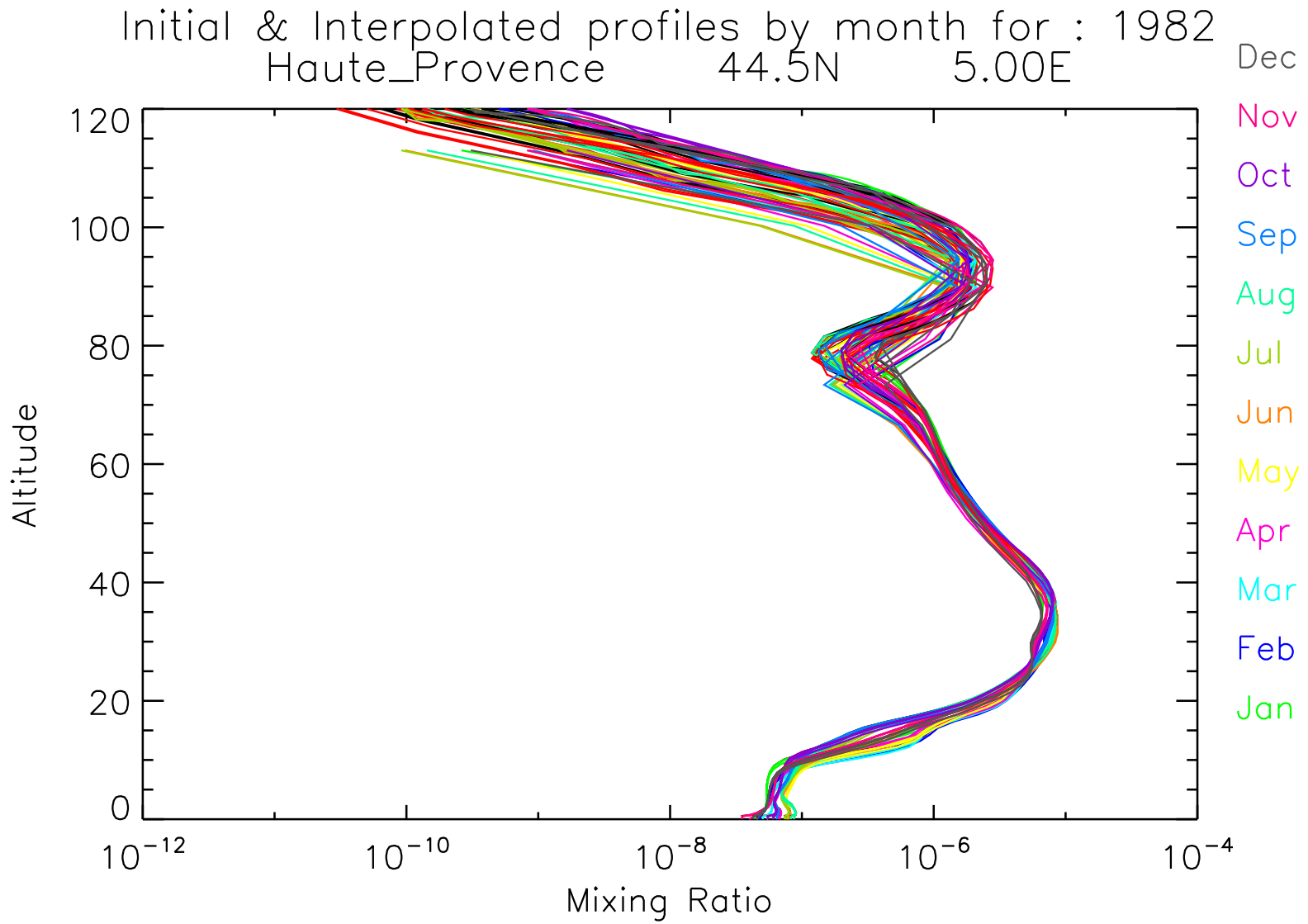
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Mixing Ratio
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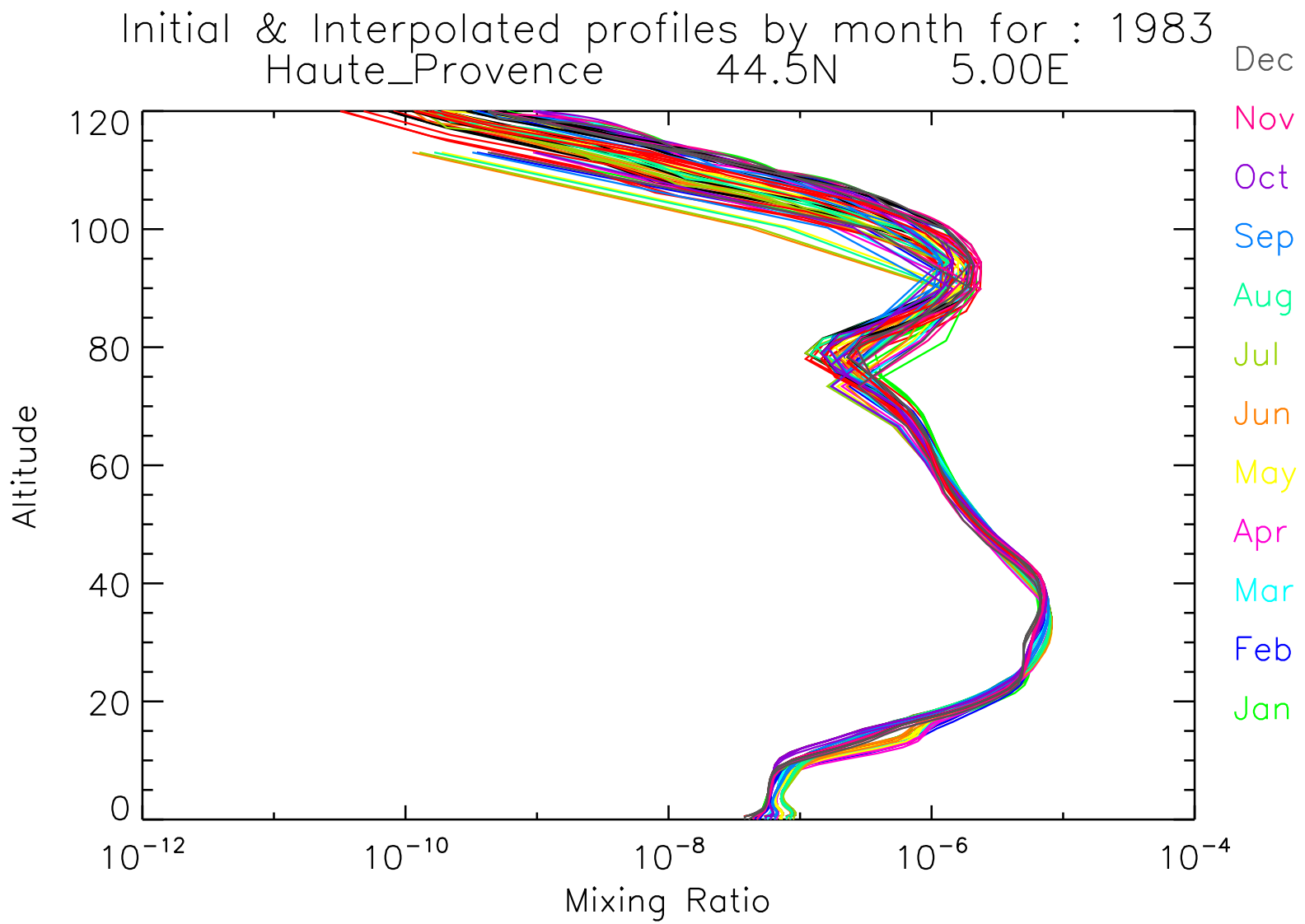
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Mixing Ratio
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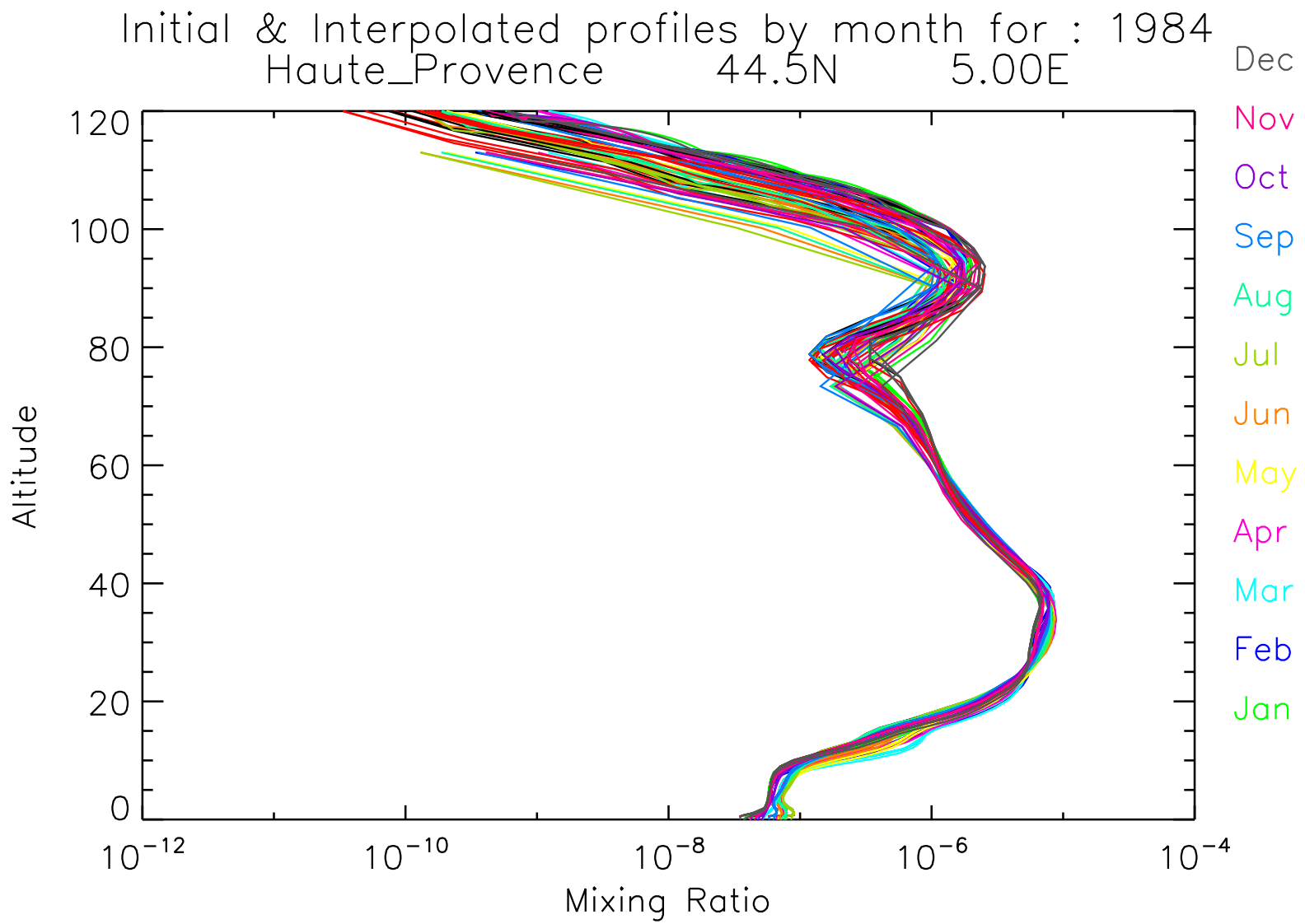
Initial & Interpolated profiles by month for : 1984
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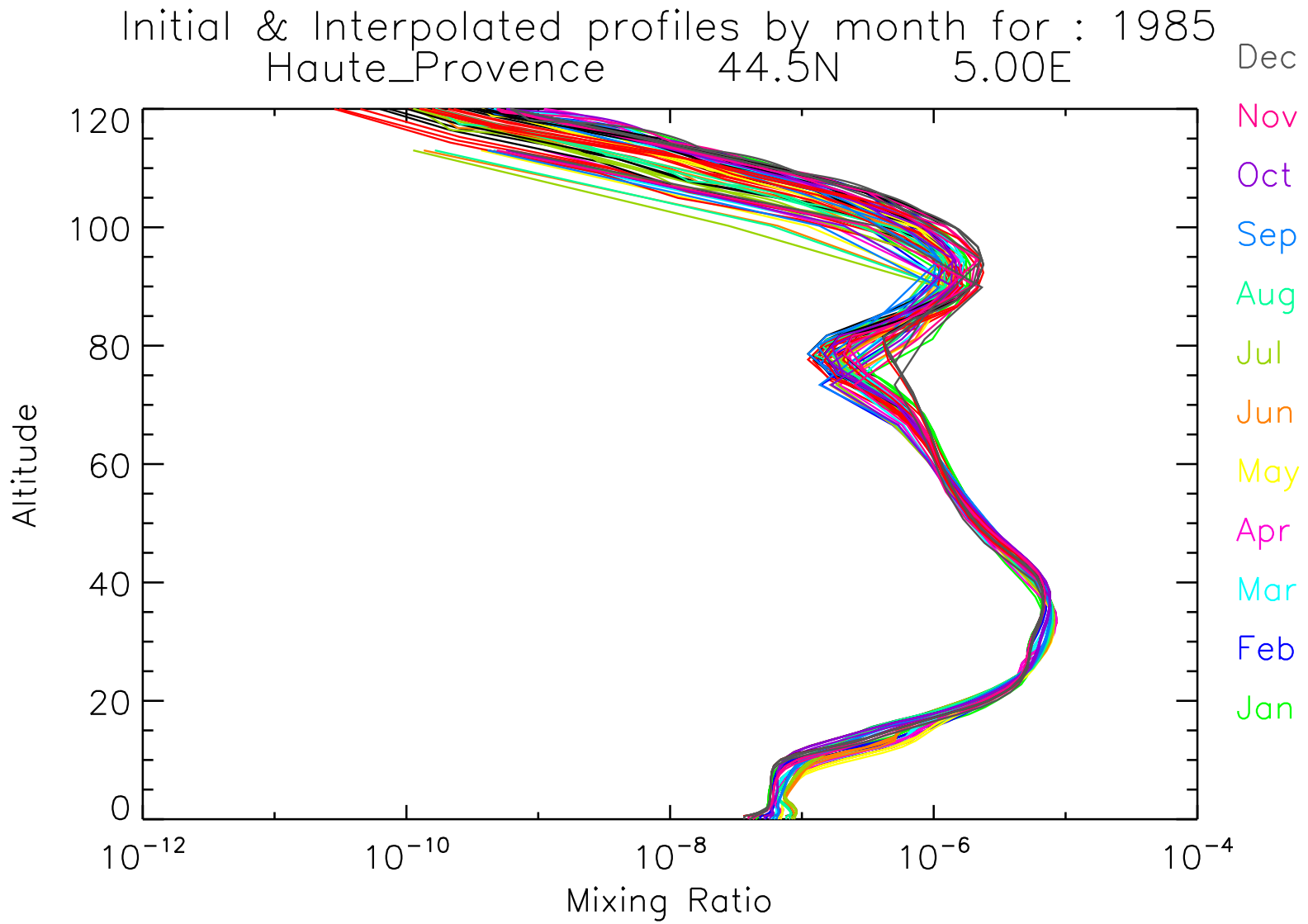
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
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Altitude
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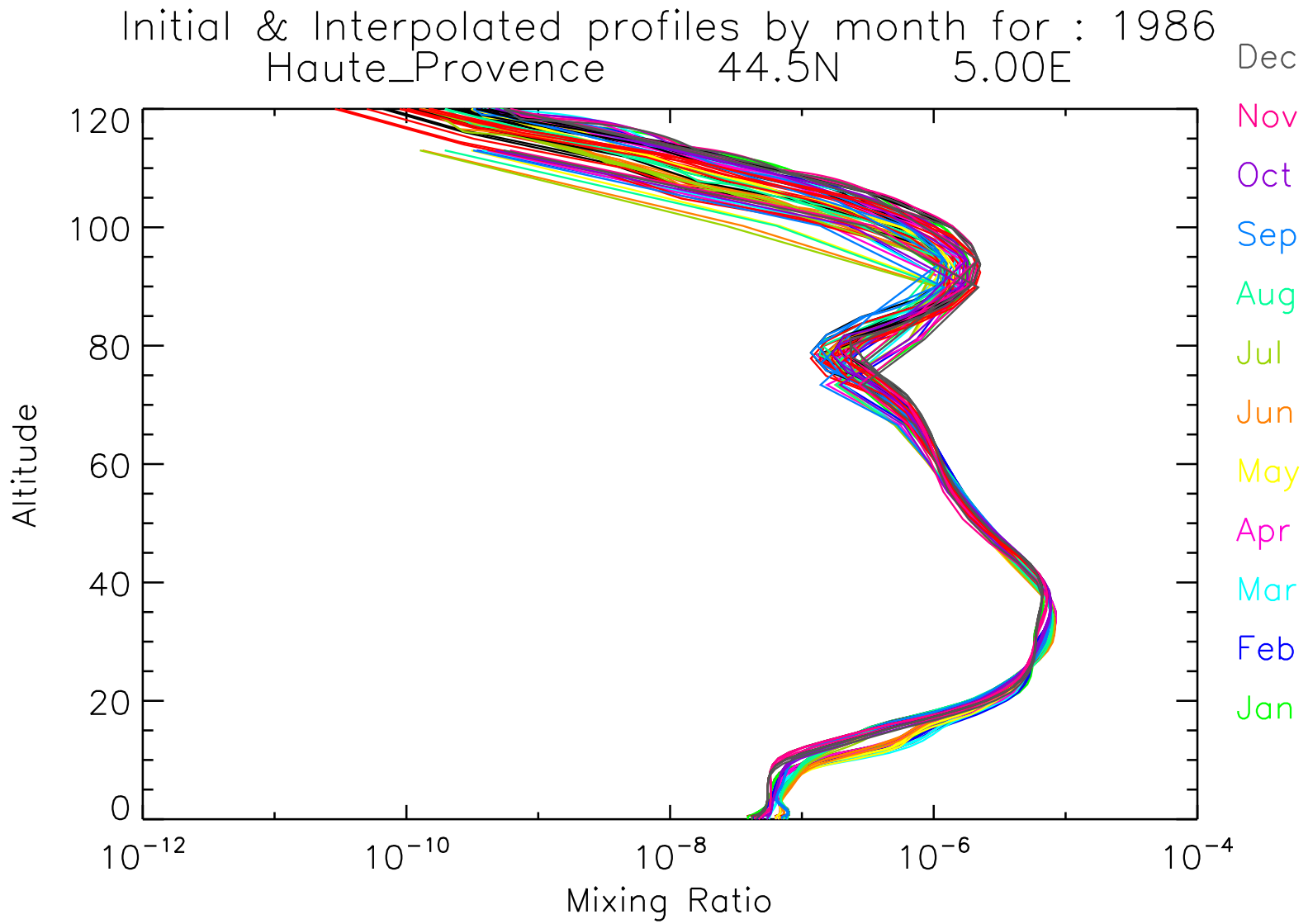
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Altitude
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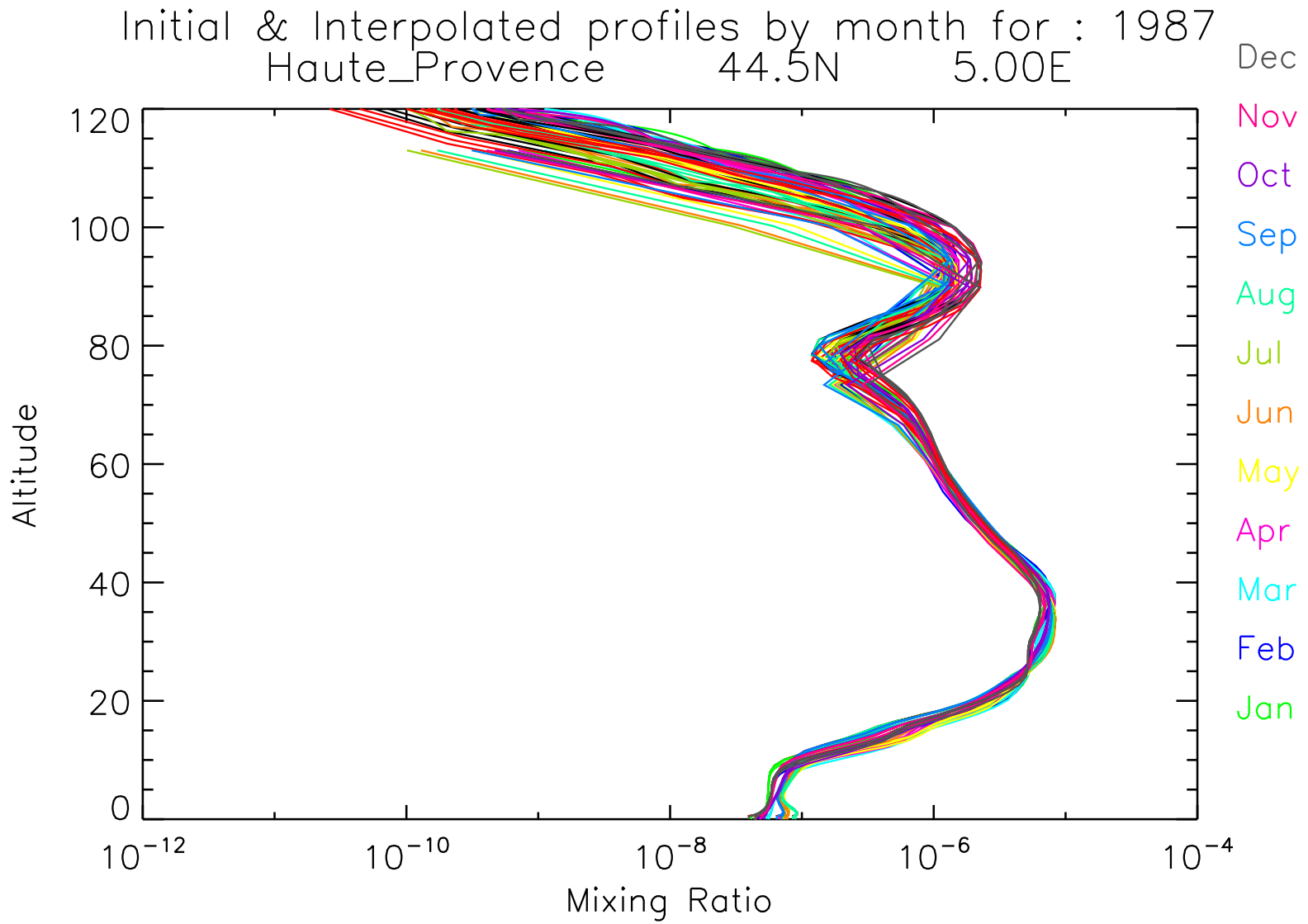
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Mixing Ratio
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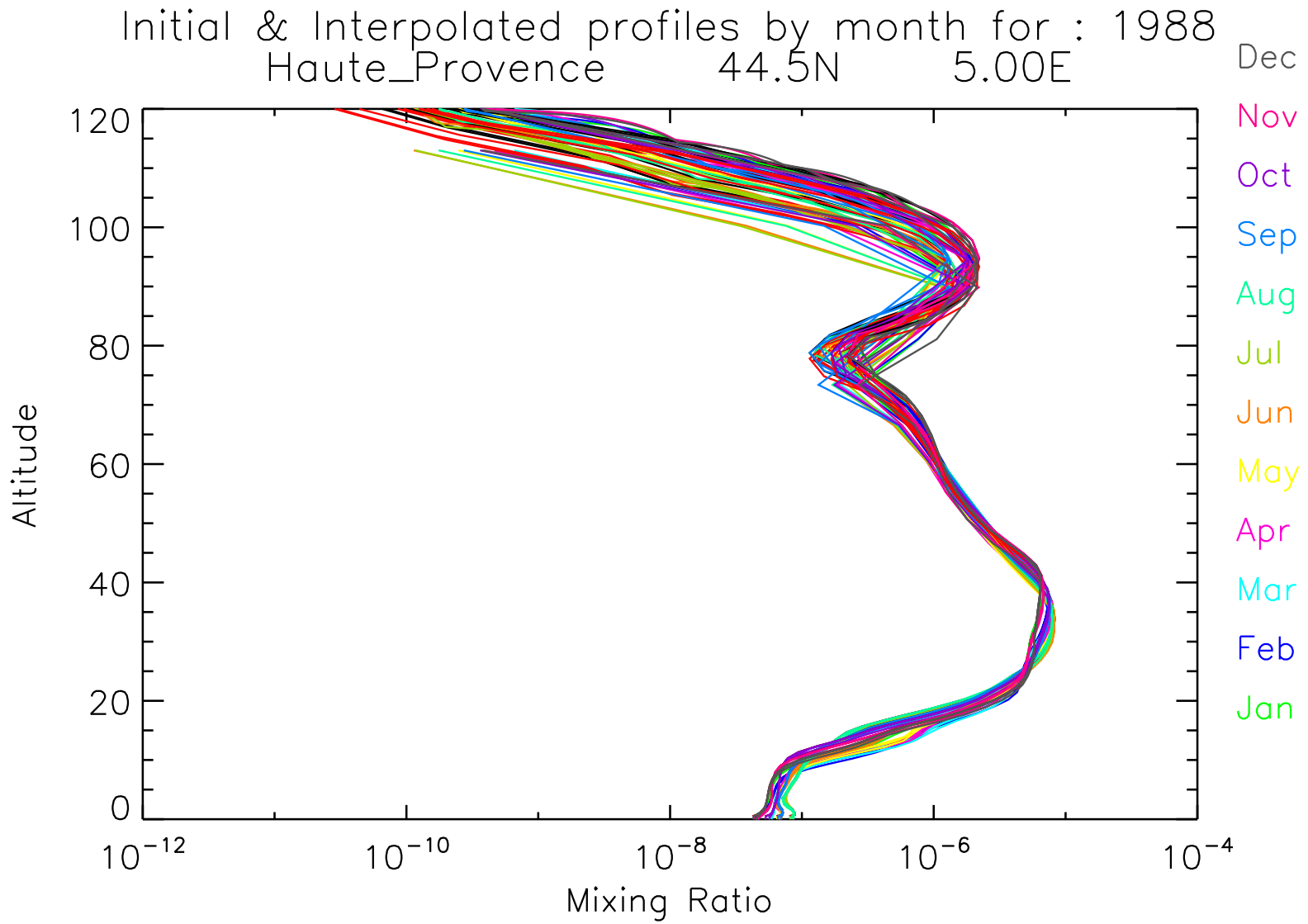
Initial & Interpolated profiles by month for : 1988
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Altitude
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Mixing Ratio
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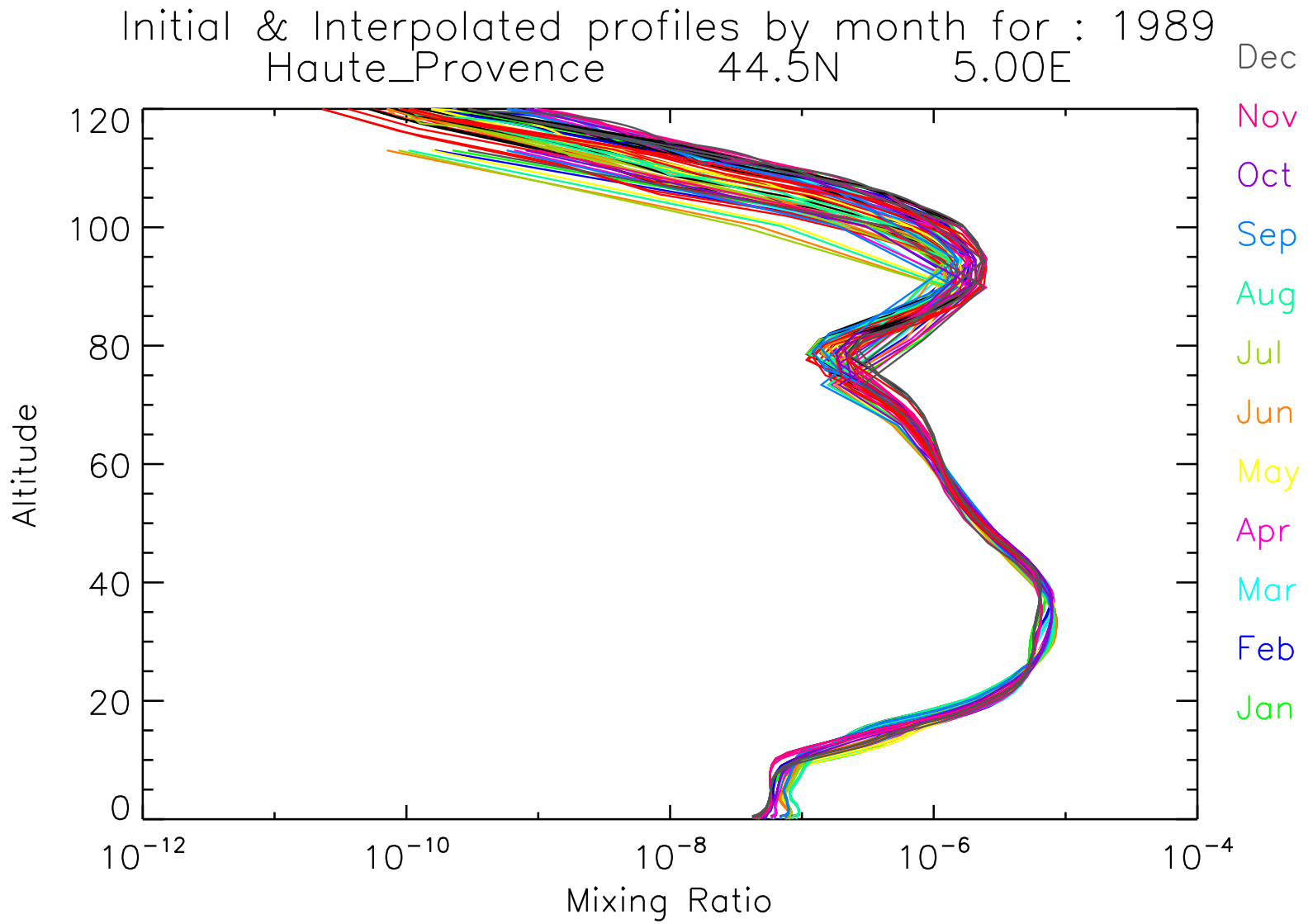
Initial & Interpolated profiles by month for : 1989
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Altitude
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Mixing Ratio
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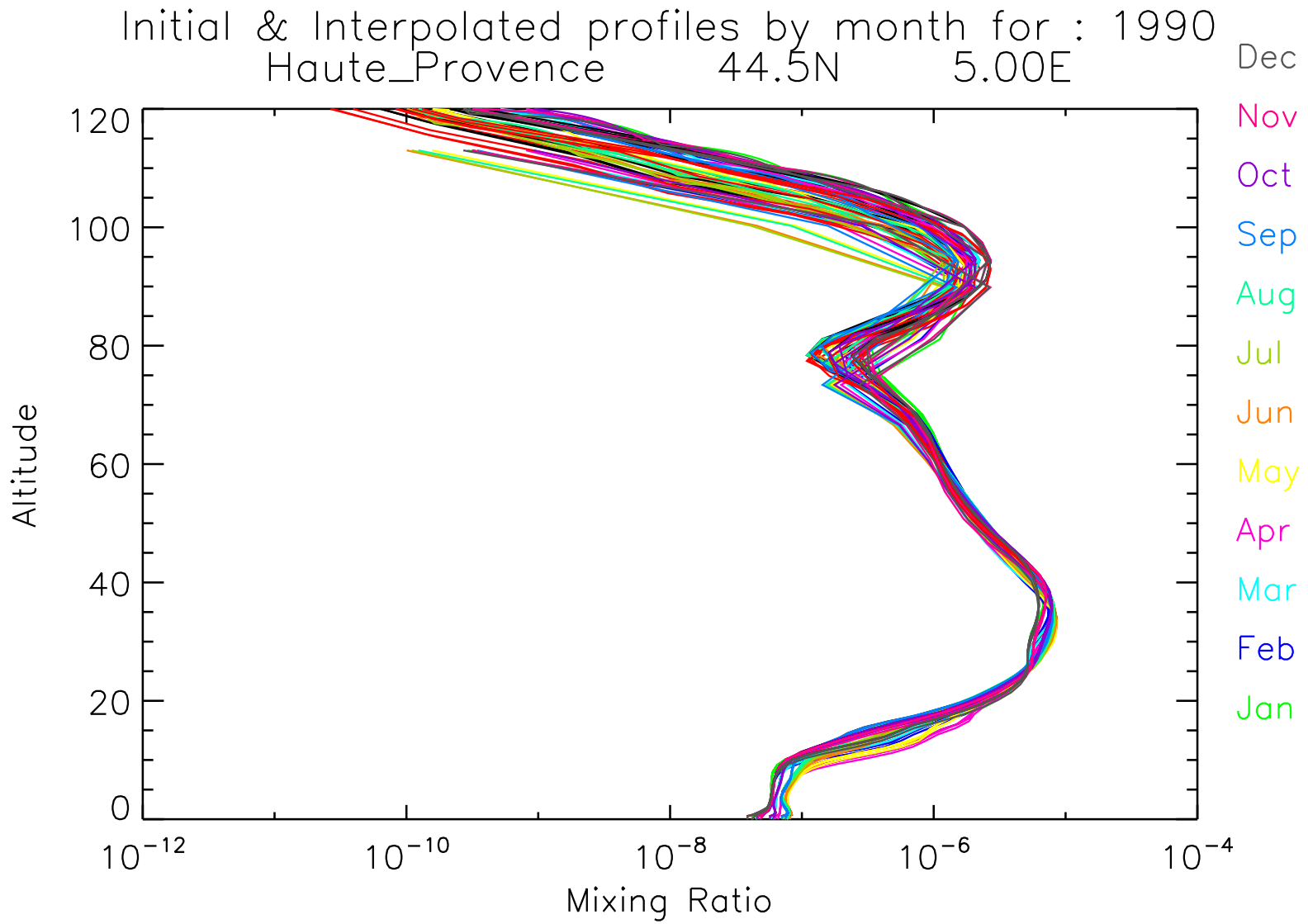
Initial & Interpolated profiles by month for : 1990
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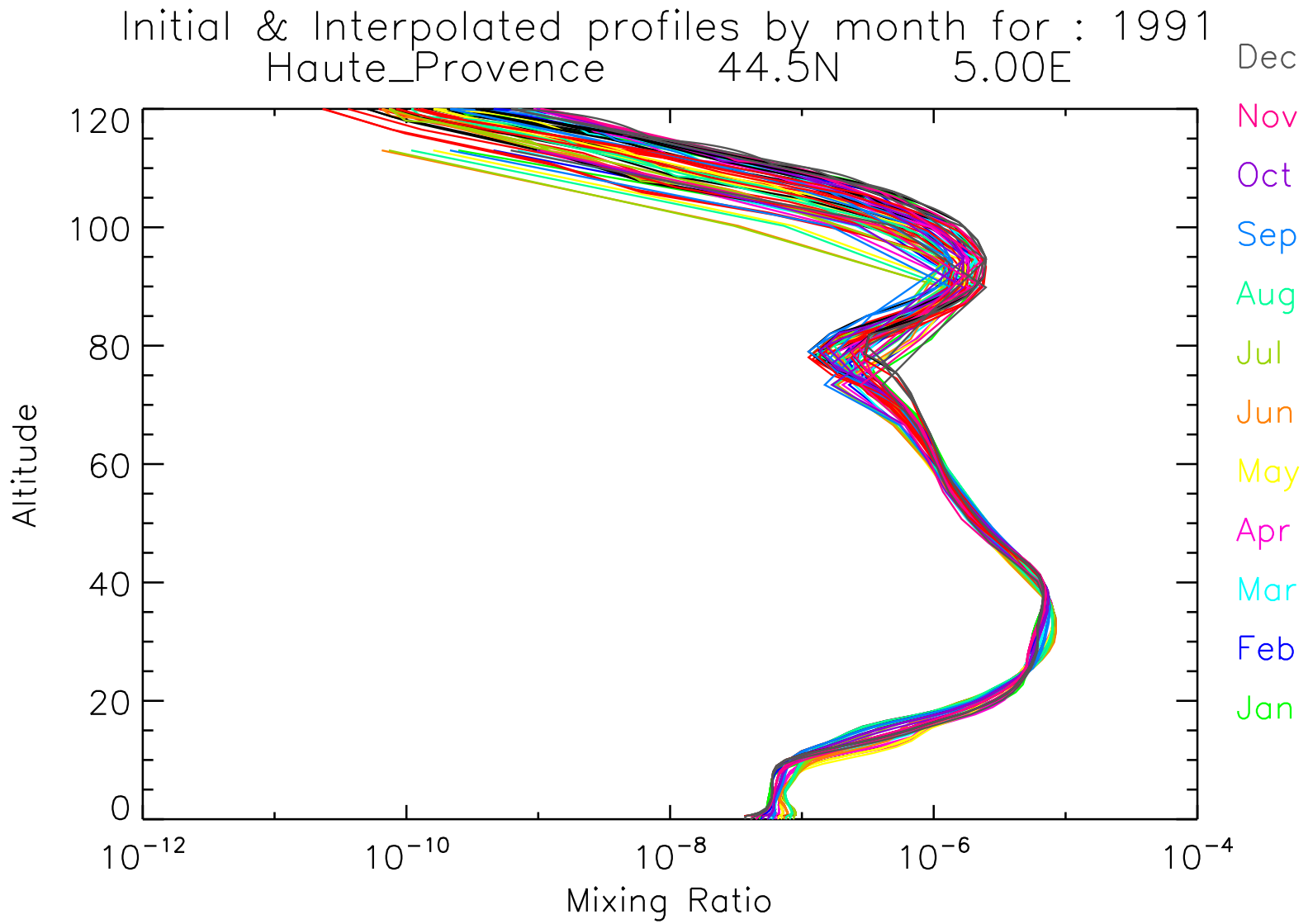
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
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Altitude
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Mixing Ratio
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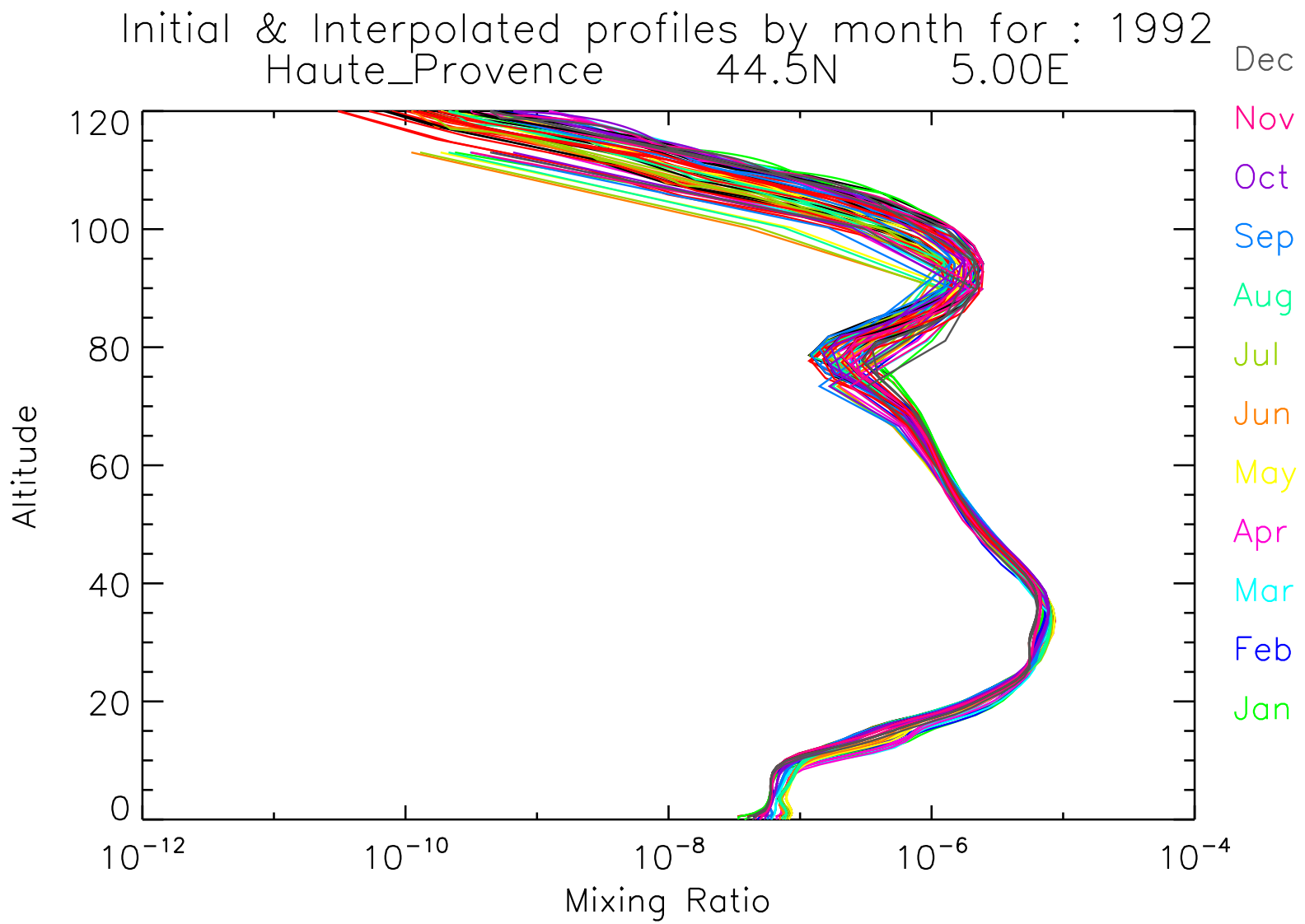
Initial & Interpolated profiles by month for : 1992
Haute_Provence 44.5N 5.00E
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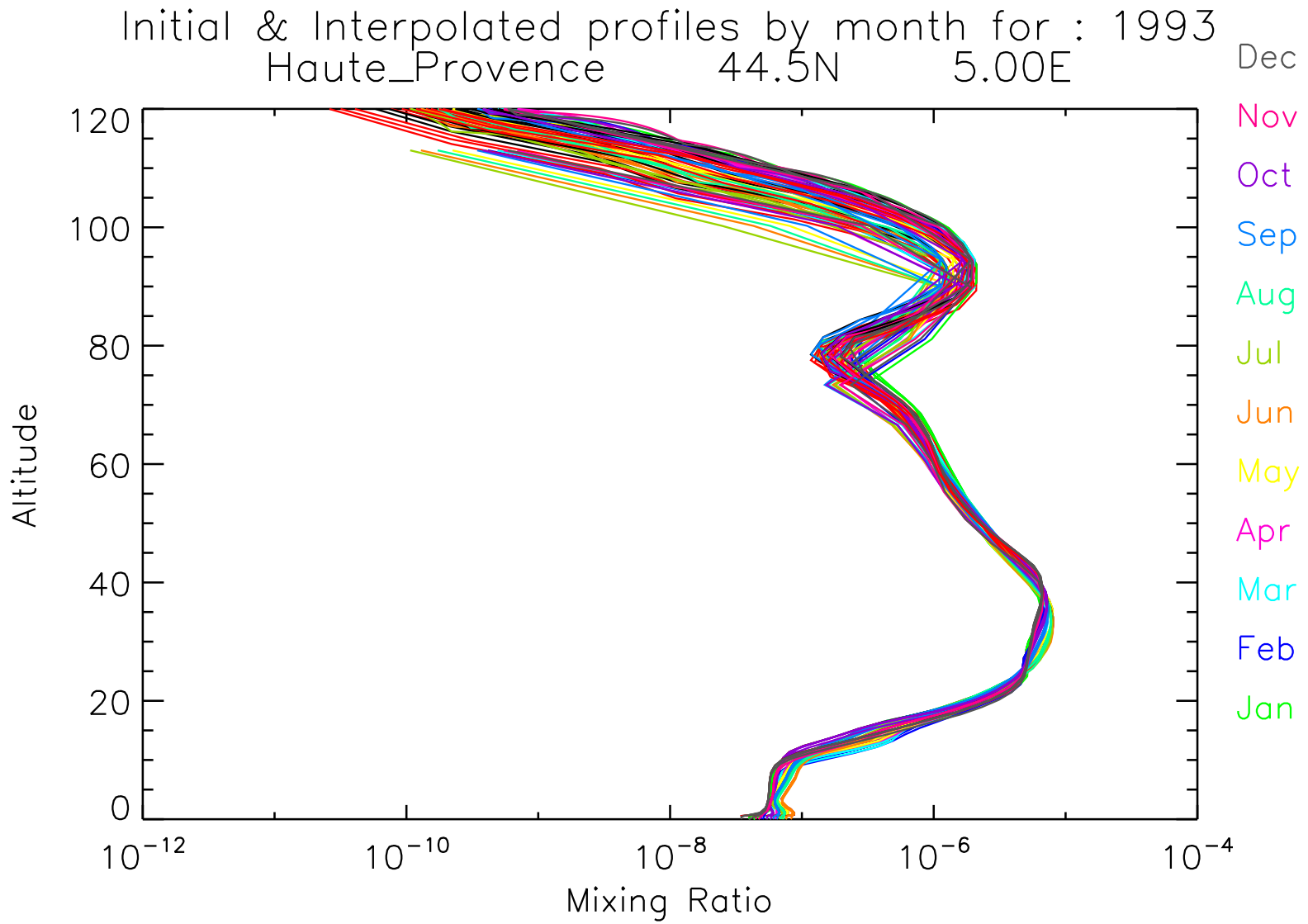
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
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Mixing Ratio
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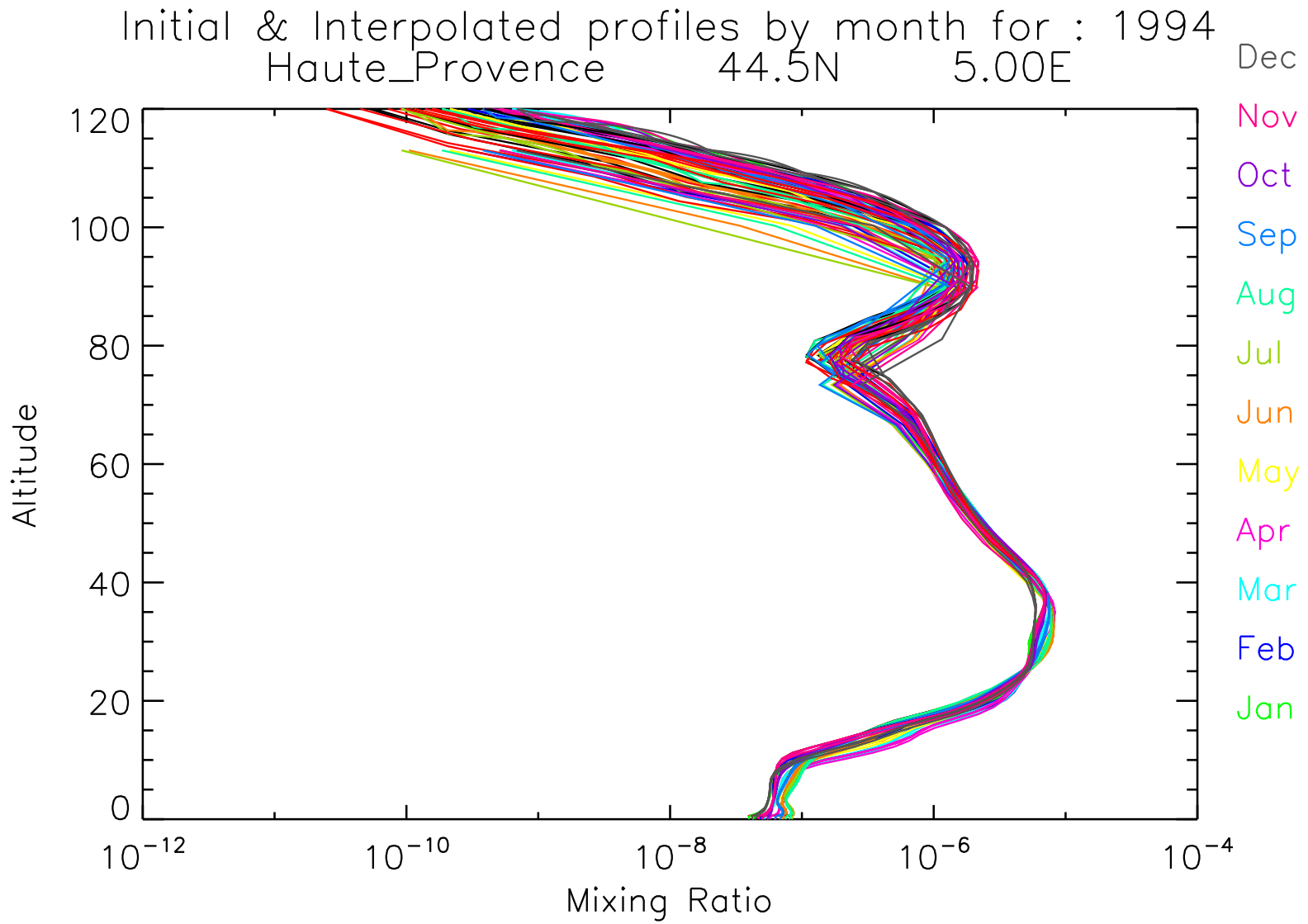
Initial & Interpolated profiles by month for : 1994
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Altitude
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Mixing Ratio
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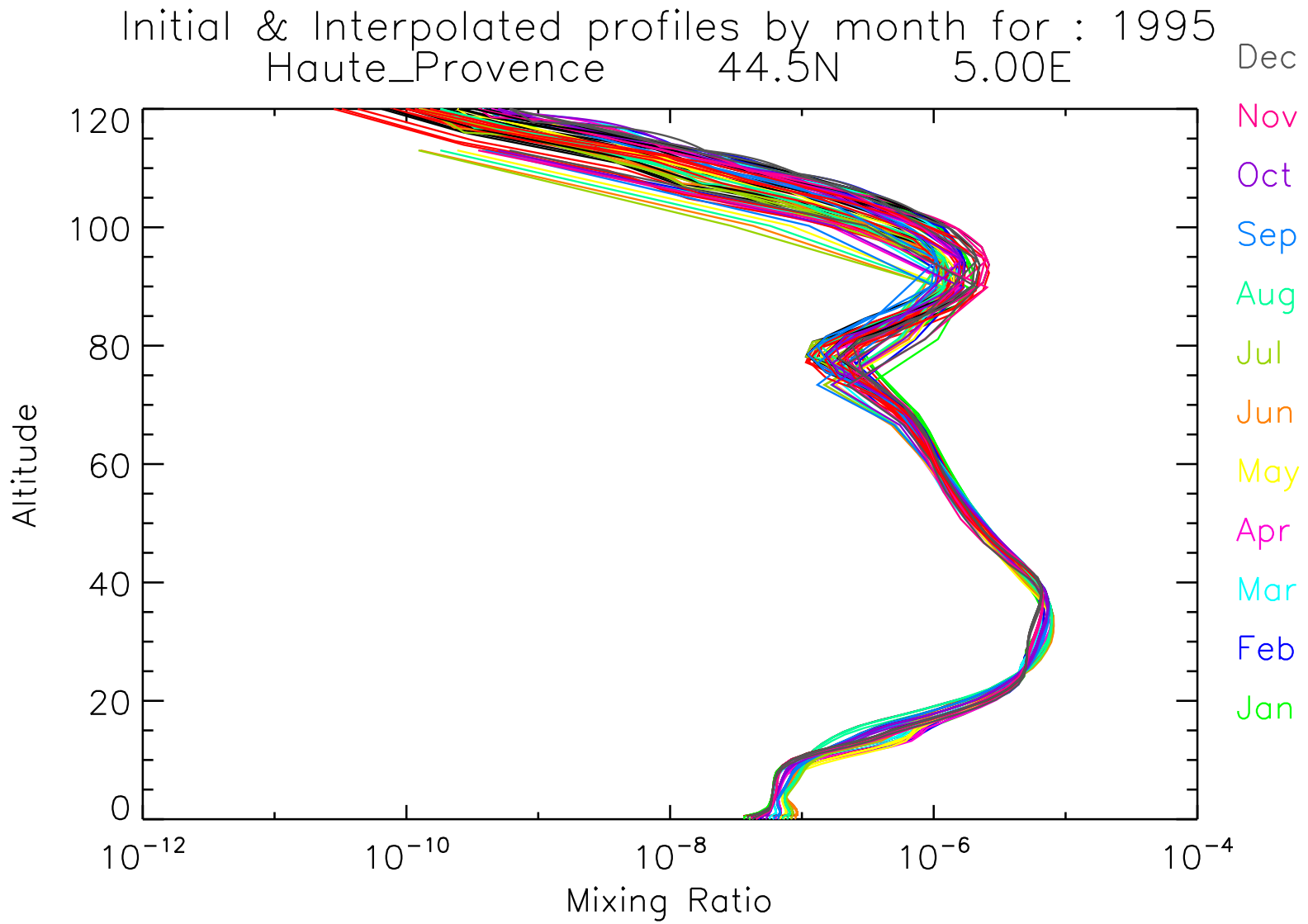
Initial & Interpolated profiles by month for : 1995
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Altitude
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Mixing Ratio
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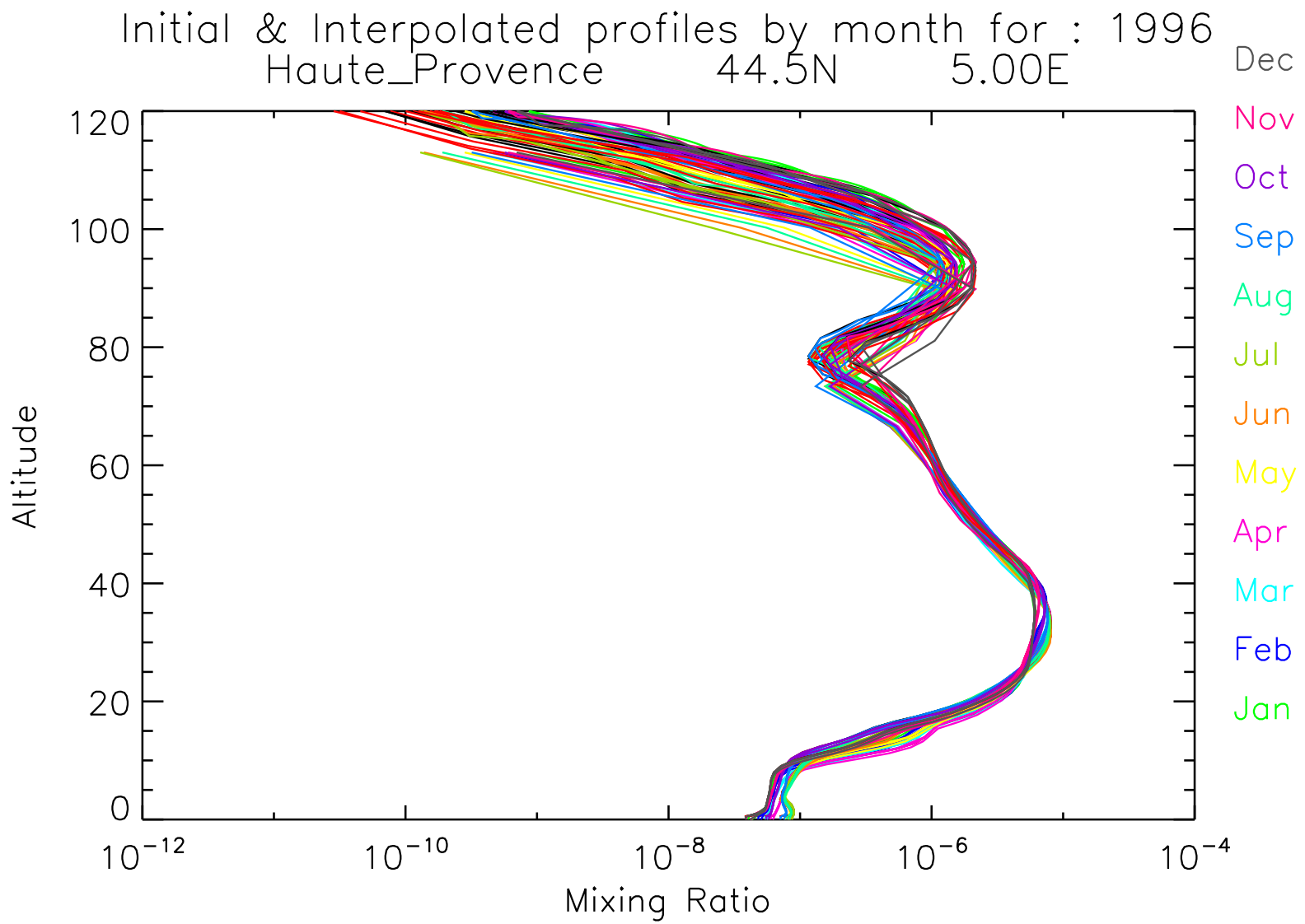
Initial & Interpolated profiles by month for : 1996
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Altitude
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Mixing Ratio
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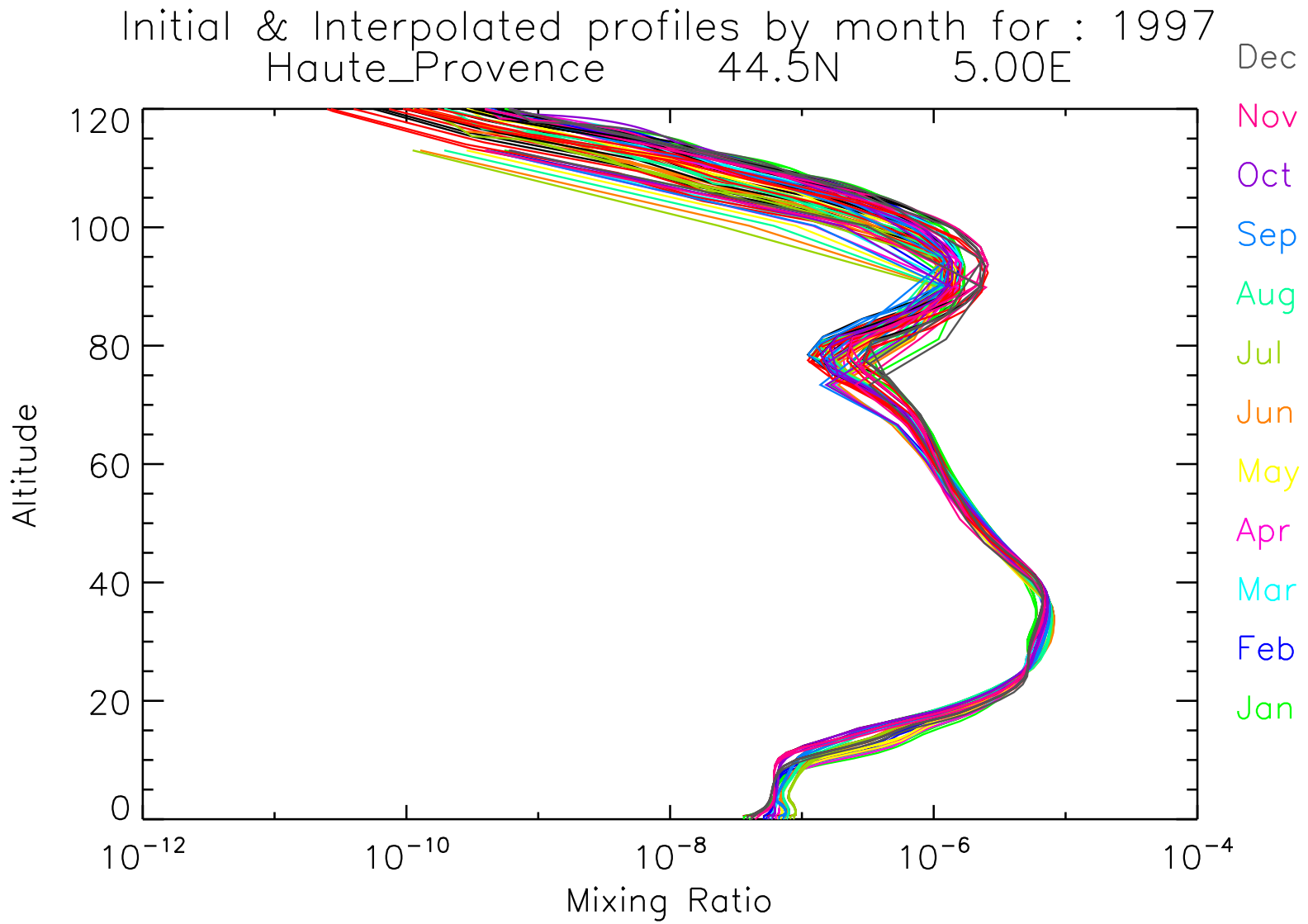
Initial & Interpolated profiles by month for : 1997
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Mixing Ratio
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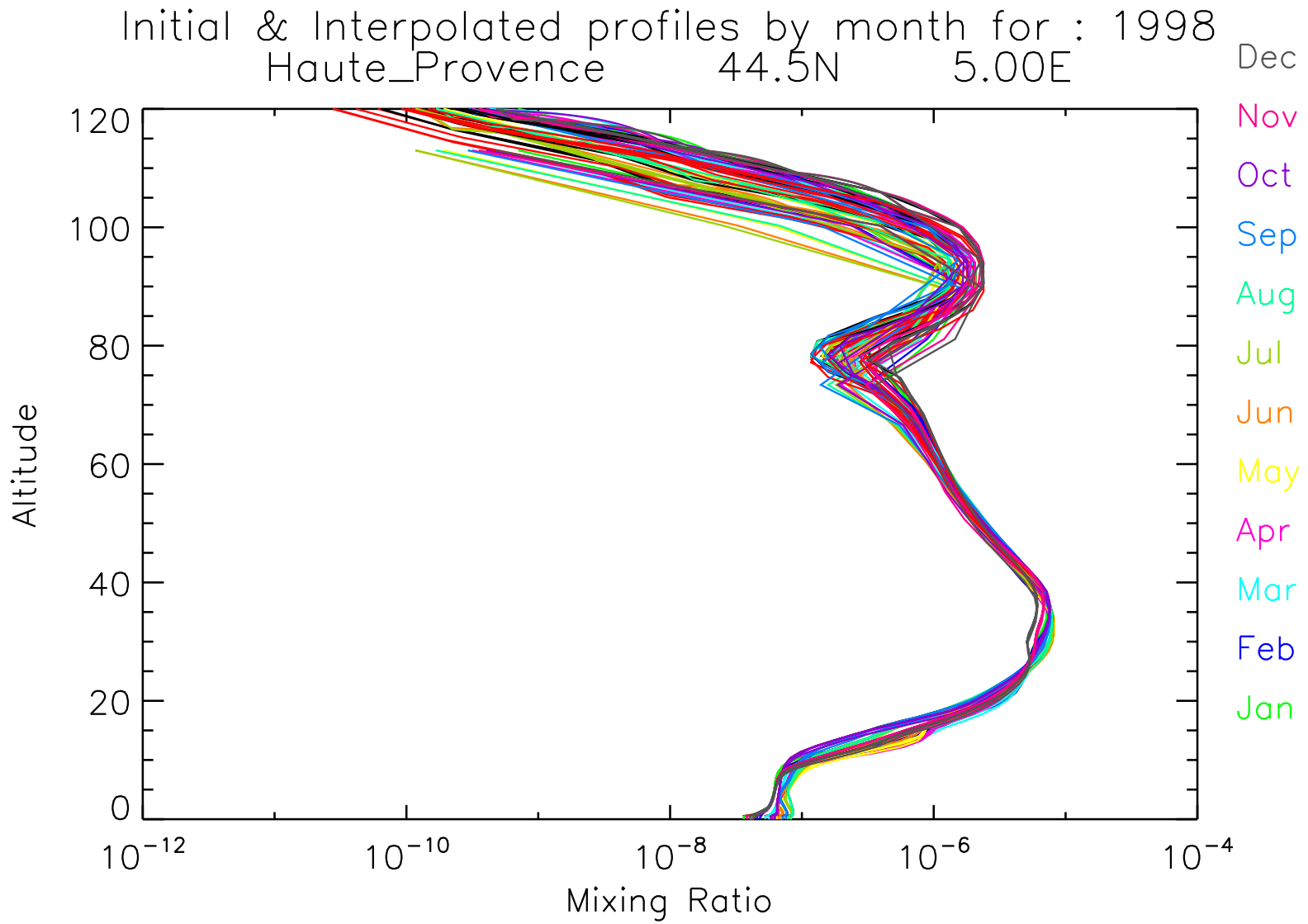
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Mixing Ratio
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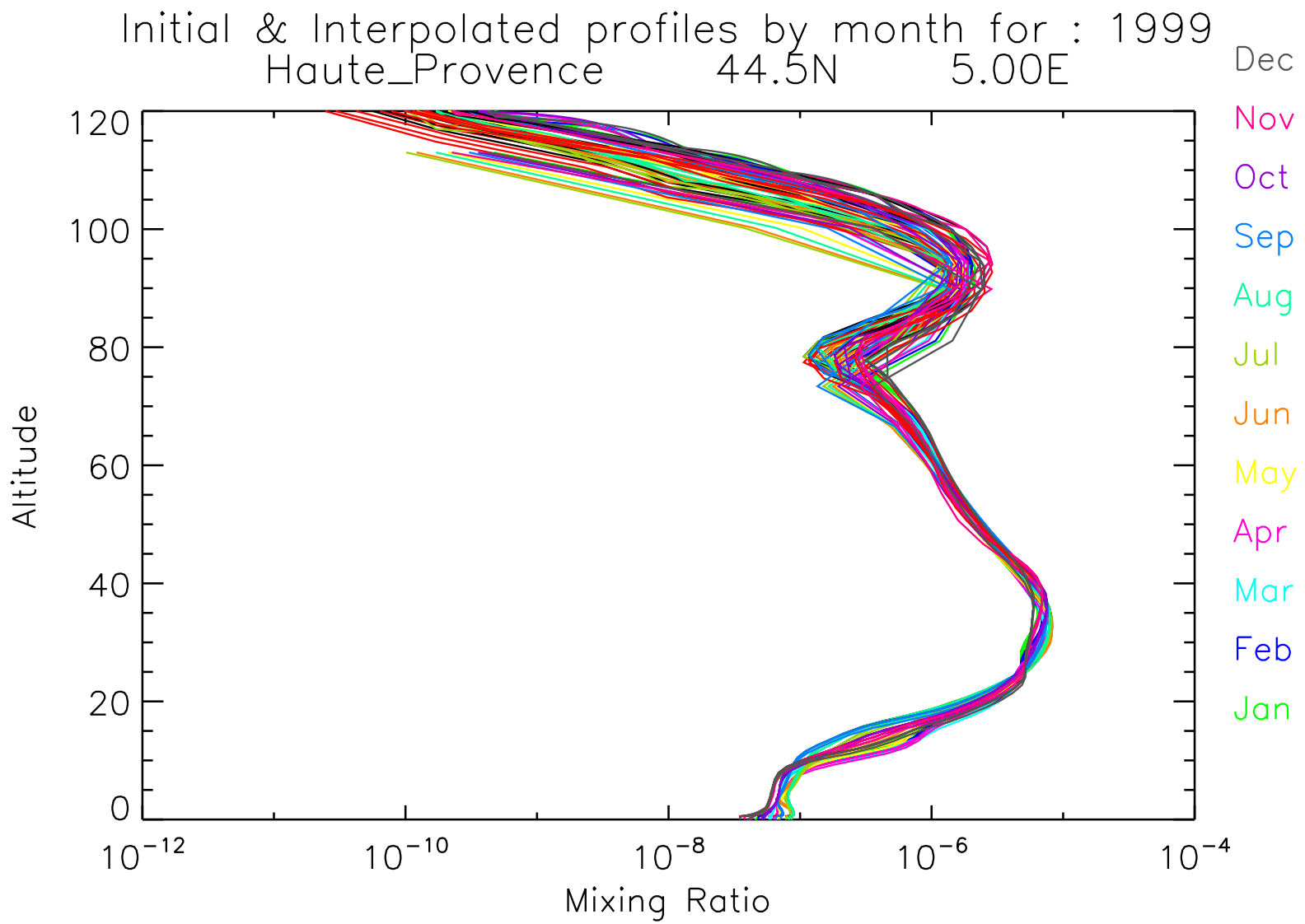
Initial & Interpolated profiles by month for : 1999
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Mixing Ratio
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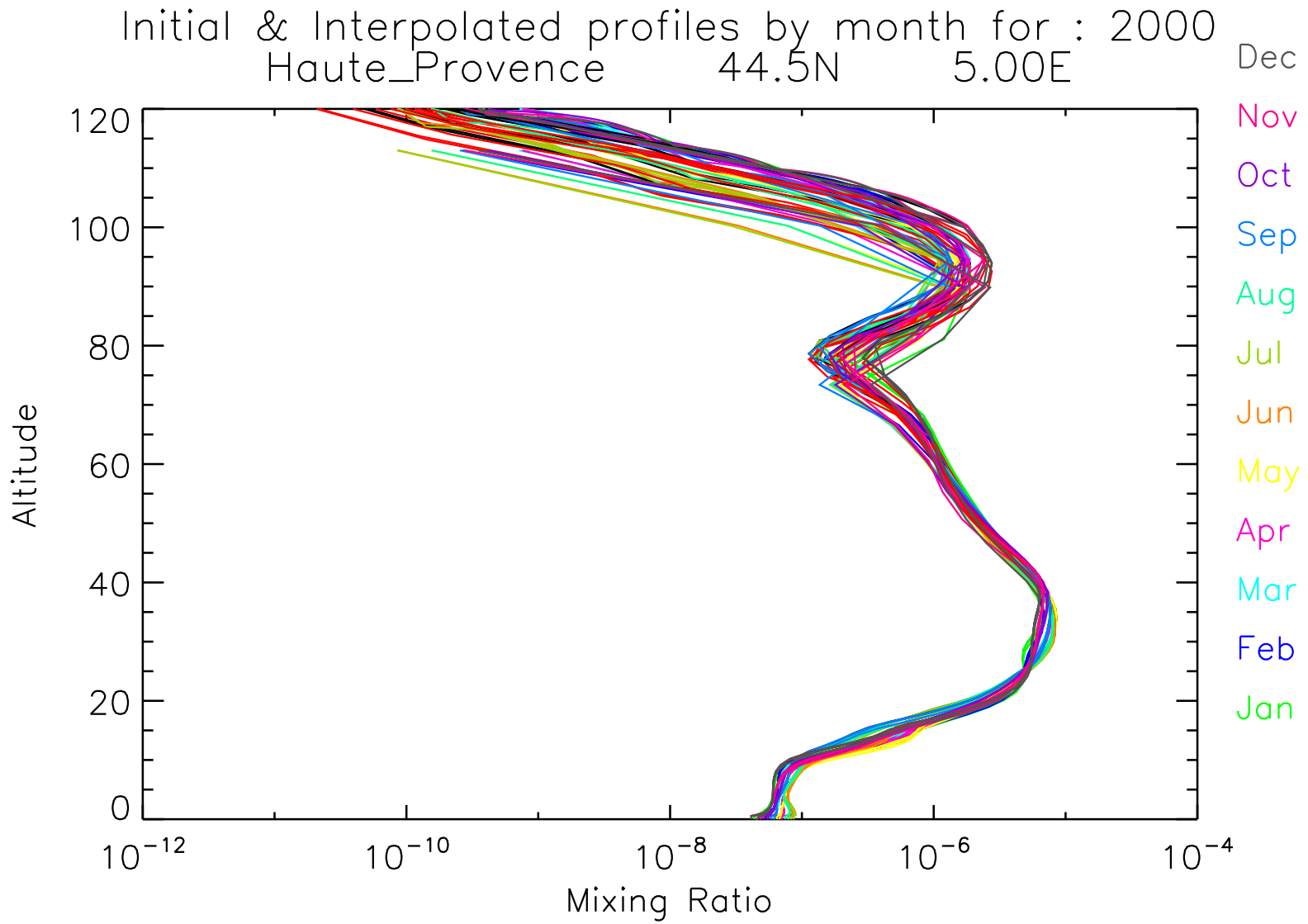
Initial & Interpolated profiles by month for : 2000
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Mixing Ratio
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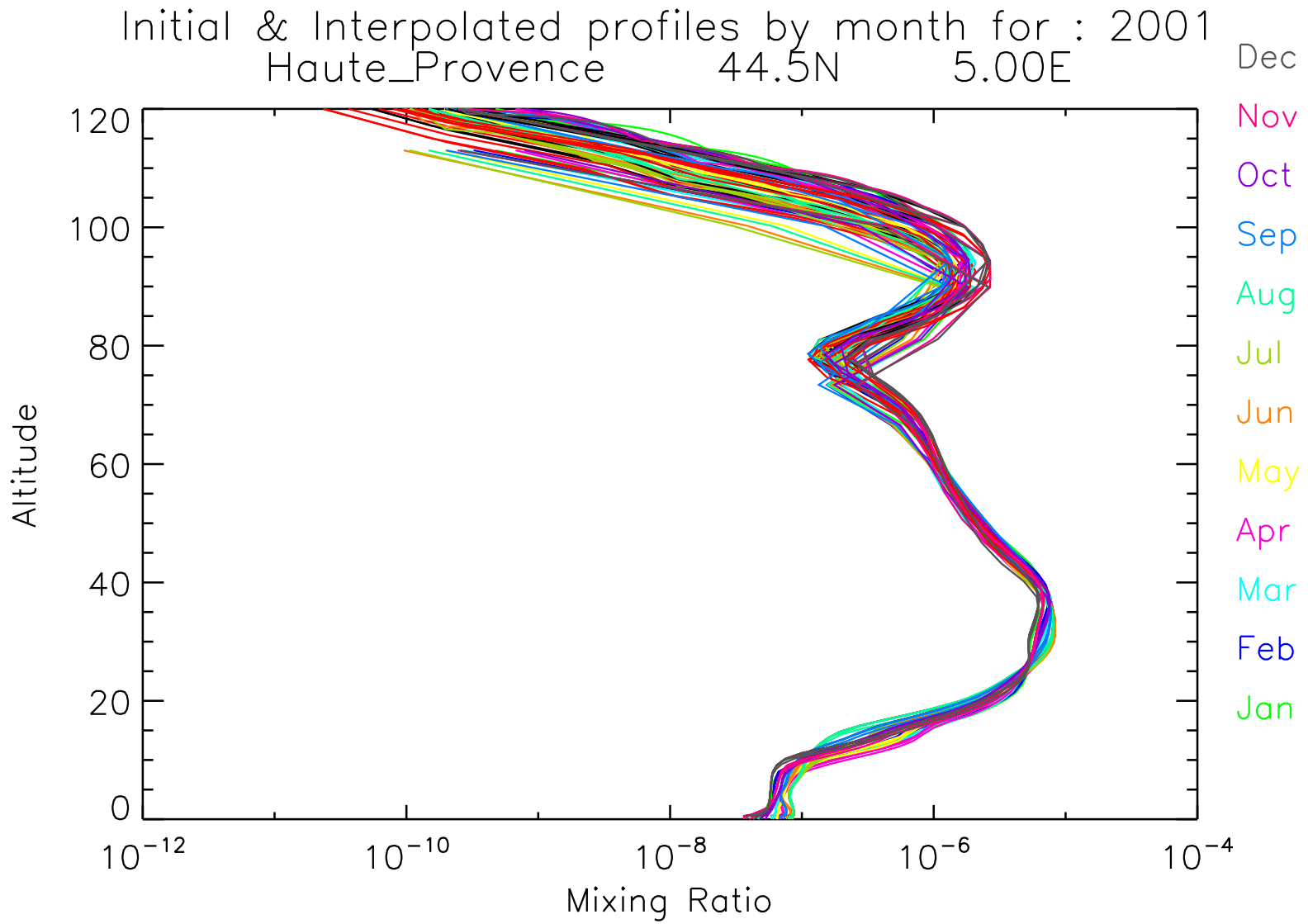
Initial & Interpolated profiles by month for : 2001
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Mixing Ratio
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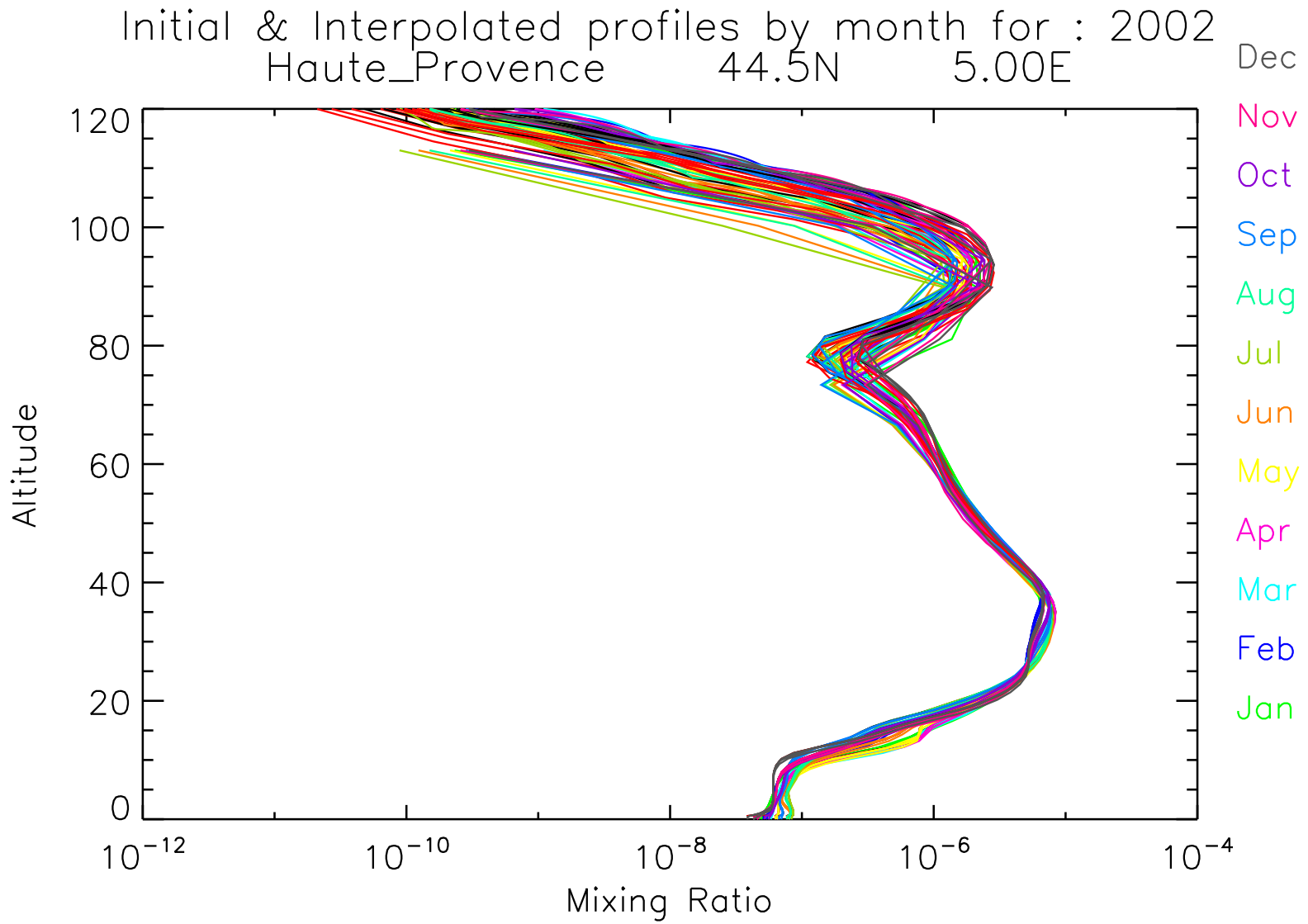
Initial & Interpolated profiles by month for : 2002
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Altitude
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Mixing Ratio
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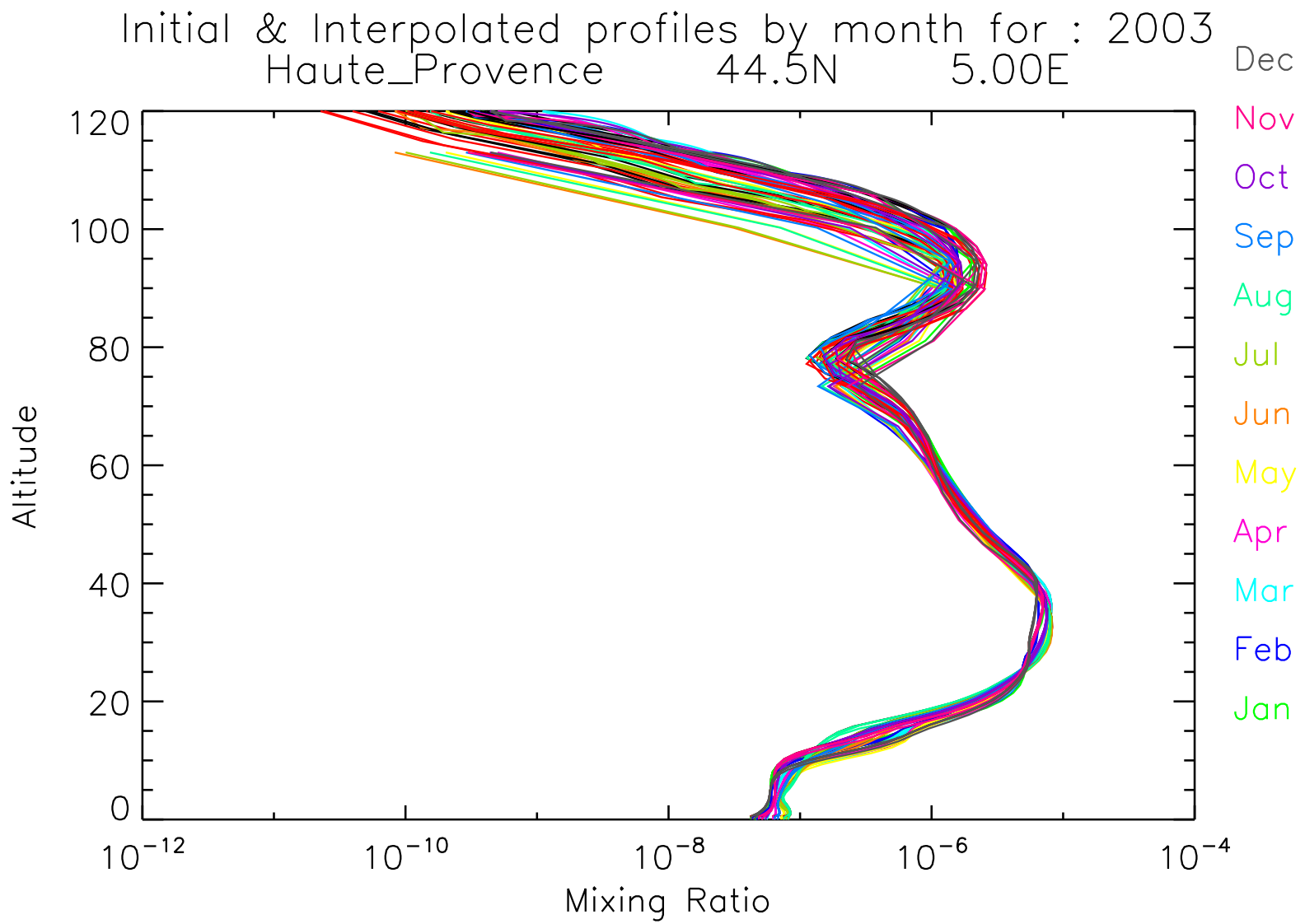
Initial & Interpolated profiles by month for : 2003
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Altitude
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Mixing Ratio
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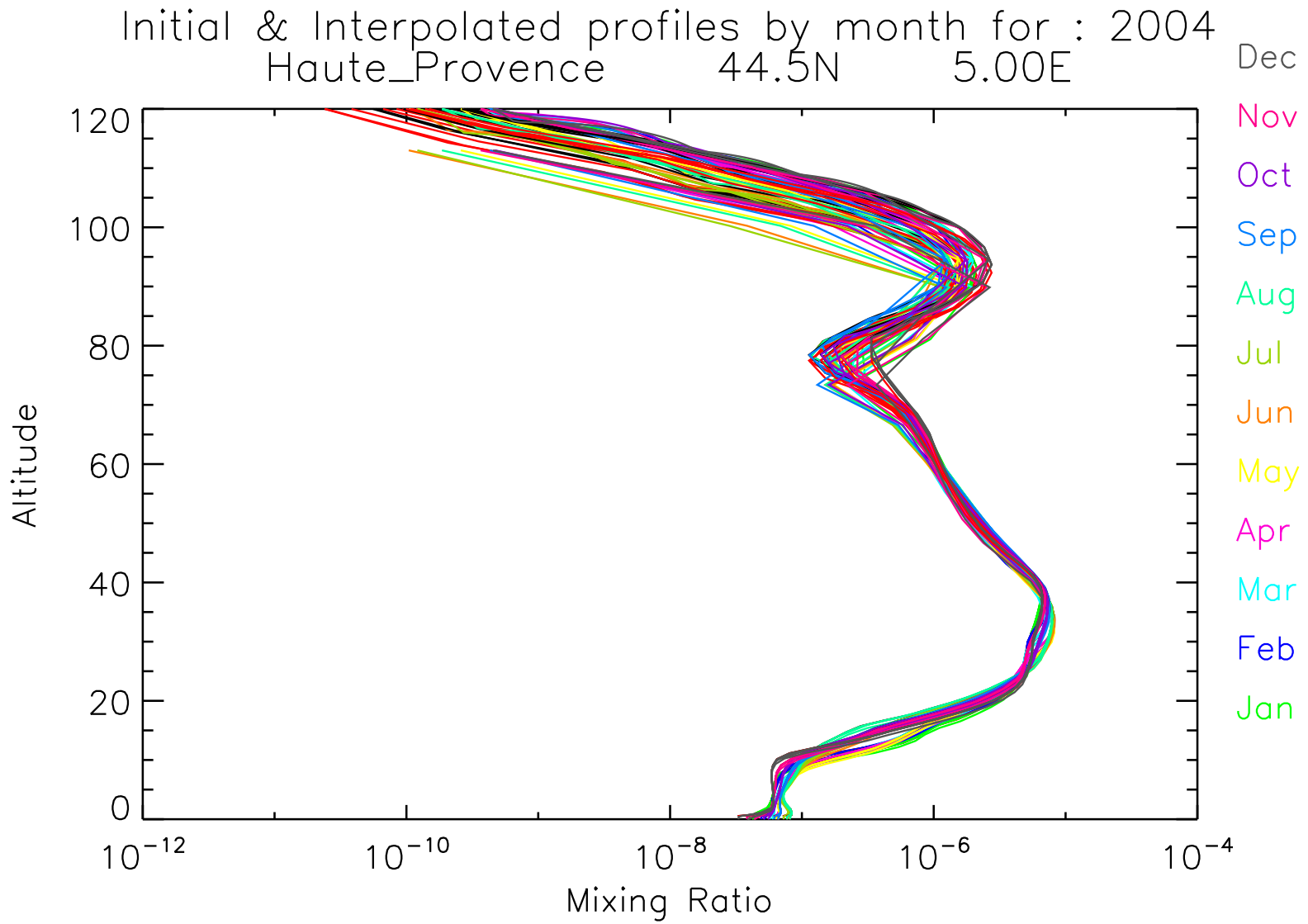
Initial & Interpolated profiles by month for : 2004
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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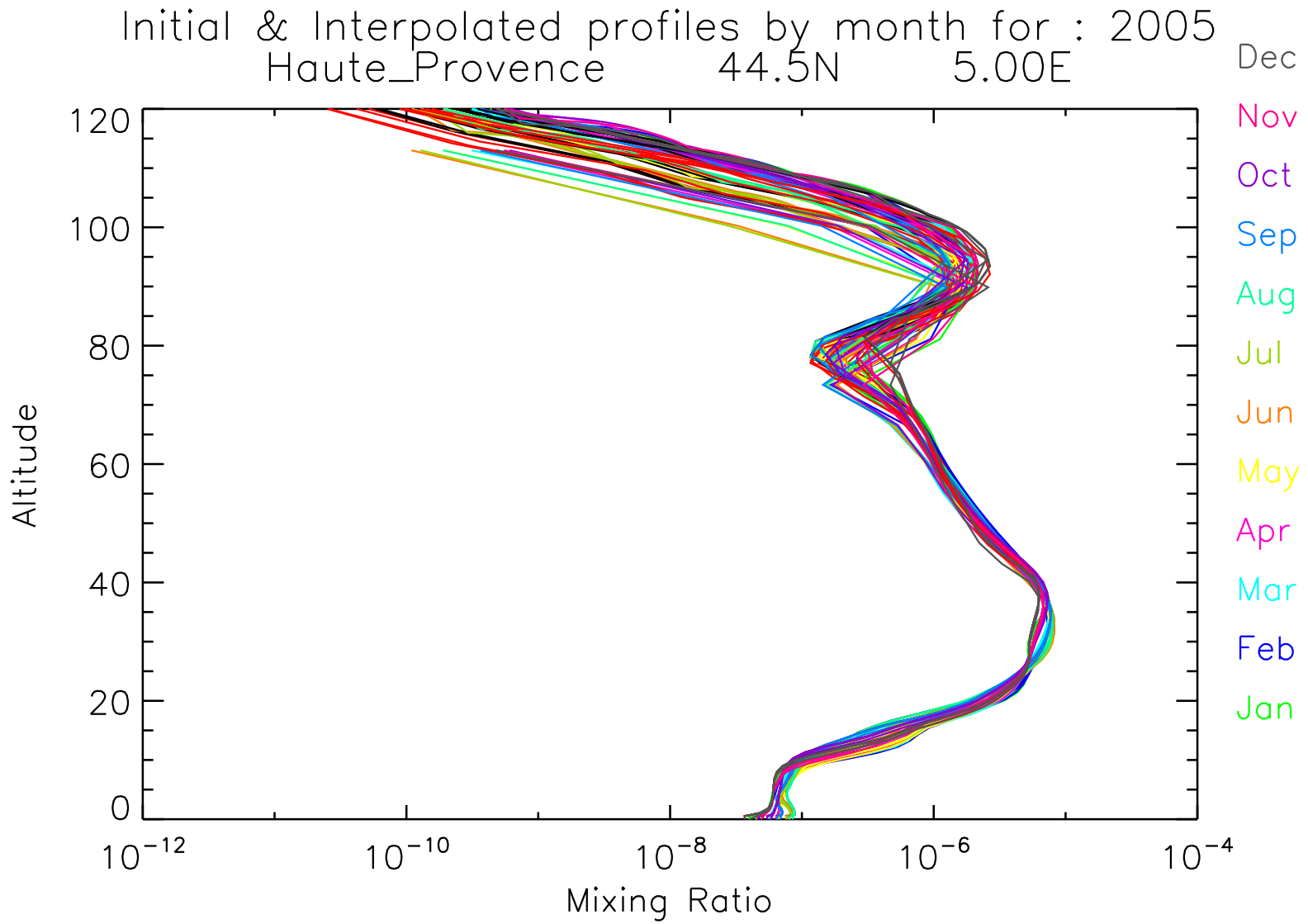
Initial & Interpolated profiles by month for : 2005
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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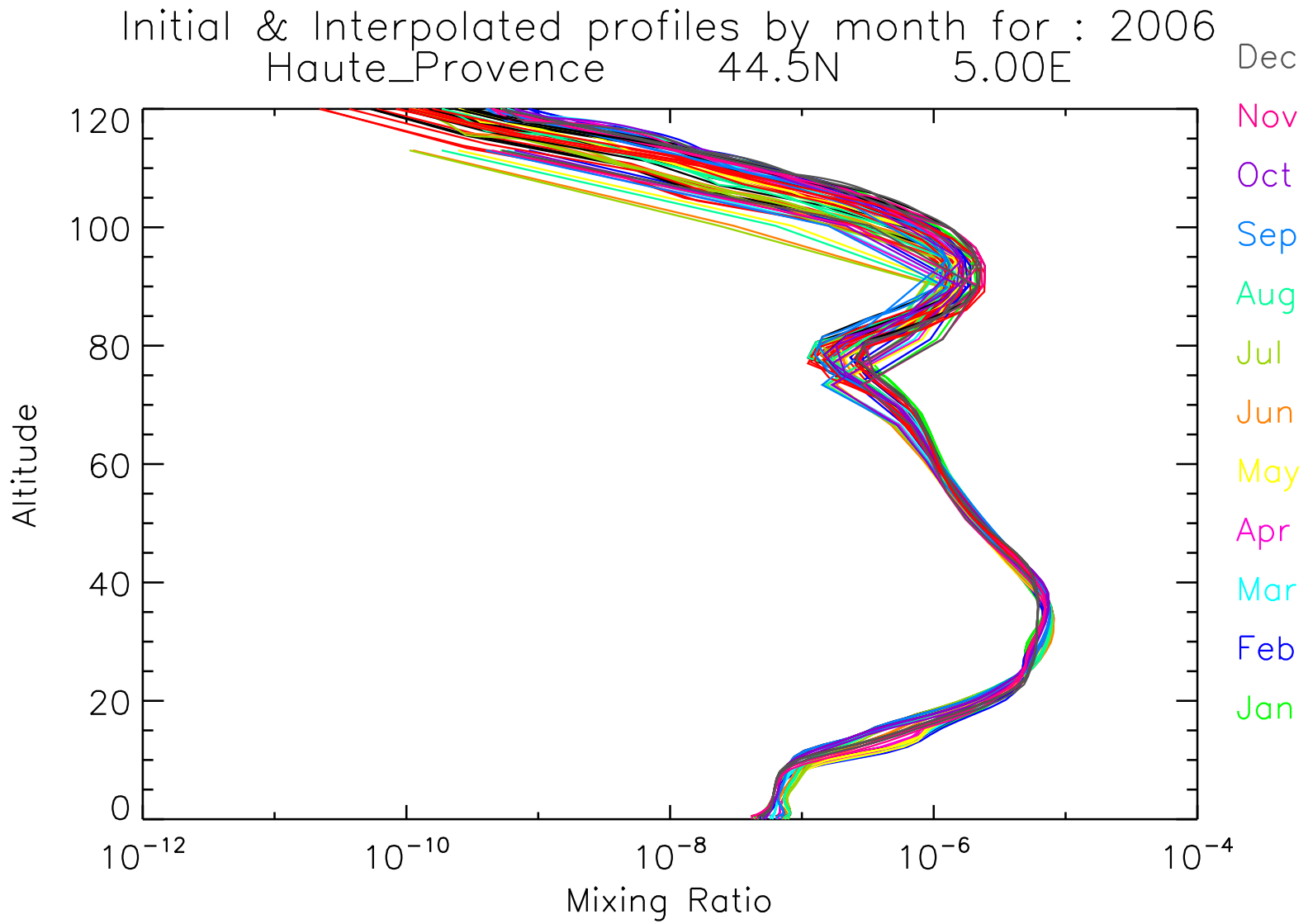
Initial & Interpolated profiles by month for : 2006
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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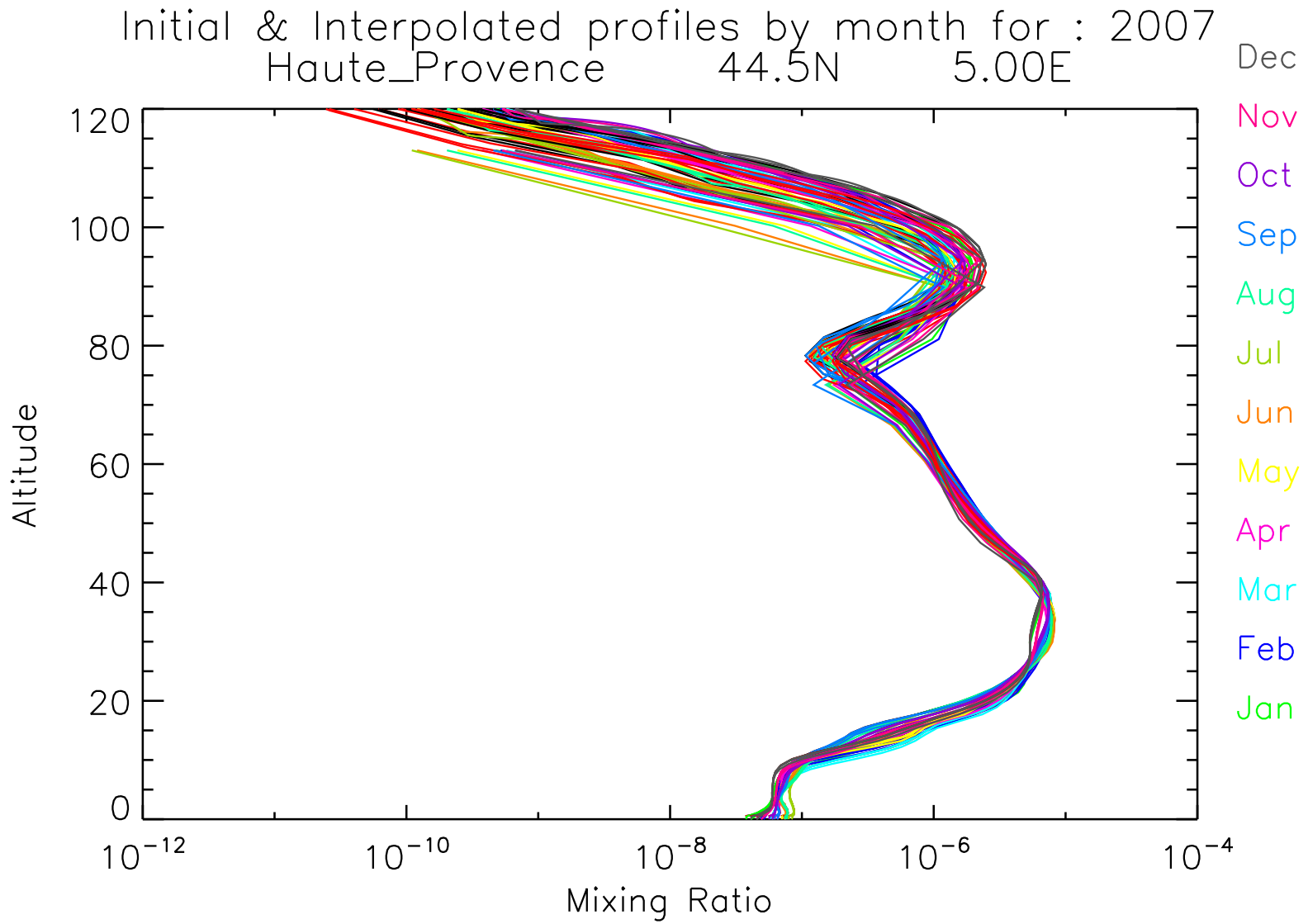
Initial & Interpolated profiles by month for : 2007
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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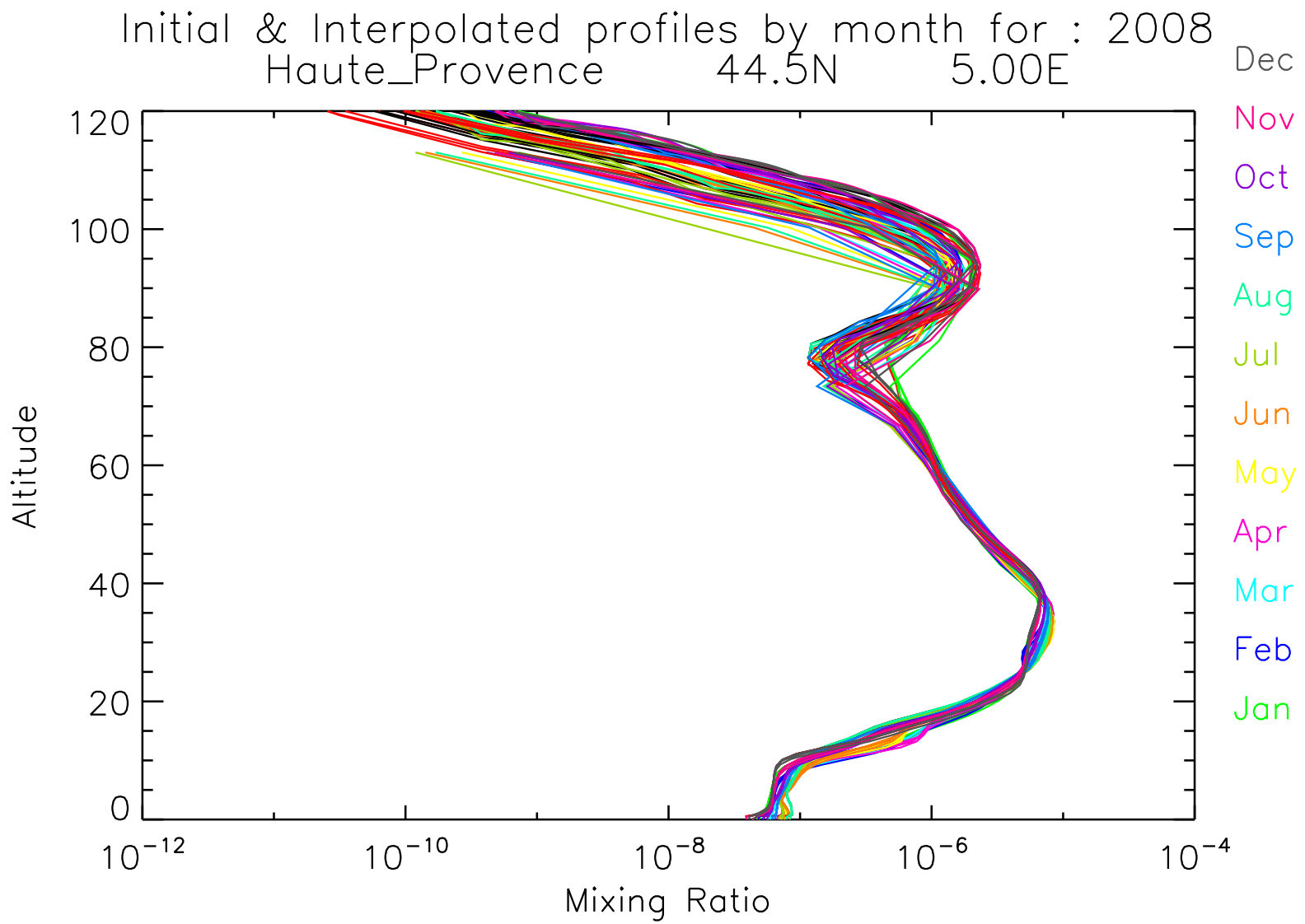
Initial & Interpolated profiles by month for : 2008
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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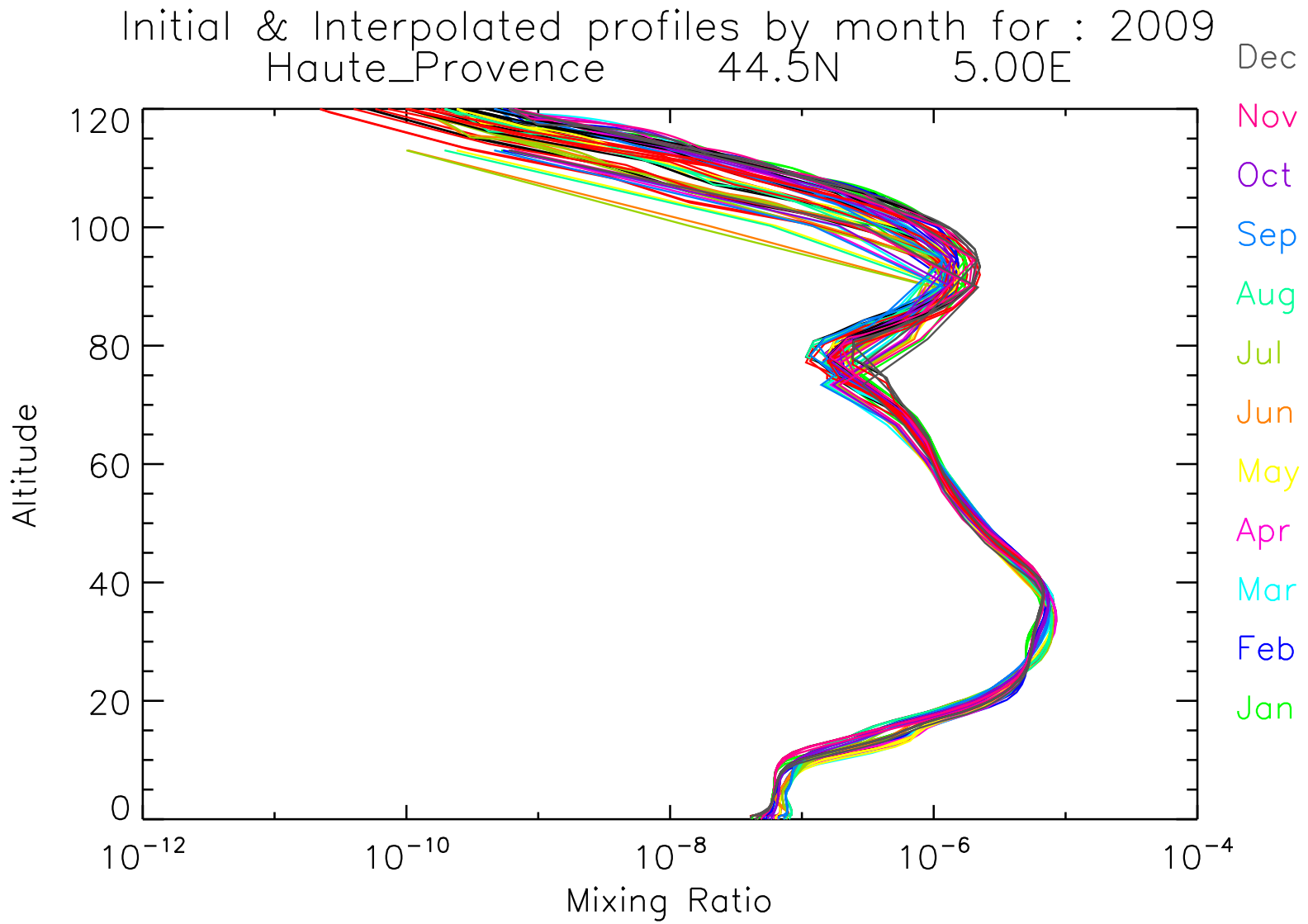
Initial & Interpolated profiles by month for : 2009
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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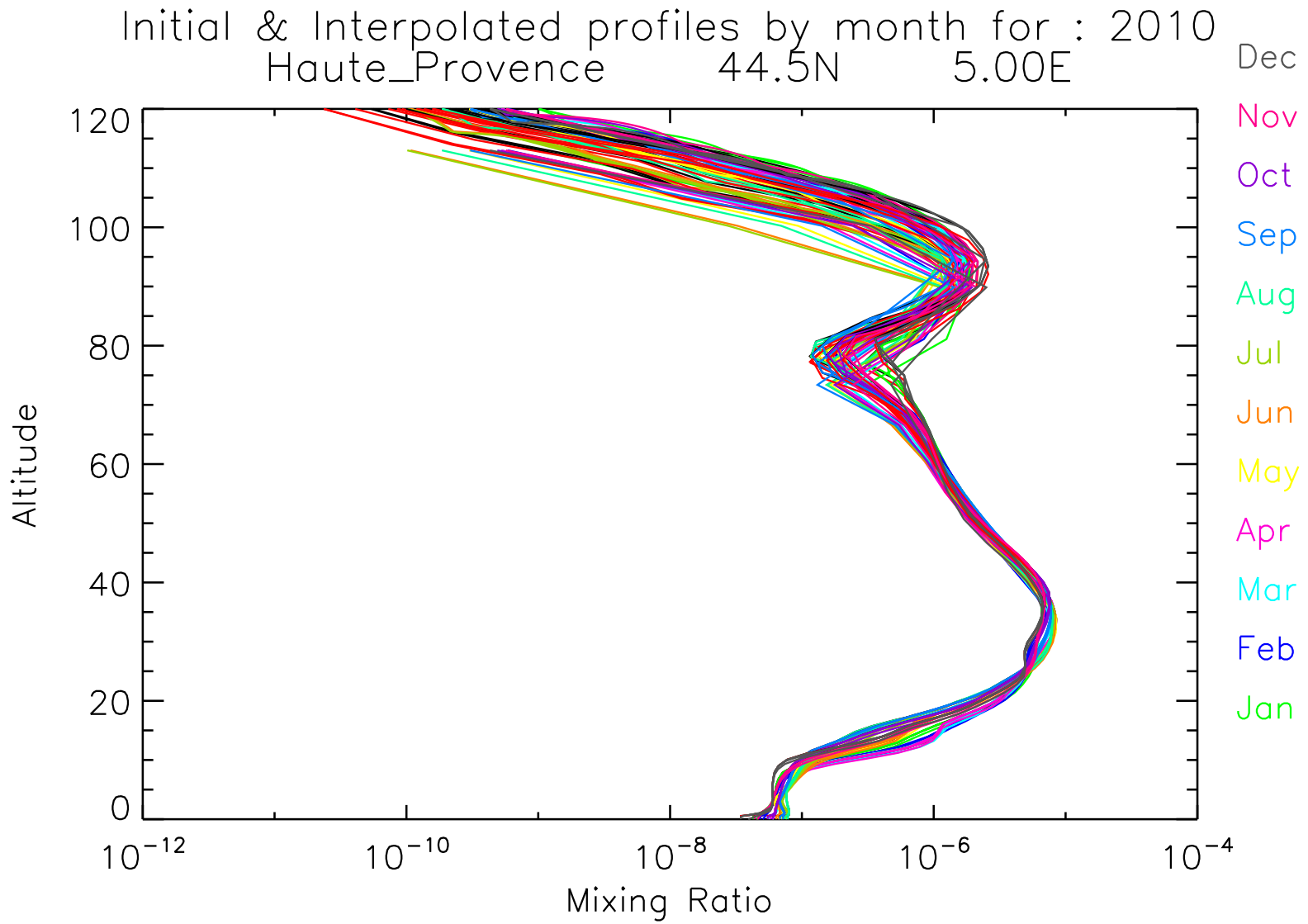
Initial & Interpolated profiles by month for : 2010
Haute_Provence 44.5N 5.00E
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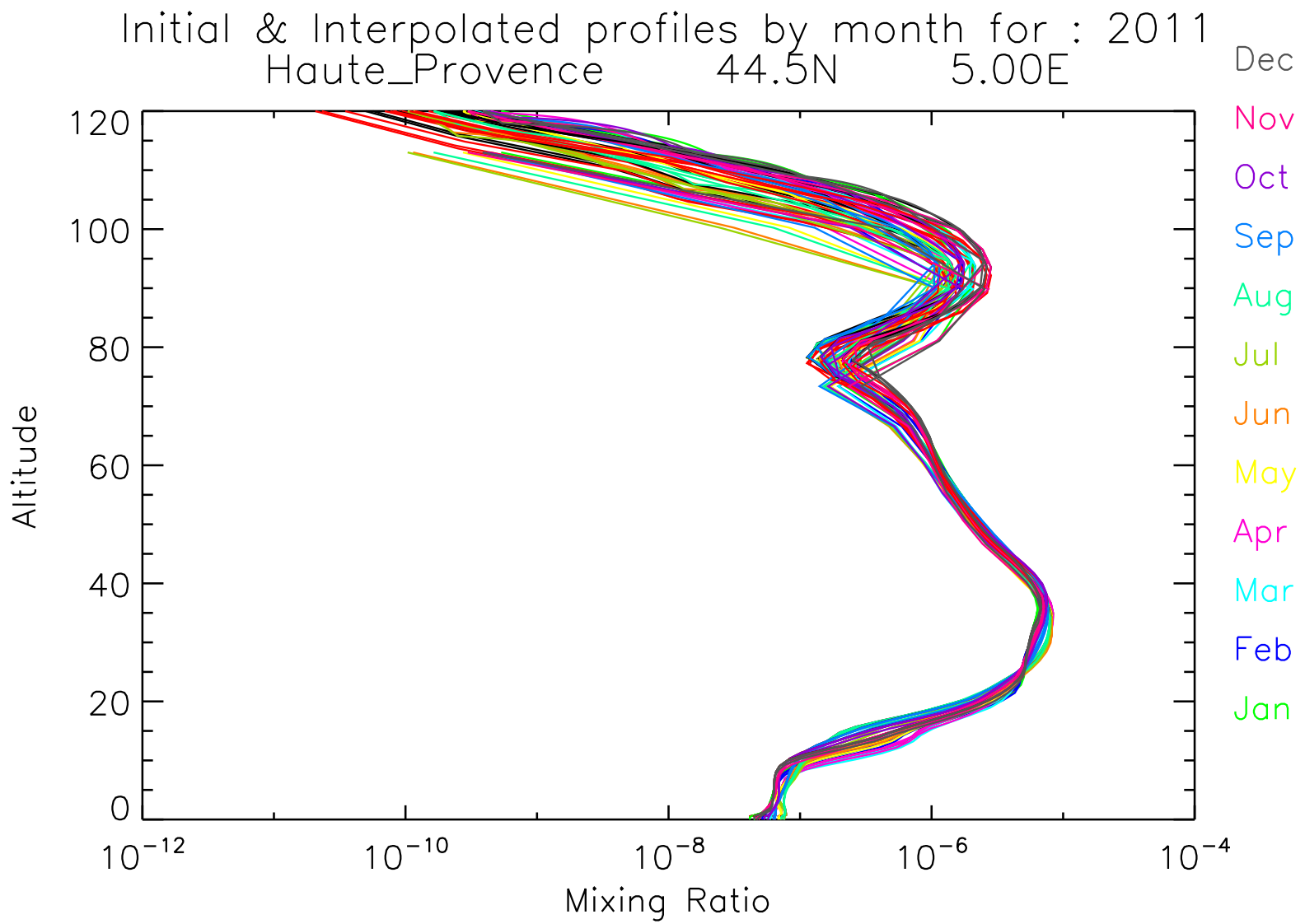
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Haute_Provence 44.5N 5.00E
Altitude
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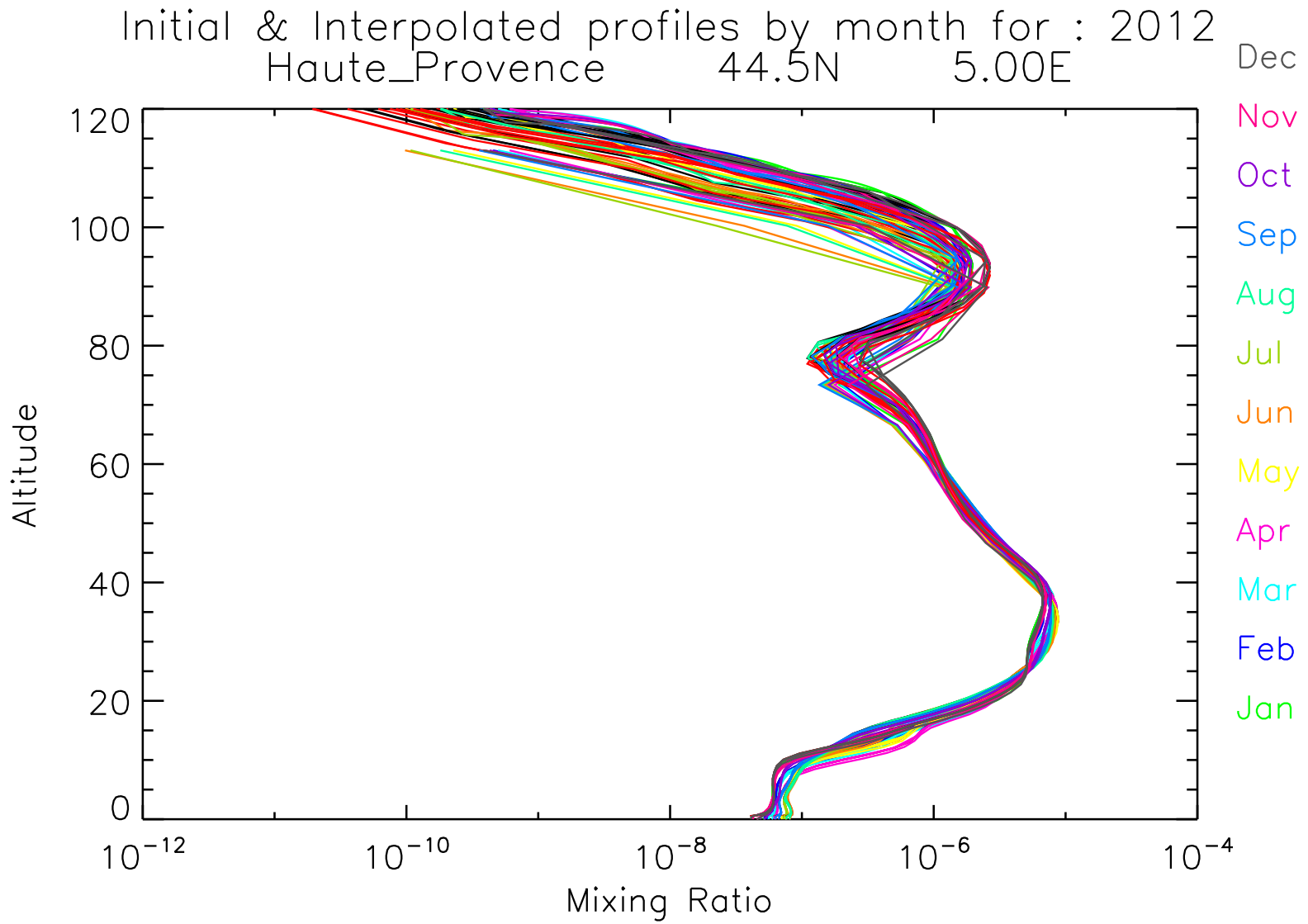
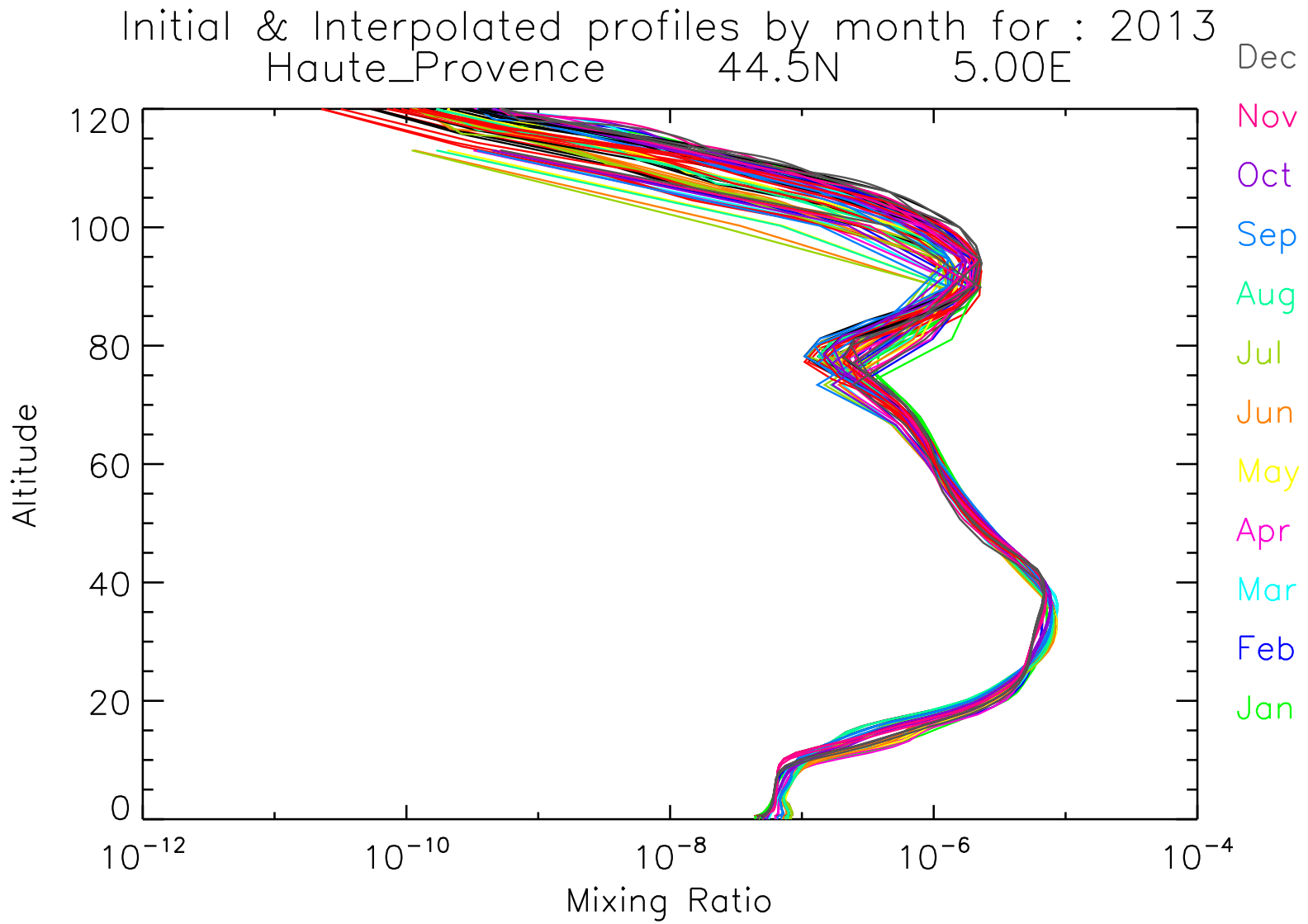
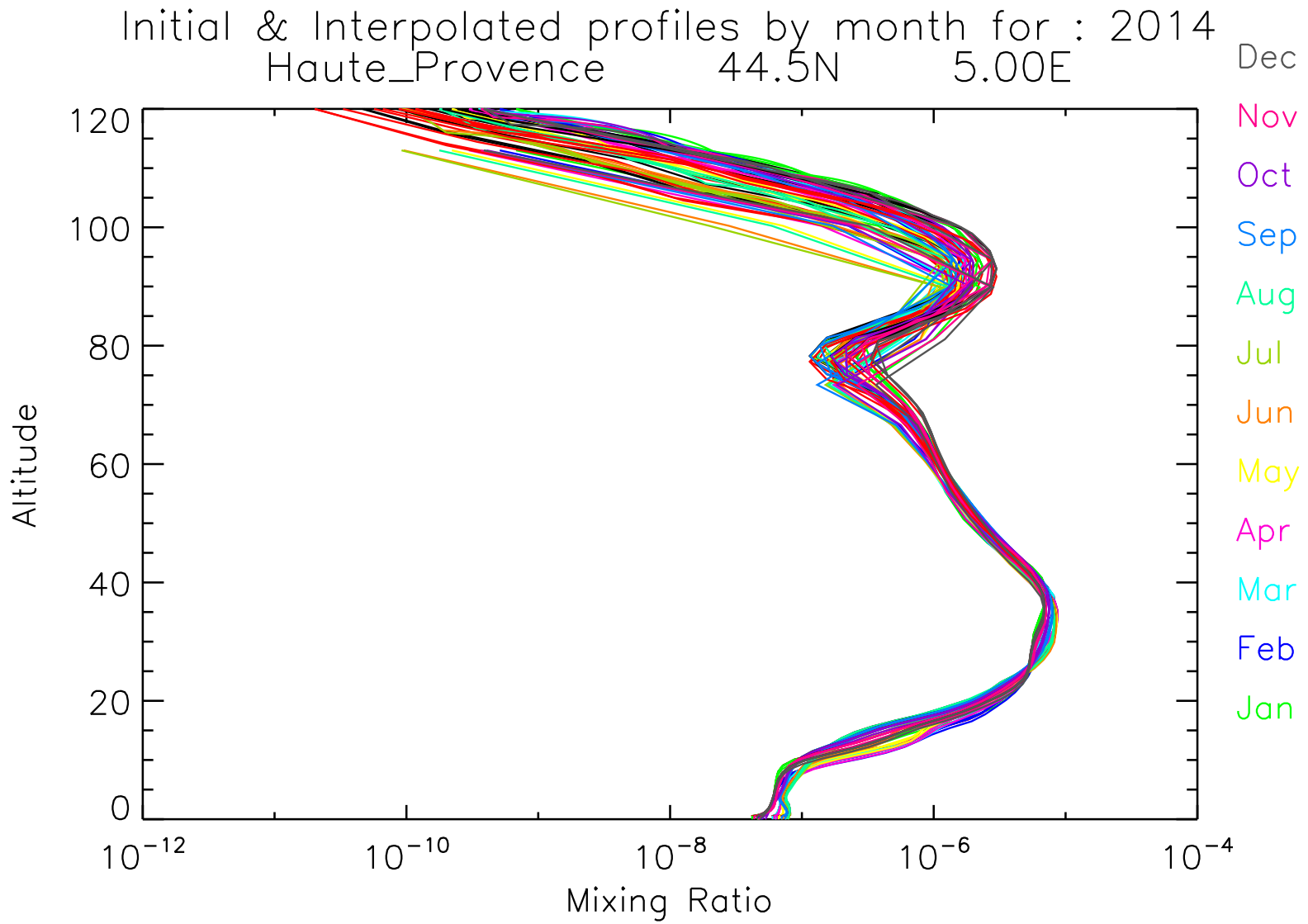
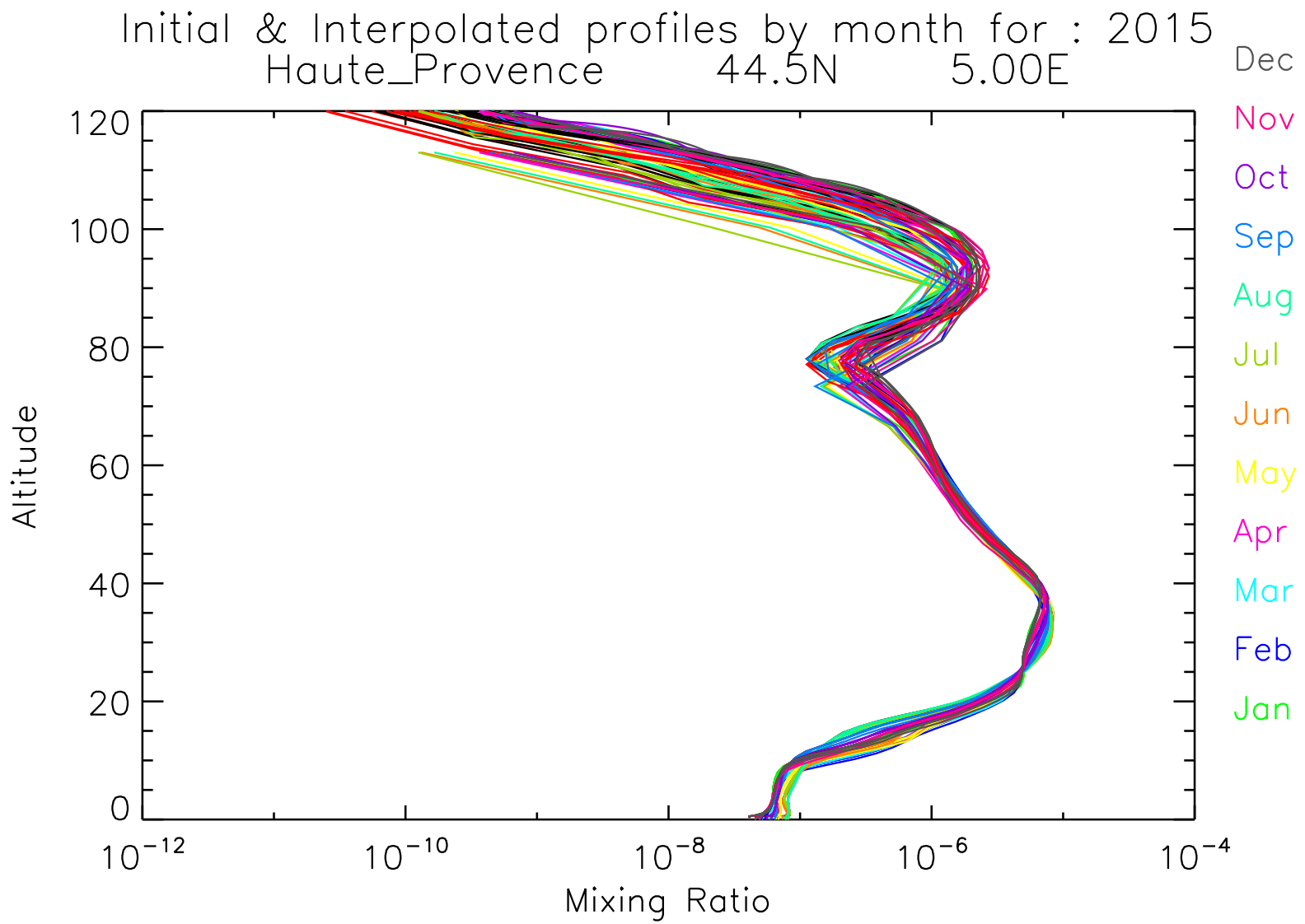
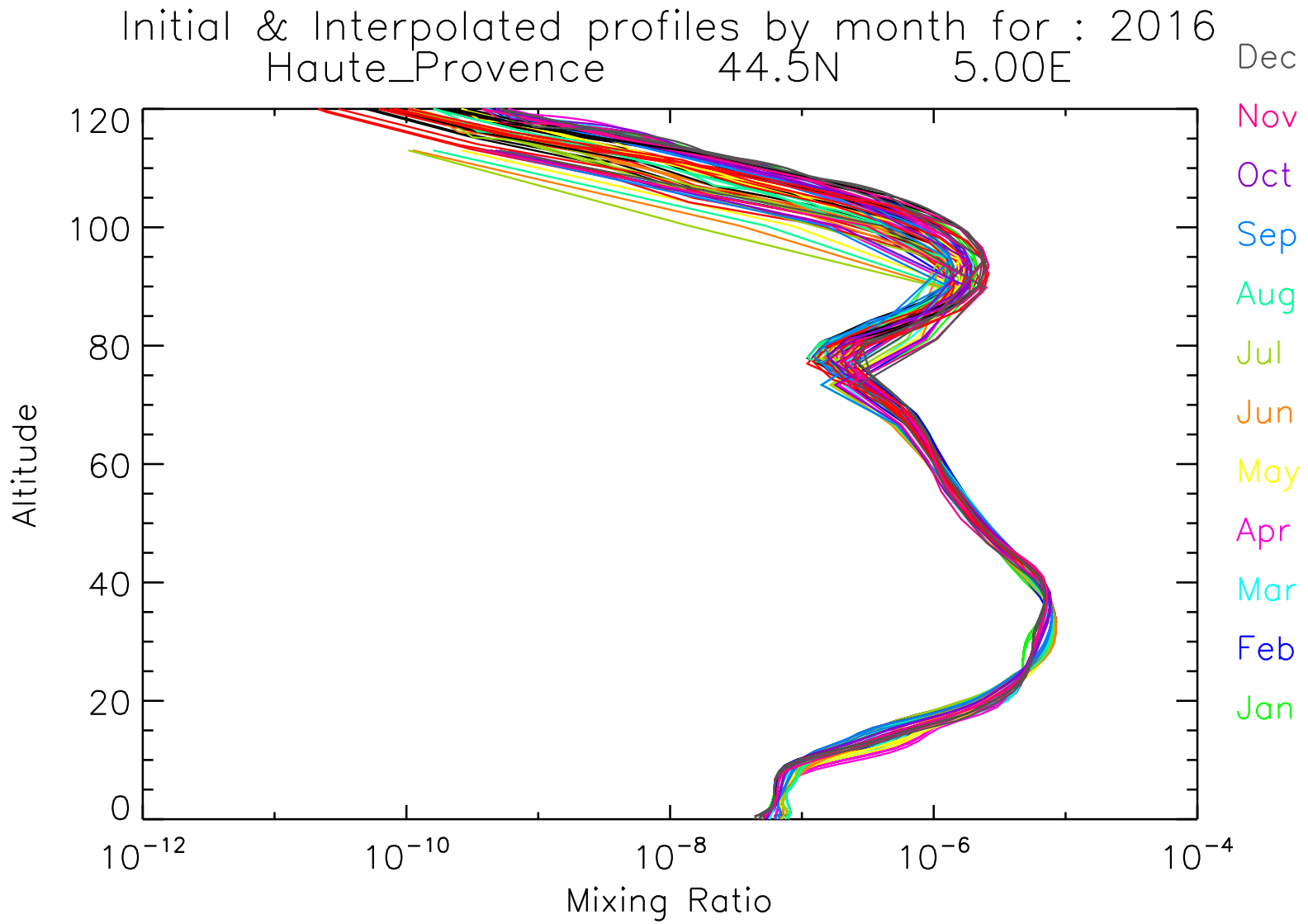
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

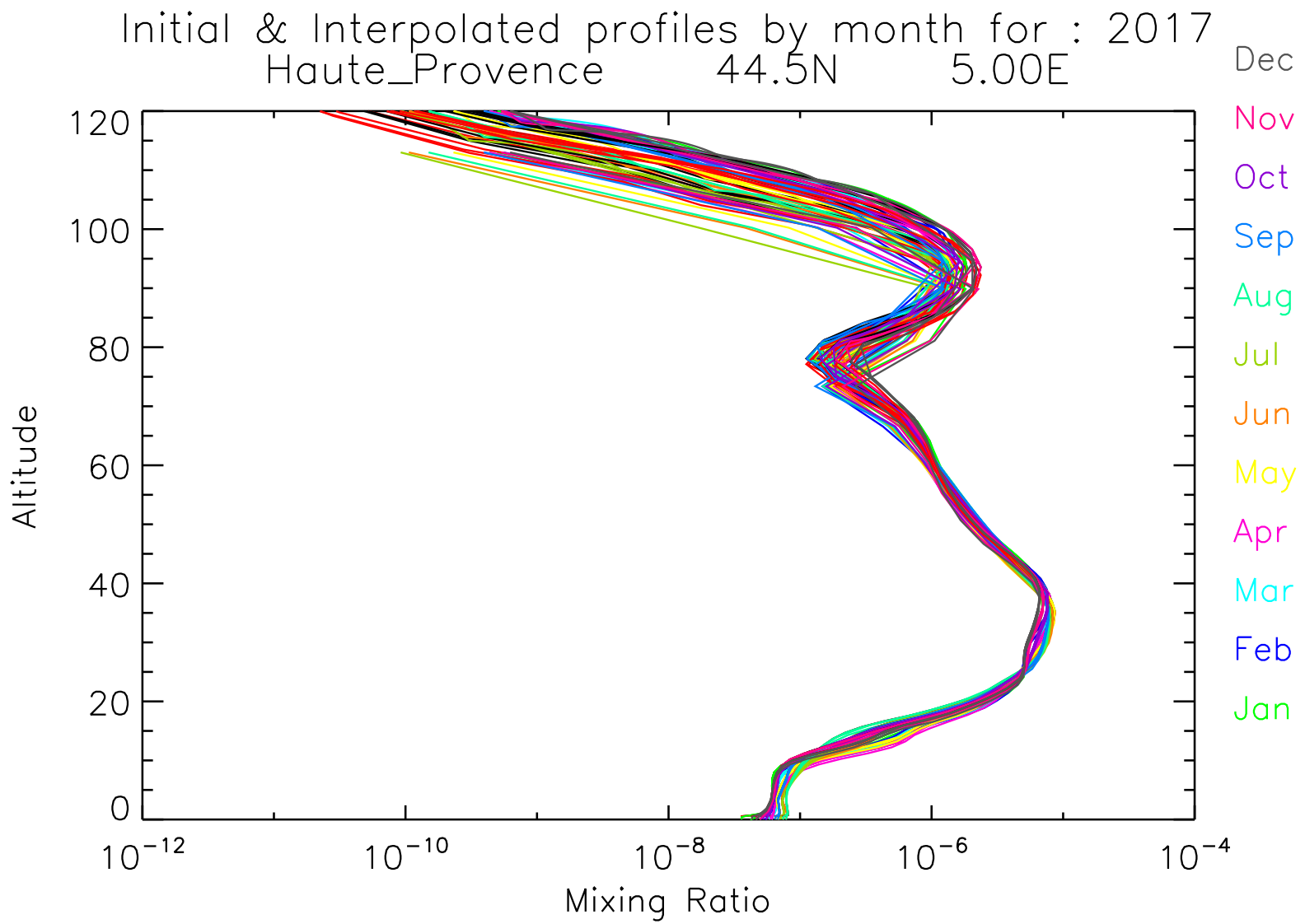

Initial & Interpolated profiles by month for : 2012
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

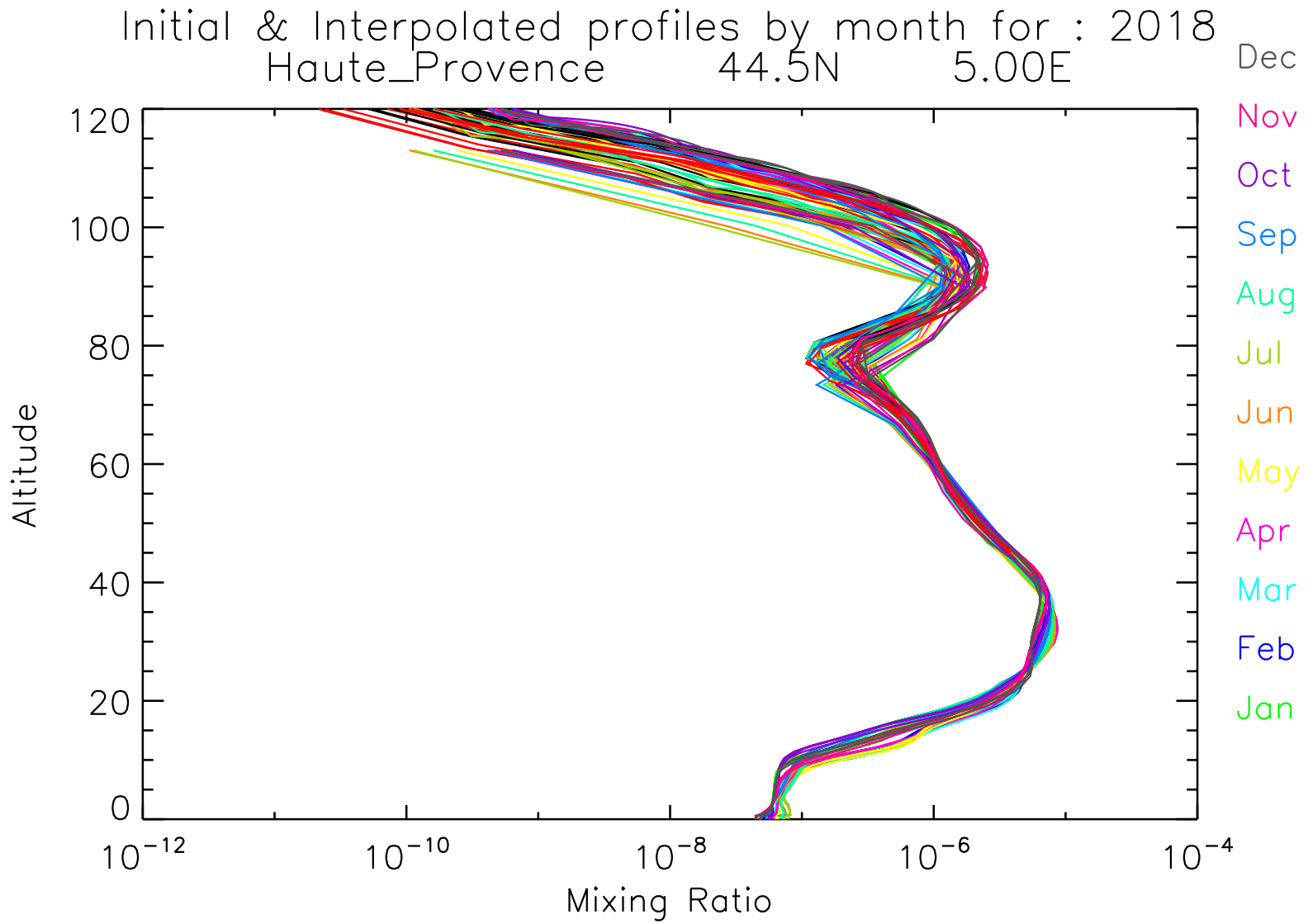

Initial & Interpolated profiles by month for : 2013
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

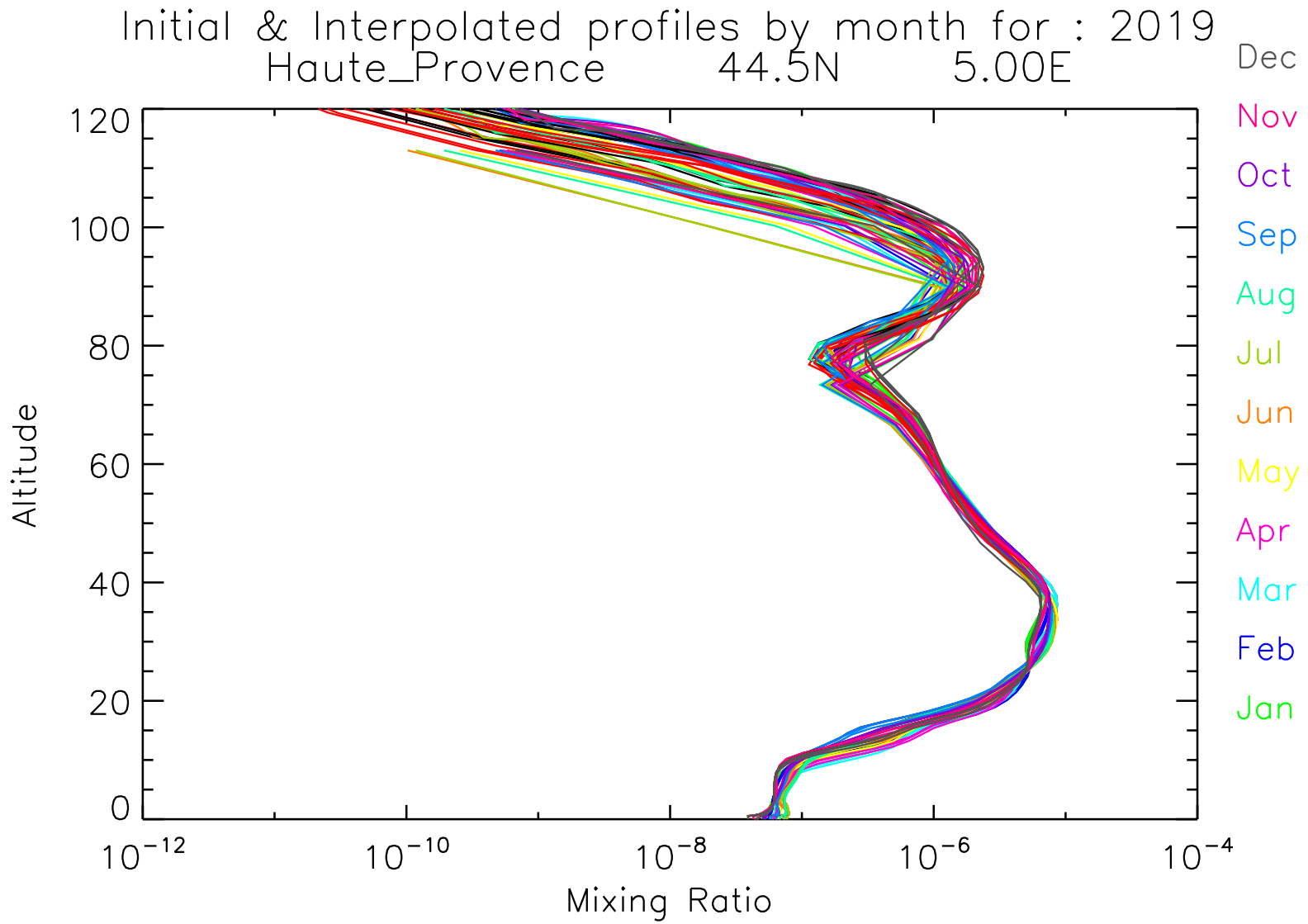

Initial & Interpolated profiles by month for : 2014
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

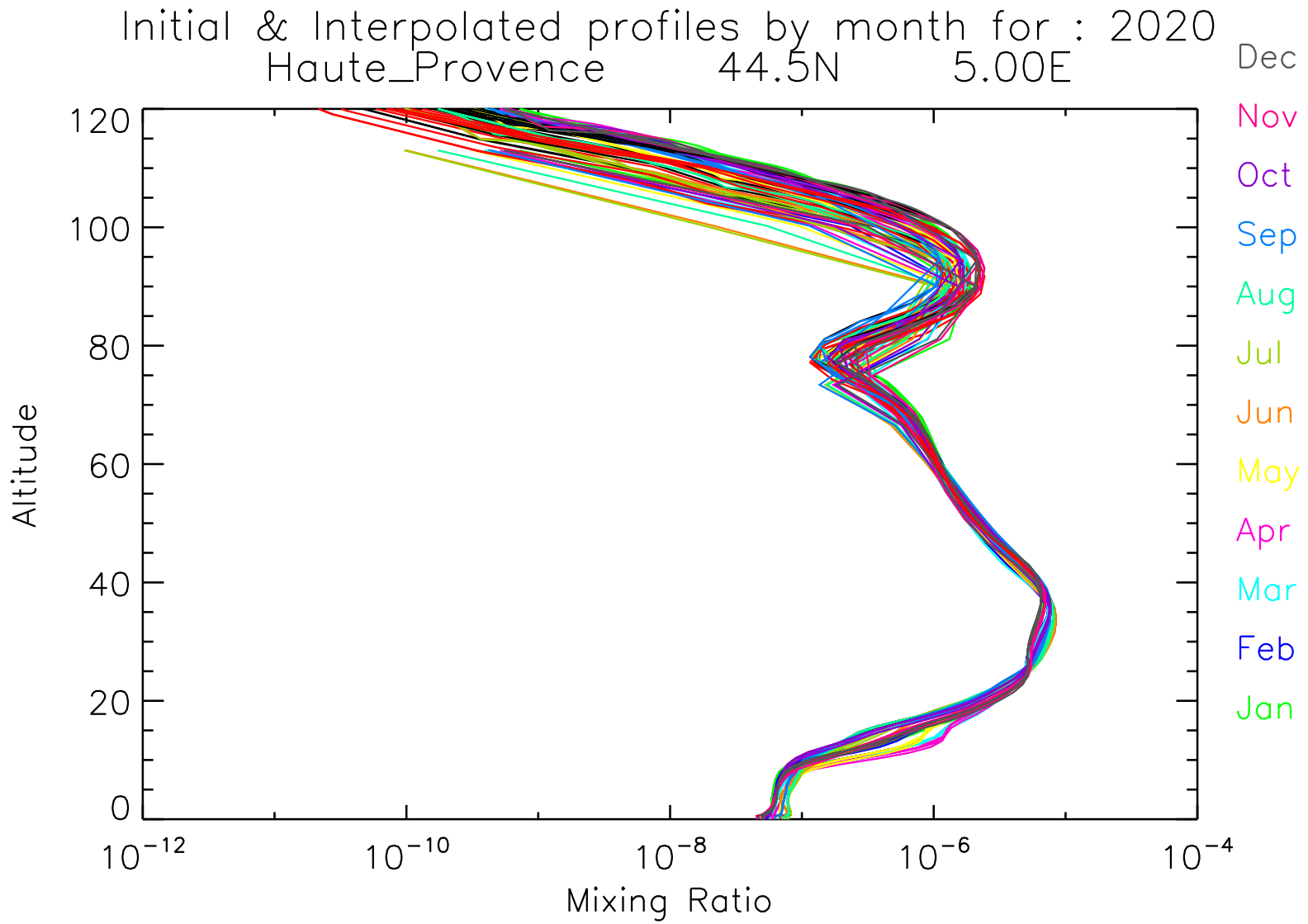

Initial & Interpolated profiles by month for : 2015
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

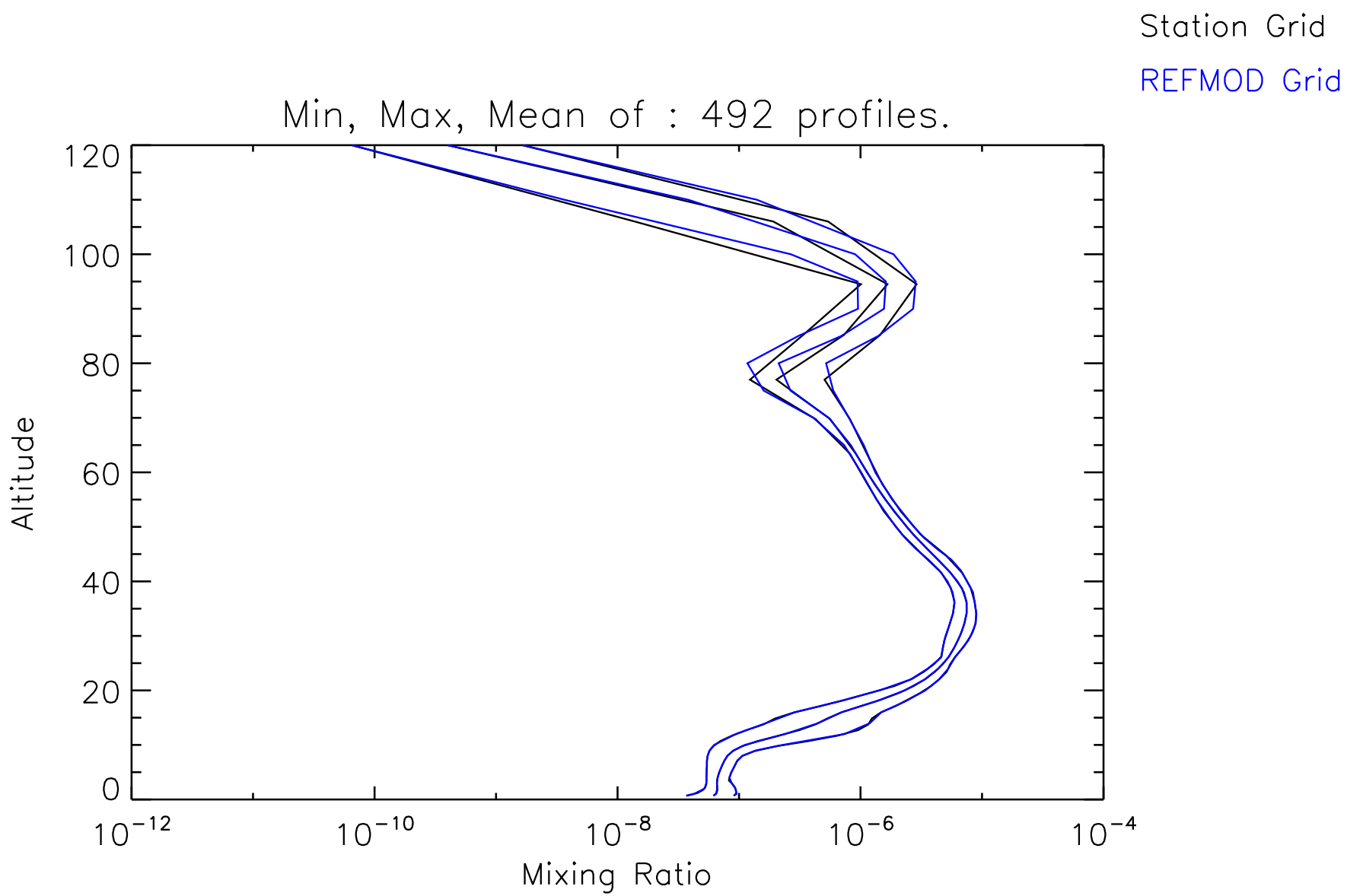

Initial & Interpolated profiles by month for : 2016
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

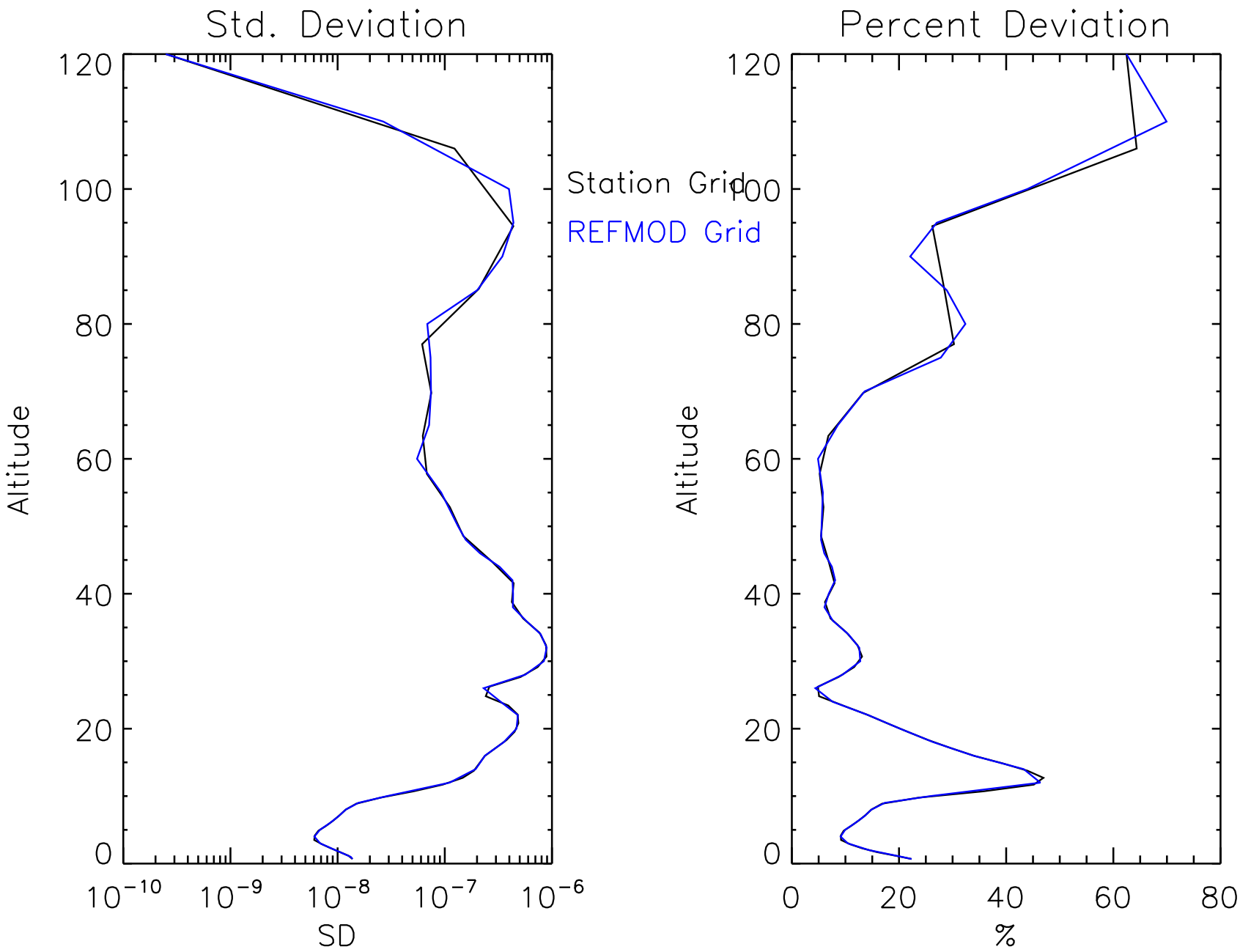

Initial & Interpolated profiles by month for : 2017
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

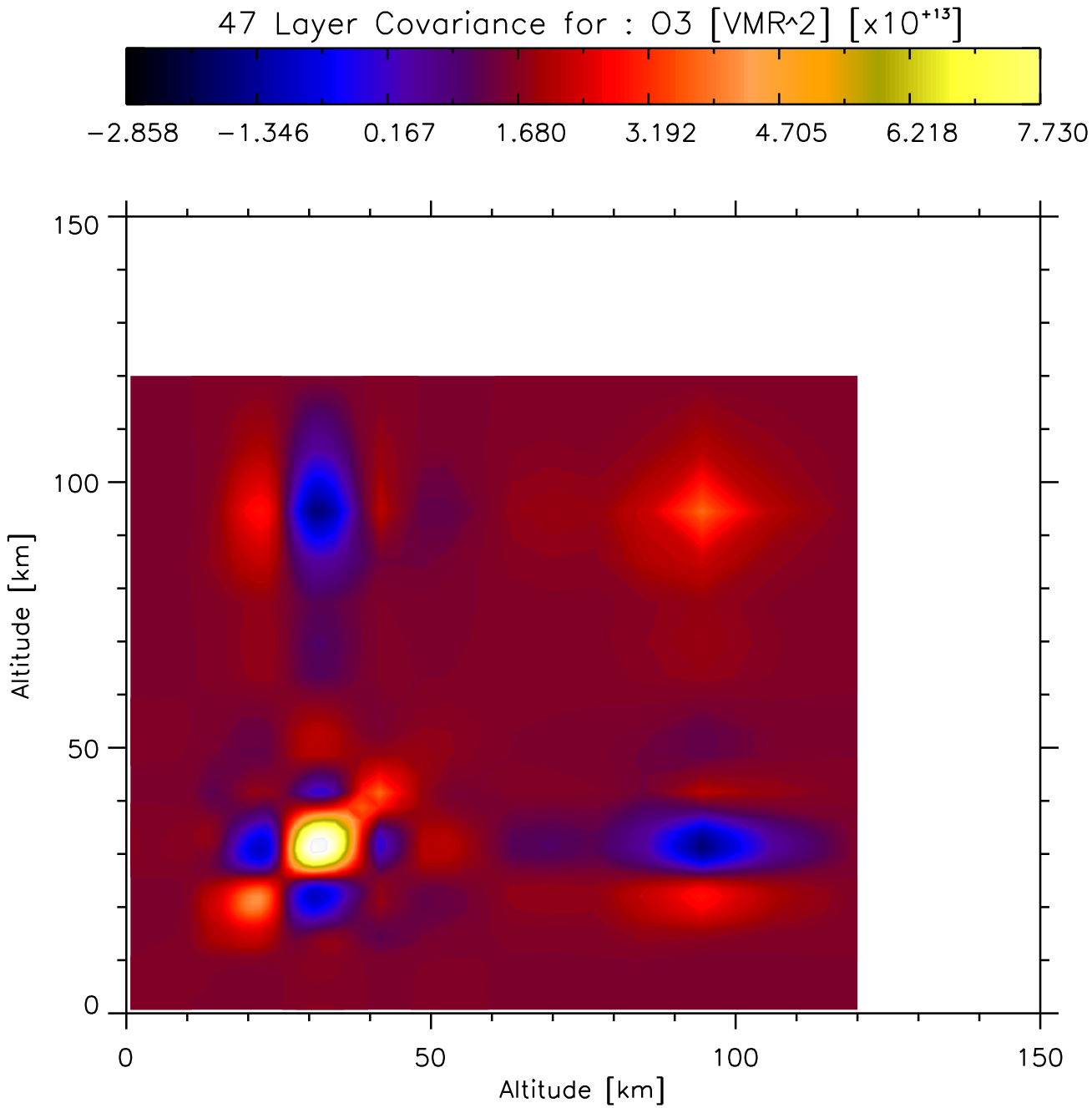

Initial & Interpolated profiles by month for : 2018
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio

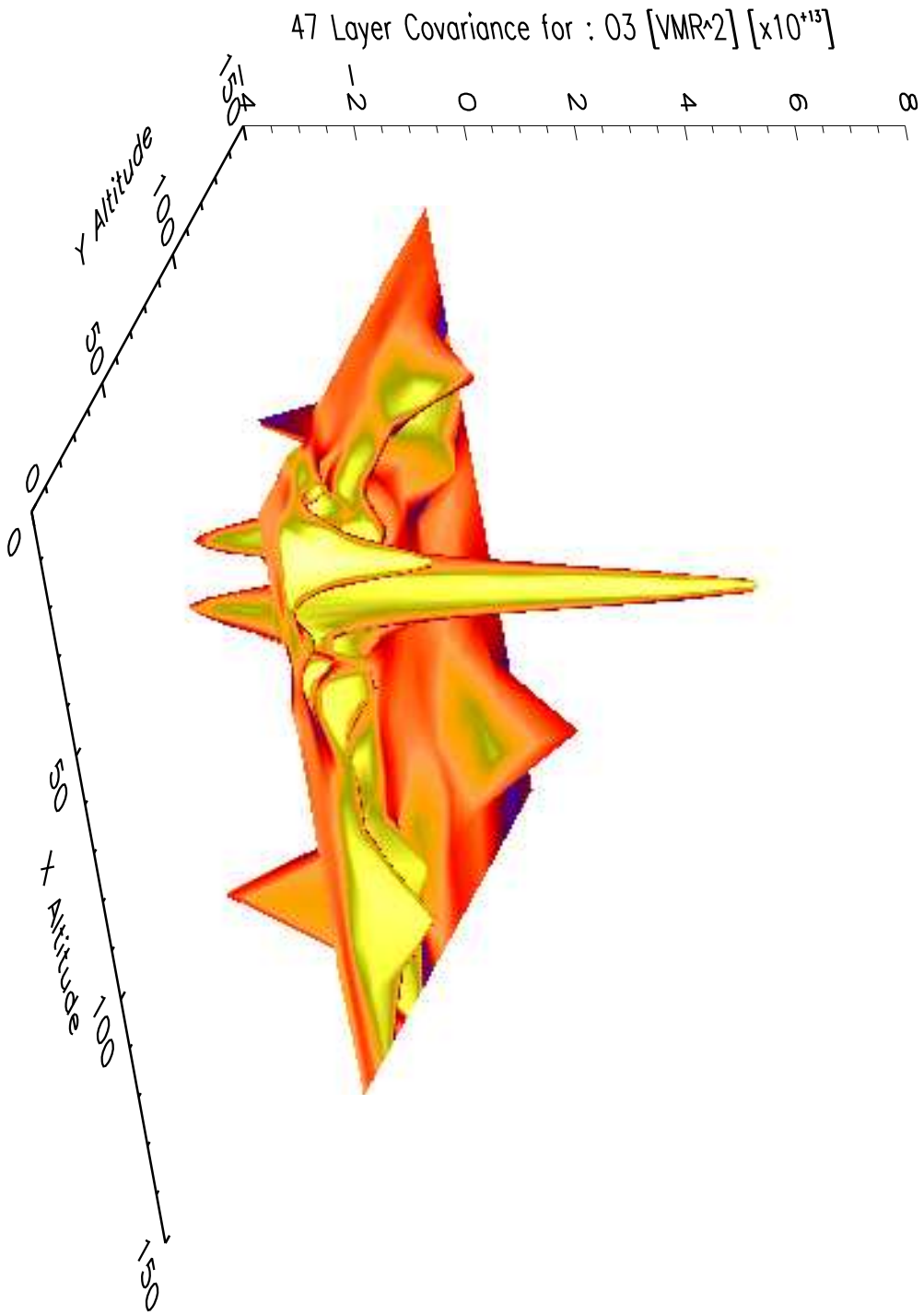

Initial & Interpolated profiles by month for : 2019
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio

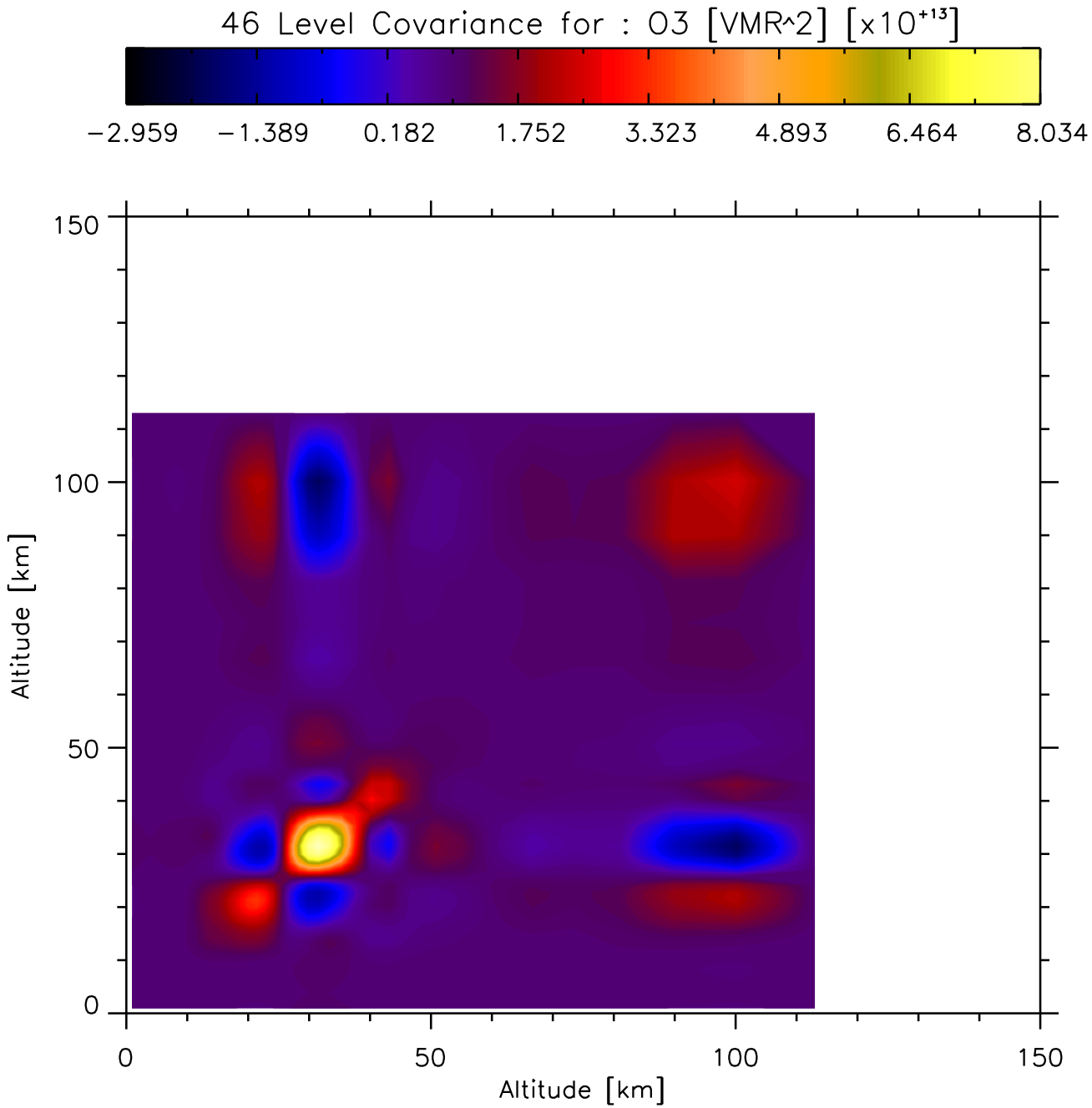

Initial & Interpolated profiles by month for : 2020
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

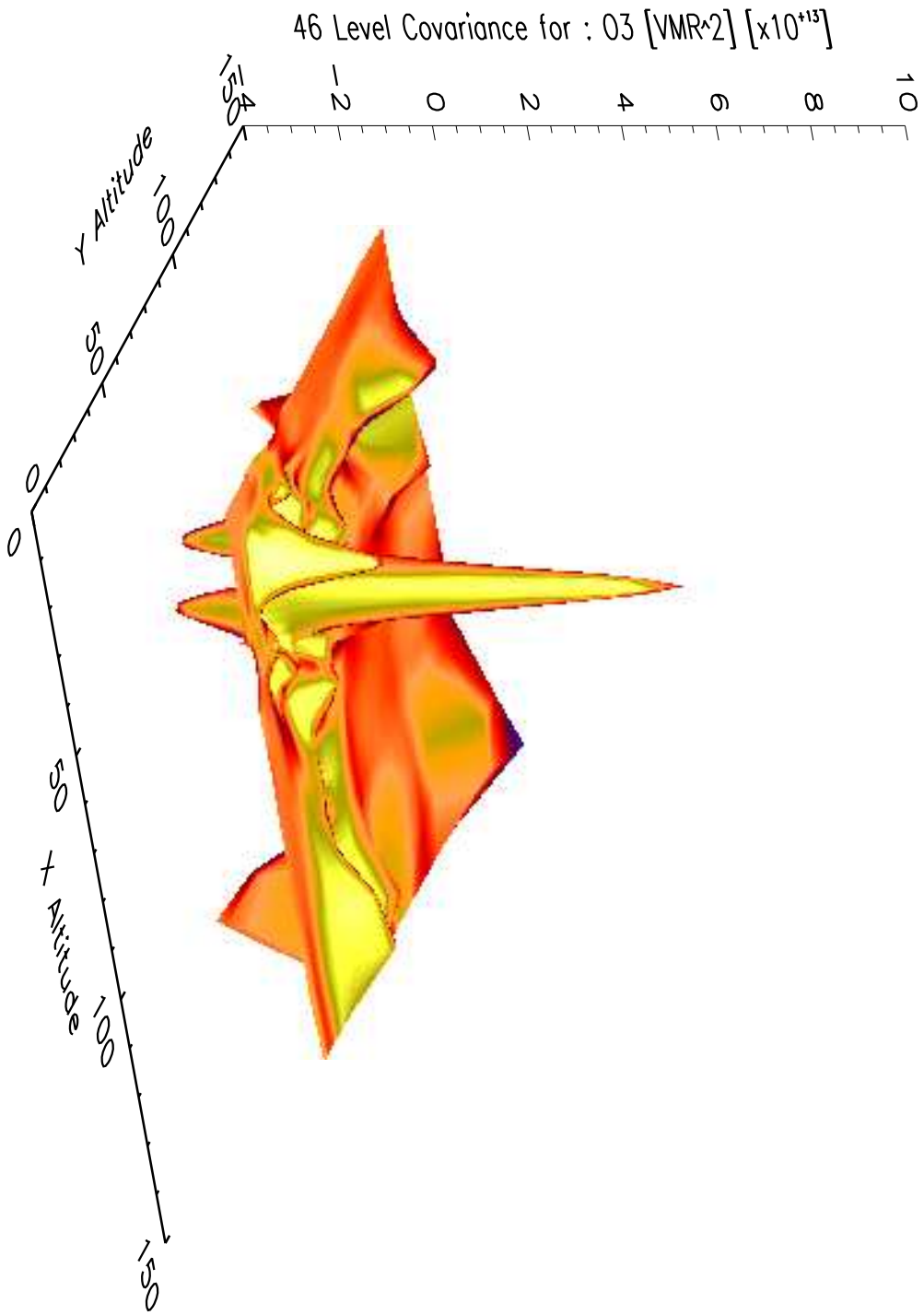

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


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


47 Layer Covariance for : O3 [VMR^2] [x10^+13]
−2.858
−1.346
0.167
1.680
3.192
4.705
6.218
7.730
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


47 Layer Covariance for : O3 [VMR^2] [x10^+13]
-14
-12
-10
-8
-6
-4
-2
0
2
4
6
8
Y Altitude
120
100
80
60
40
20
0
0
20
40
60
80
100
120
X Altitude


46 Level Covariance for : O3 [VMR^2] [x10^+13]
−2.959
−1.389
0.182
1.752
3.323
4.893
6.464
8.034
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


46 Level Covariance for : O3 [VMR^2] [x10^+13]
-14
-12
-10
-8
-6
-4
-2
0
2
4
6
8
10
Y Altitude
0
50
100
150
0
50
100
150
X Altitude