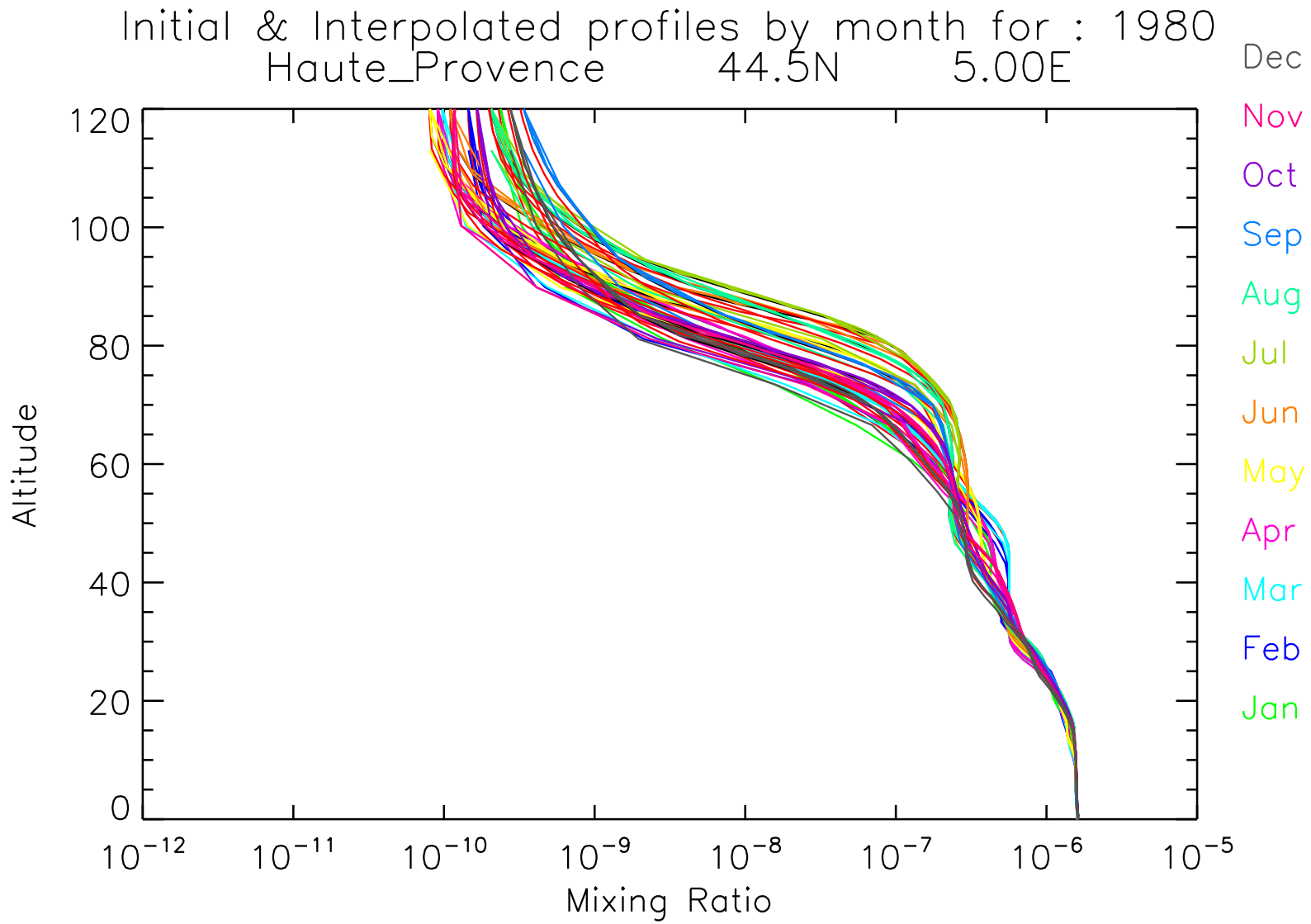
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Altitude
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Mixing Ratio
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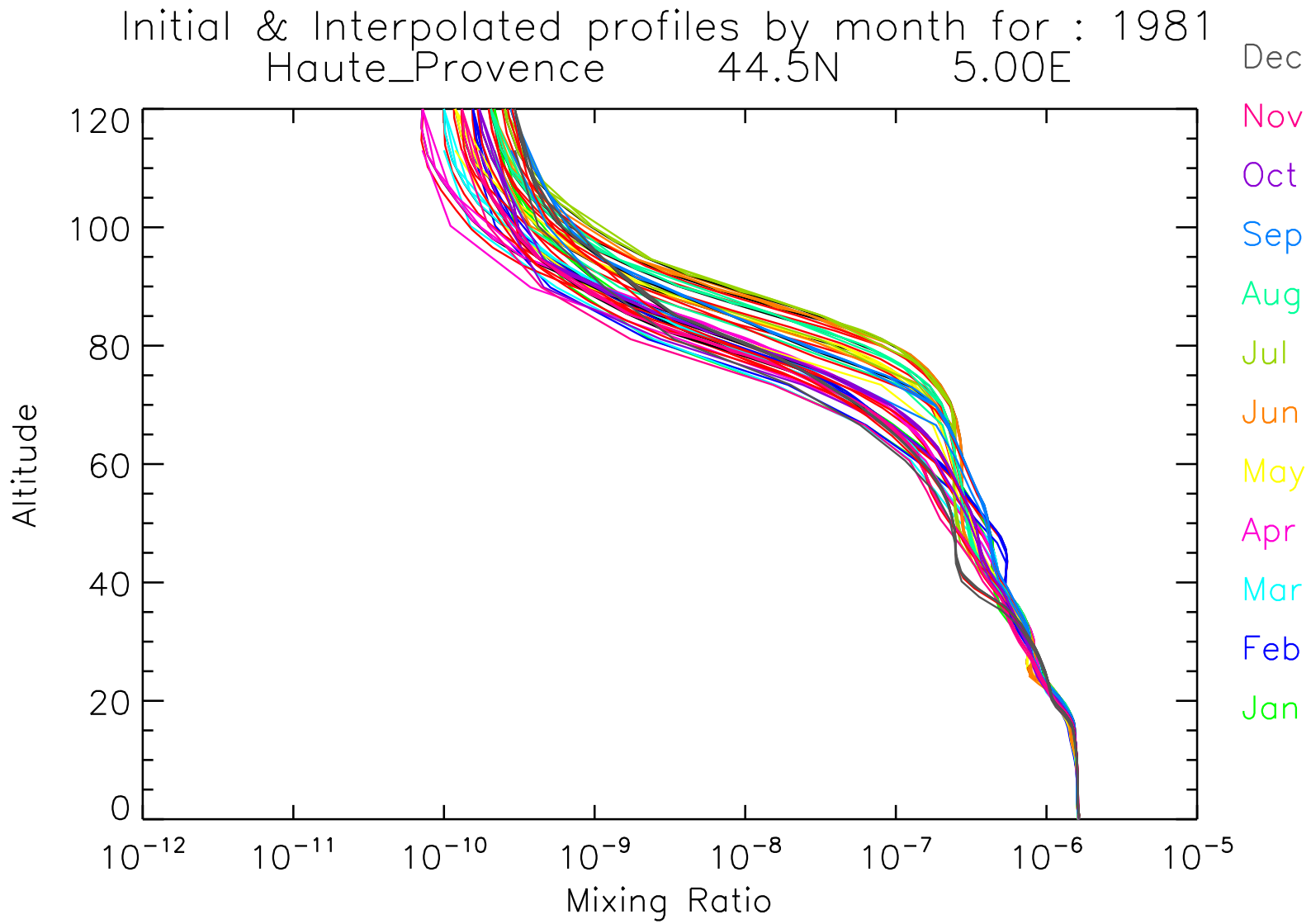
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Mixing Ratio
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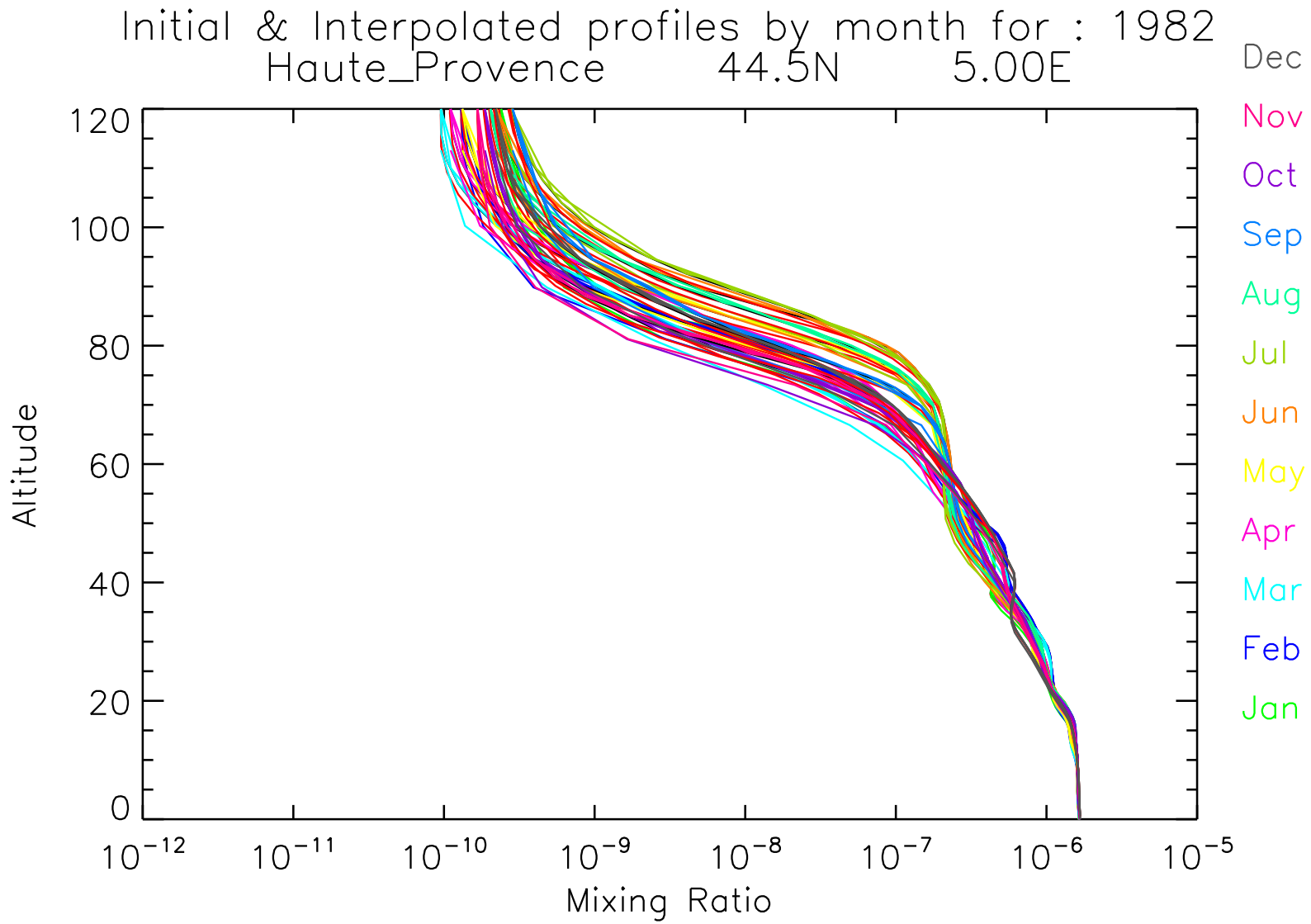
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Mixing Ratio
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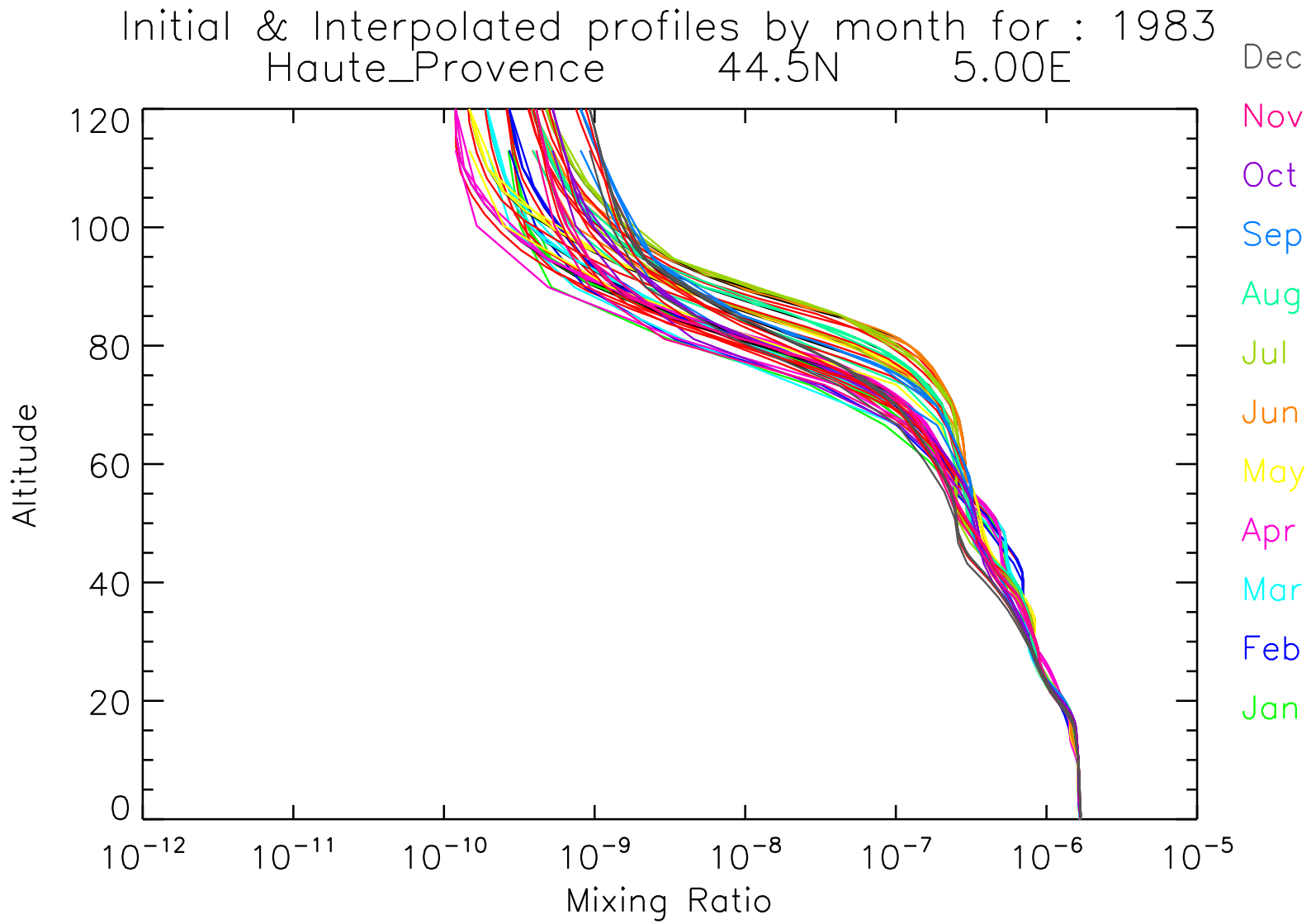
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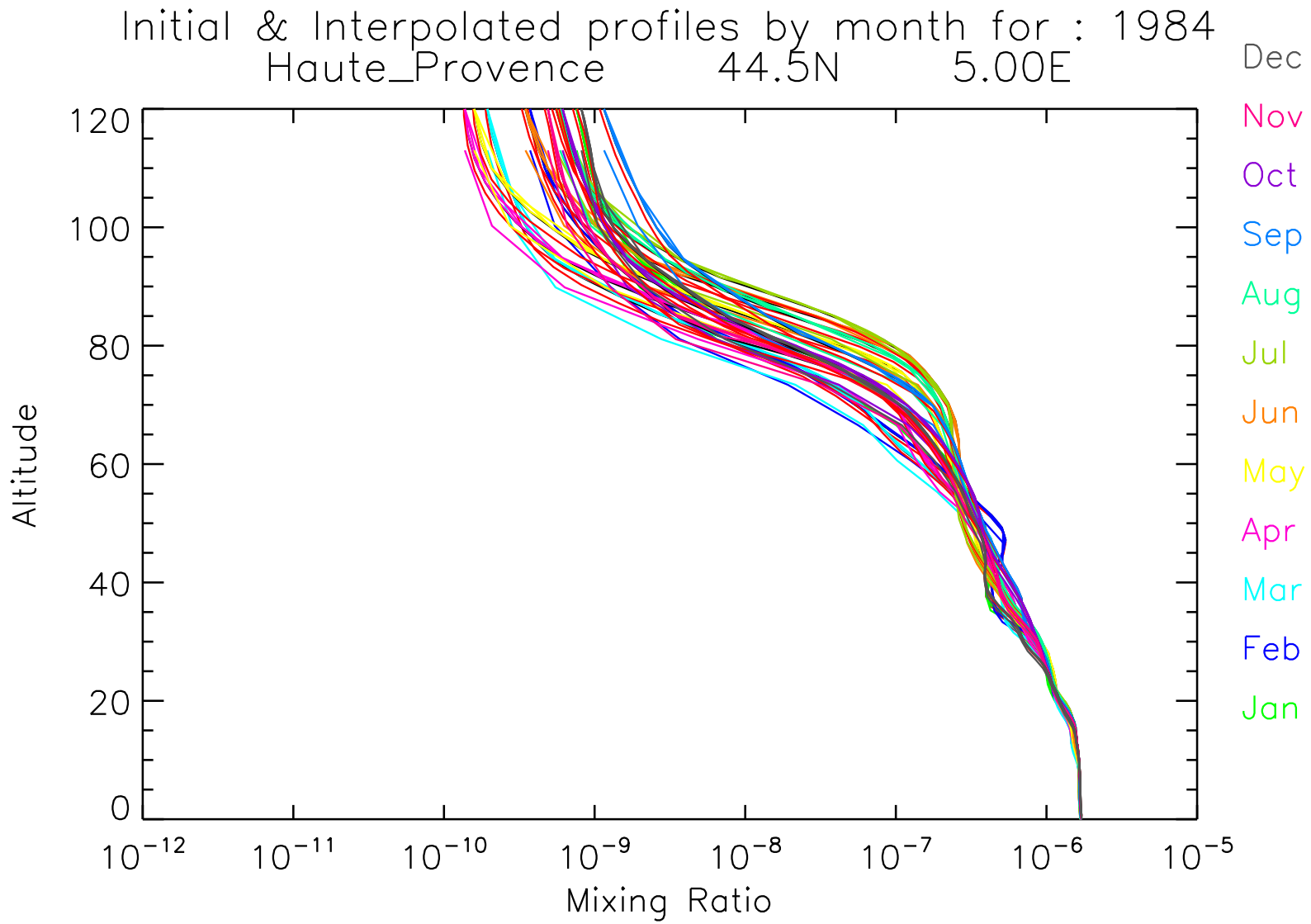
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Altitude
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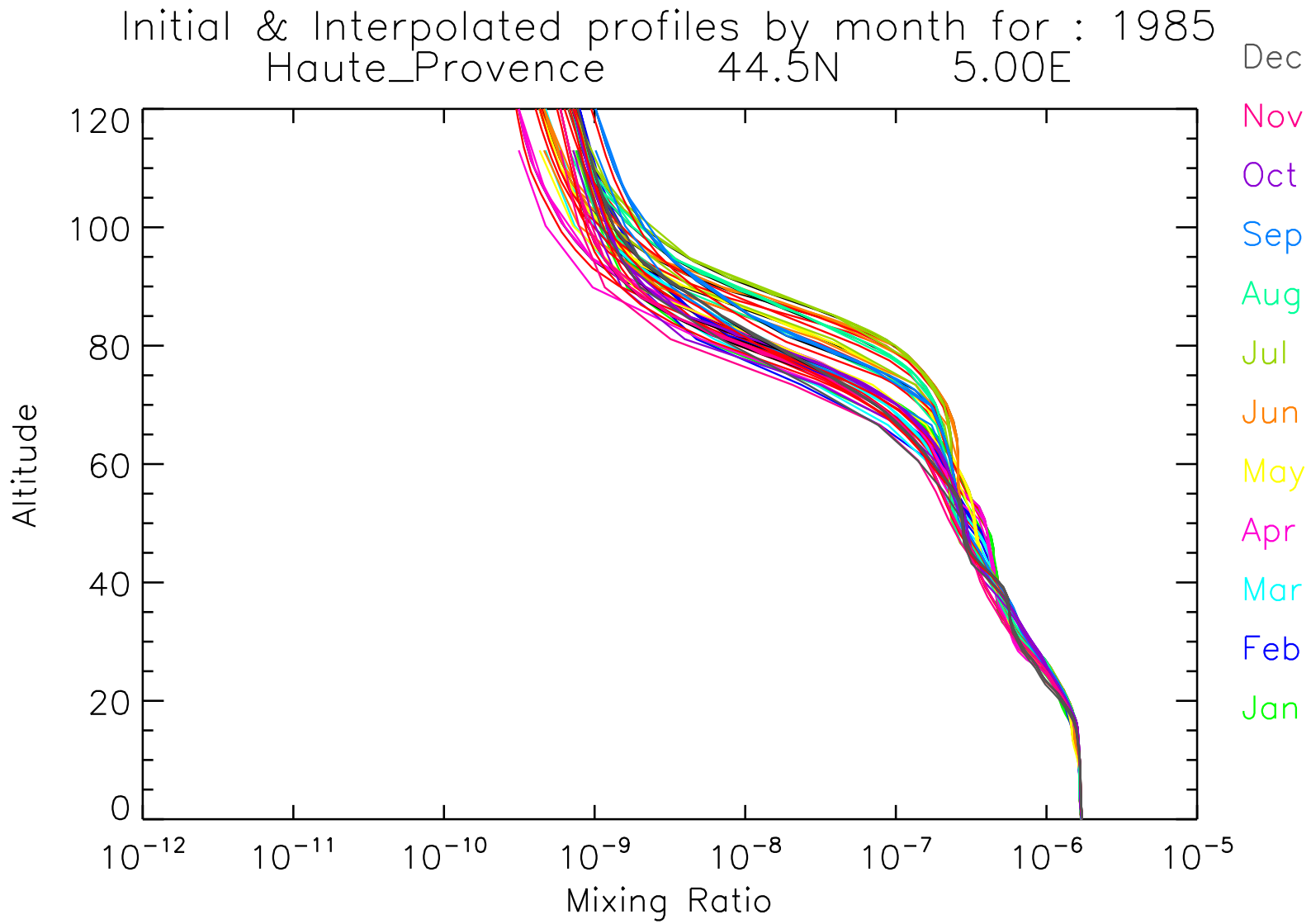
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Altitude
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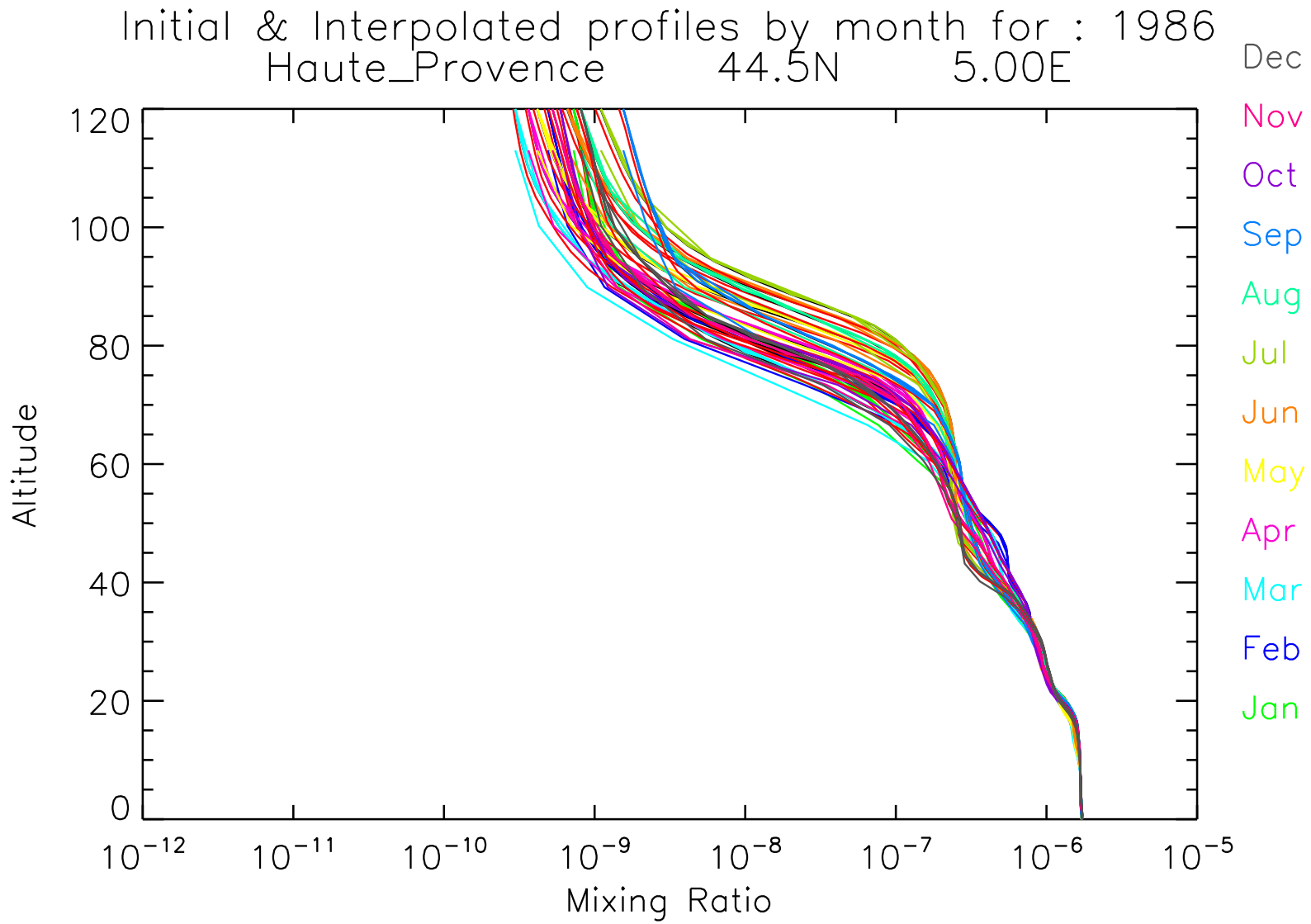
Initial & Interpolated profiles by month for : 1986
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Altitude
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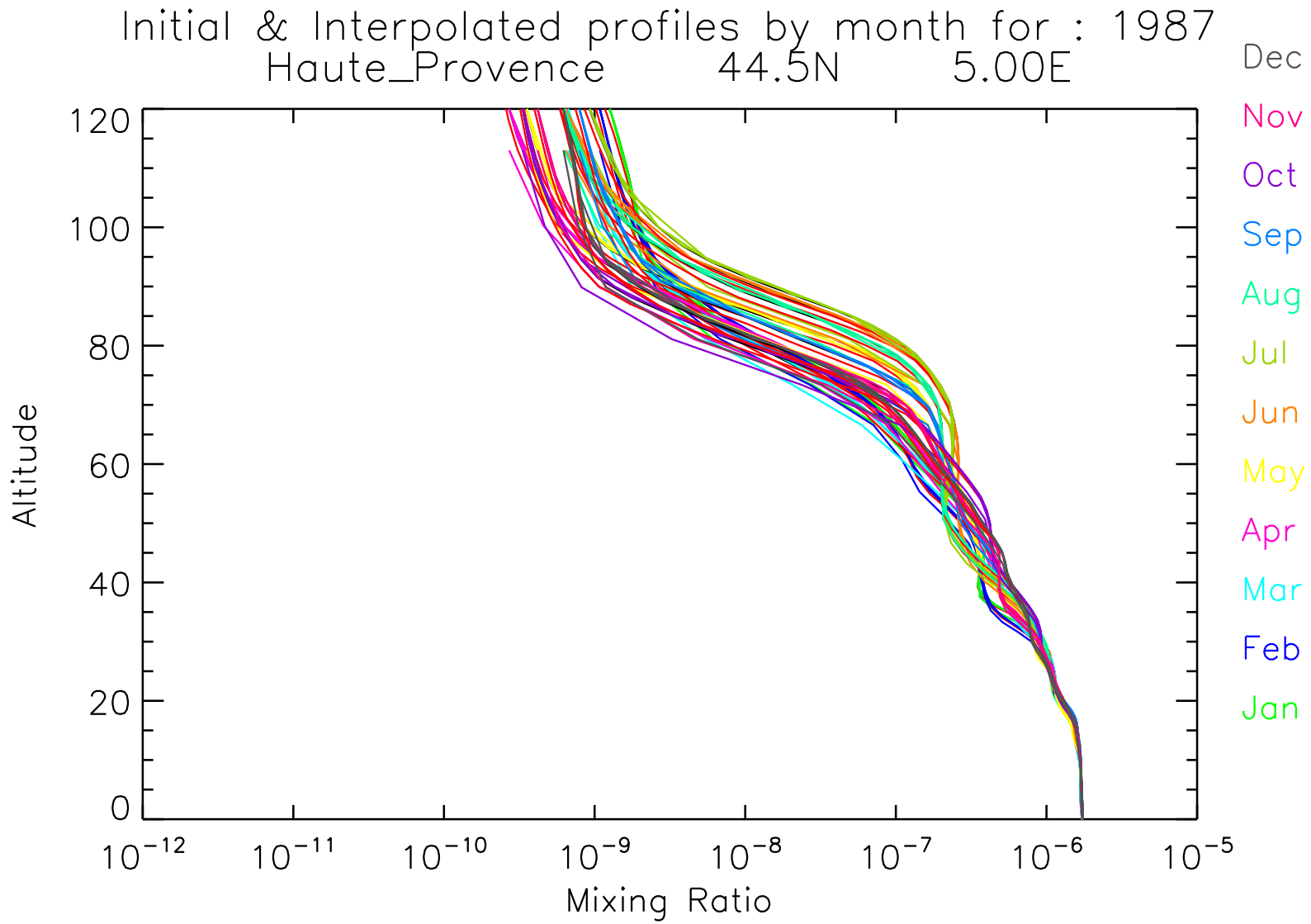
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Altitude
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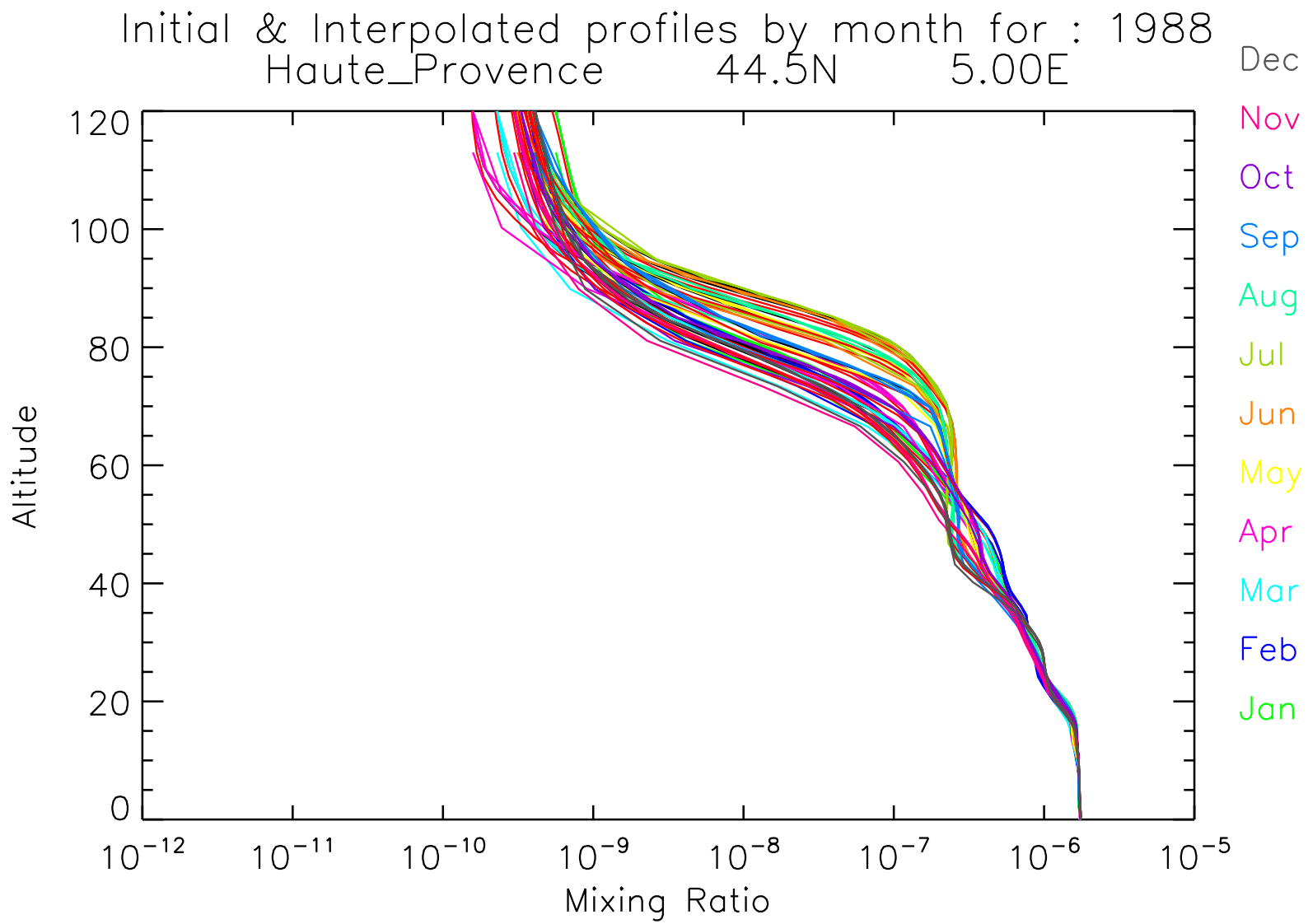
Initial & Interpolated profiles by month for : 1988
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Altitude
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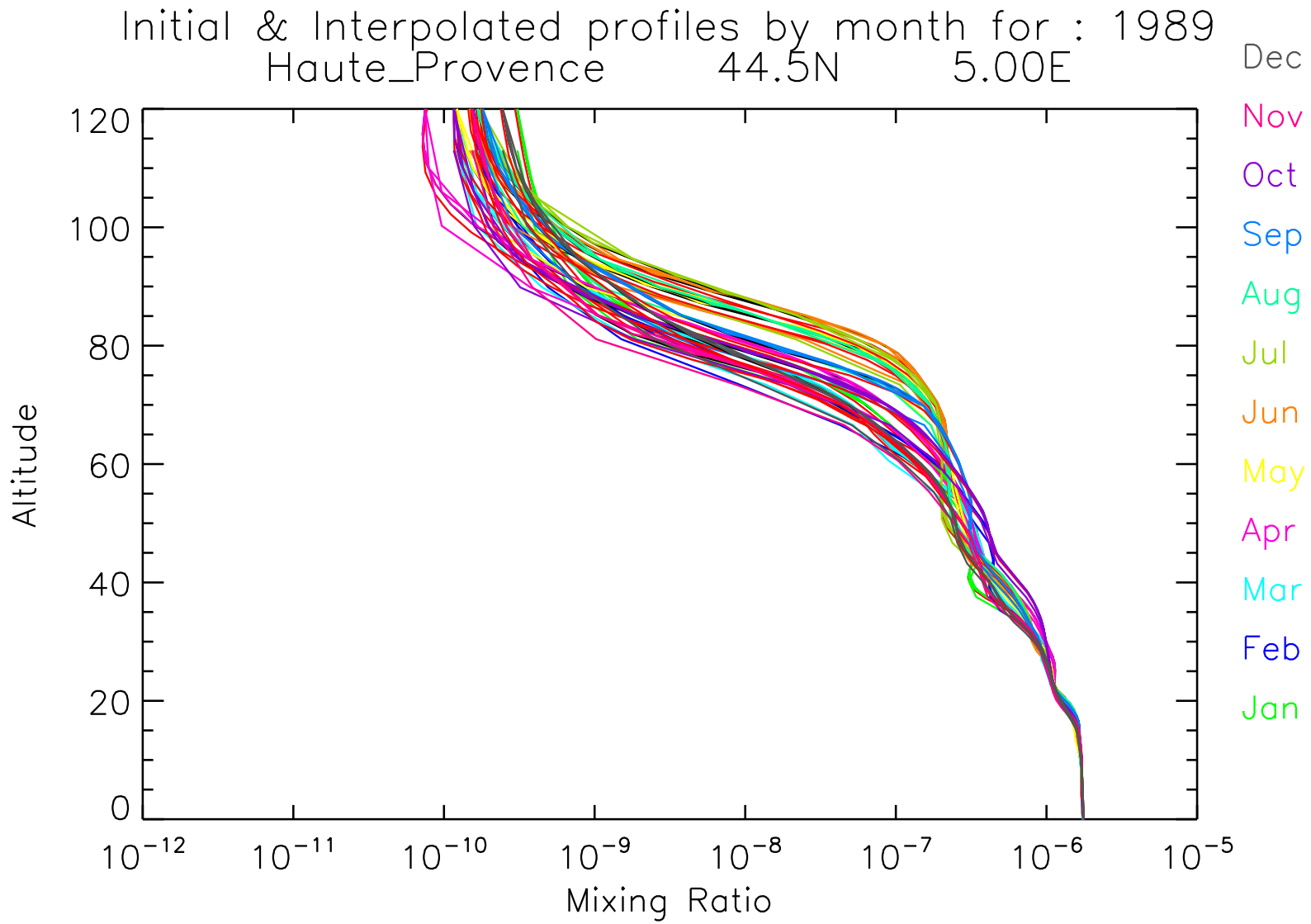
Initial & Interpolated profiles by month for : 1989
Haute_Provence 44.5N 5.00E
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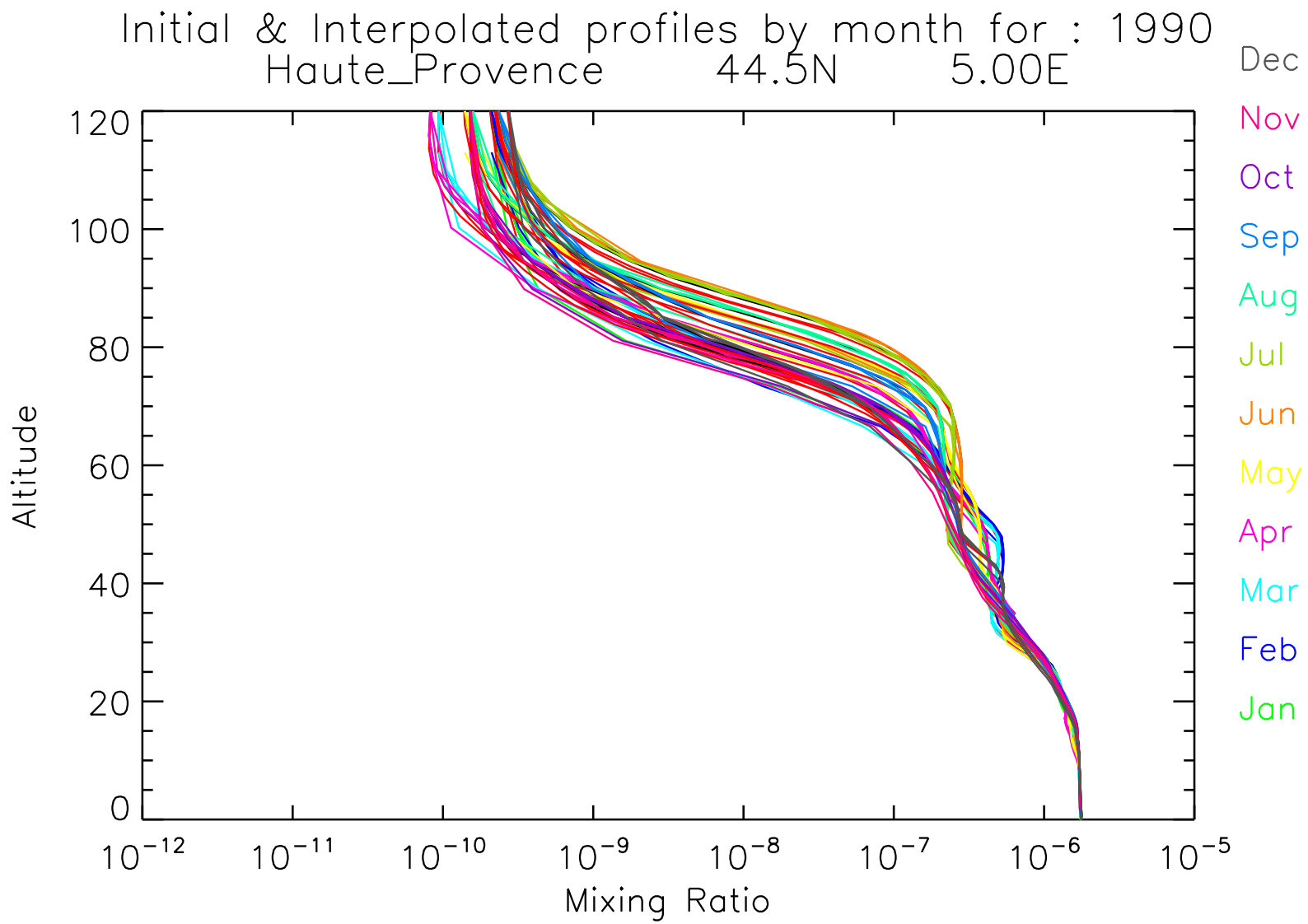
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Haute_Provence 44.5N 5.00E
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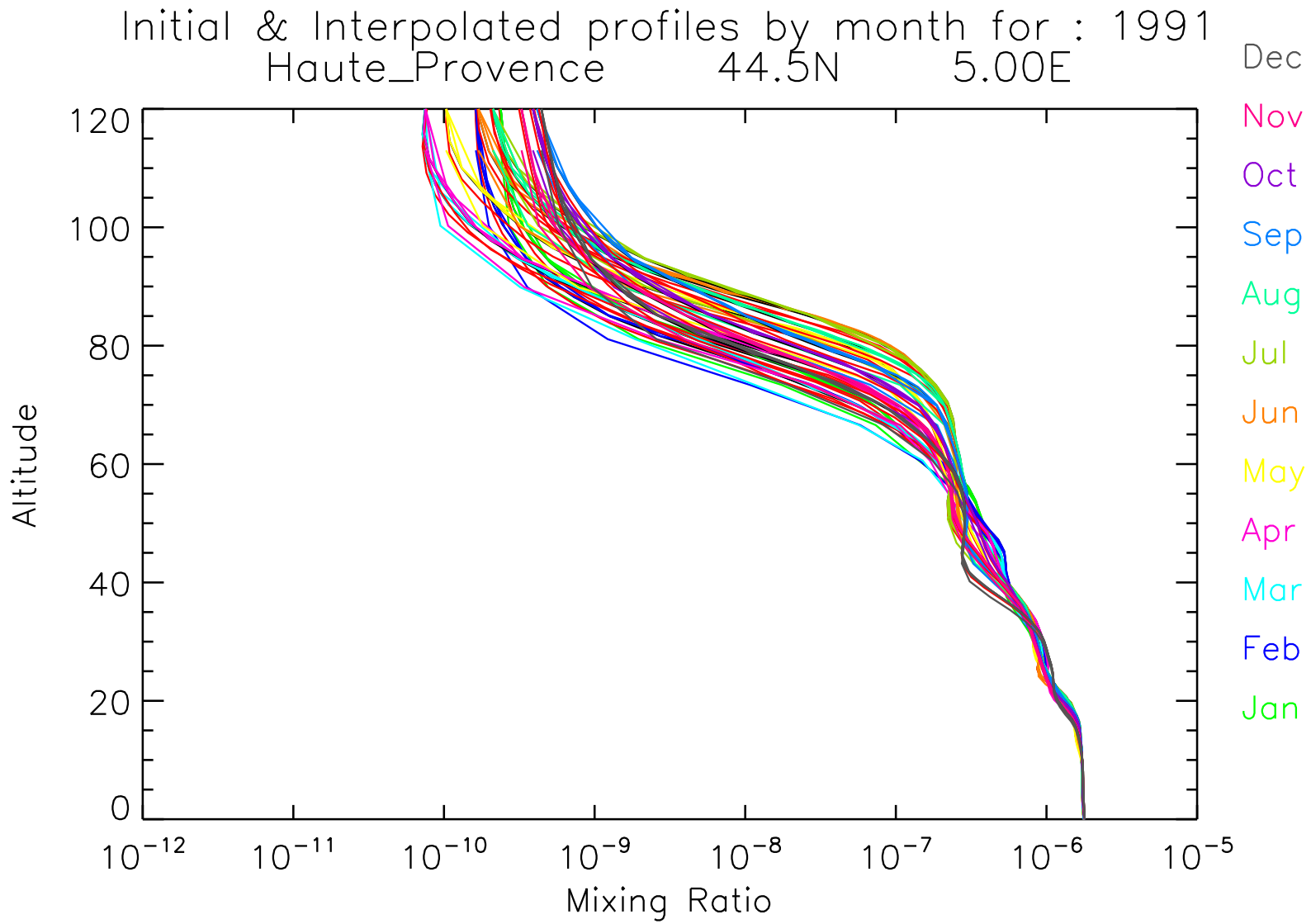
Initial & Interpolated profiles by month for : 1991
Haute_Provence 44.5N 5.00E
Altitude
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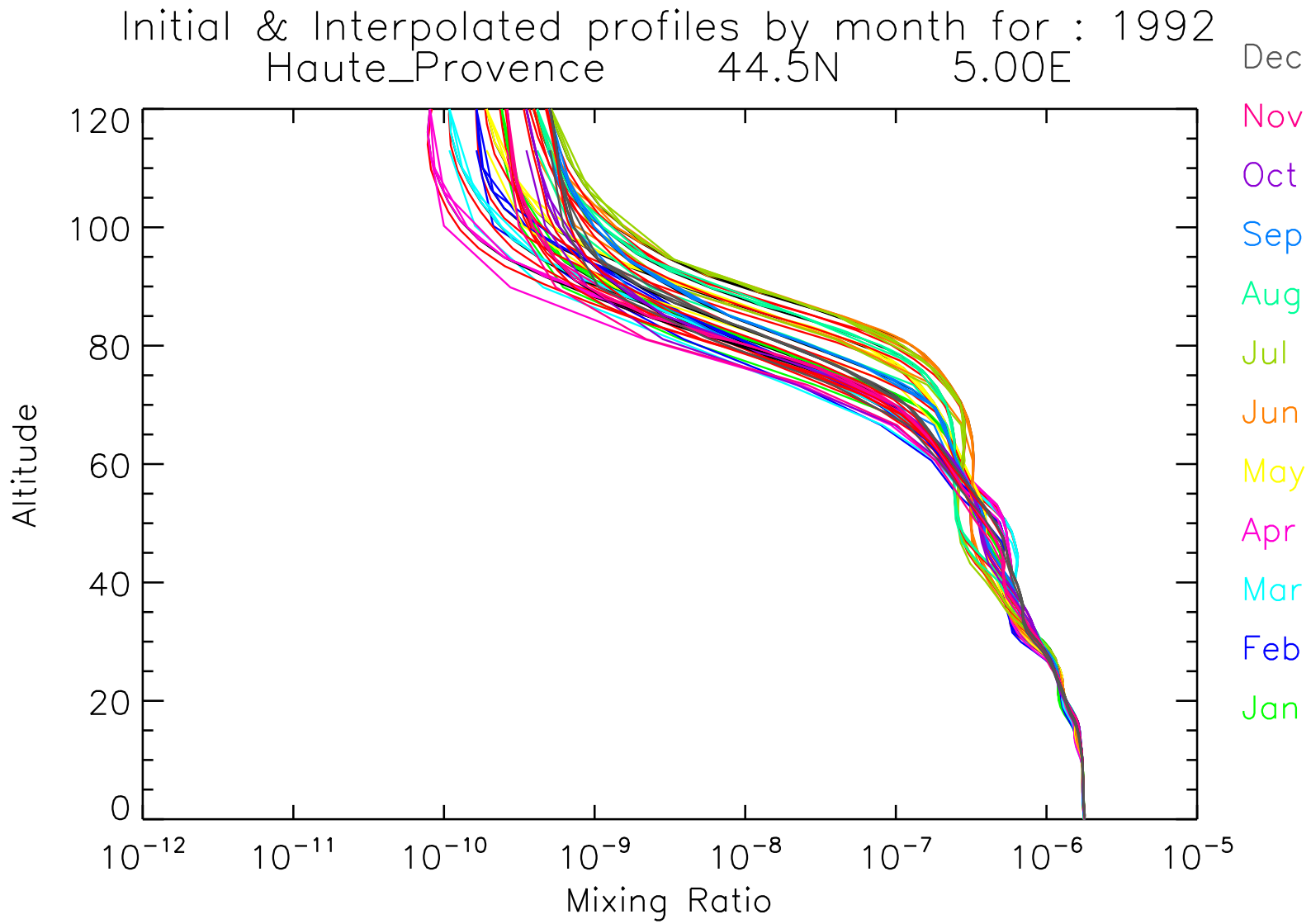
Initial & Interpolated profiles by month for : 1992
Haute_Provence 44.5N 5.00E
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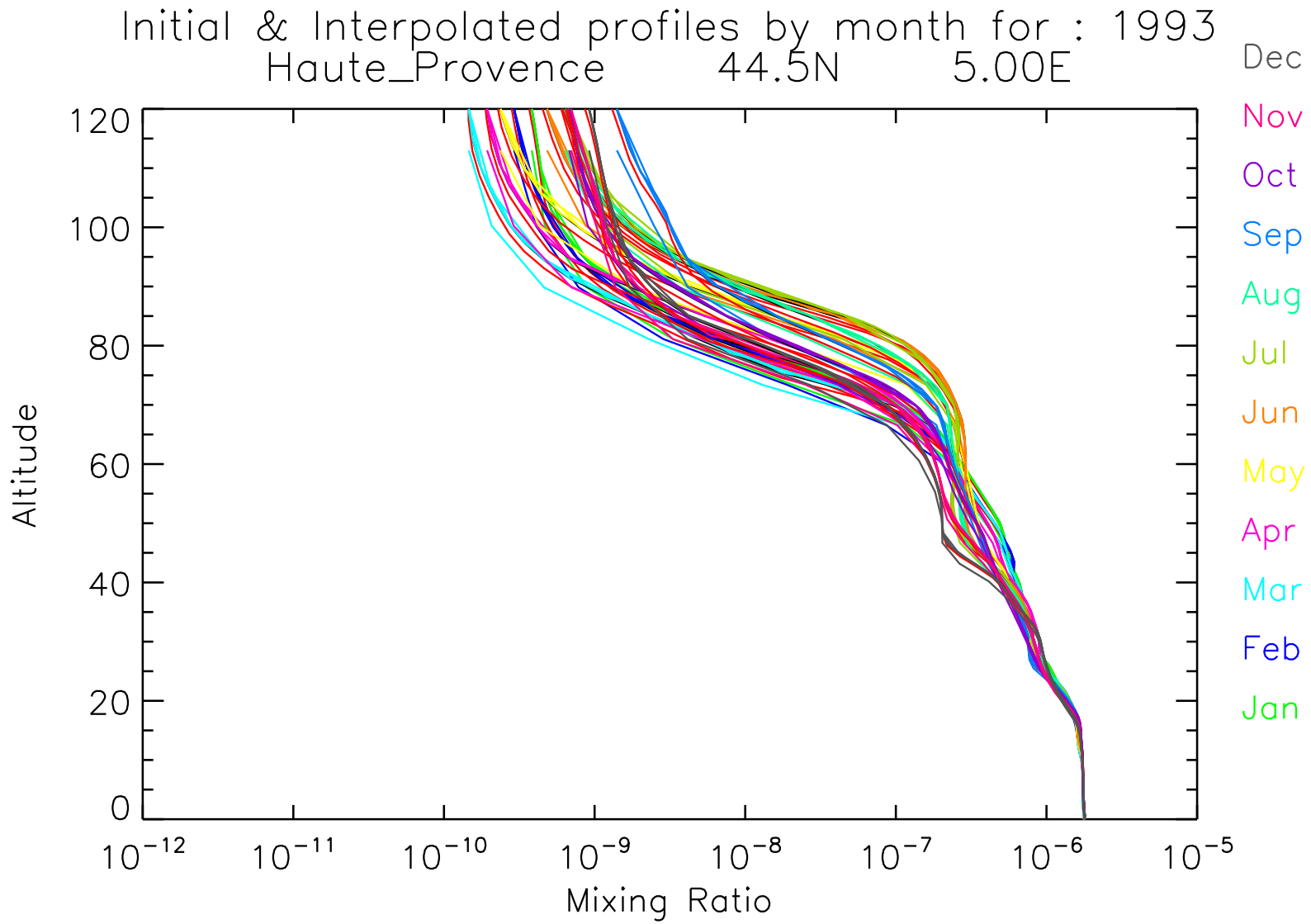
Initial & Interpolated profiles by month for : 1993
Haute_Provence 44.5N 5.00E
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Altitude
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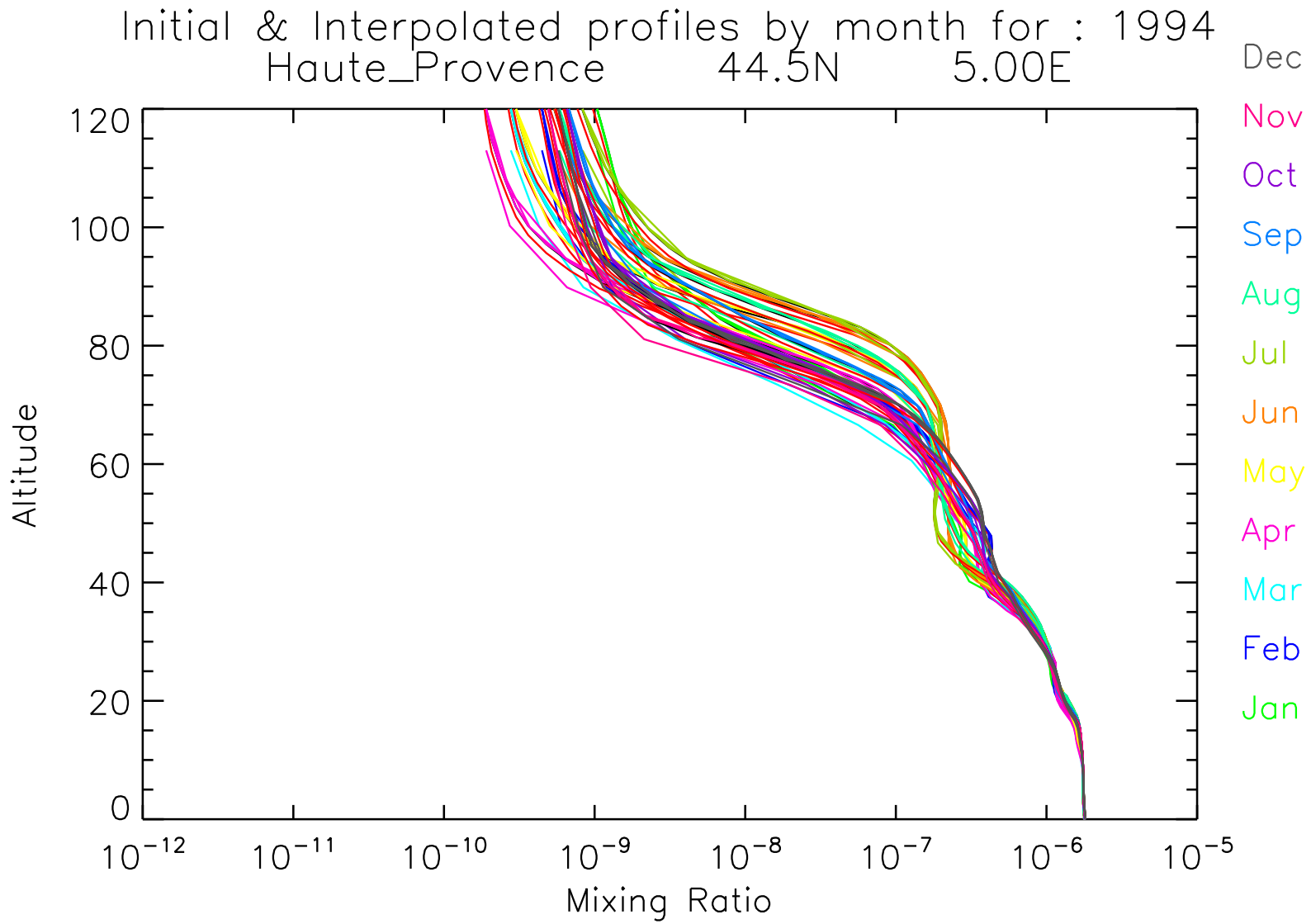
Initial & Interpolated profiles by month for : 1994
Haute_Provence 44.5N 5.00E
Altitude
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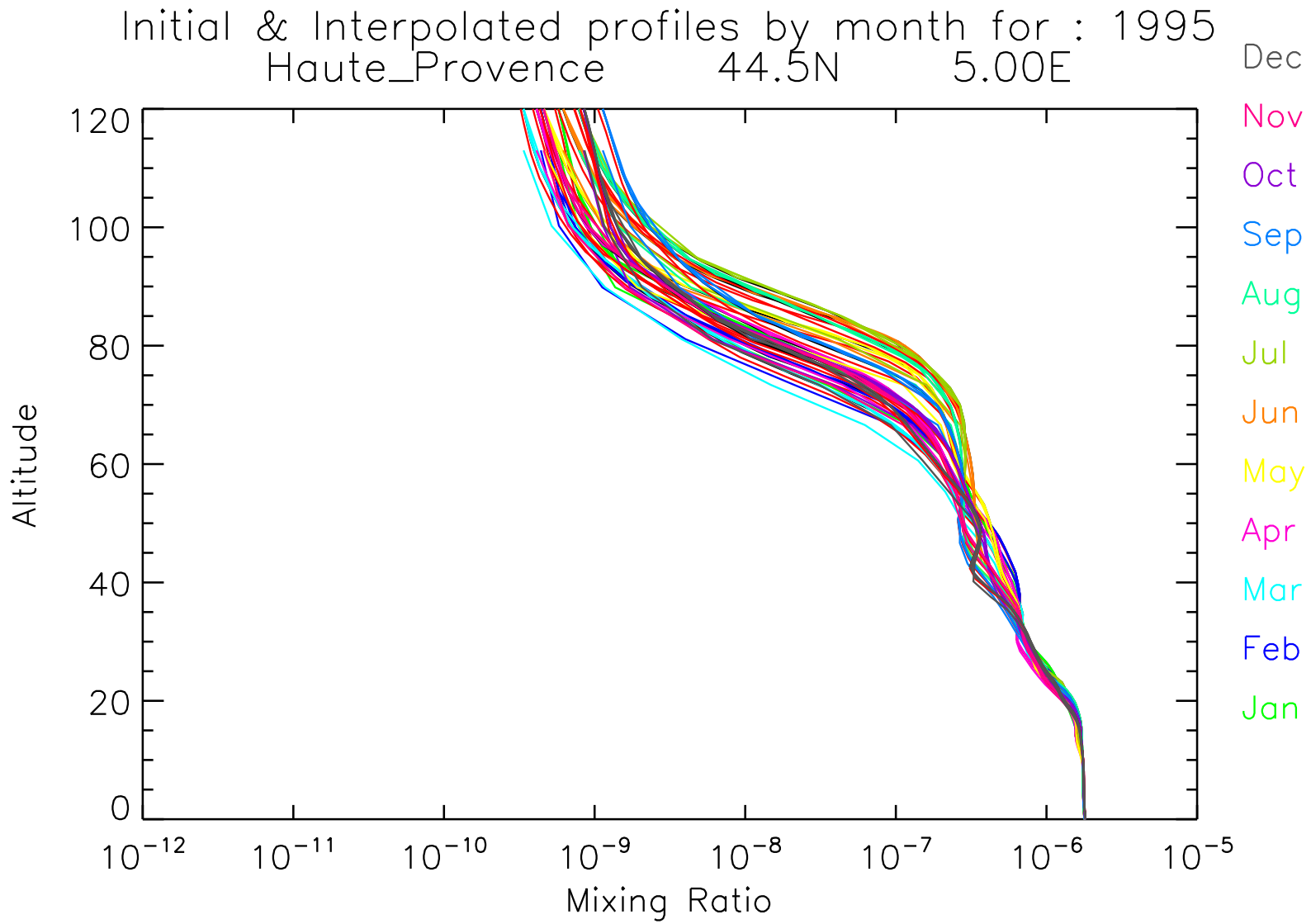
Initial & Interpolated profiles by month for : 1995
Haute_Provence 44.5N 5.00E
Altitude
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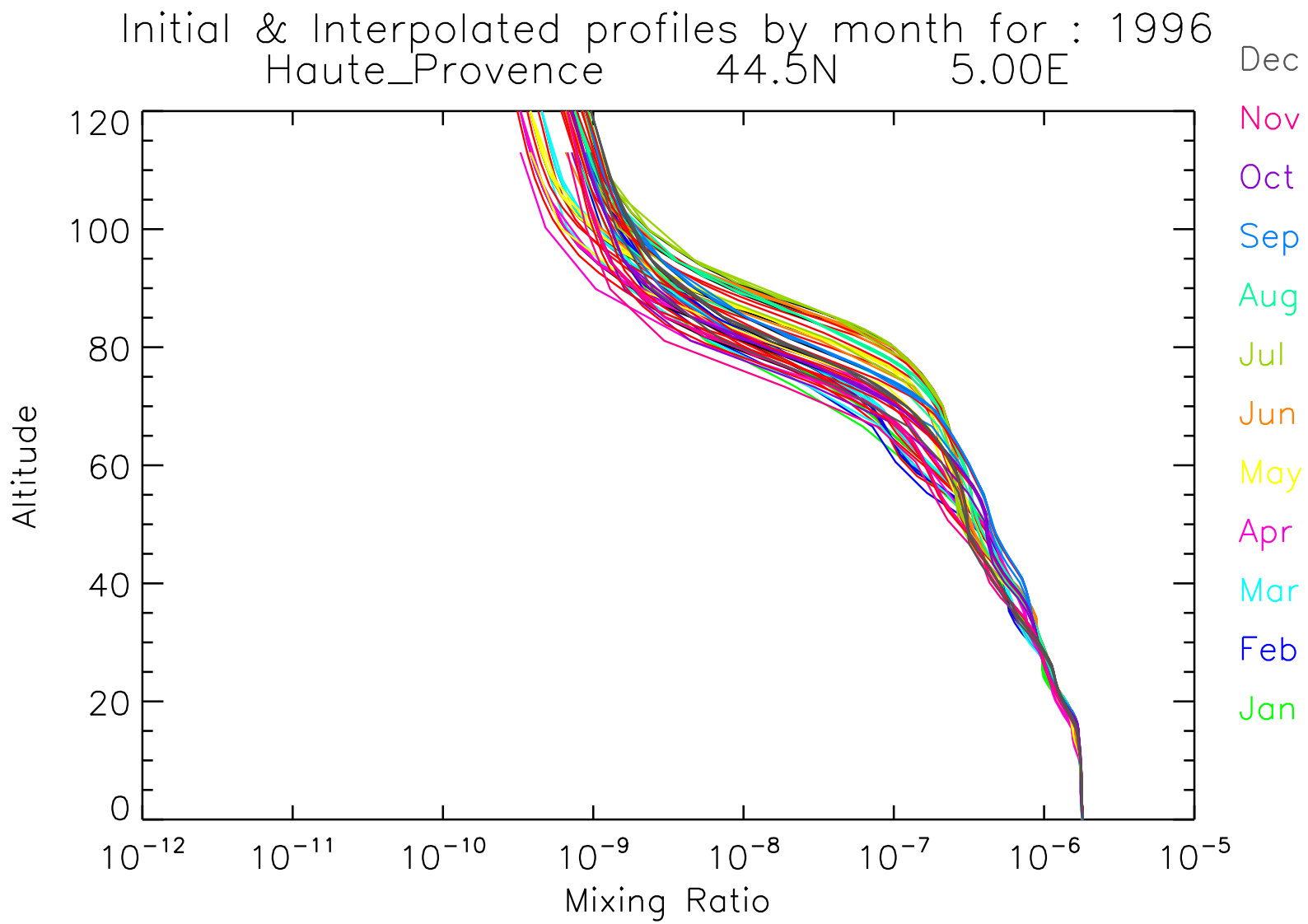
Initial & Interpolated profiles by month for : 1996
Haute_Provence 44.5N 5.00E
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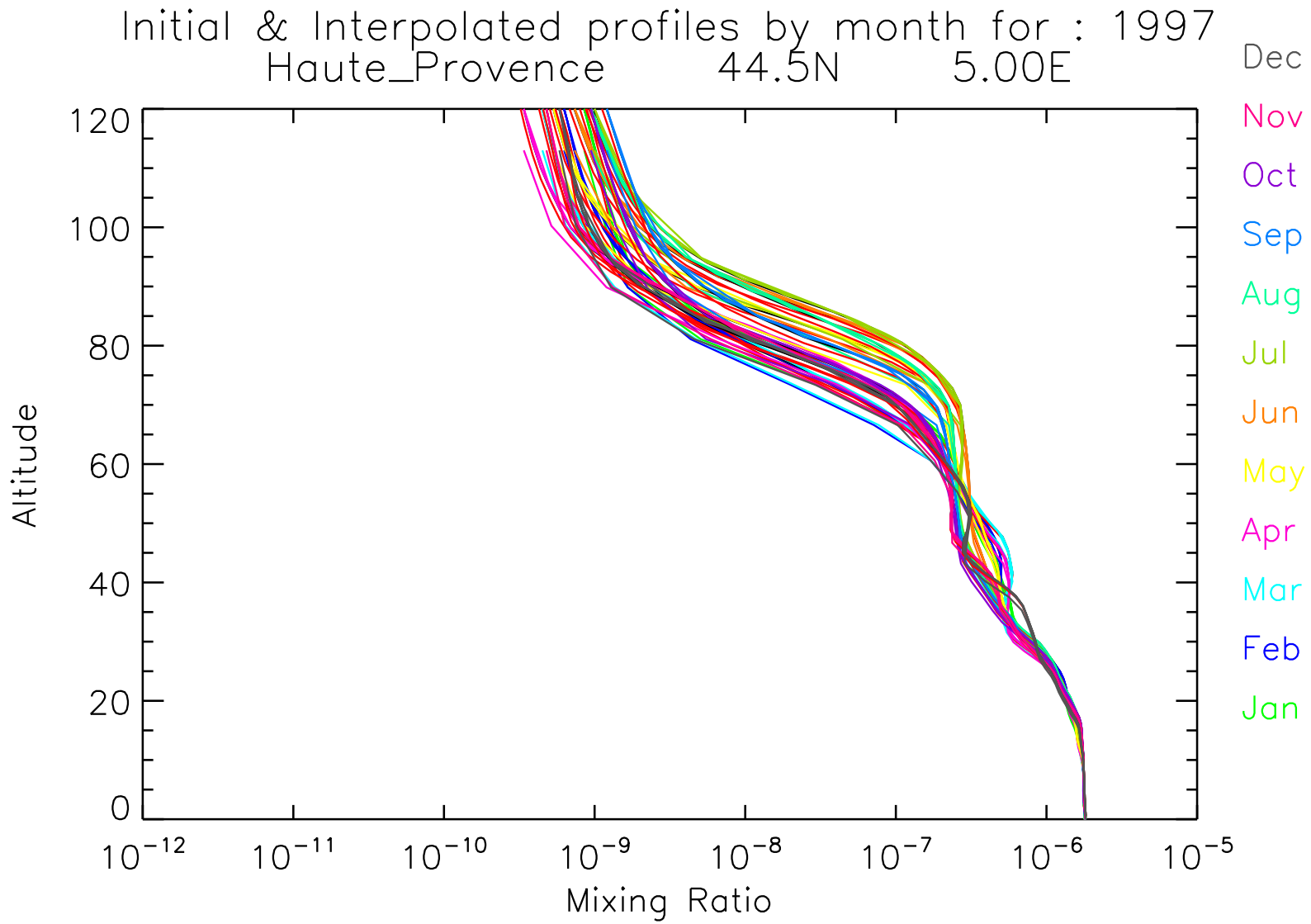
Initial & Interpolated profiles by month for : 1997
Haute_Provence 44.5N 5.00E
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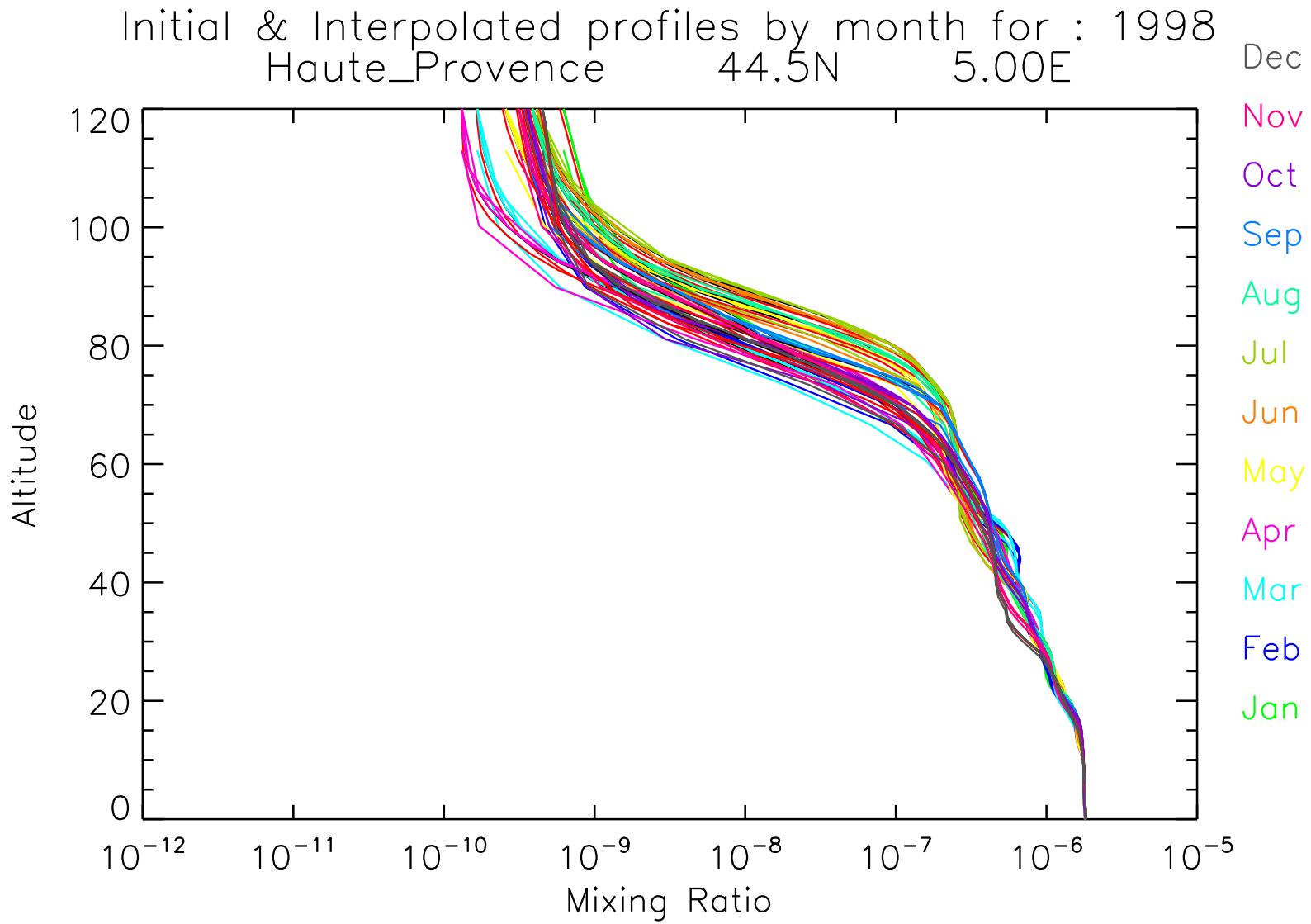
Initial & Interpolated profiles by month for : 1998
Haute_Provence 44.5N 5.00E
Altitude
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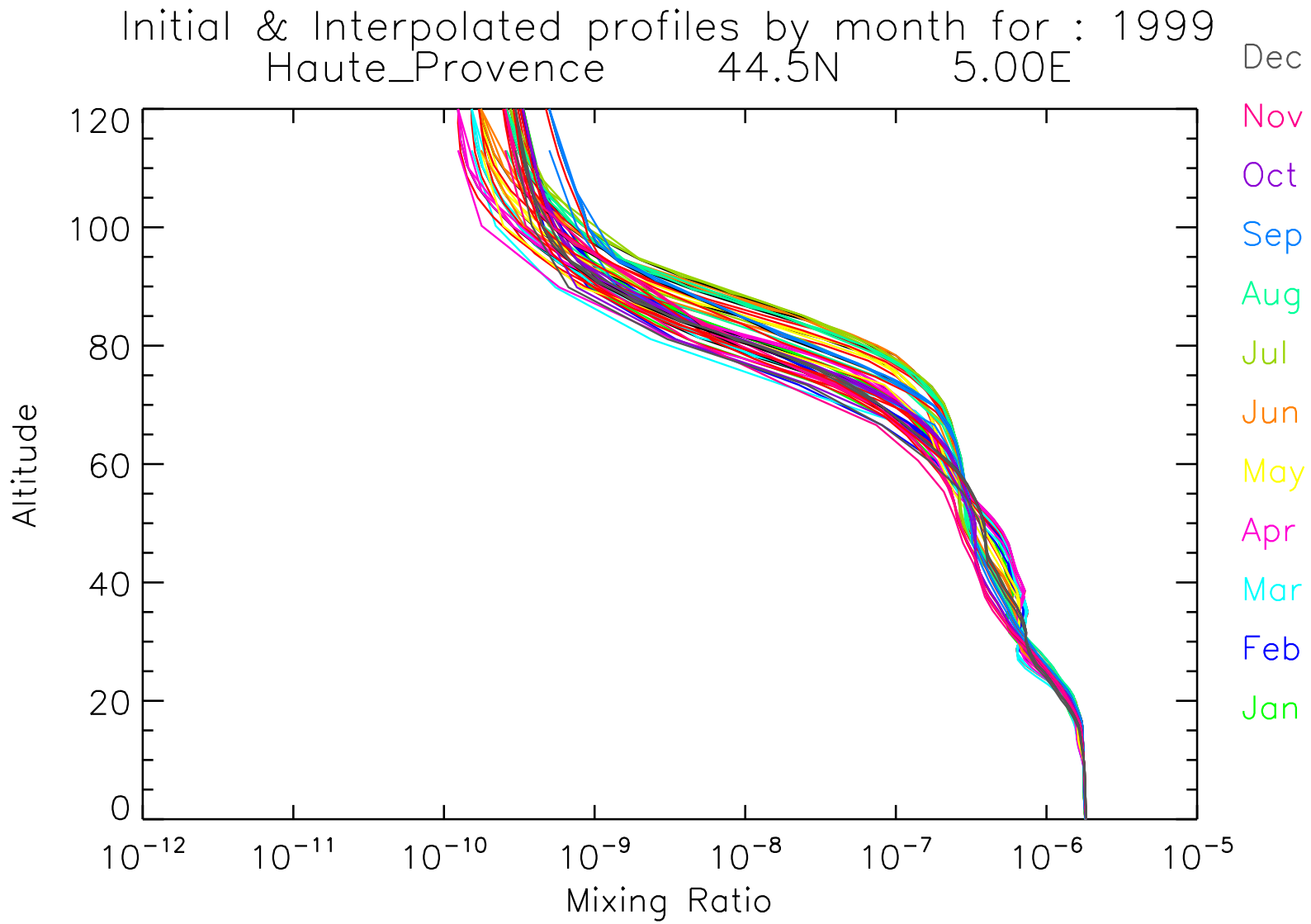
Initial & Interpolated profiles by month for : 1999
Haute_Provence 44.5N 5.00E
Altitude
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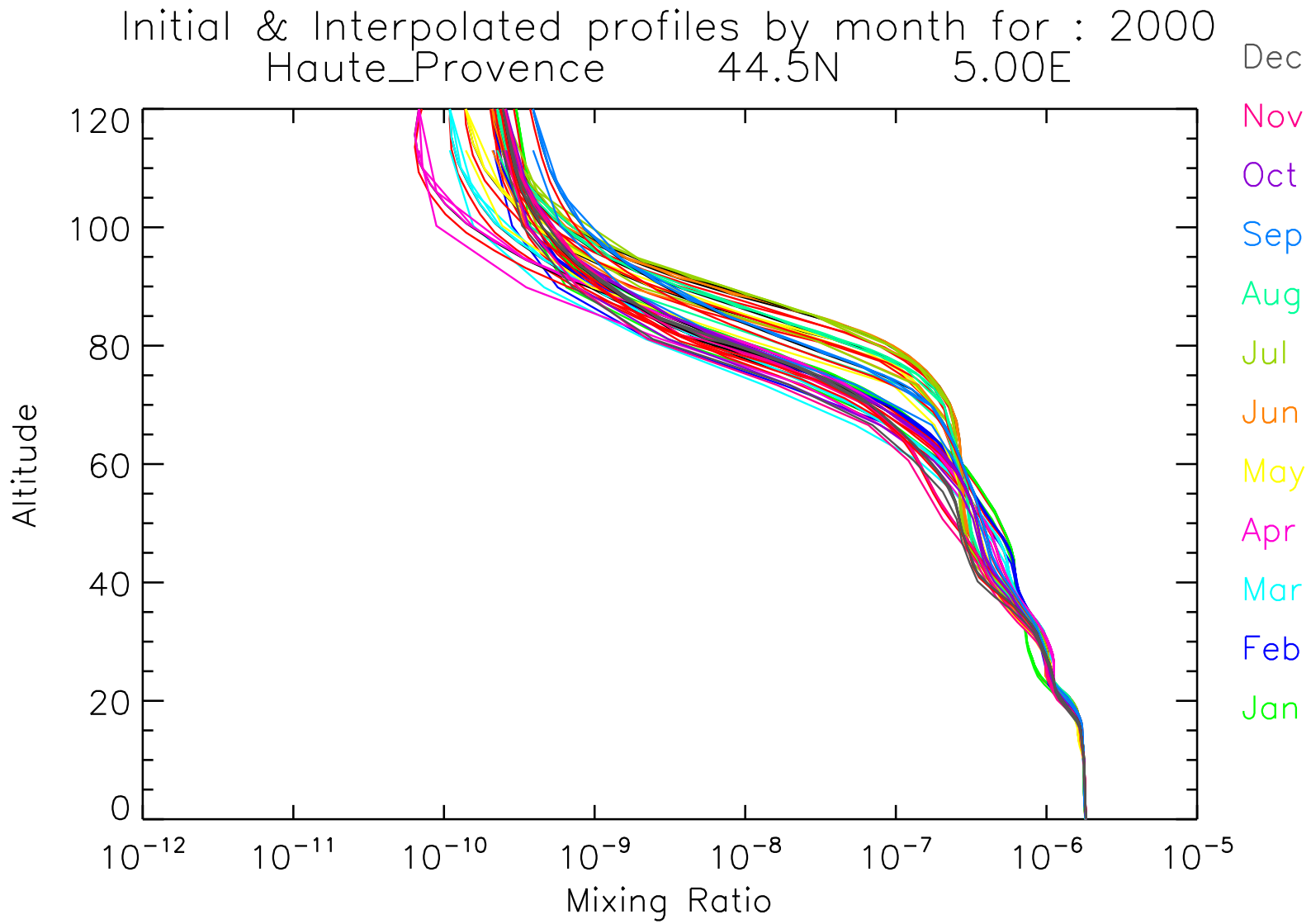
Initial & Interpolated profiles by month for : 2000
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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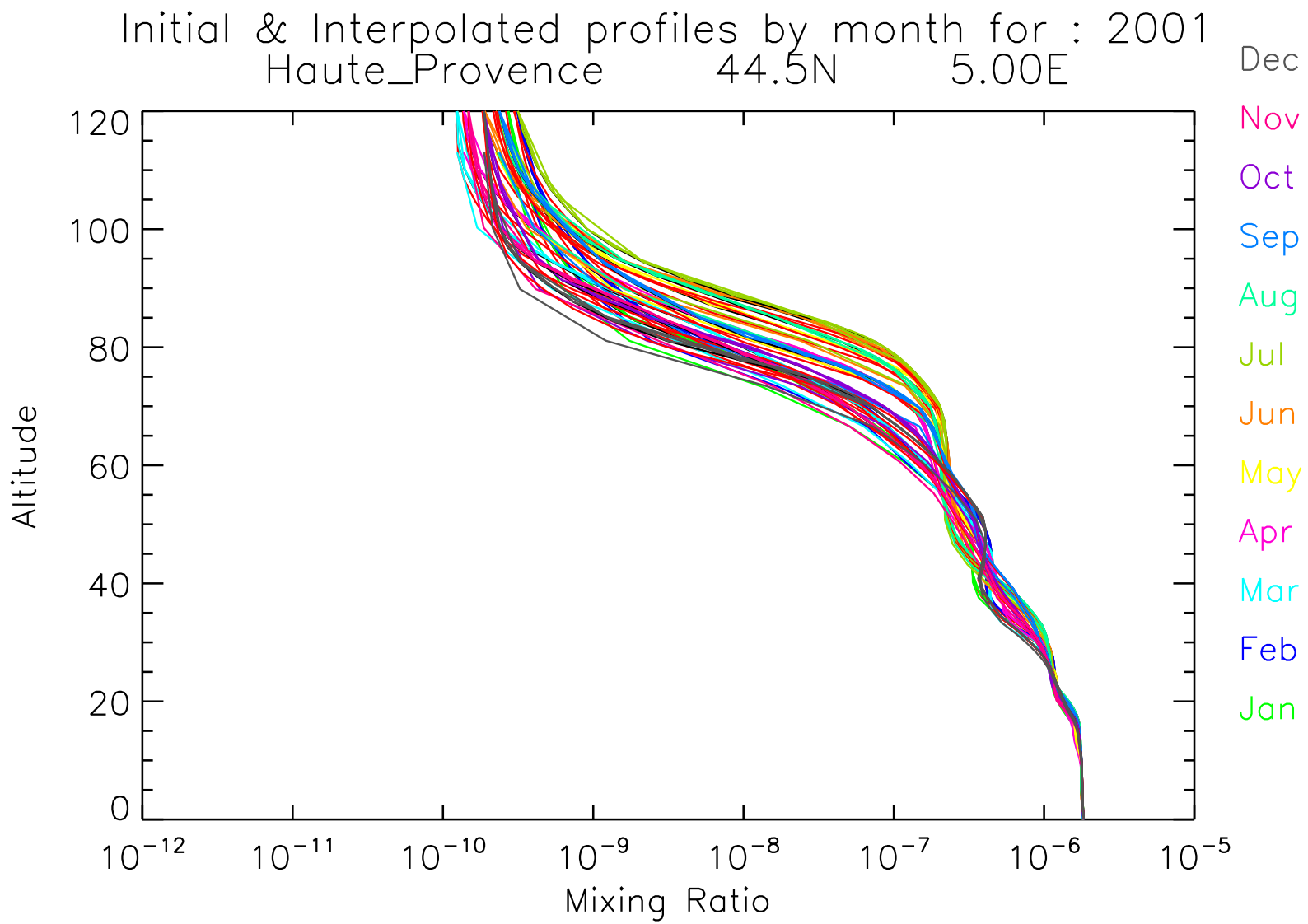
Initial & Interpolated profiles by month for : 2001
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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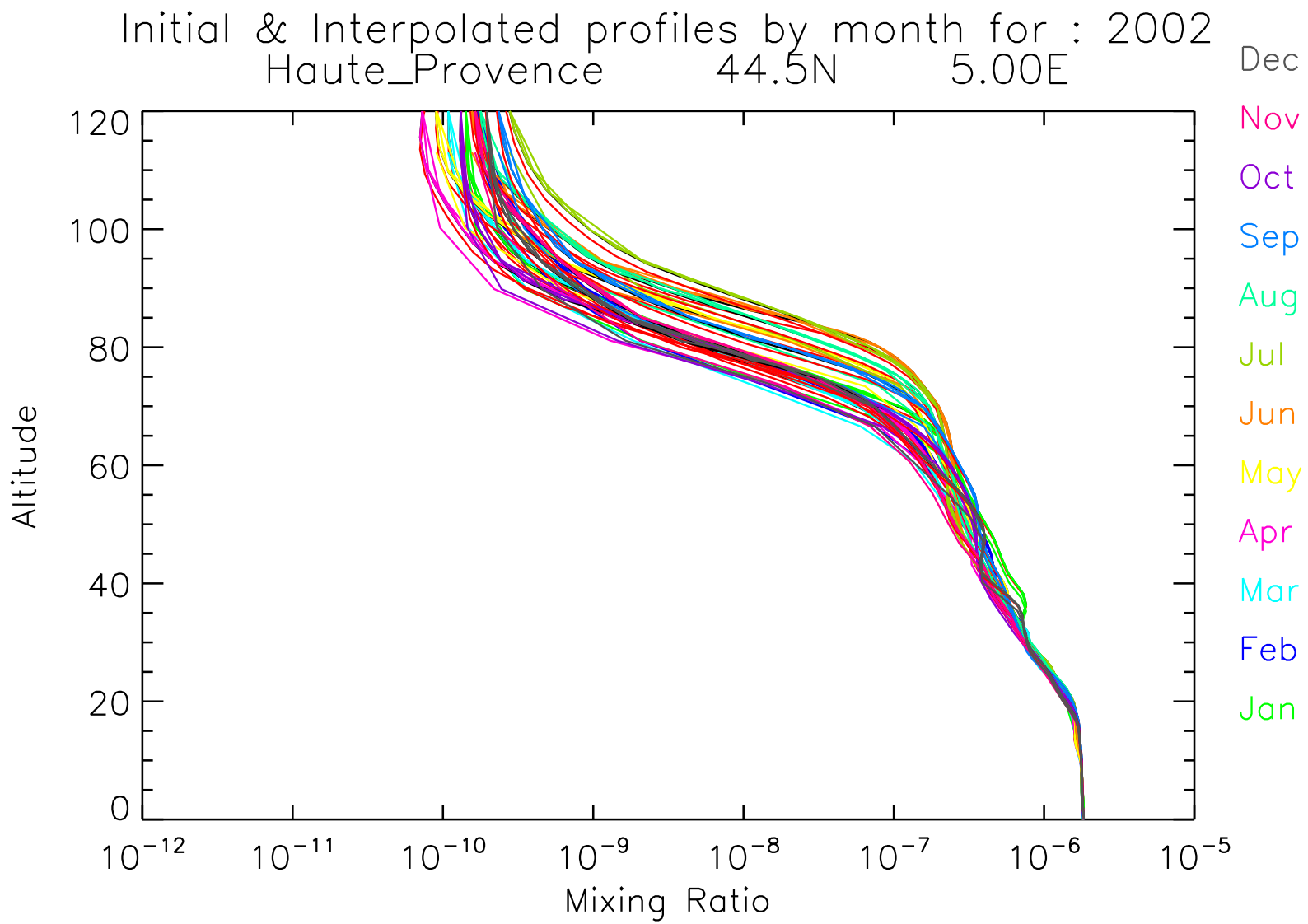
Initial & Interpolated profiles by month for : 2002
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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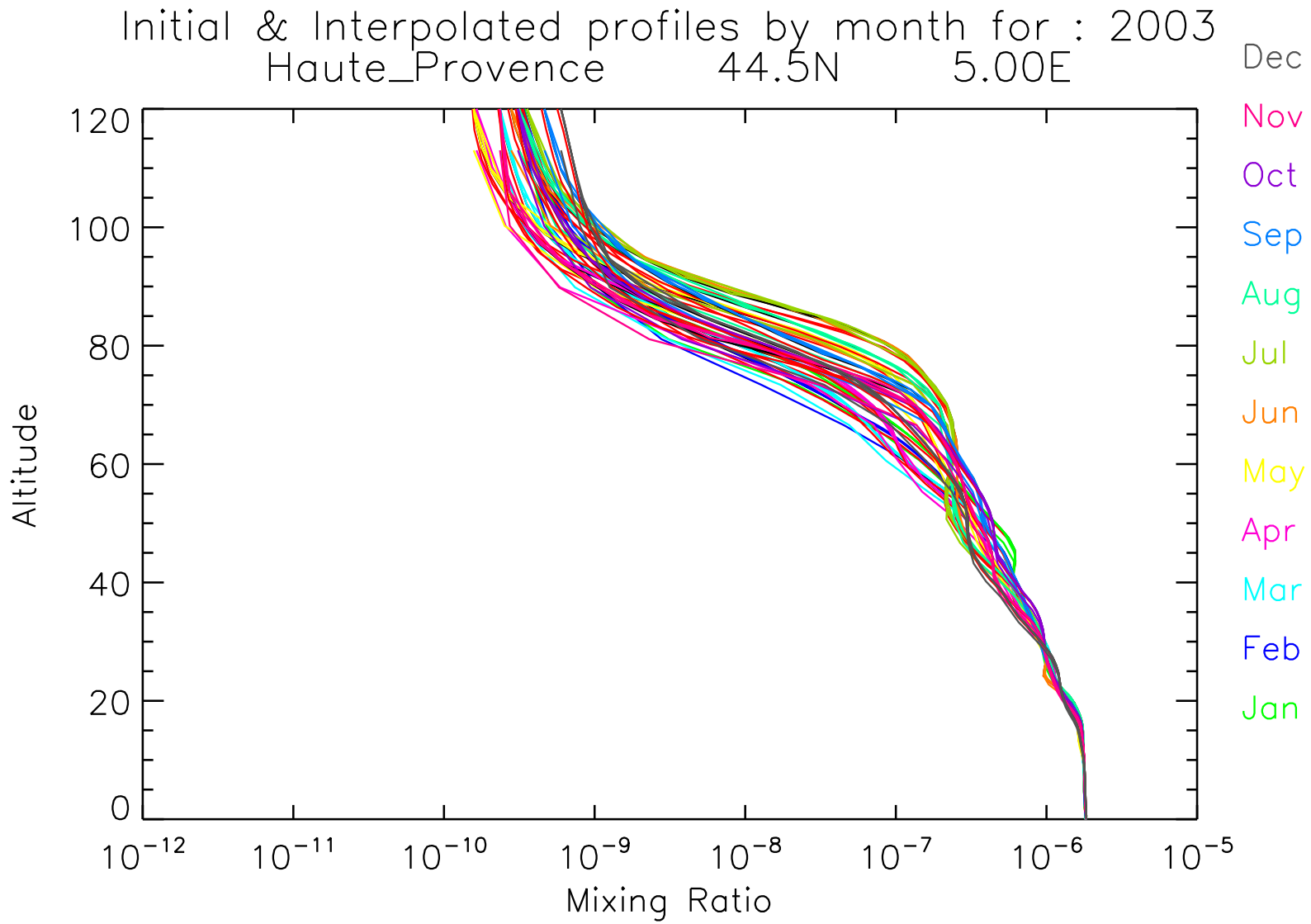
Initial & Interpolated profiles by month for : 2003
Haute_Provence 44.5N 5.00E
Altitude
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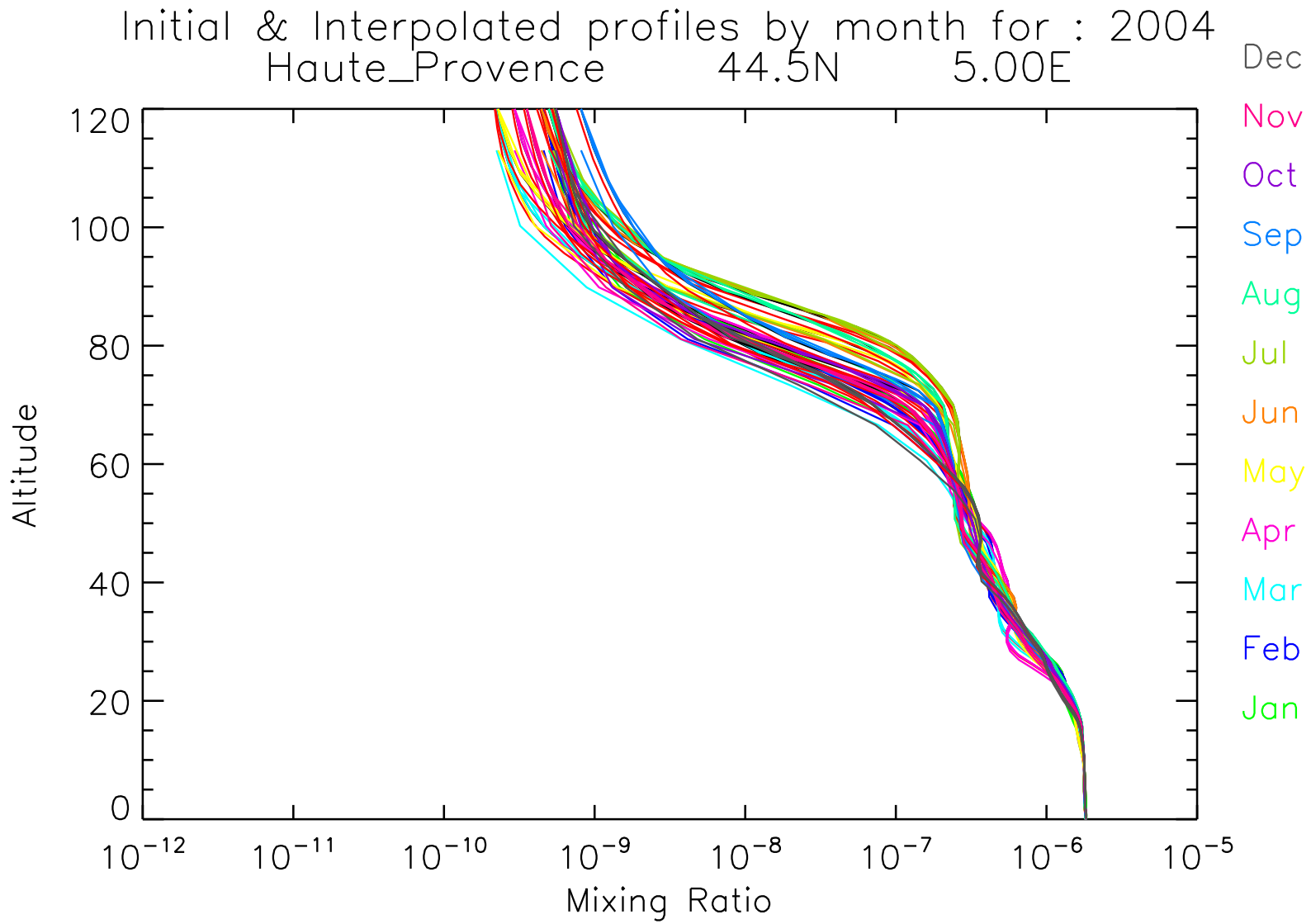
Initial & Interpolated profiles by month for : 2004
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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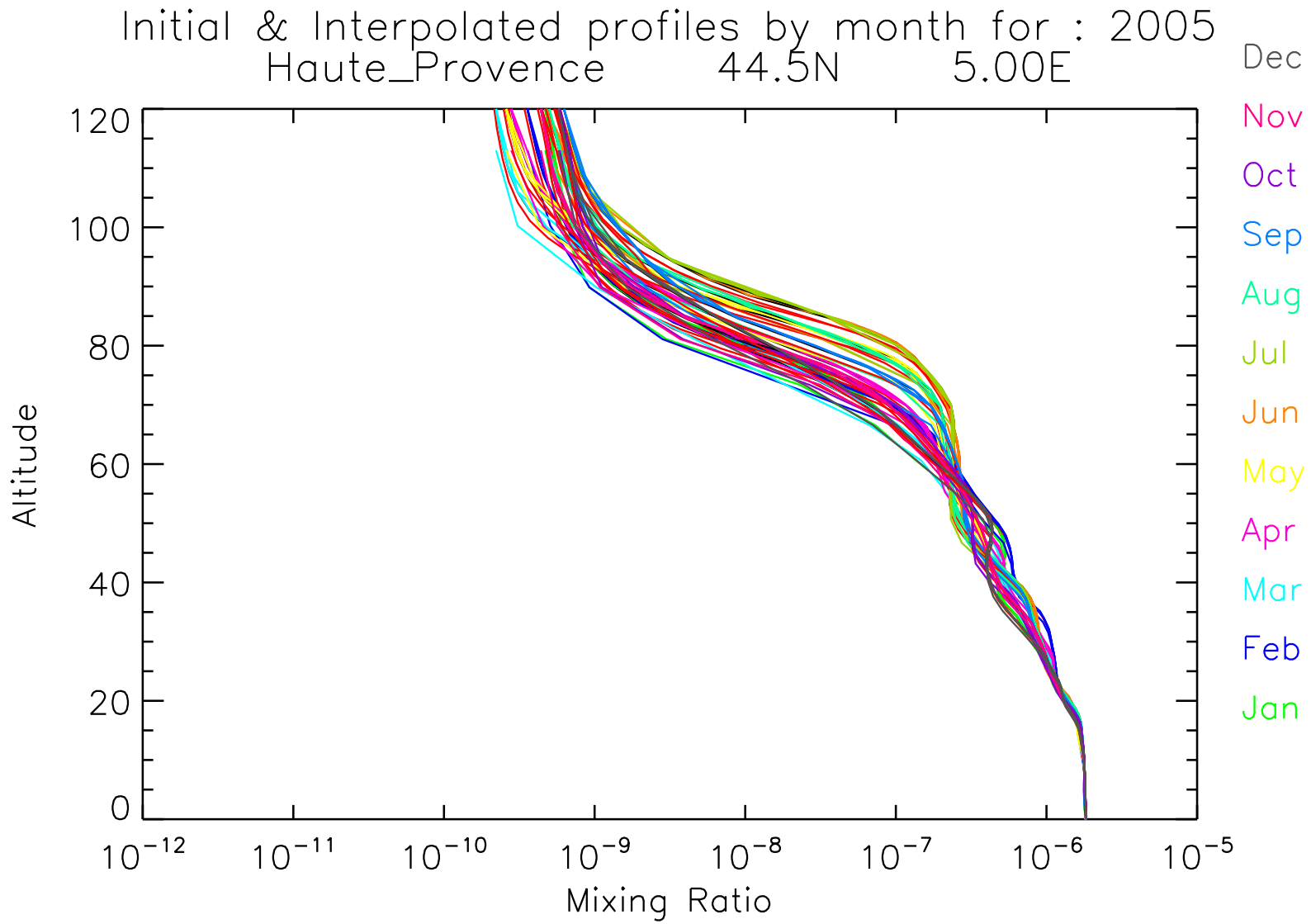
Initial & Interpolated profiles by month for : 2005
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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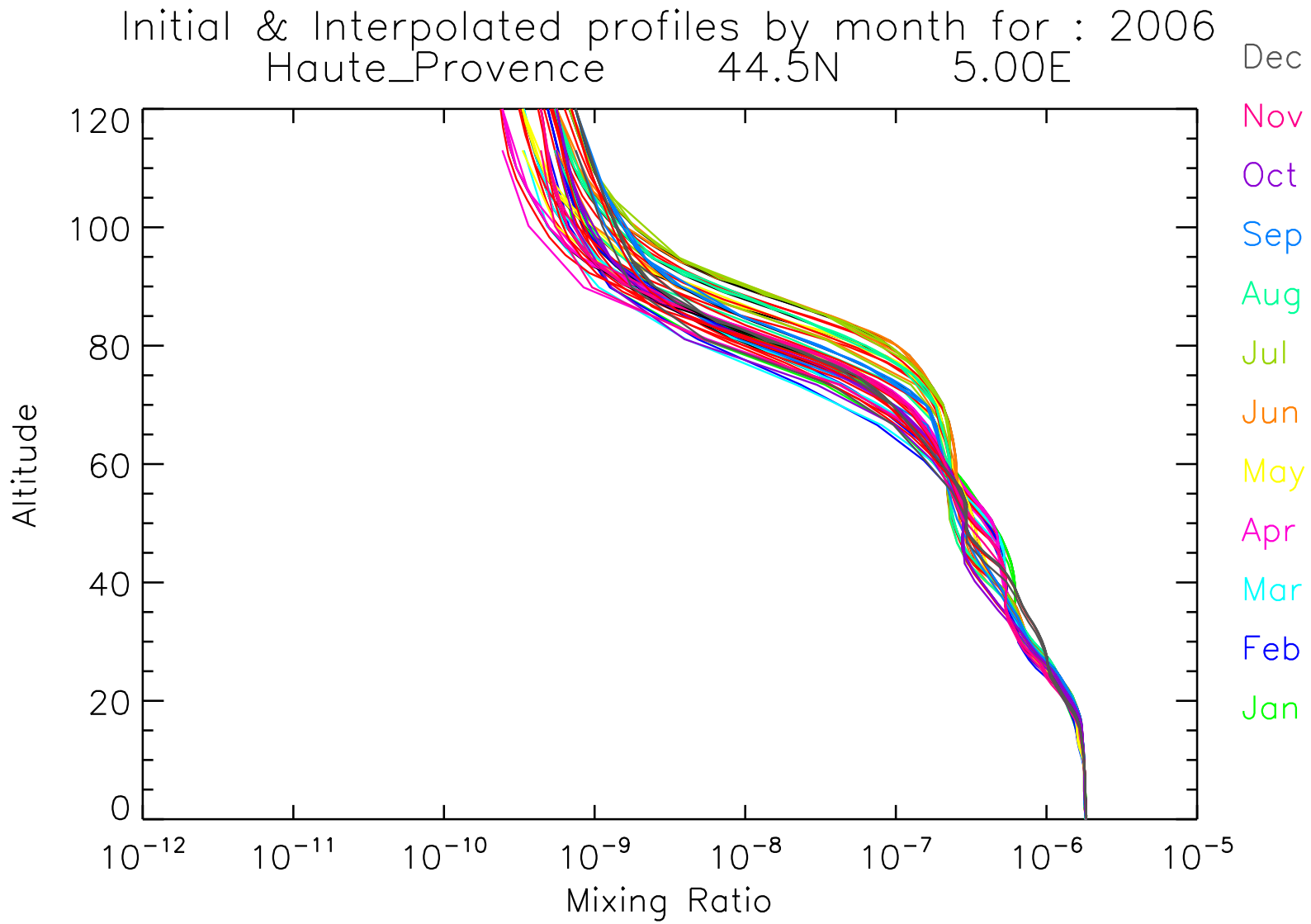
Initial & Interpolated profiles by month for : 2006
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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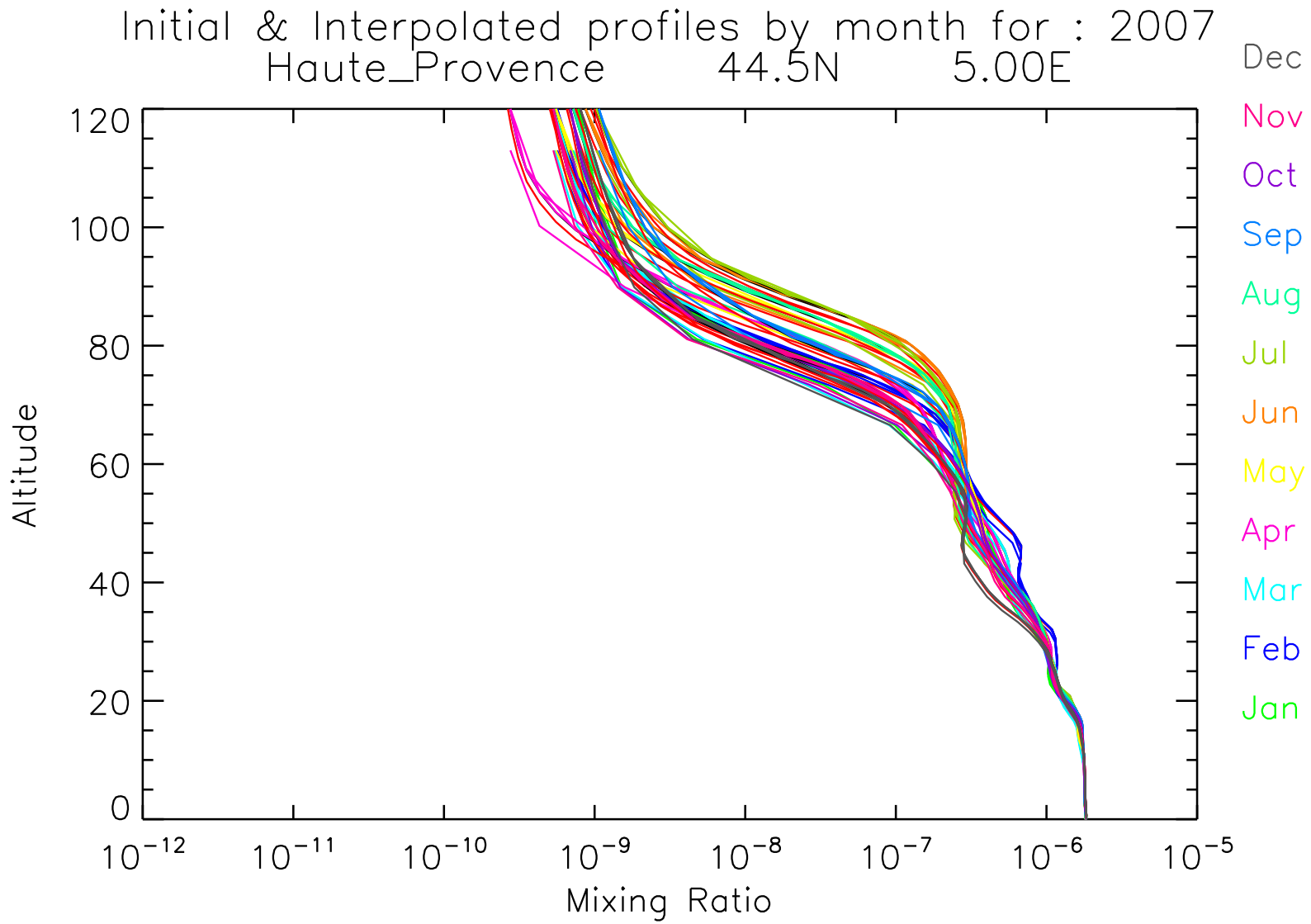
Initial & Interpolated profiles by month for : 2007
Haute_Provence 44.5N 5.00E
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Altitude
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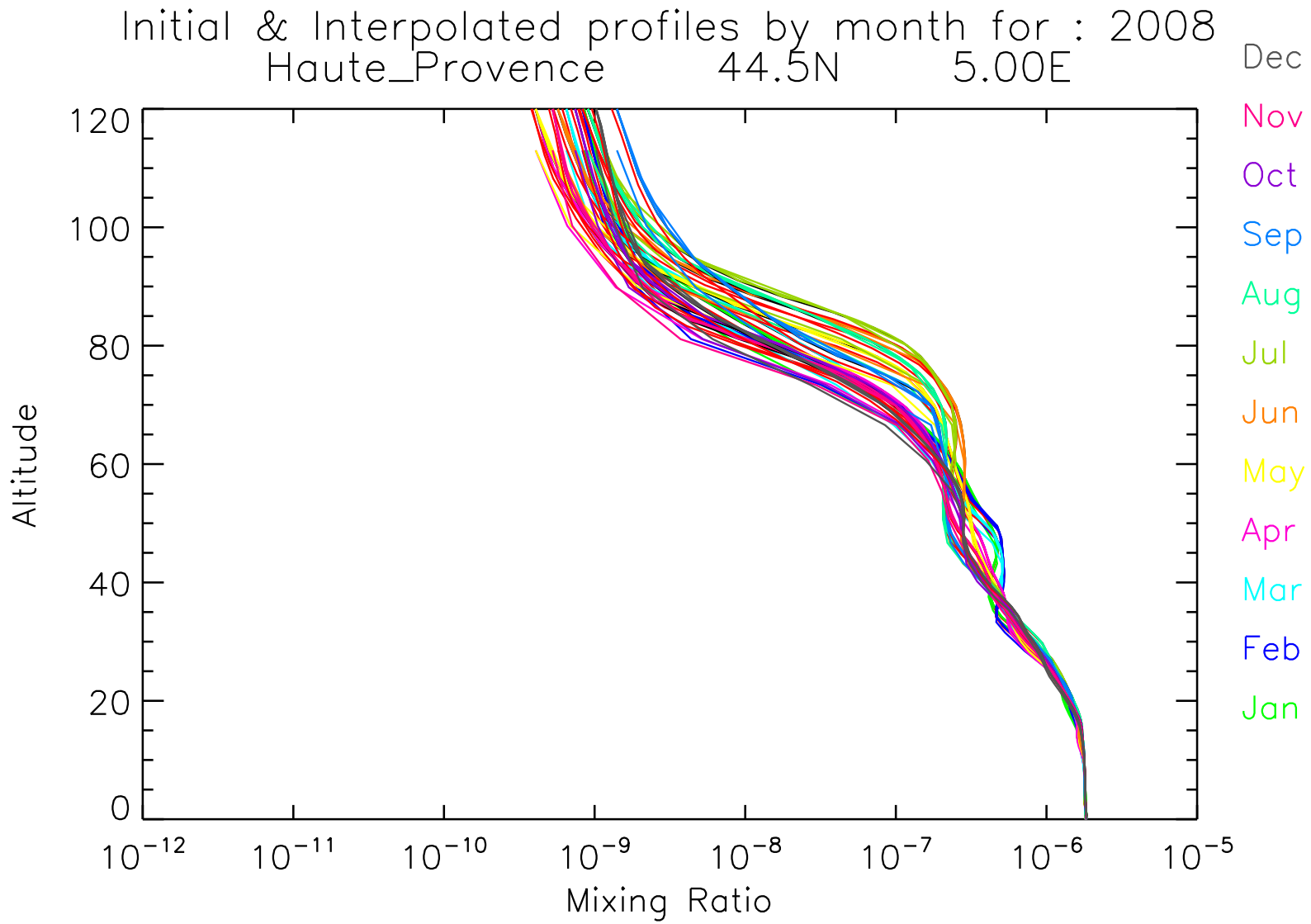
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Haute_Provence 44.5N 5.00E
Altitude
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Mixing Ratio
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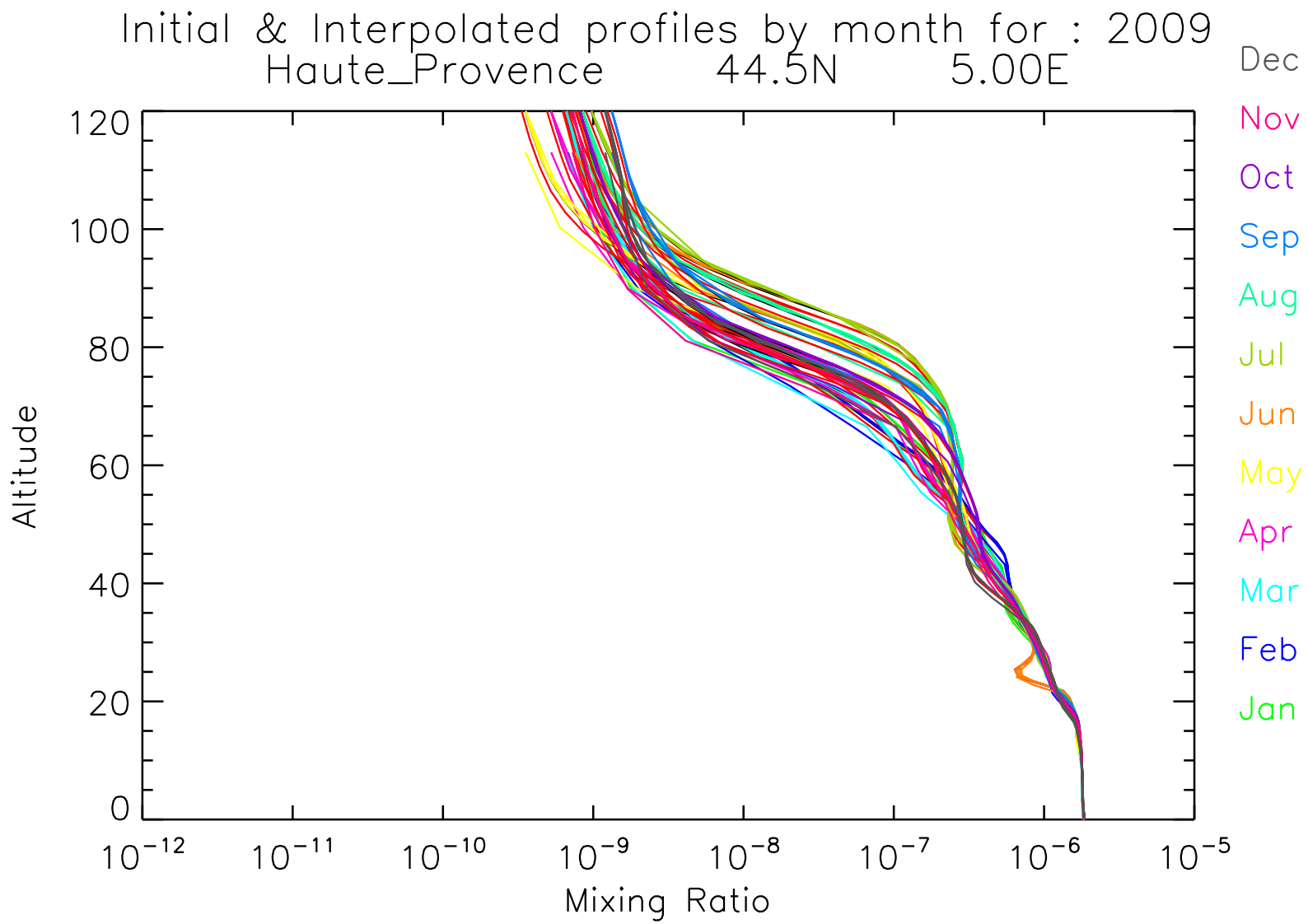
Initial & Interpolated profiles by month for : 2009
Haute_Provence 44.5N 5.00E
Altitude
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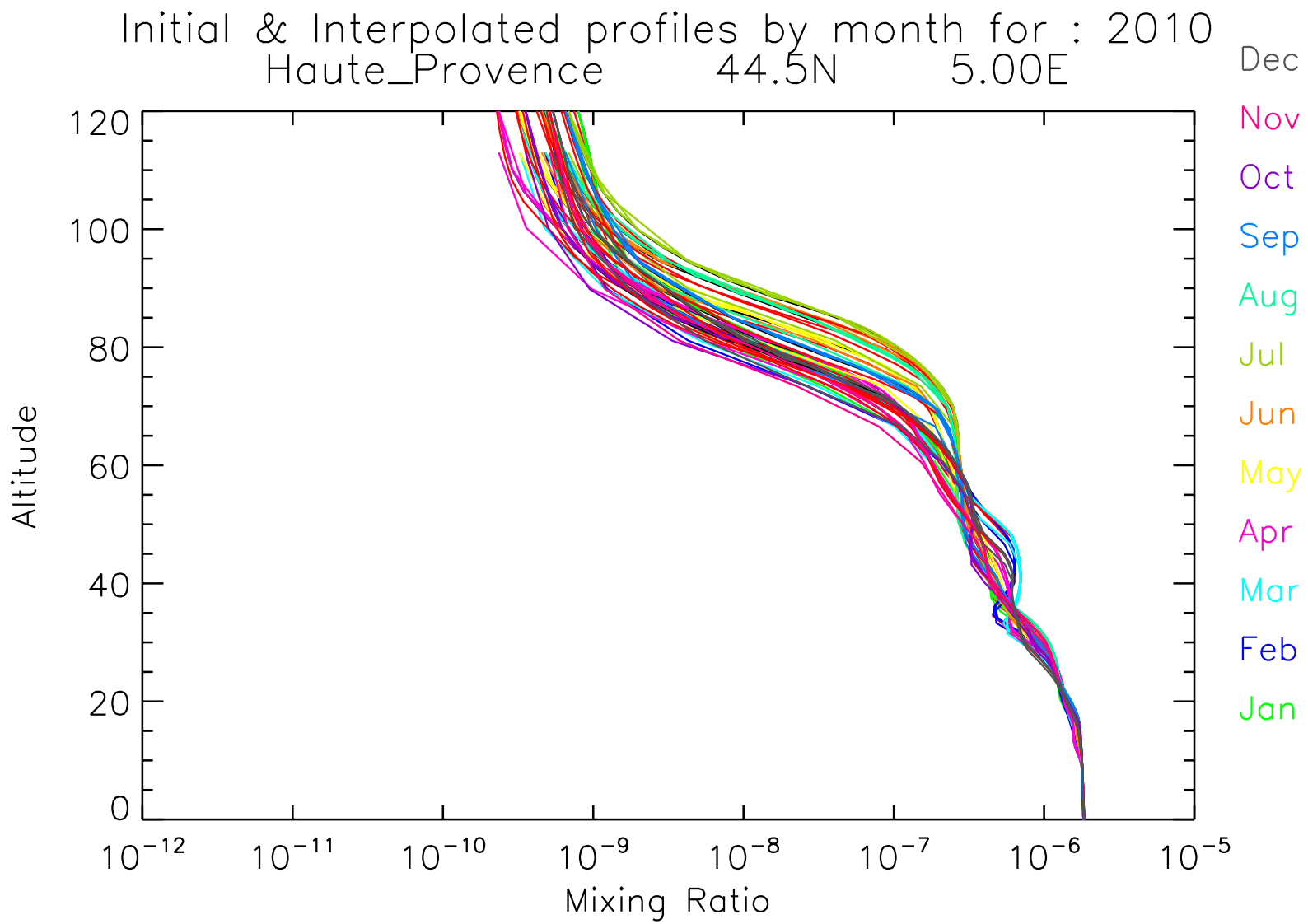
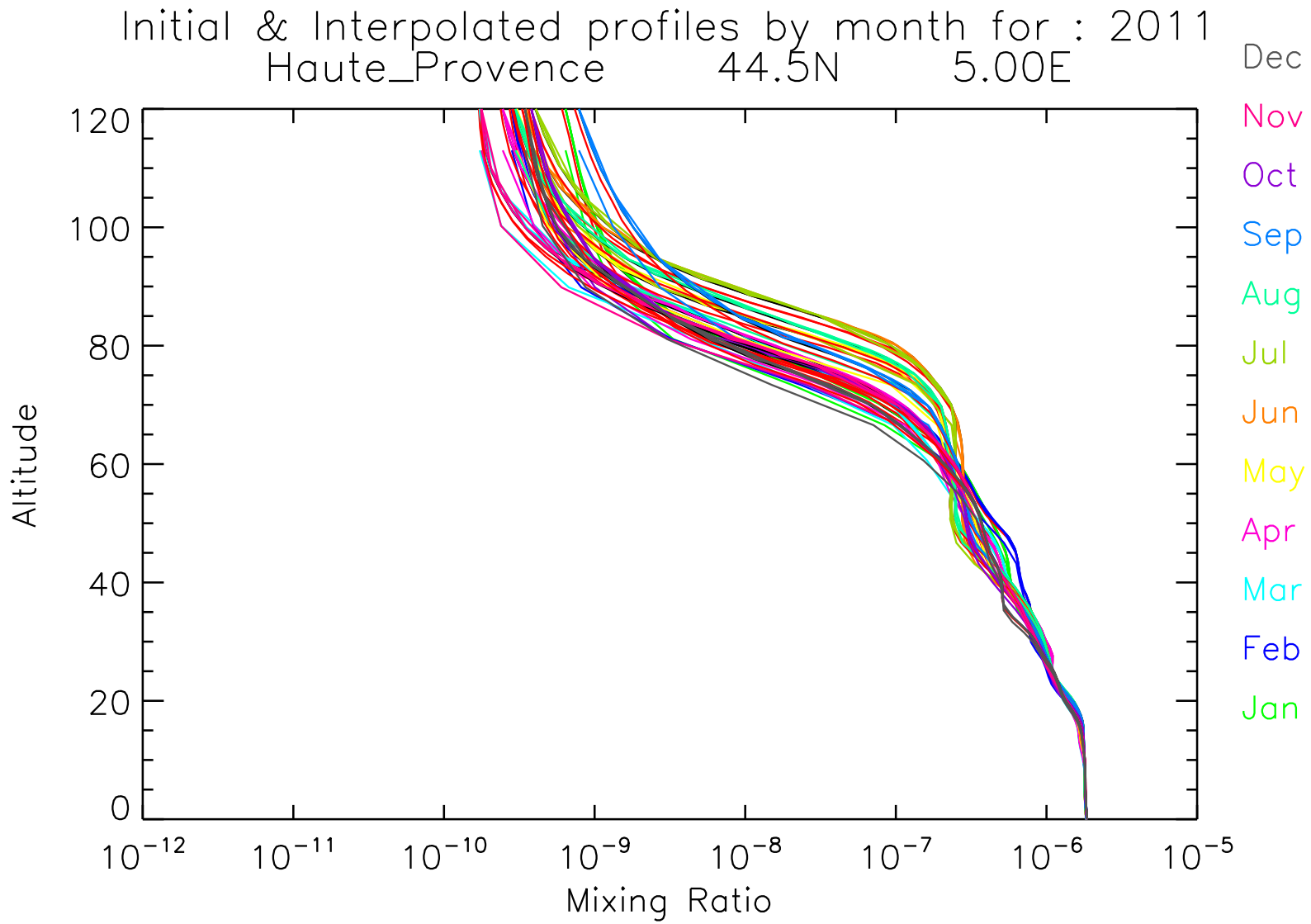
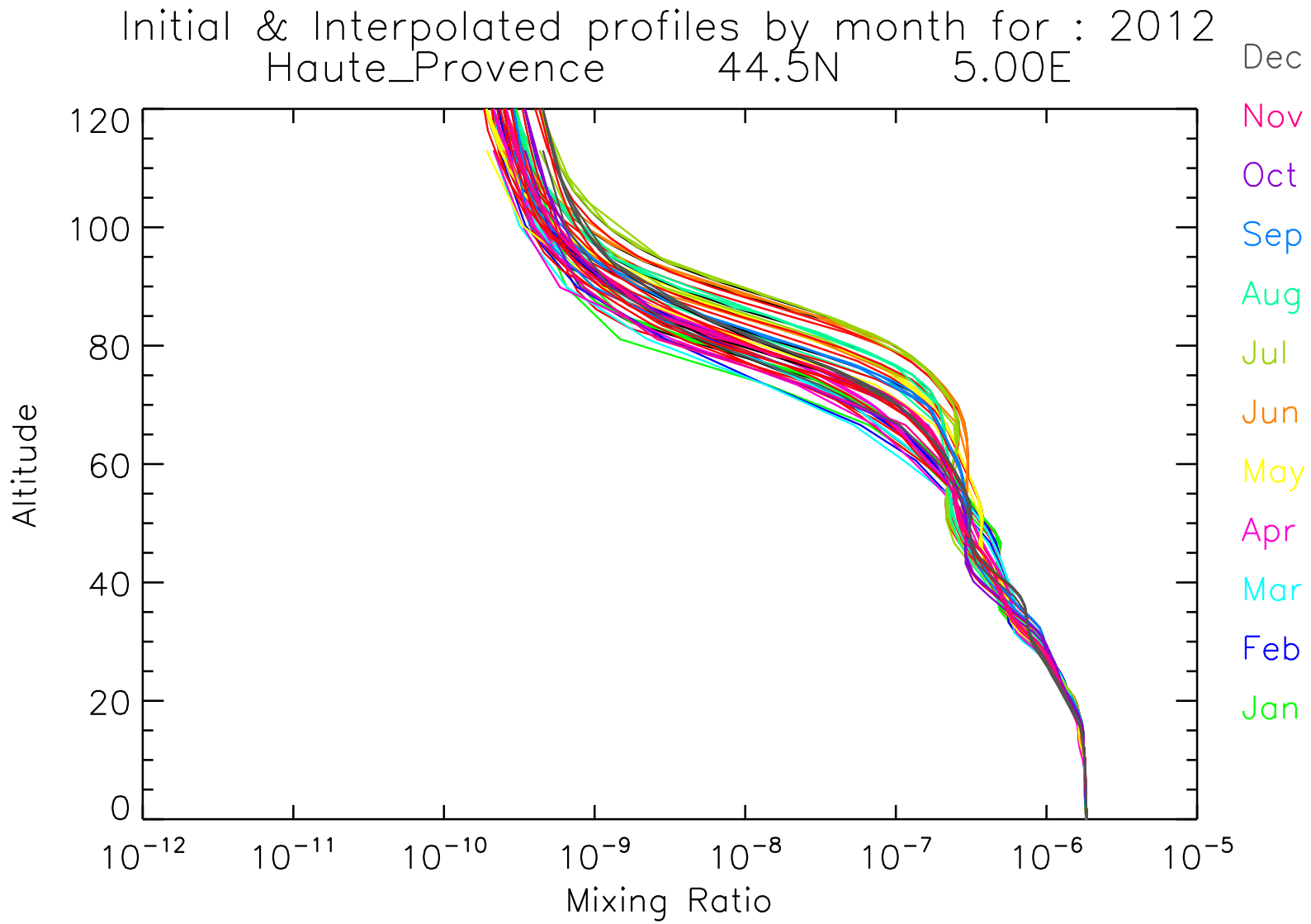
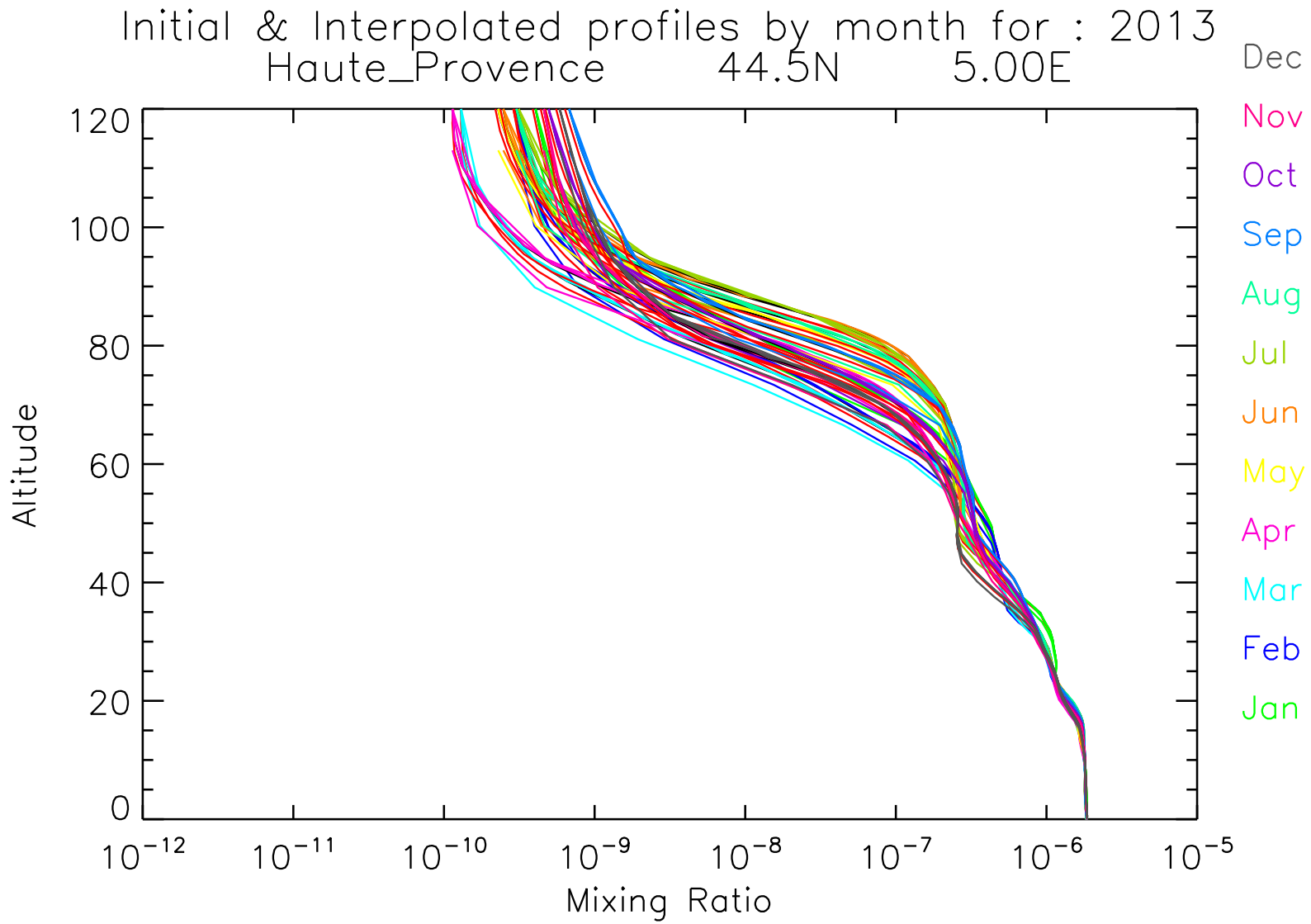
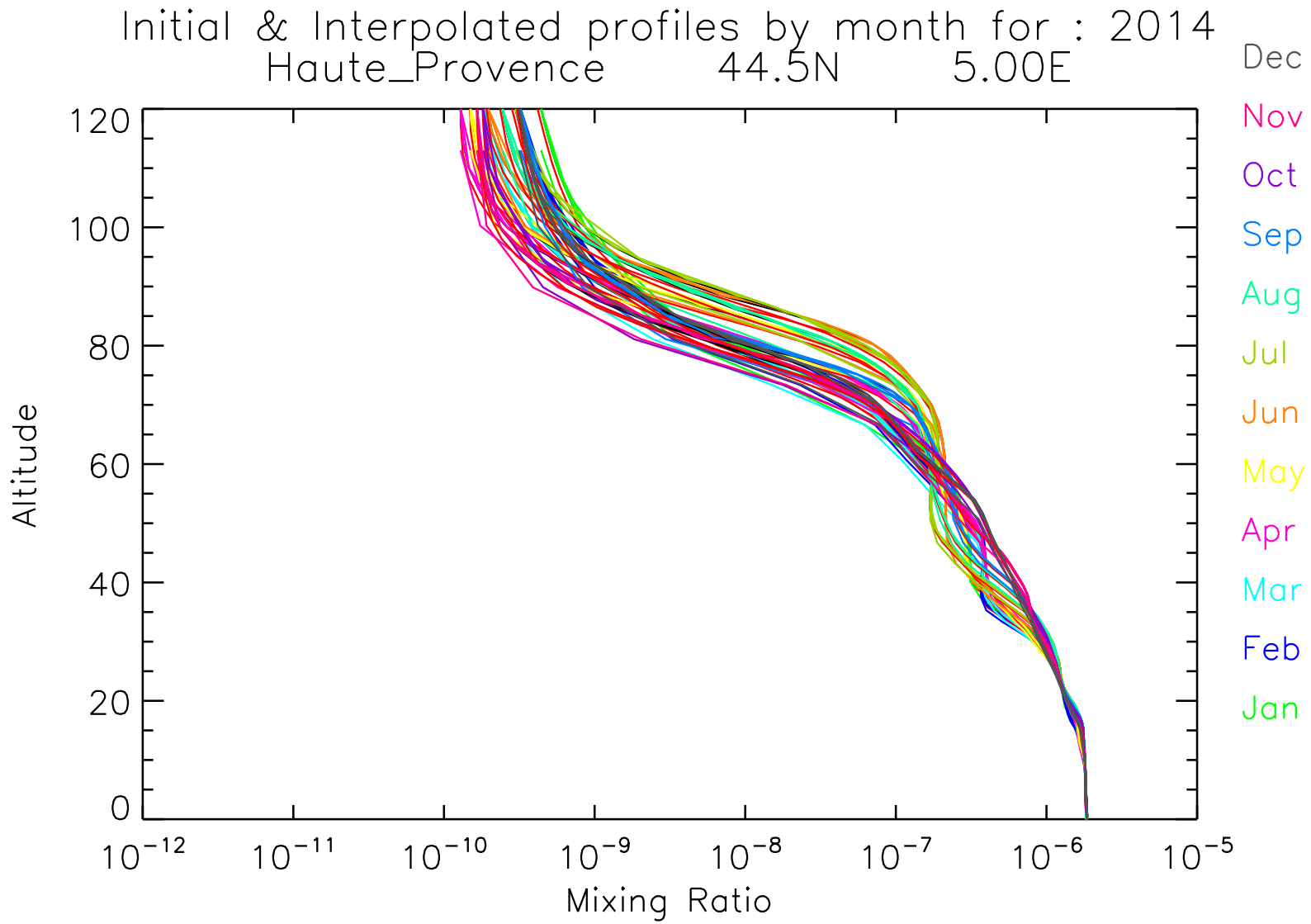
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

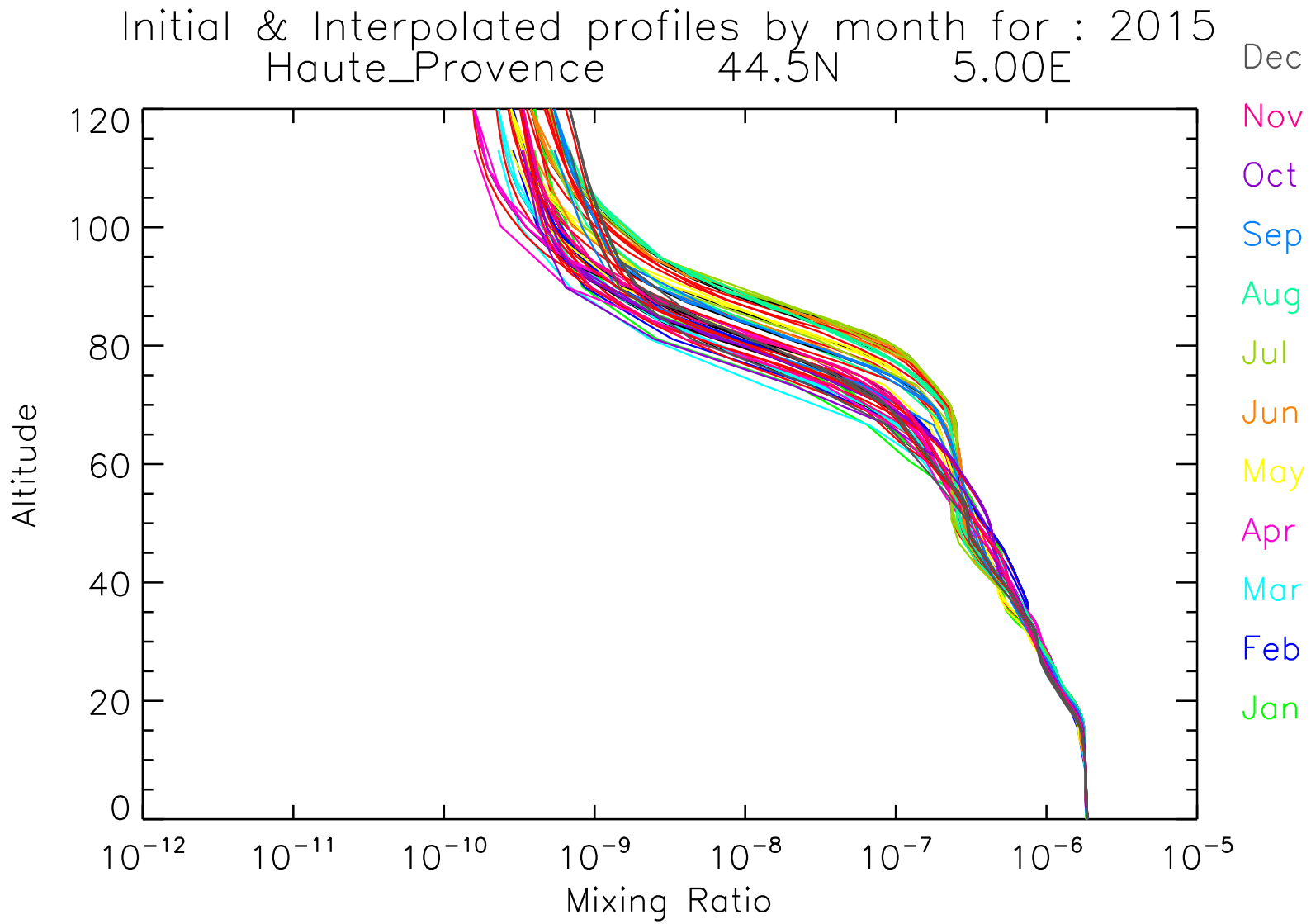

Initial & Interpolated profiles by month for : 2010
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio

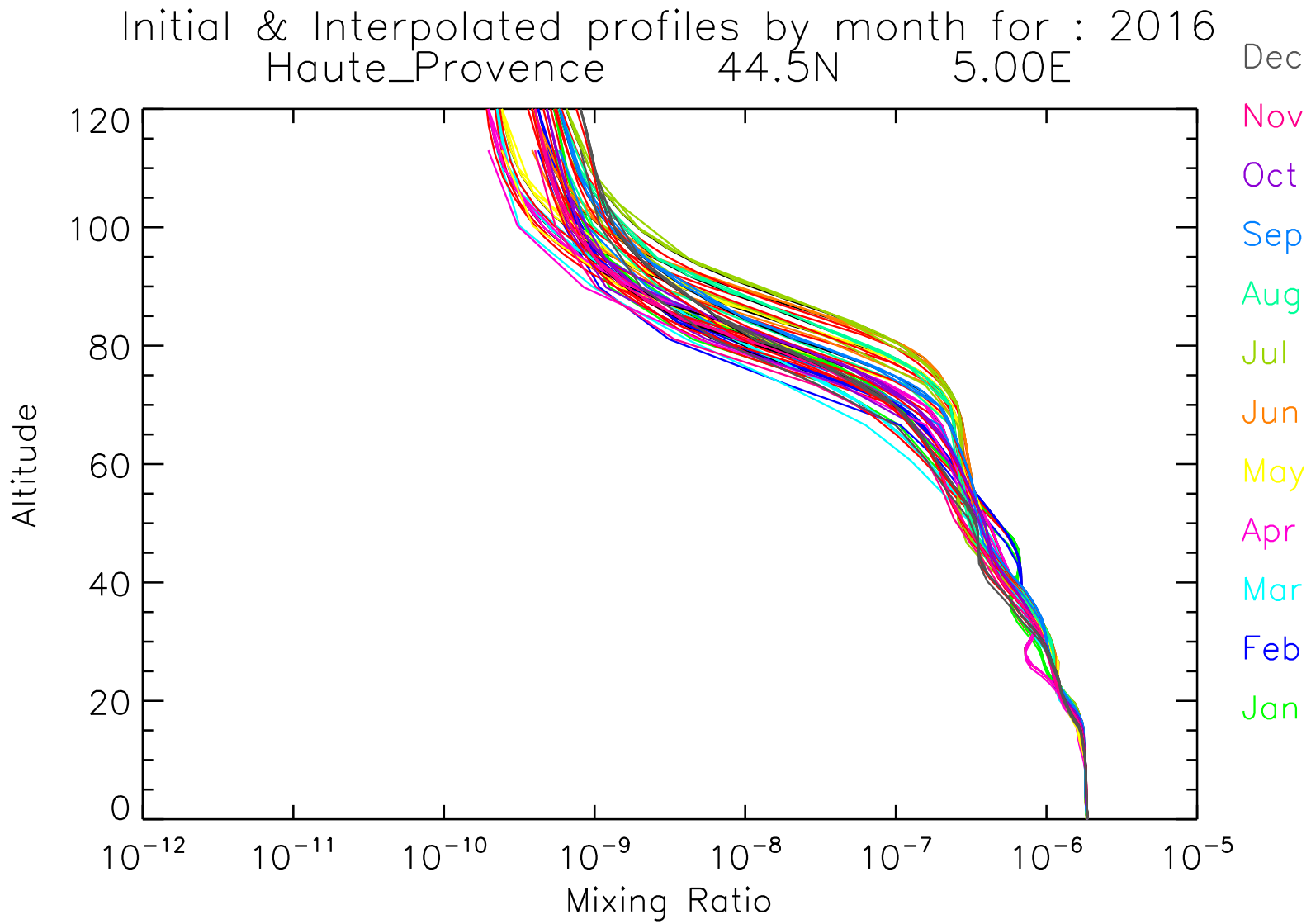

Initial & Interpolated profiles by month for : 2011
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

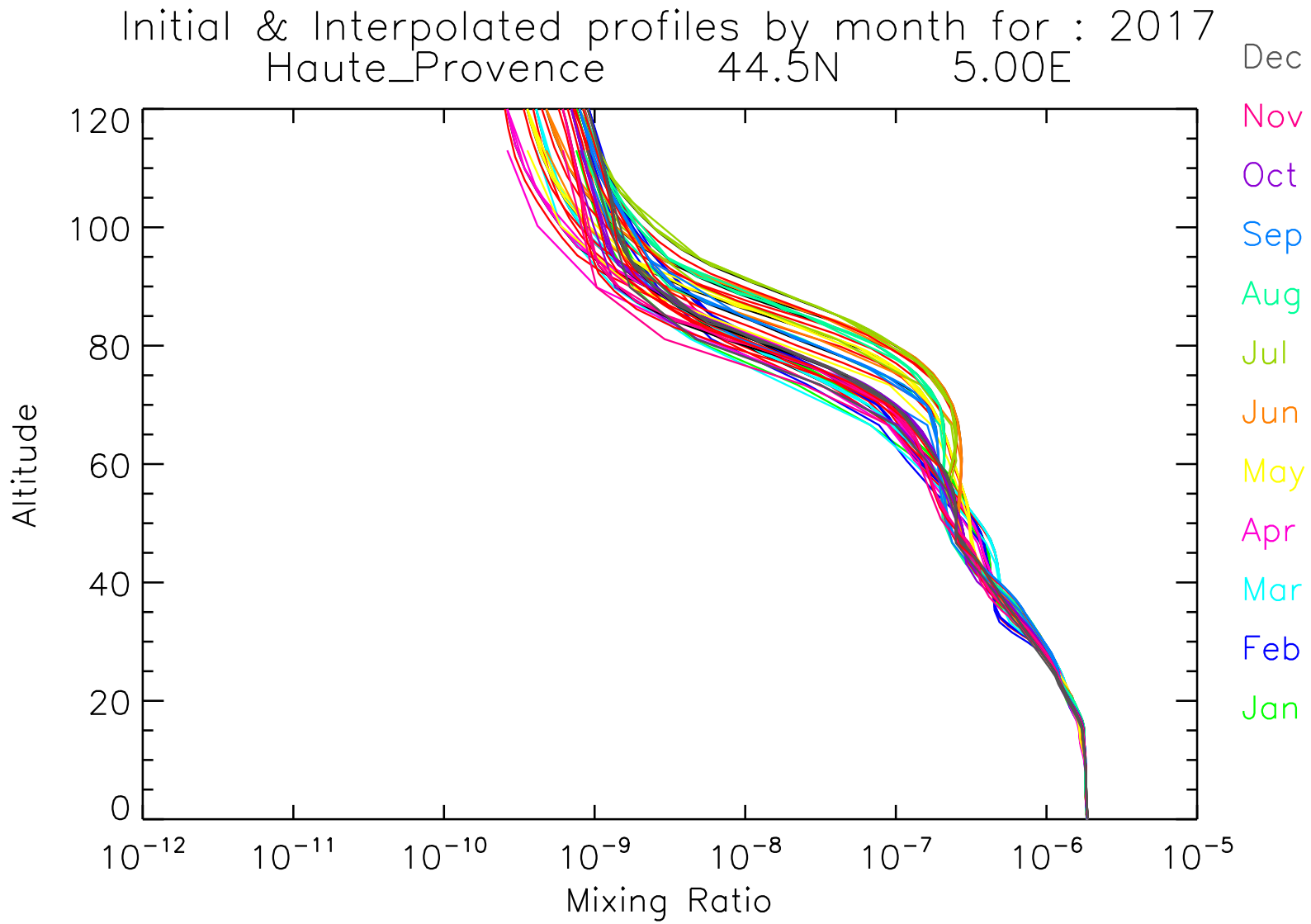

Initial & Interpolated profiles by month for : 2012
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

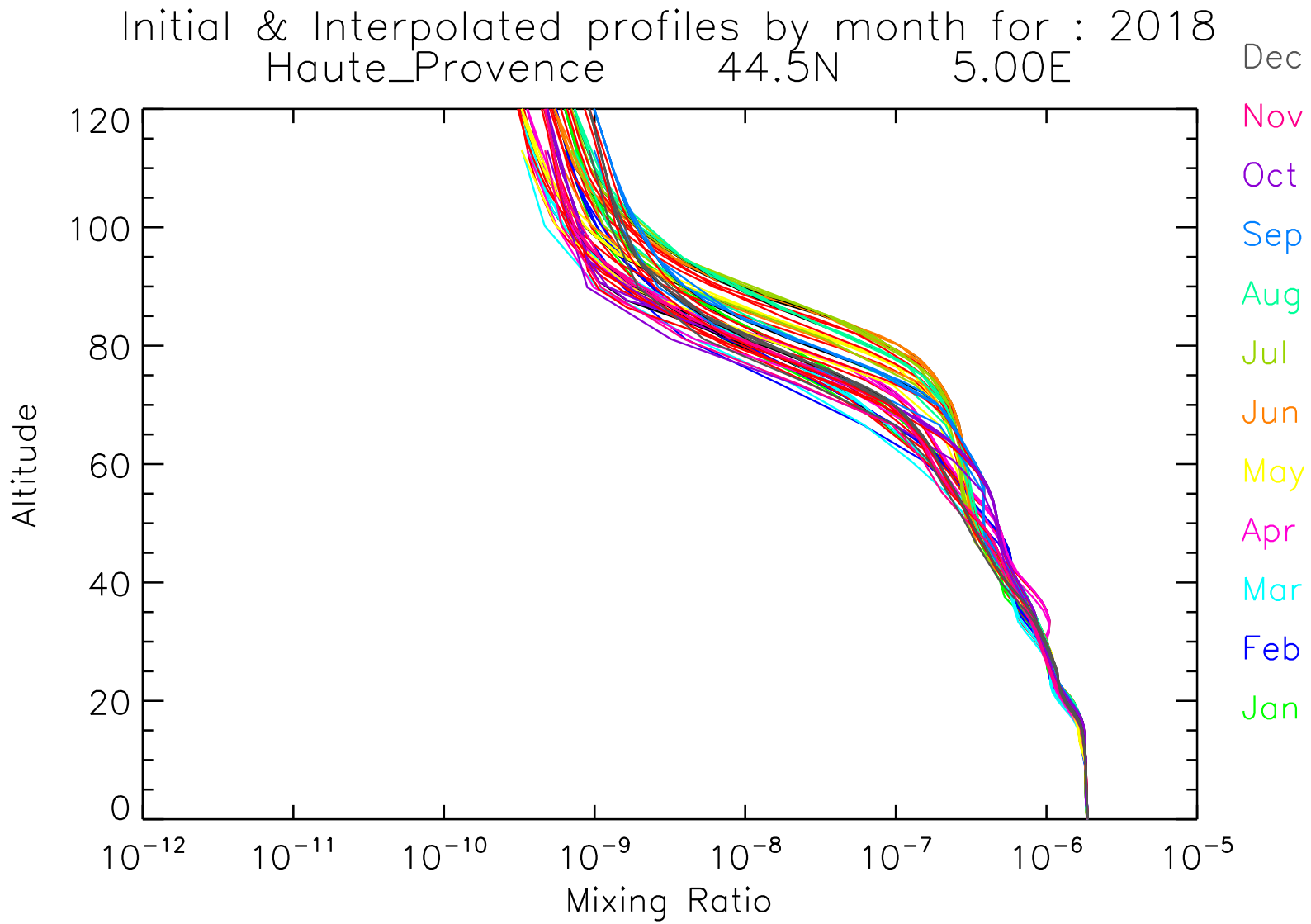

Initial & Interpolated profiles by month for : 2013
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio

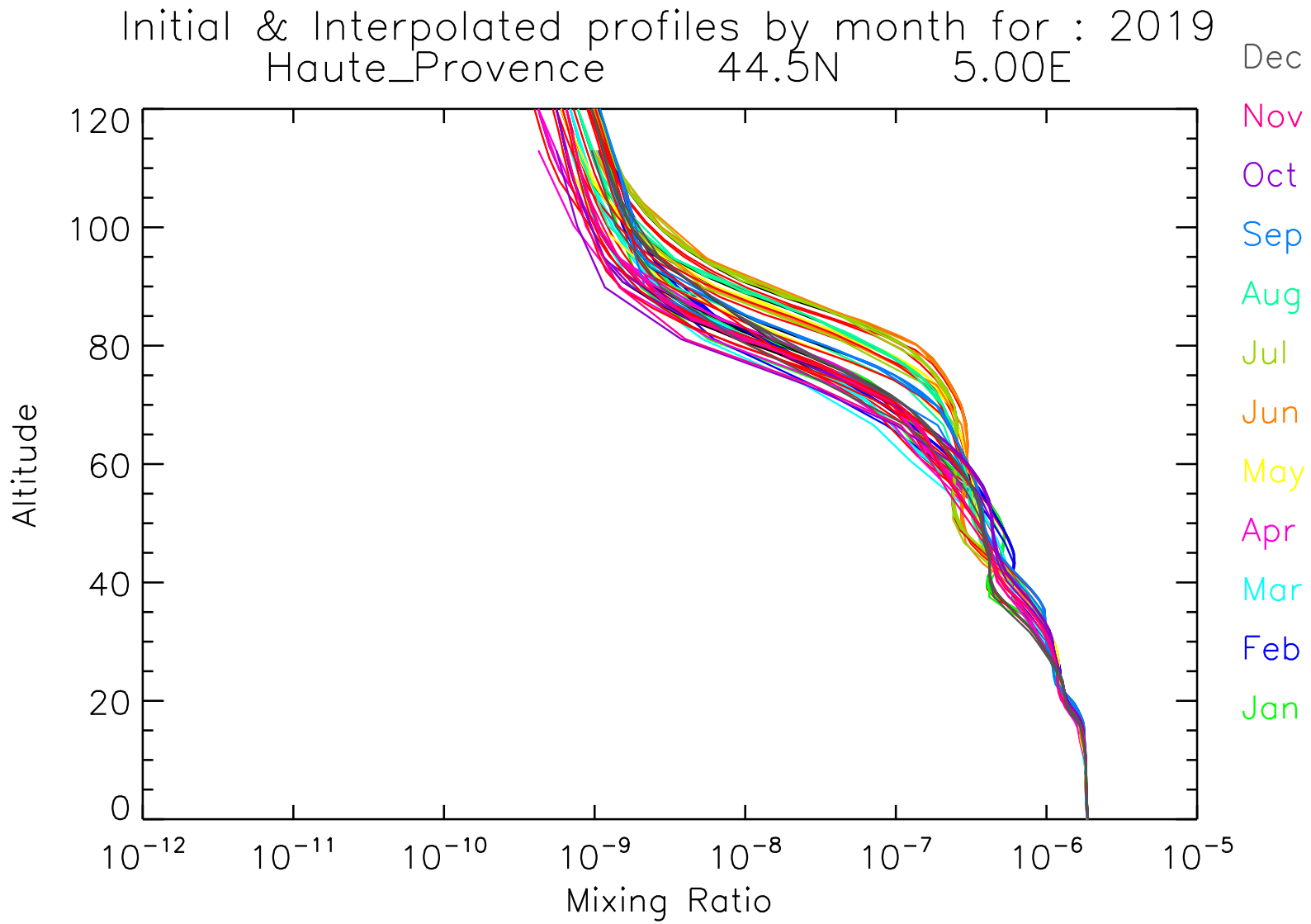

Initial & Interpolated profiles by month for : 2014
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

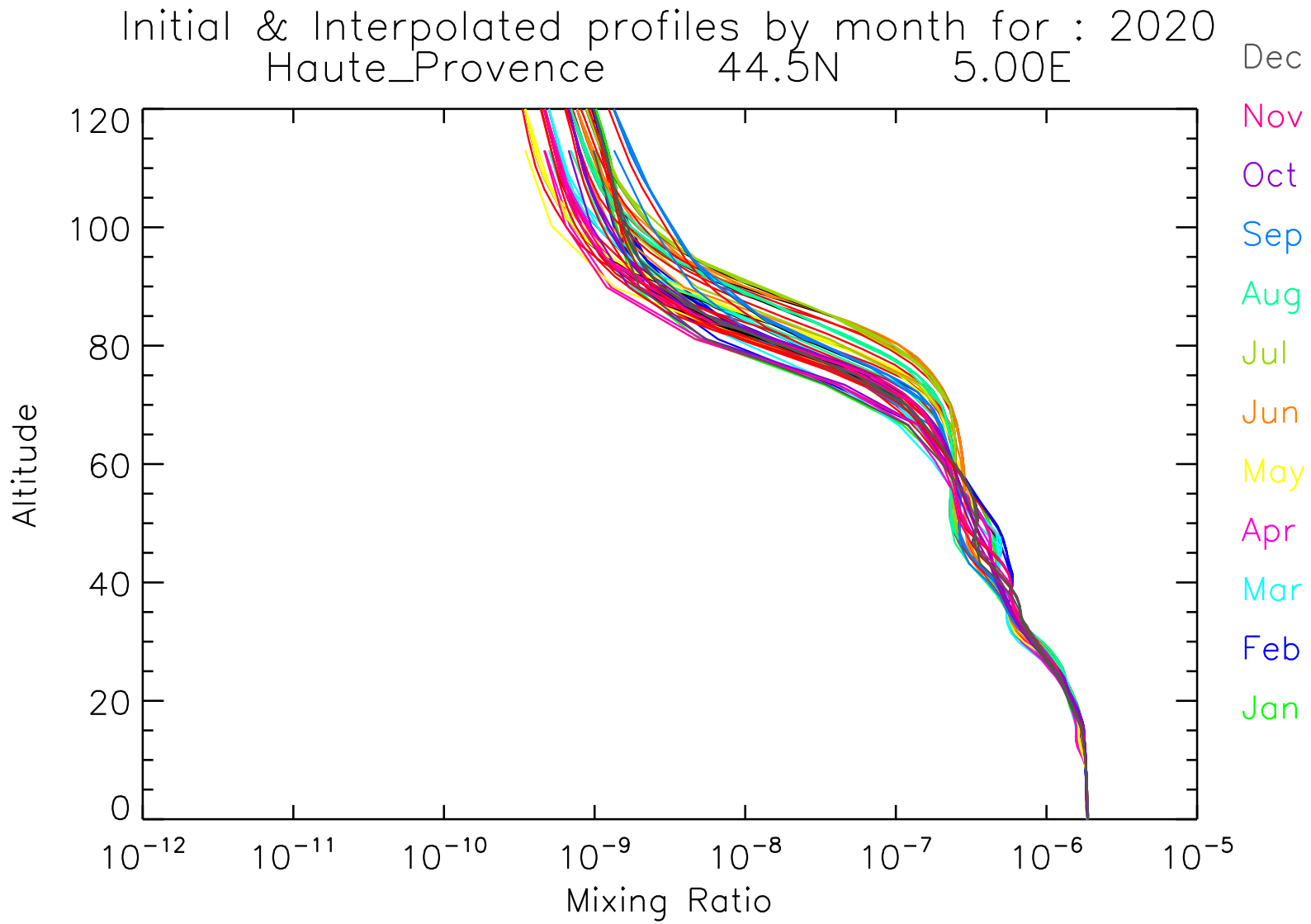

Initial & Interpolated profiles by month for : 2015
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

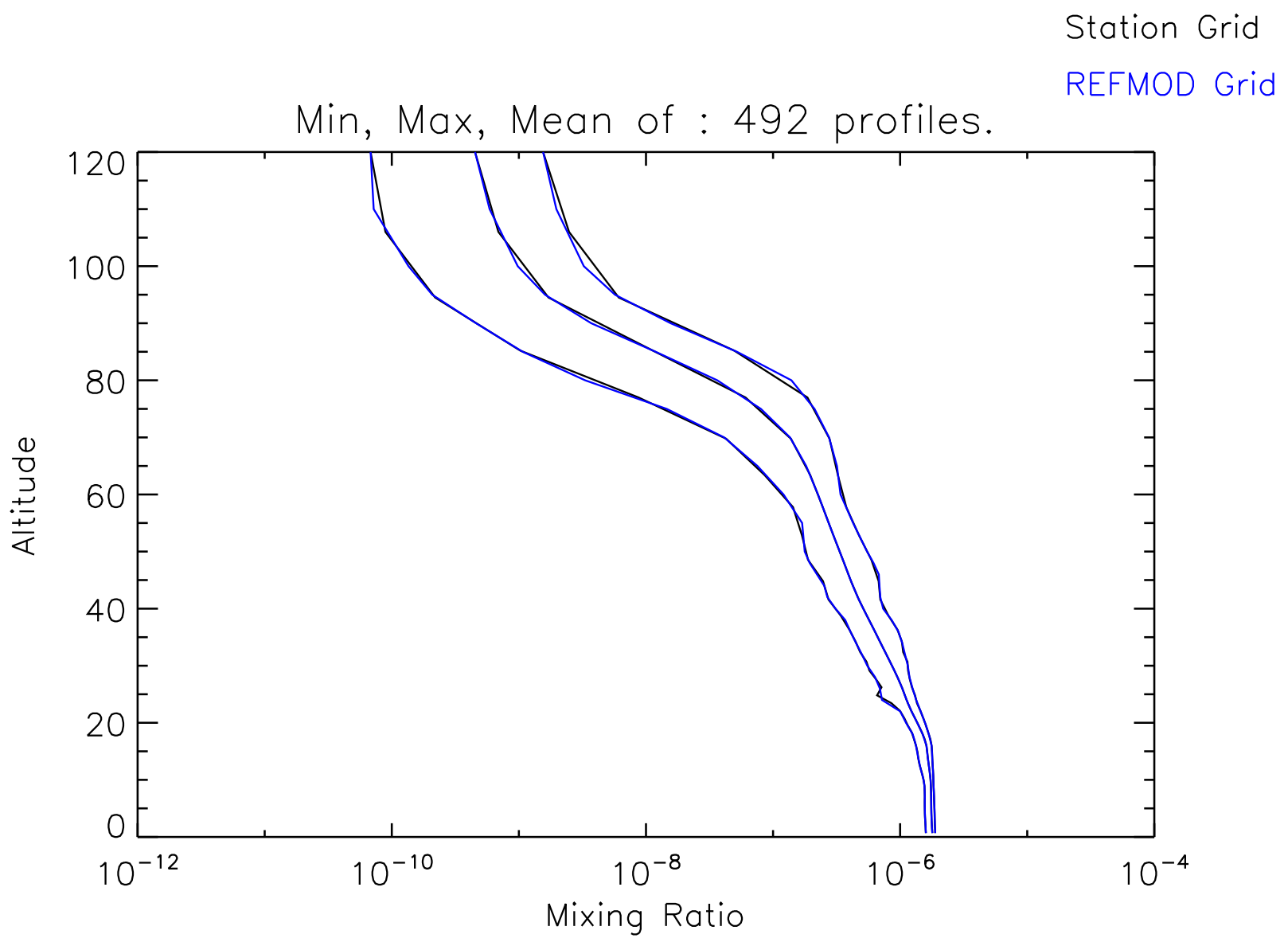

Initial & Interpolated profiles by month for : 2016
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

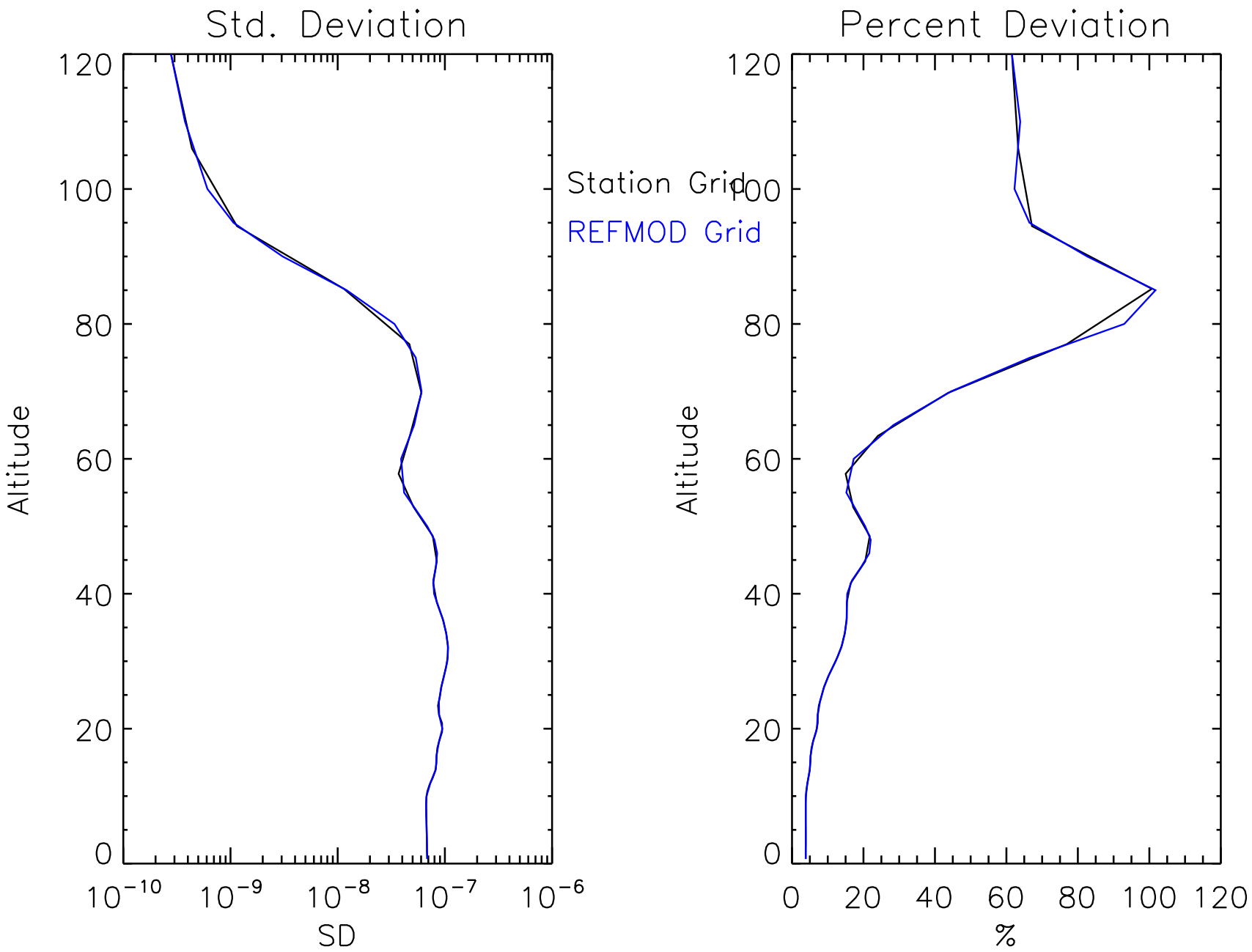

Initial & Interpolated profiles by month for : 2017
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio

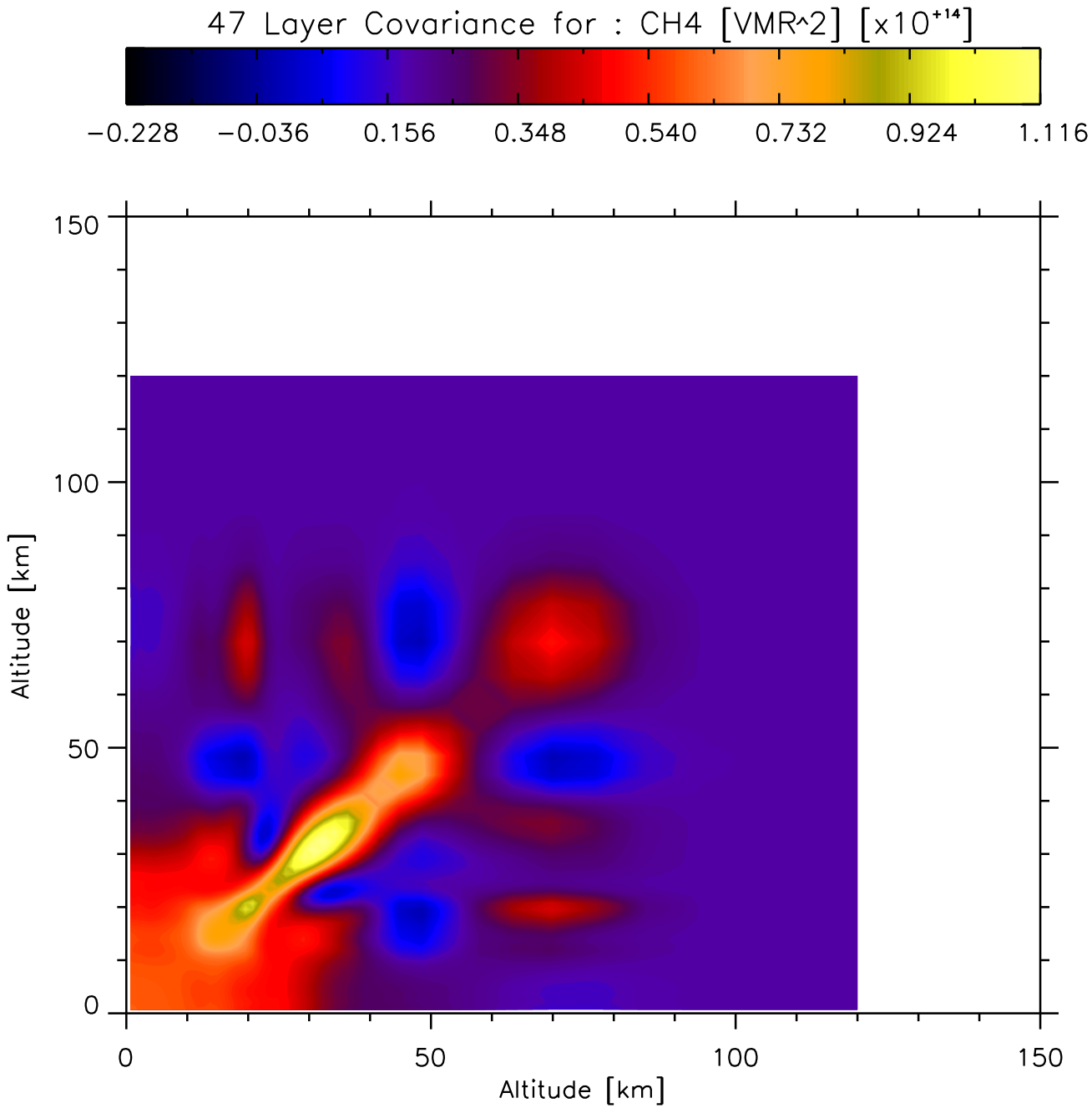

Initial & Interpolated profiles by month for : 2018
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

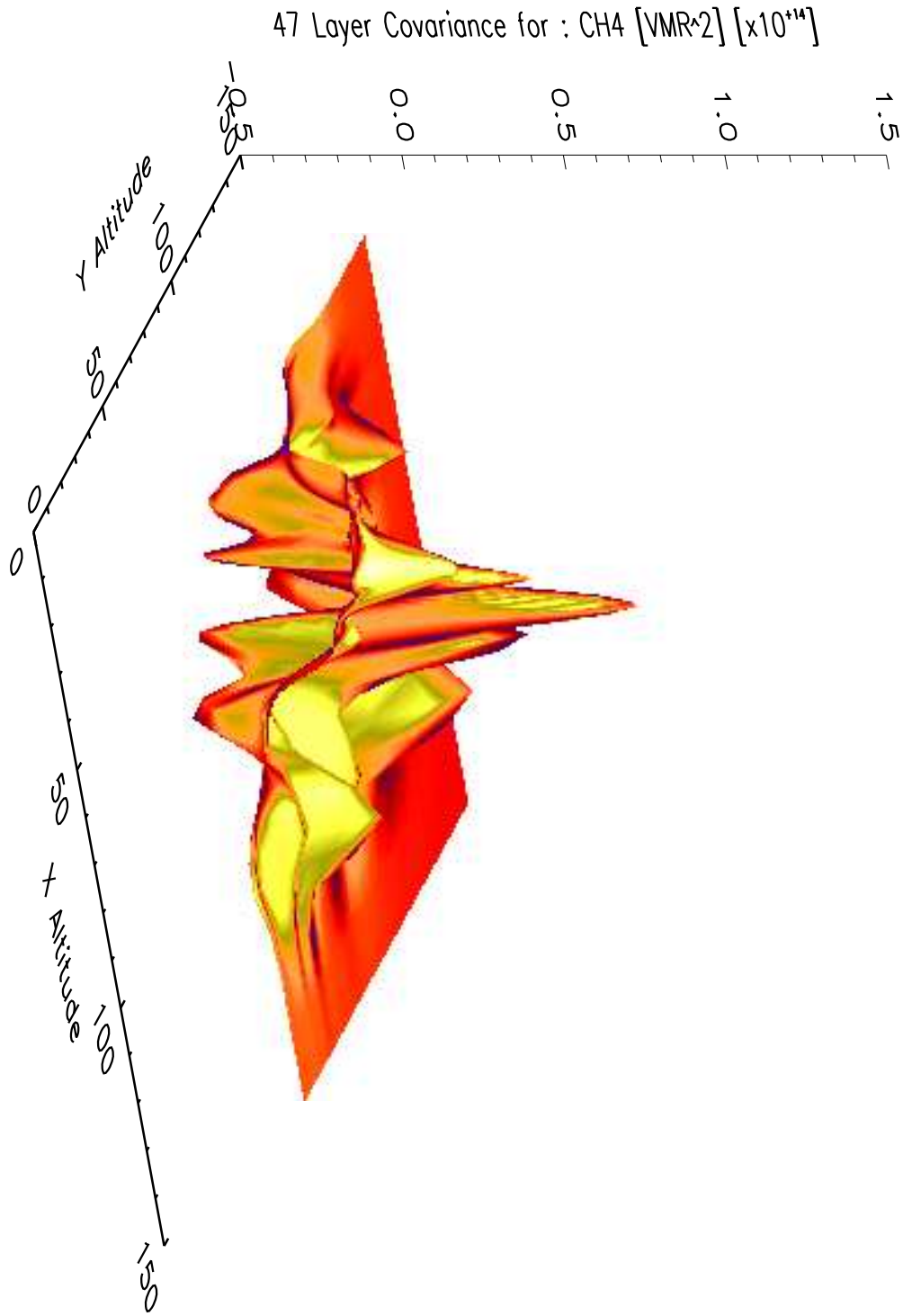

Initial & Interpolated profiles by month for : 2019
Haute_Provence 44.5N 5.00E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

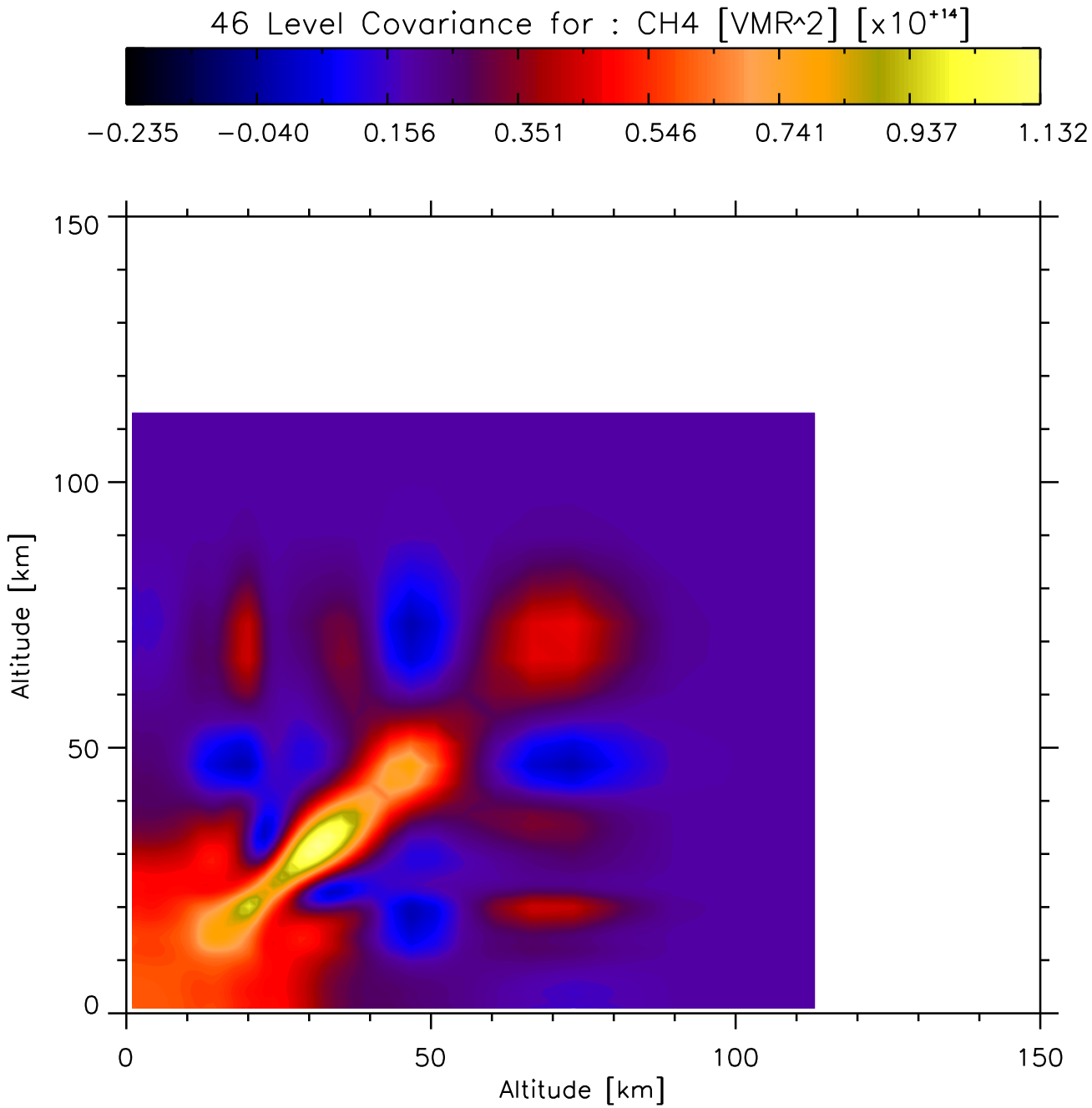

Initial & Interpolated profiles by month for : 2020
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio

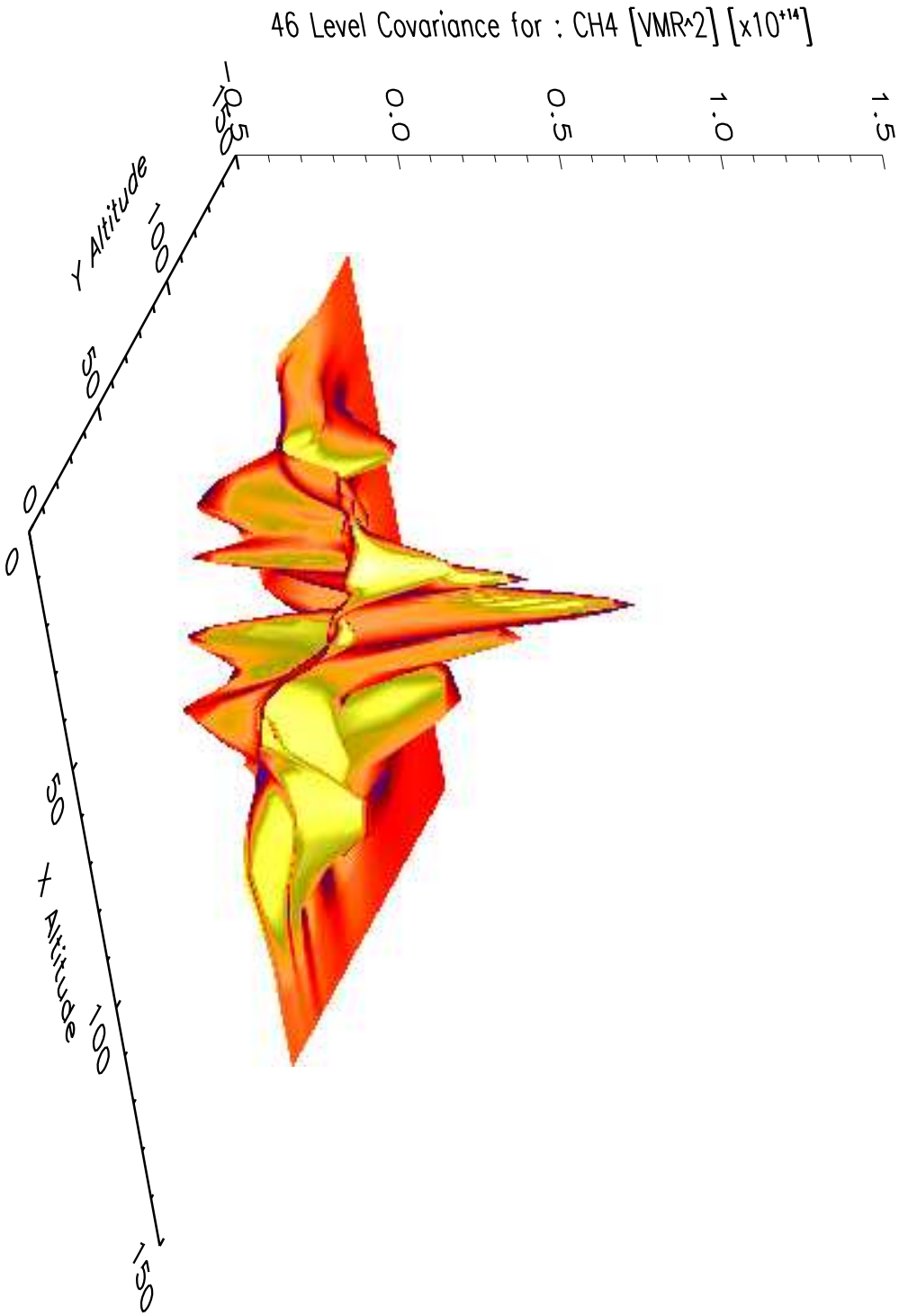

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


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
100
120
%


47 Layer Covariance for : CH4 [VMR^2] [x10^+14]
−0.228
−0.036
0.156
0.348
0.540
0.732
0.924
1.116
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


47 Layer Covariance for : CH4 [VMR^2] [x10^+14]
-0.5
0.0
0.5
1.0
1.5
Y Altitude
0
50
100
150
X Altitude
0
50
100
150


46 Level Covariance for : CH4 [VMR^2] [x10^+14]
−0.235
−0.040
0.156
0.351
0.546
0.741
0.937
1.132
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


46 Level Covariance for : CH4 [VMR^2] [x10^+14]
-0.5
0.0
0.5
1.0
1.5
Y Altitude
0
50
100
150
X Altitude
0
50
100
150