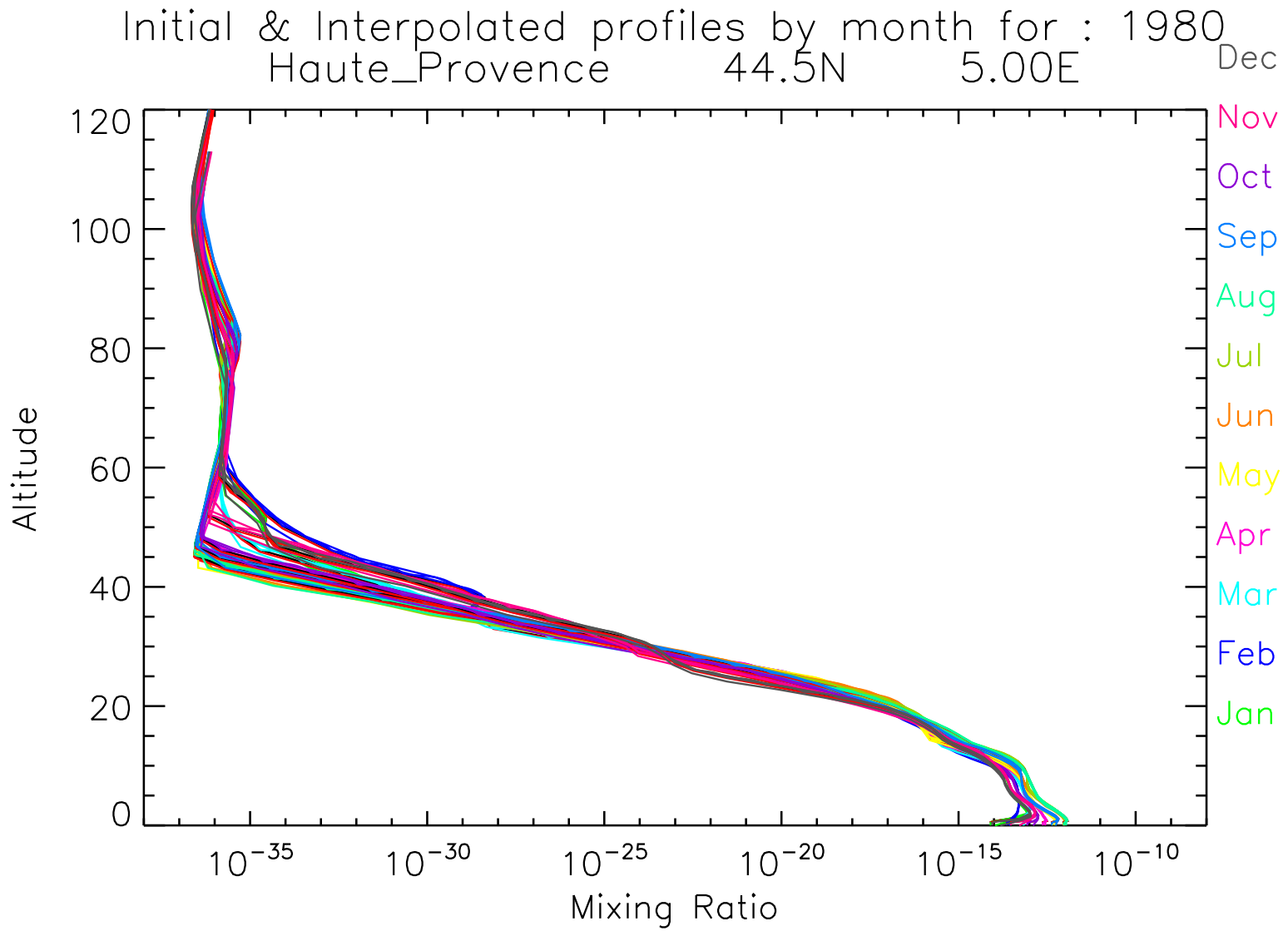
Initial & Interpolated profiles by month for : 1980
Haute_Provence 44.5N 5.00E
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Altitude
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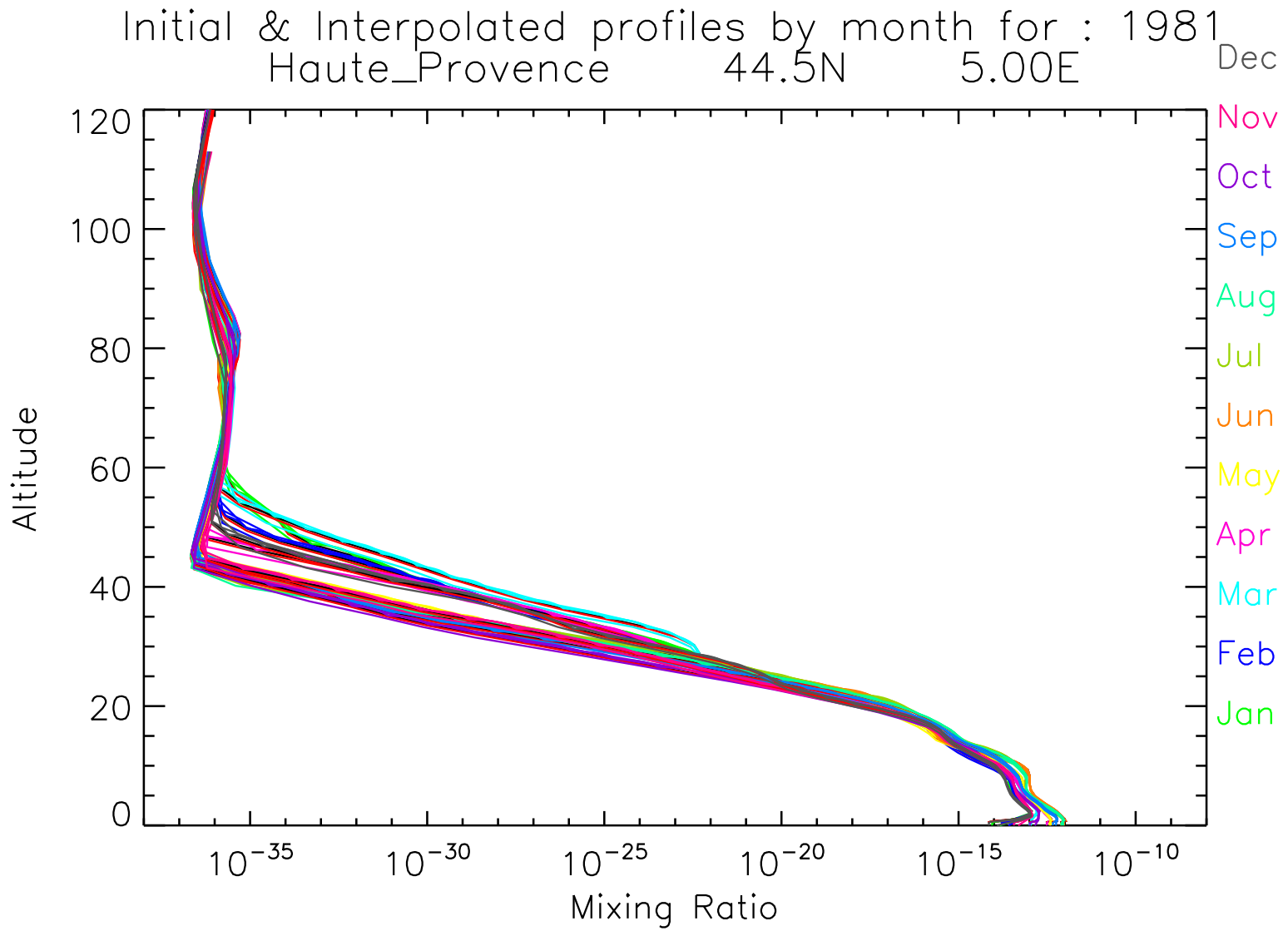
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Haute_Provence 44.5N 5.00E
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Altitude
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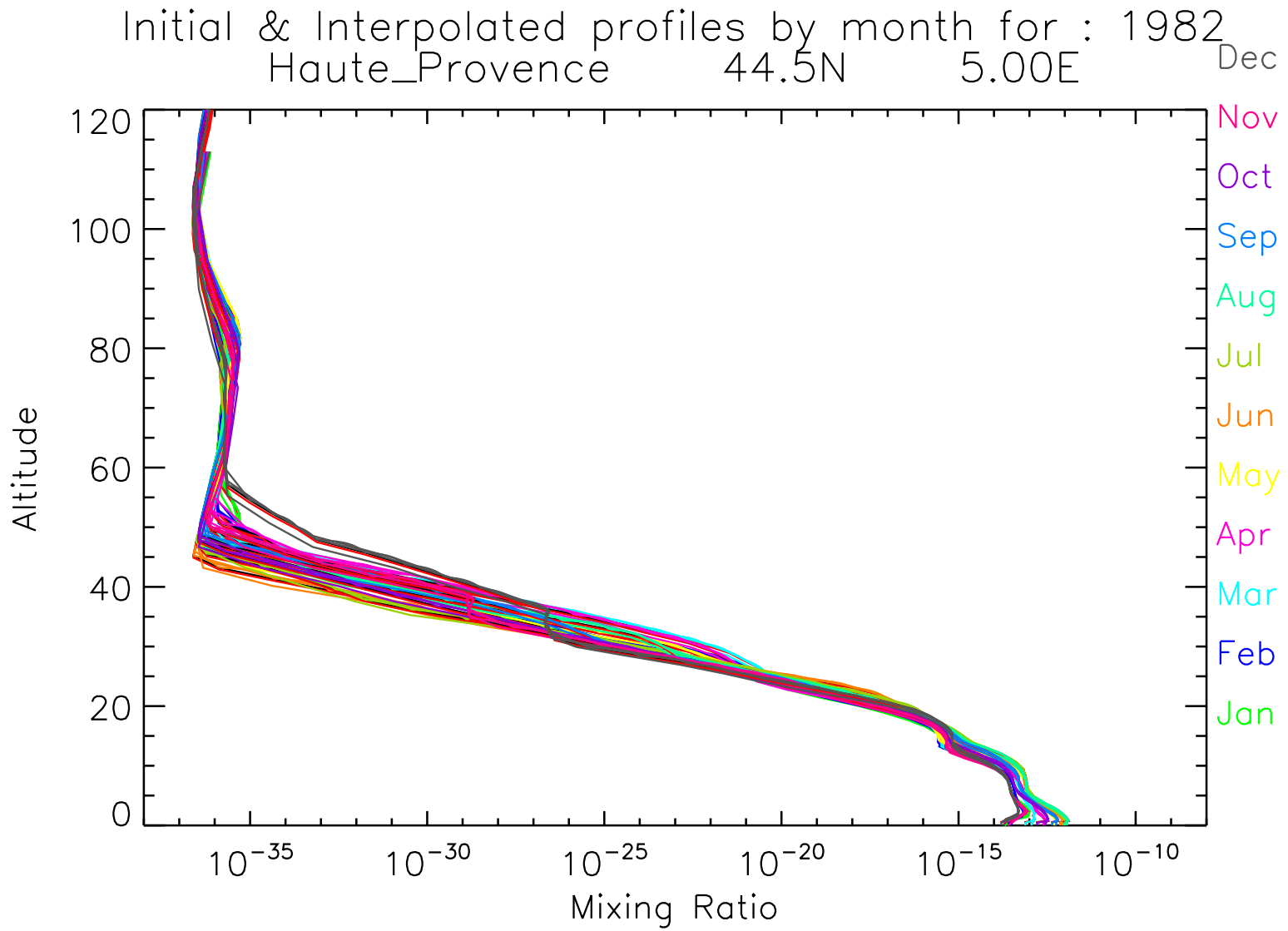
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Haute_Provence 44.5N 5.00E
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Altitude
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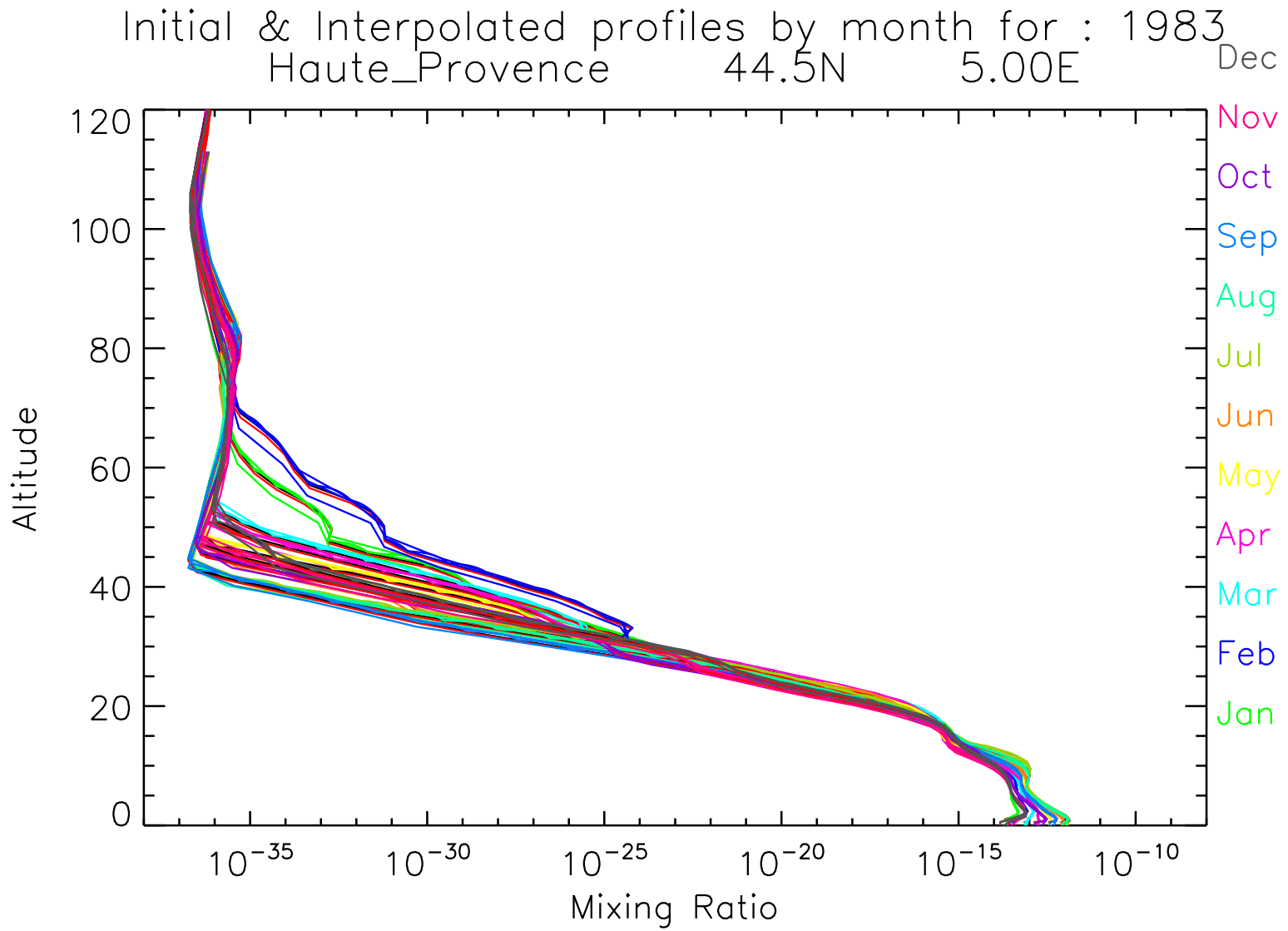
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Haute_Provence 44.5N 5.00E
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Altitude
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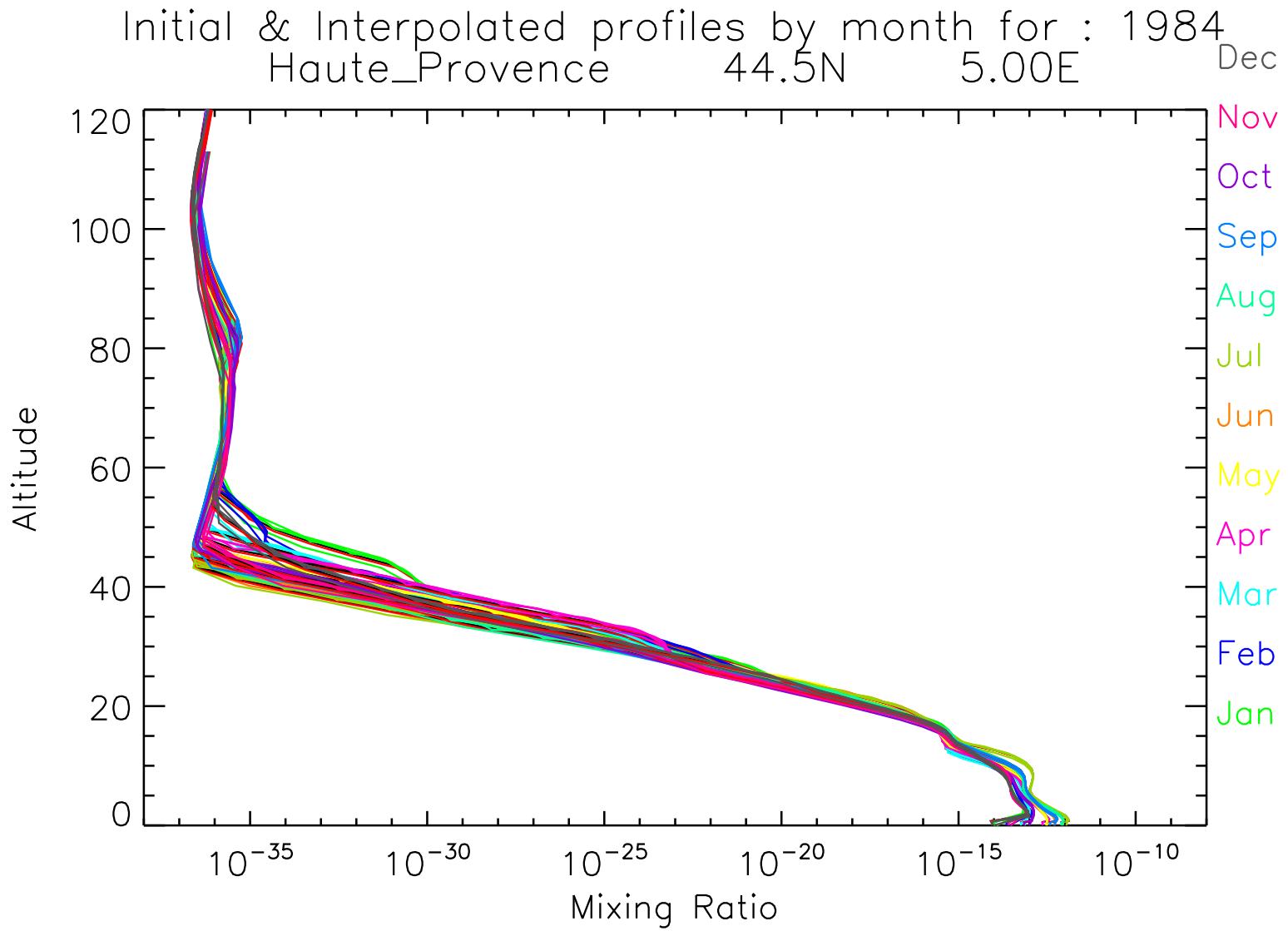
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Haute_Provence 44.5N 5.00E
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Altitude
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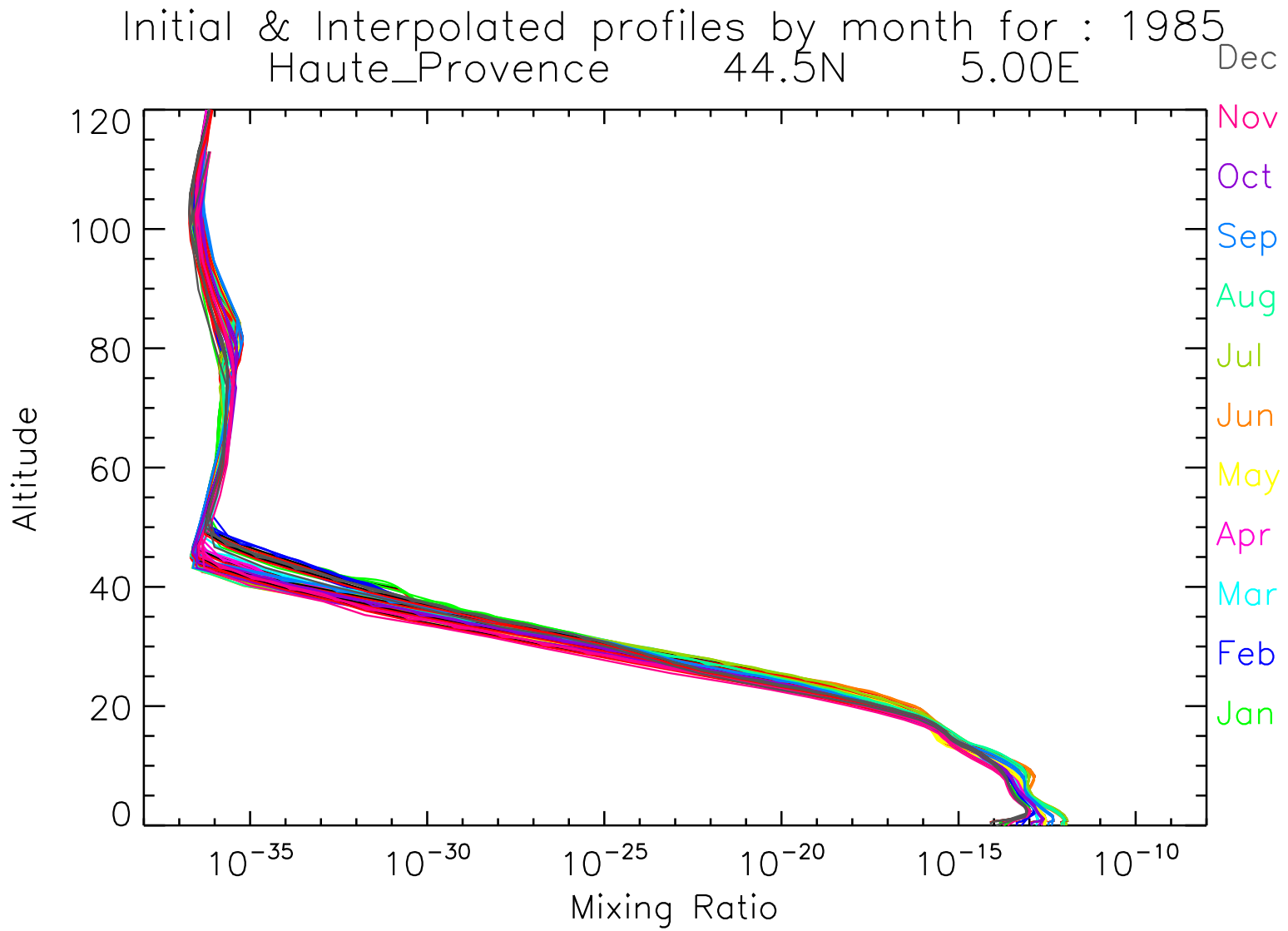
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Haute_Provence 44.5N 5.00E
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Altitude
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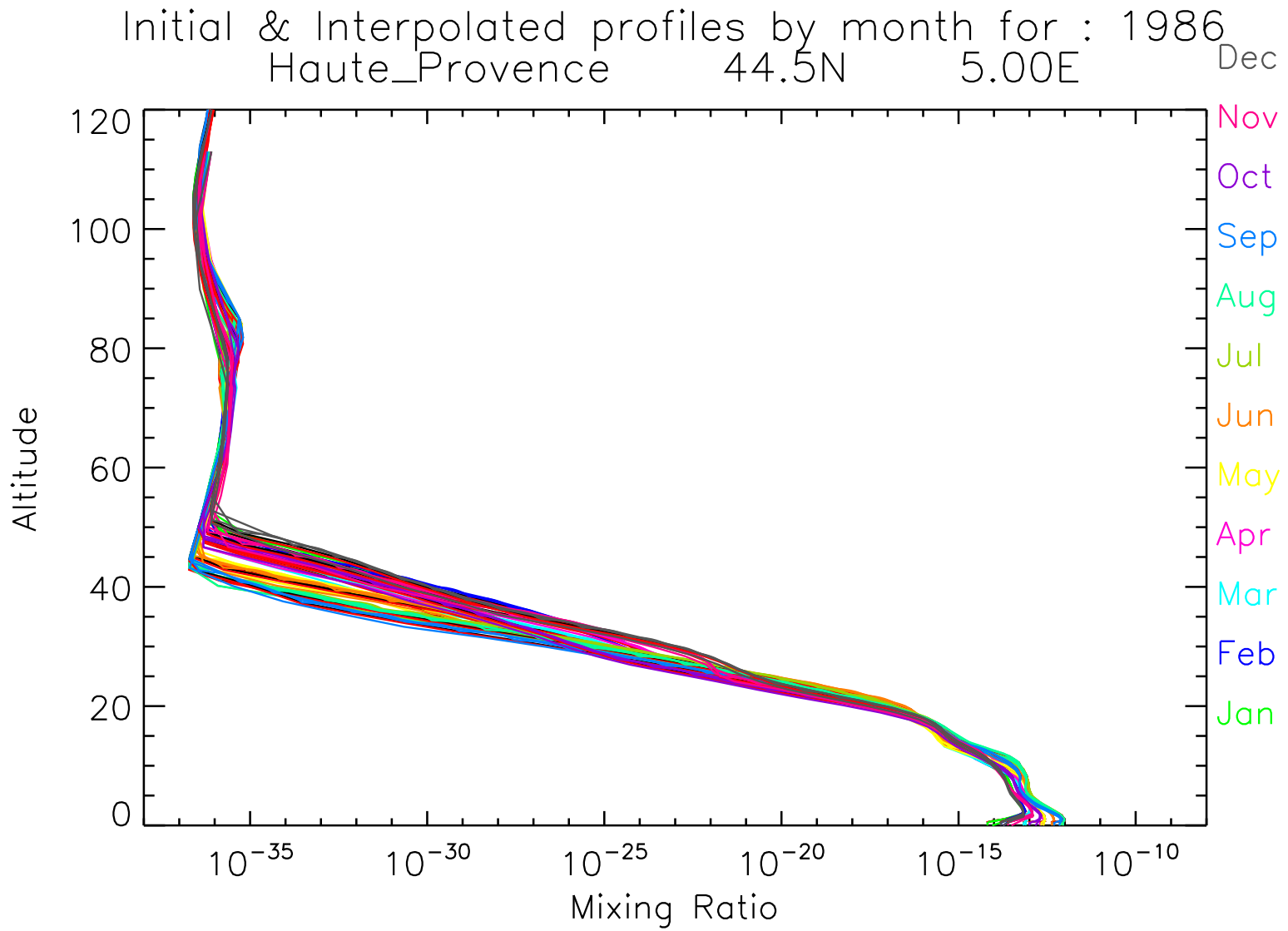
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
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Altitude
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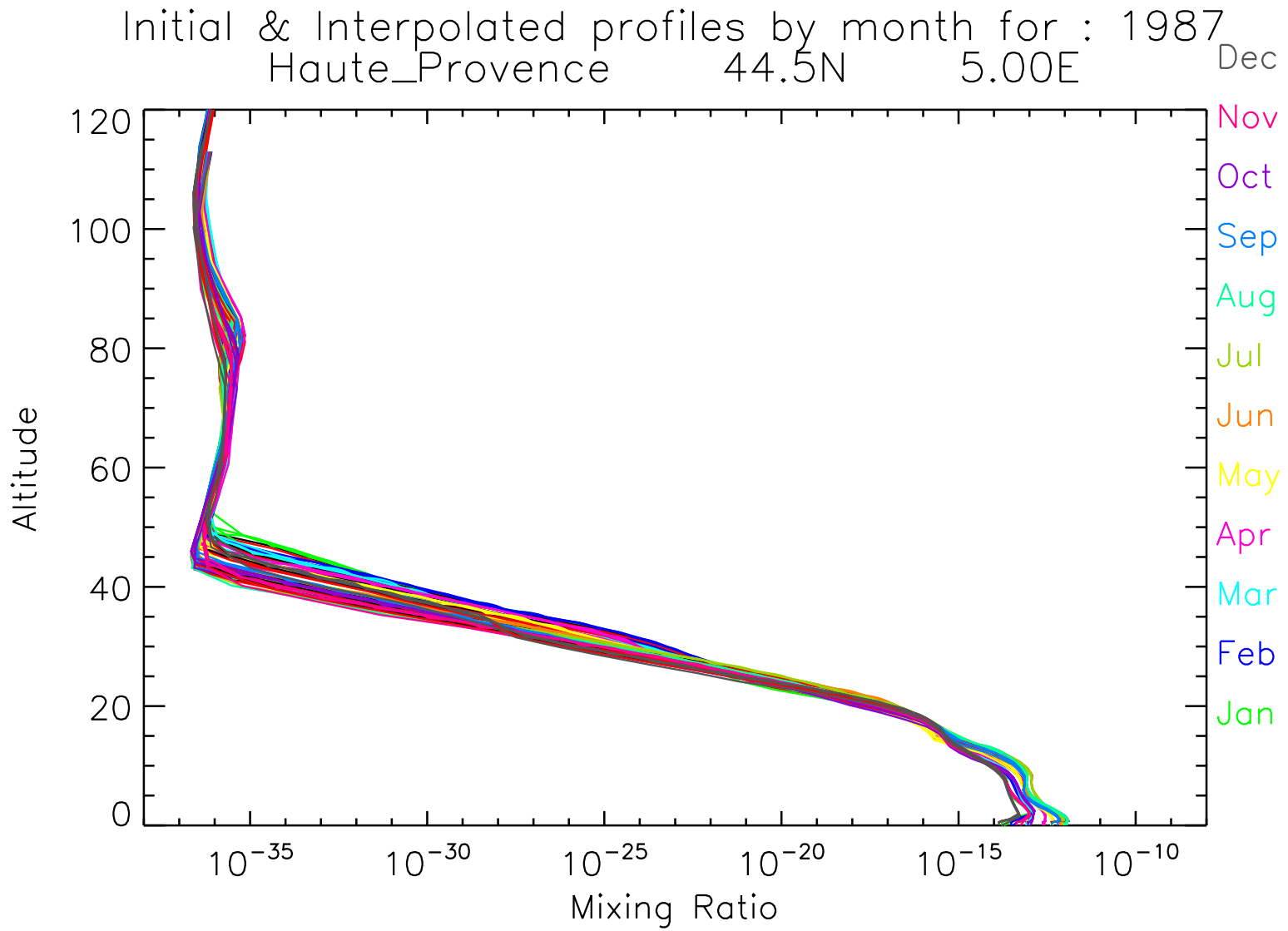
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
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Altitude
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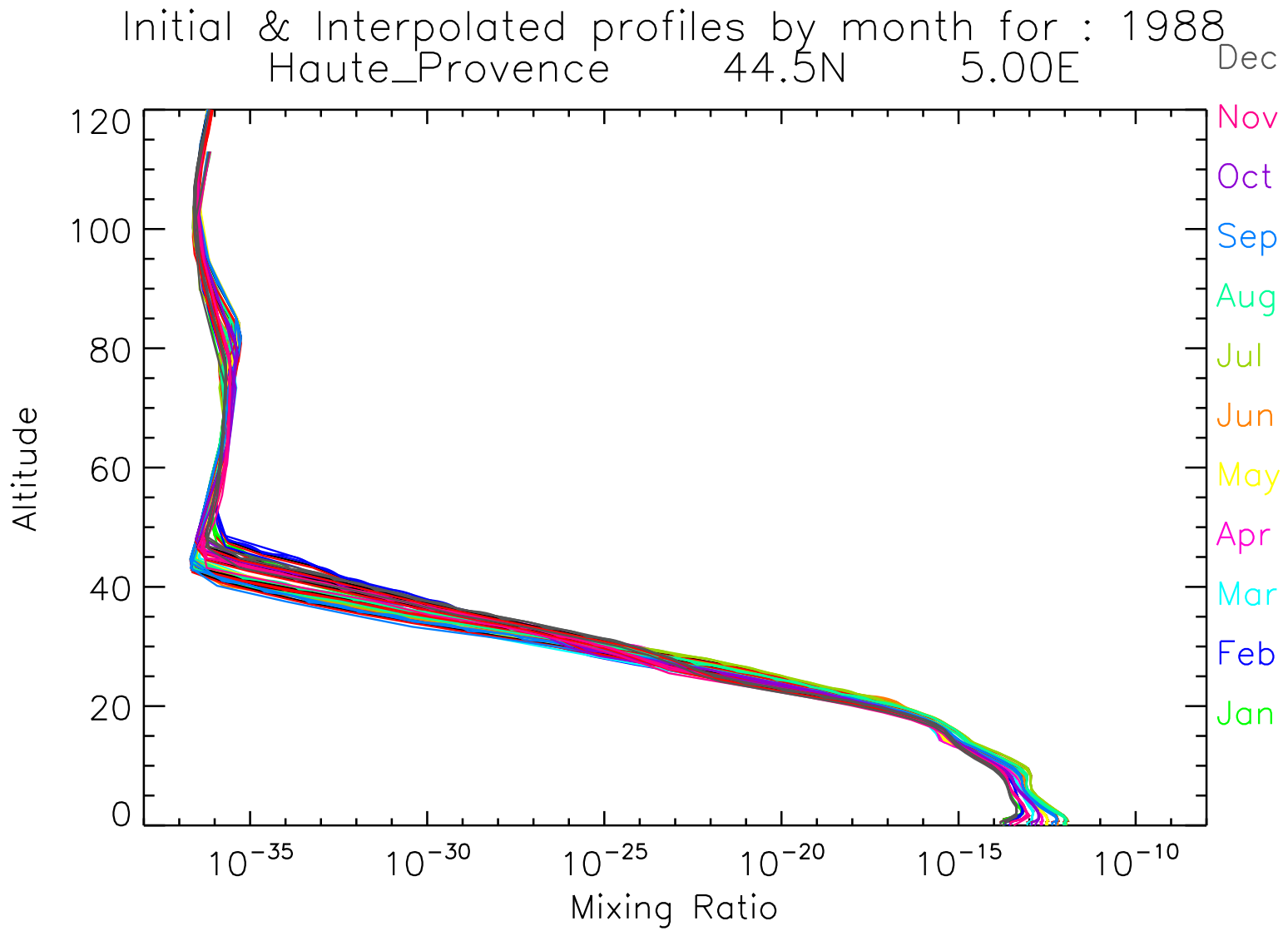
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Haute_Provence 44.5N 5.00E
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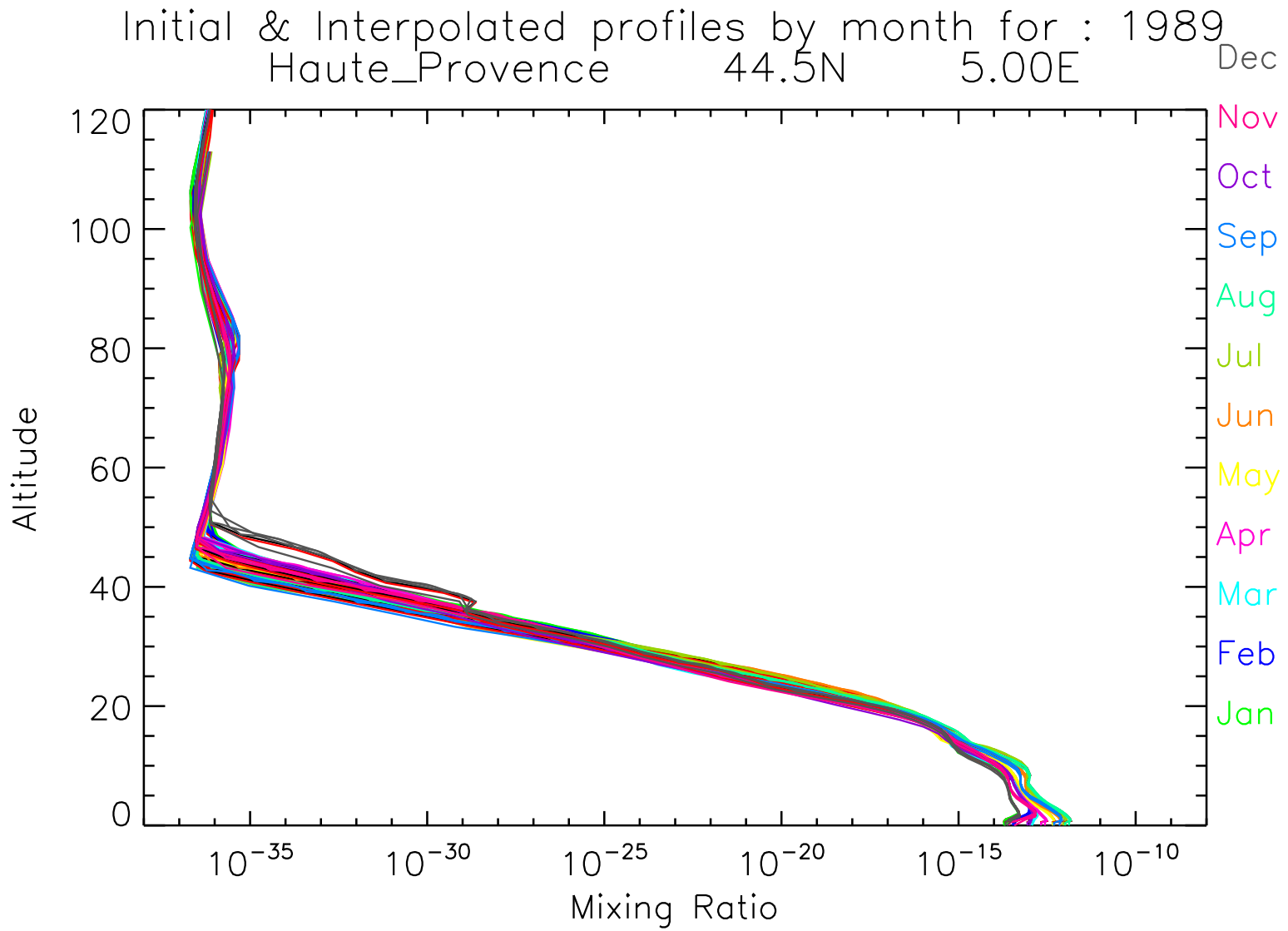
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Haute_Provence 44.5N 5.00E
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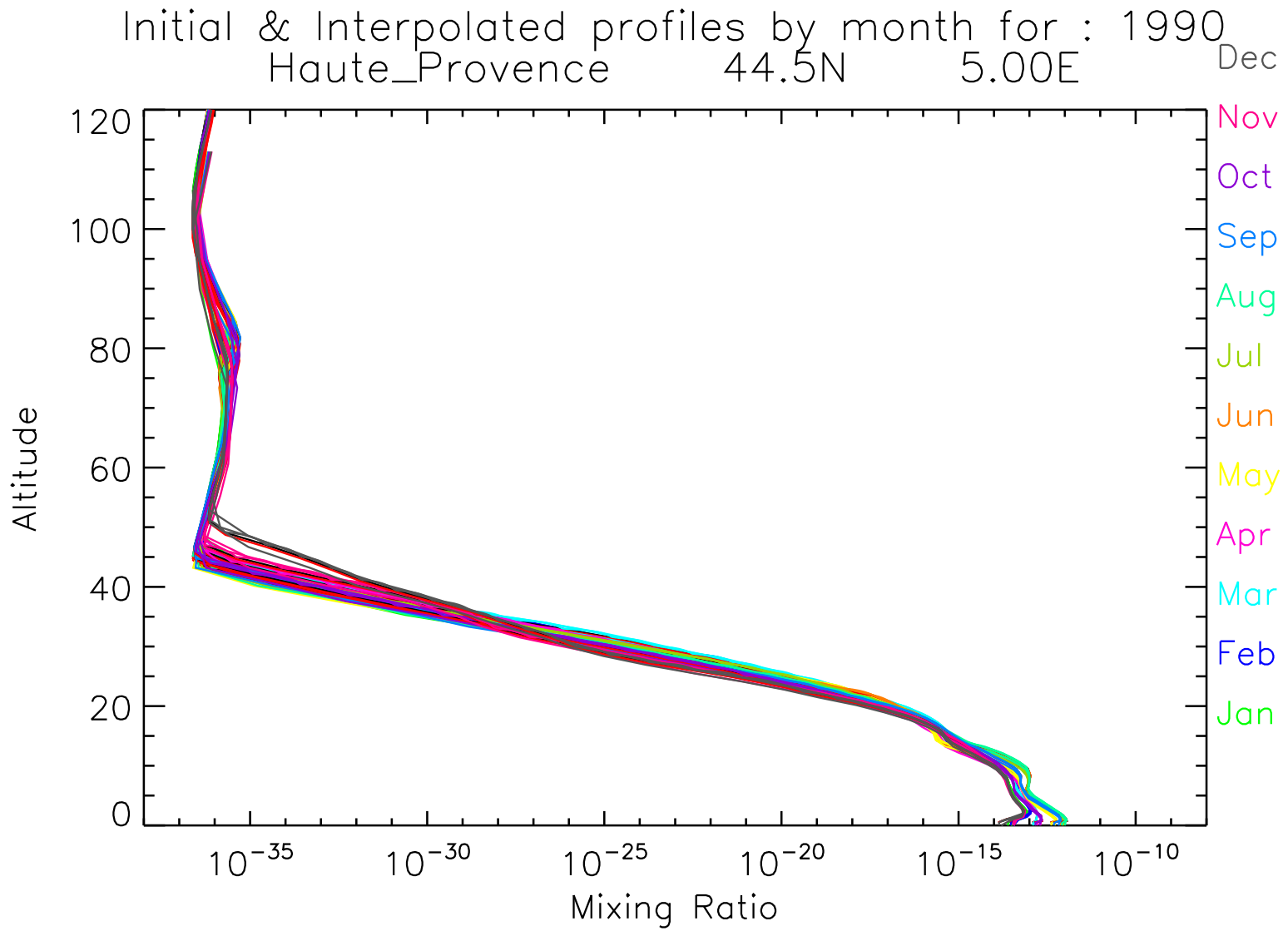
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Haute_Provence 44.5N 5.00E
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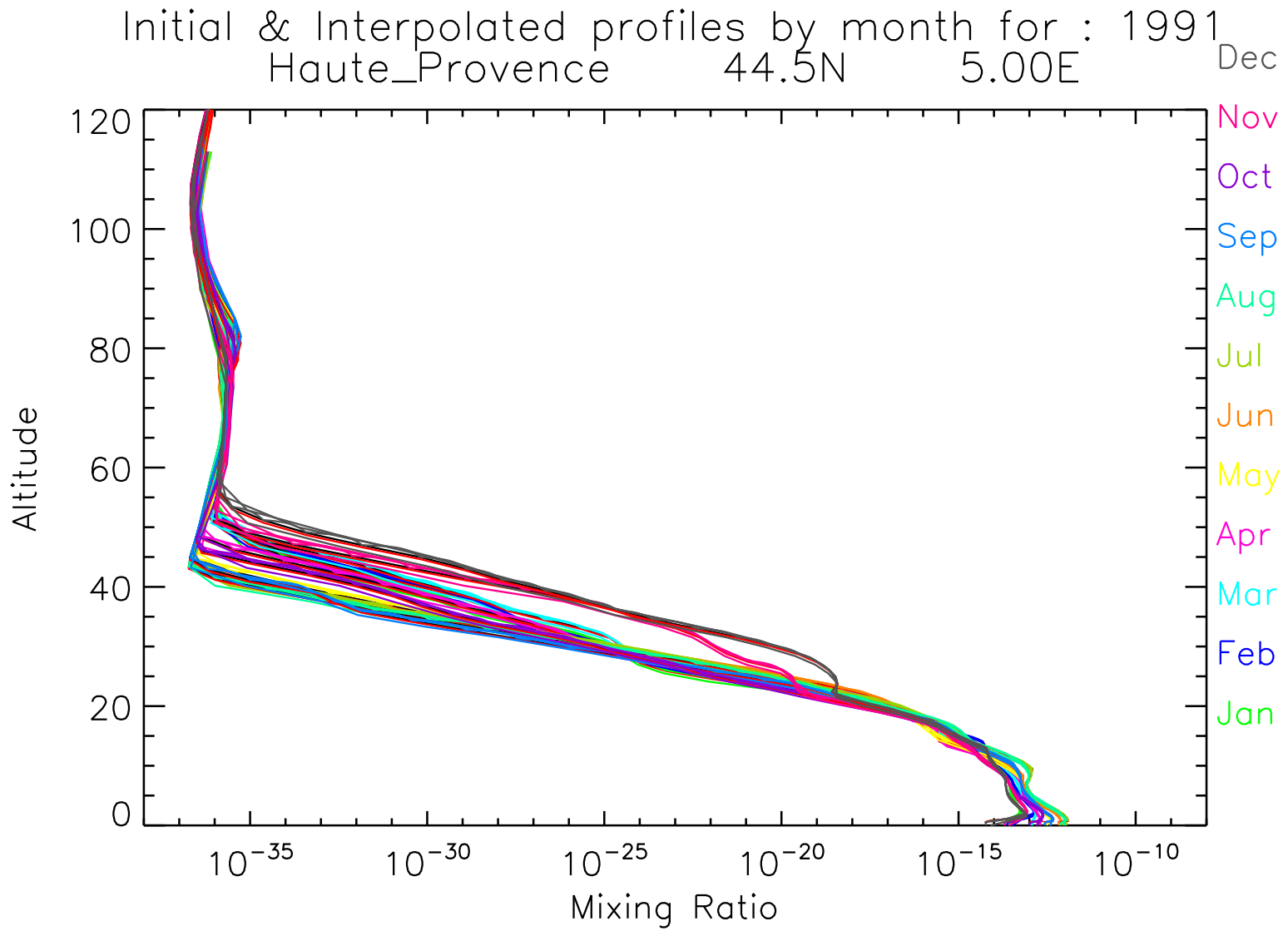
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
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Altitude
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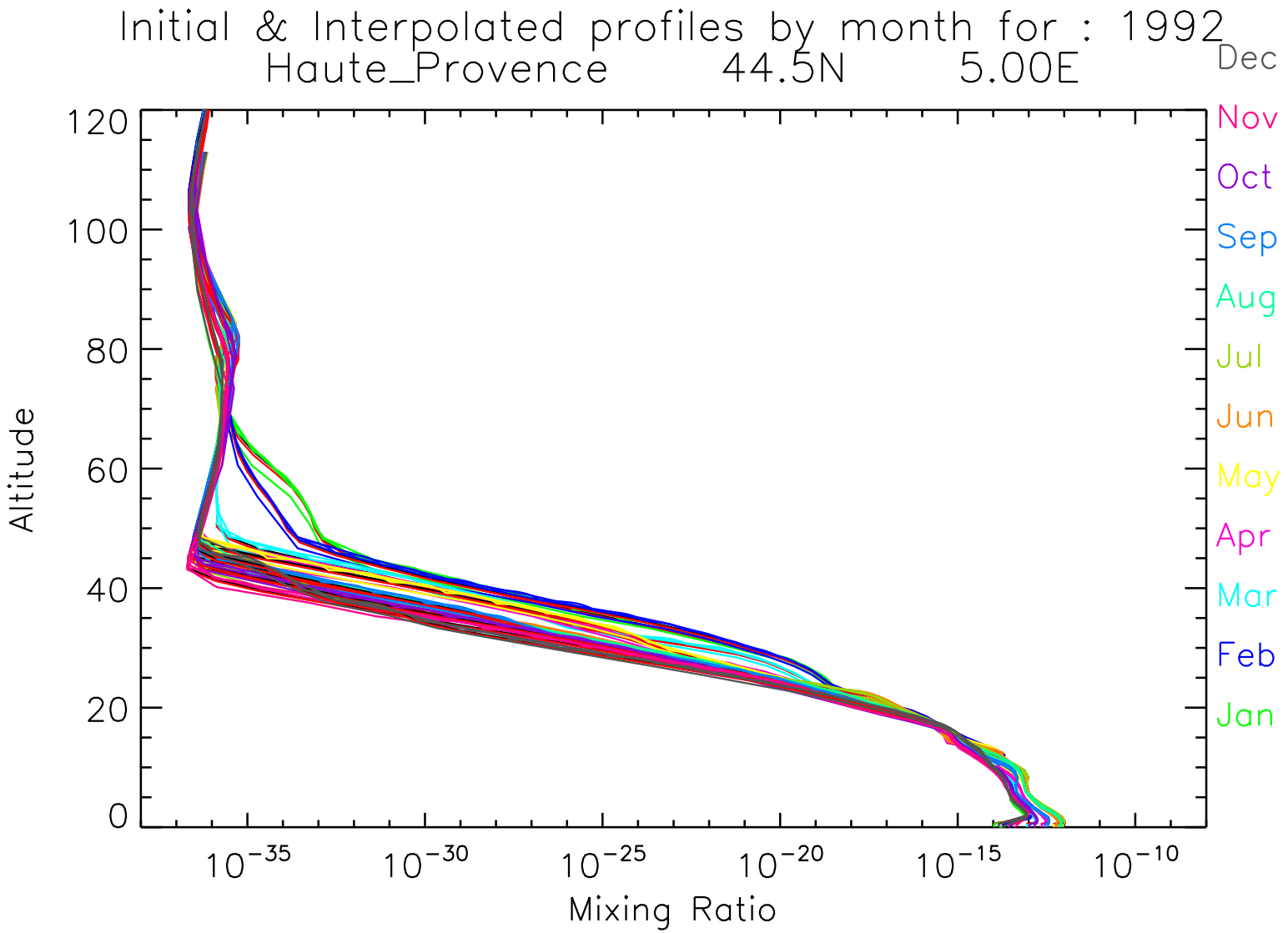
Mixing Ratio


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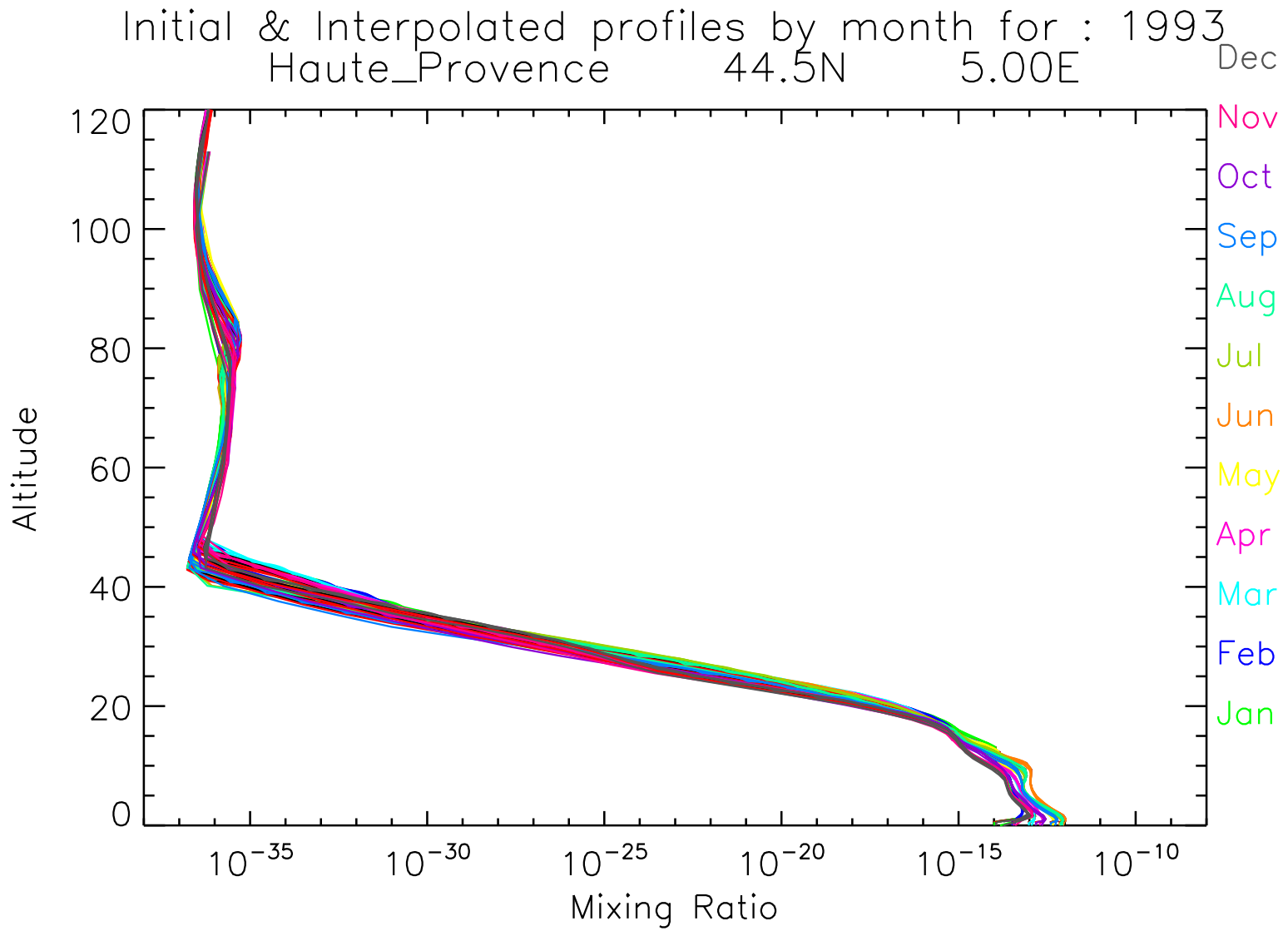
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Haute_Provence 44.5N 5.00E
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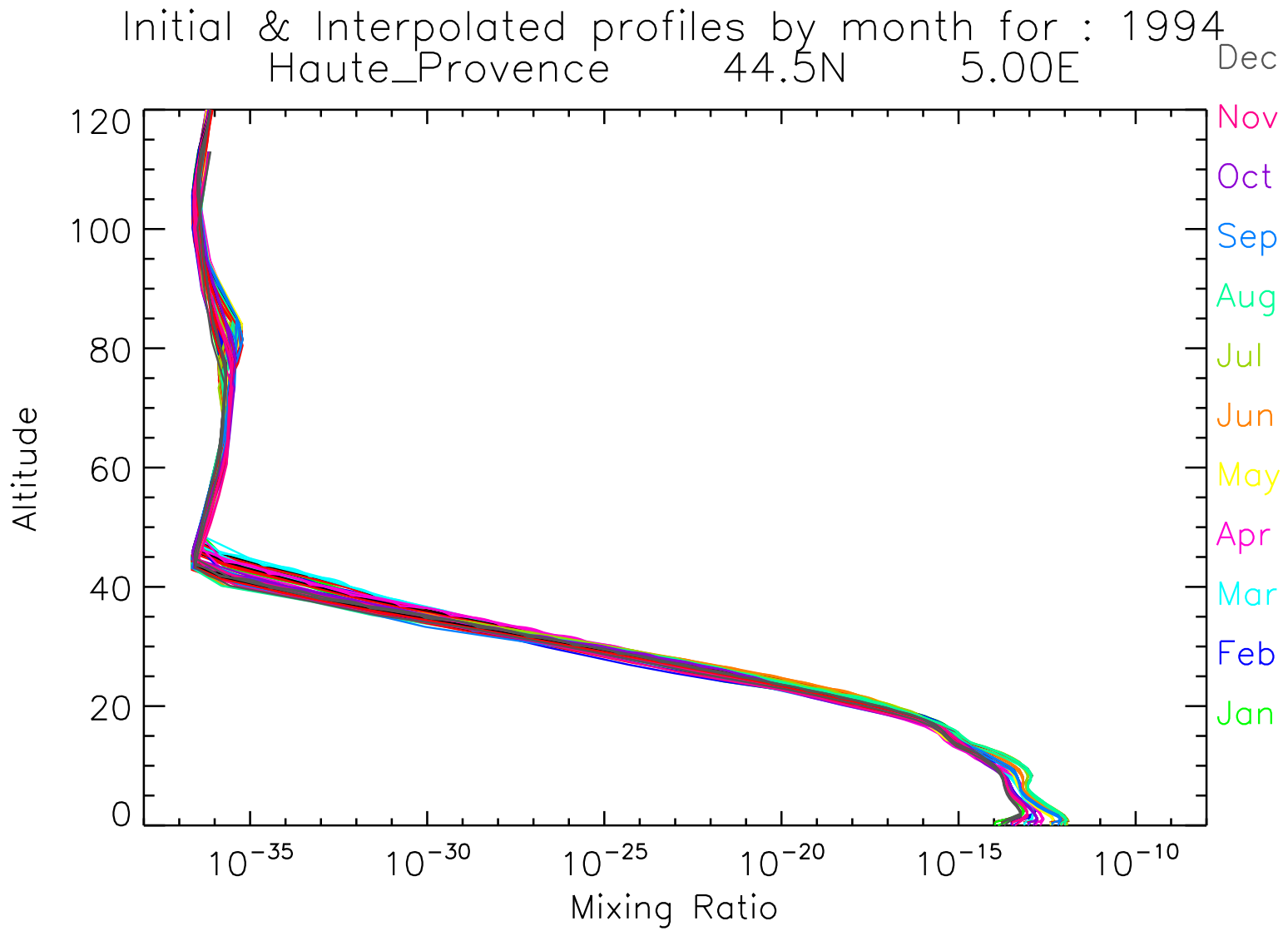
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Haute_Provence 44.5N 5.00E
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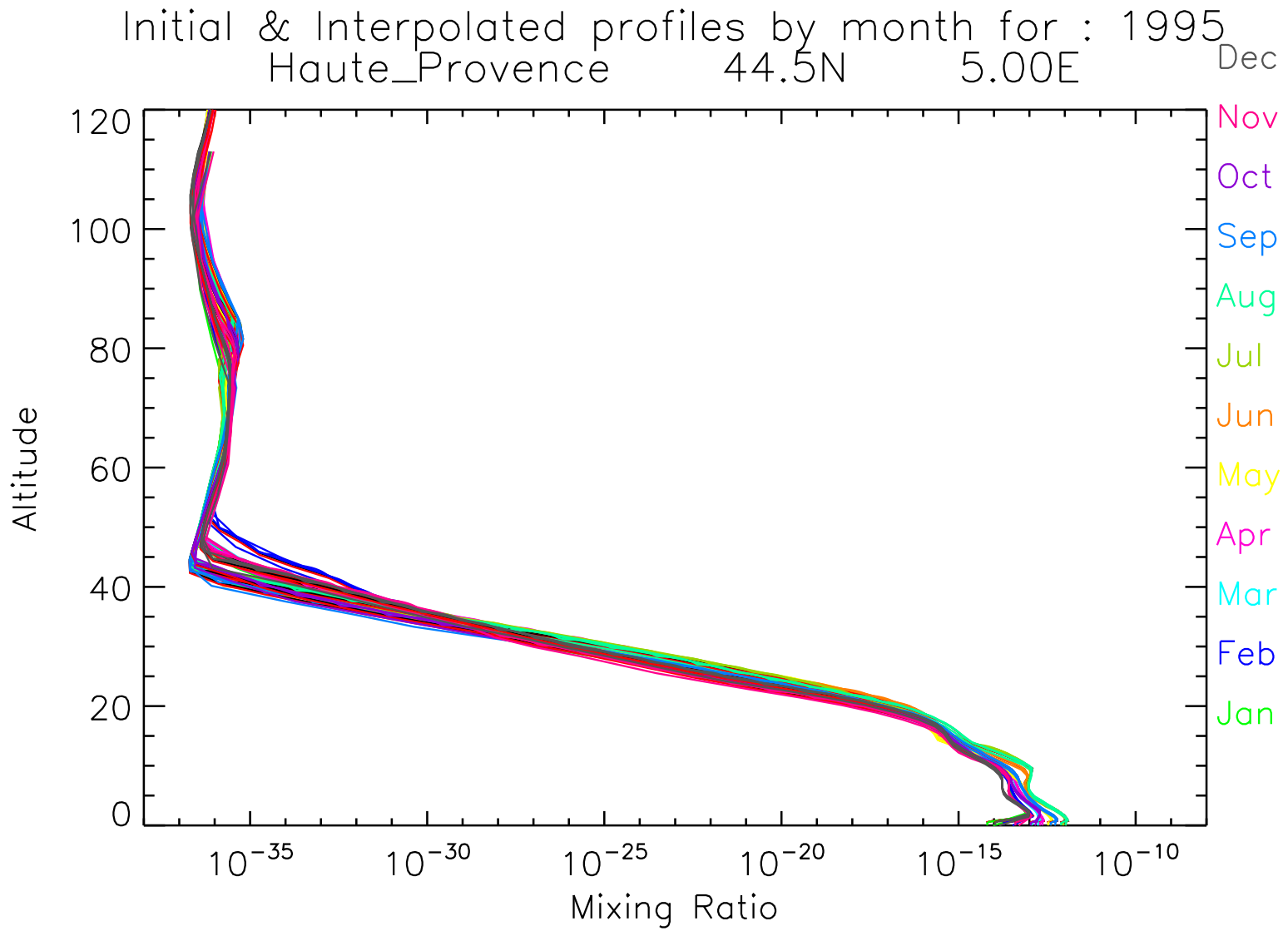
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Haute_Provence 44.5N 5.00E
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Altitude
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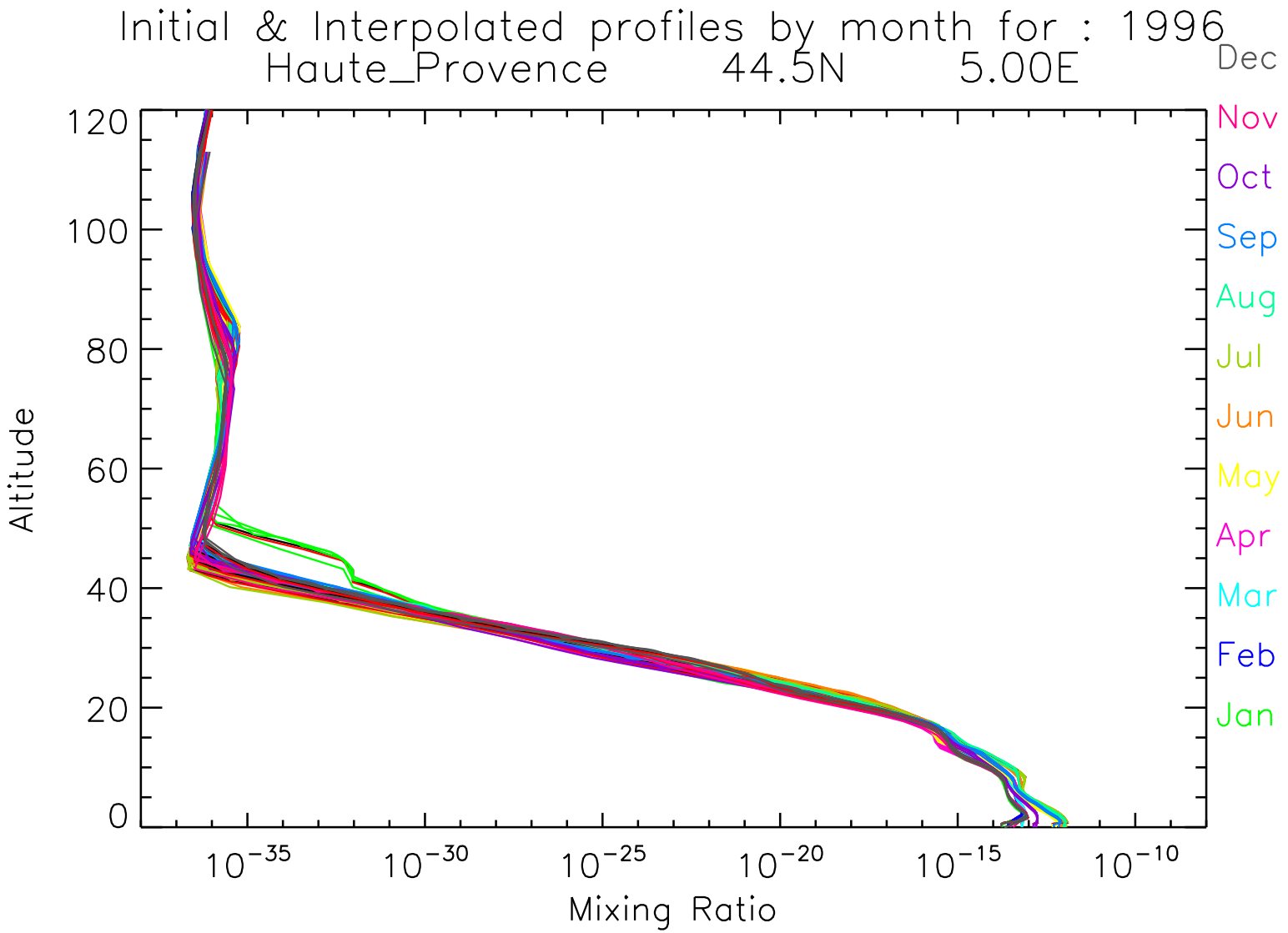
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Haute_Provence 44.5N 5.00E
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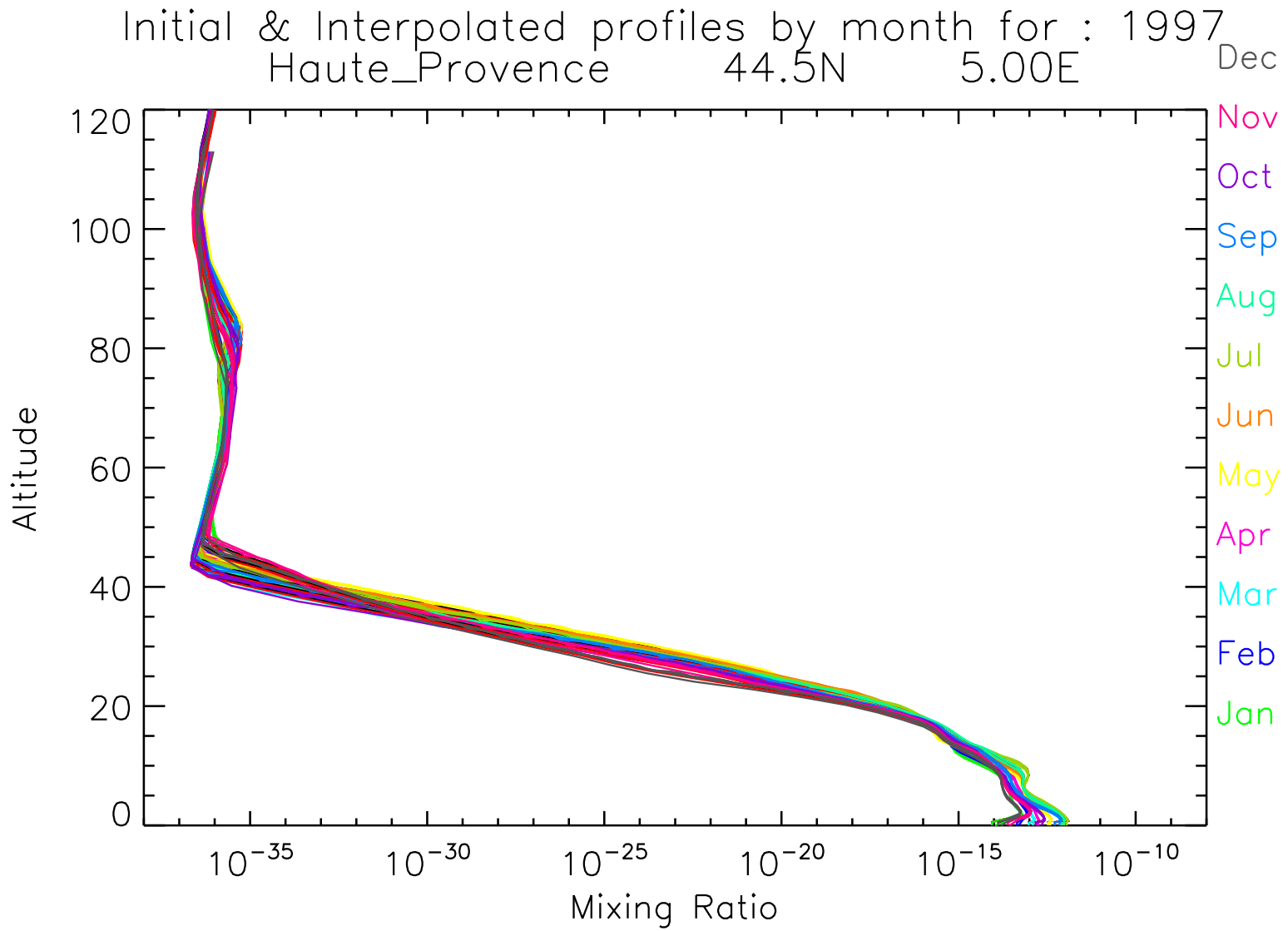
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Haute_Provence 44.5N 5.00E
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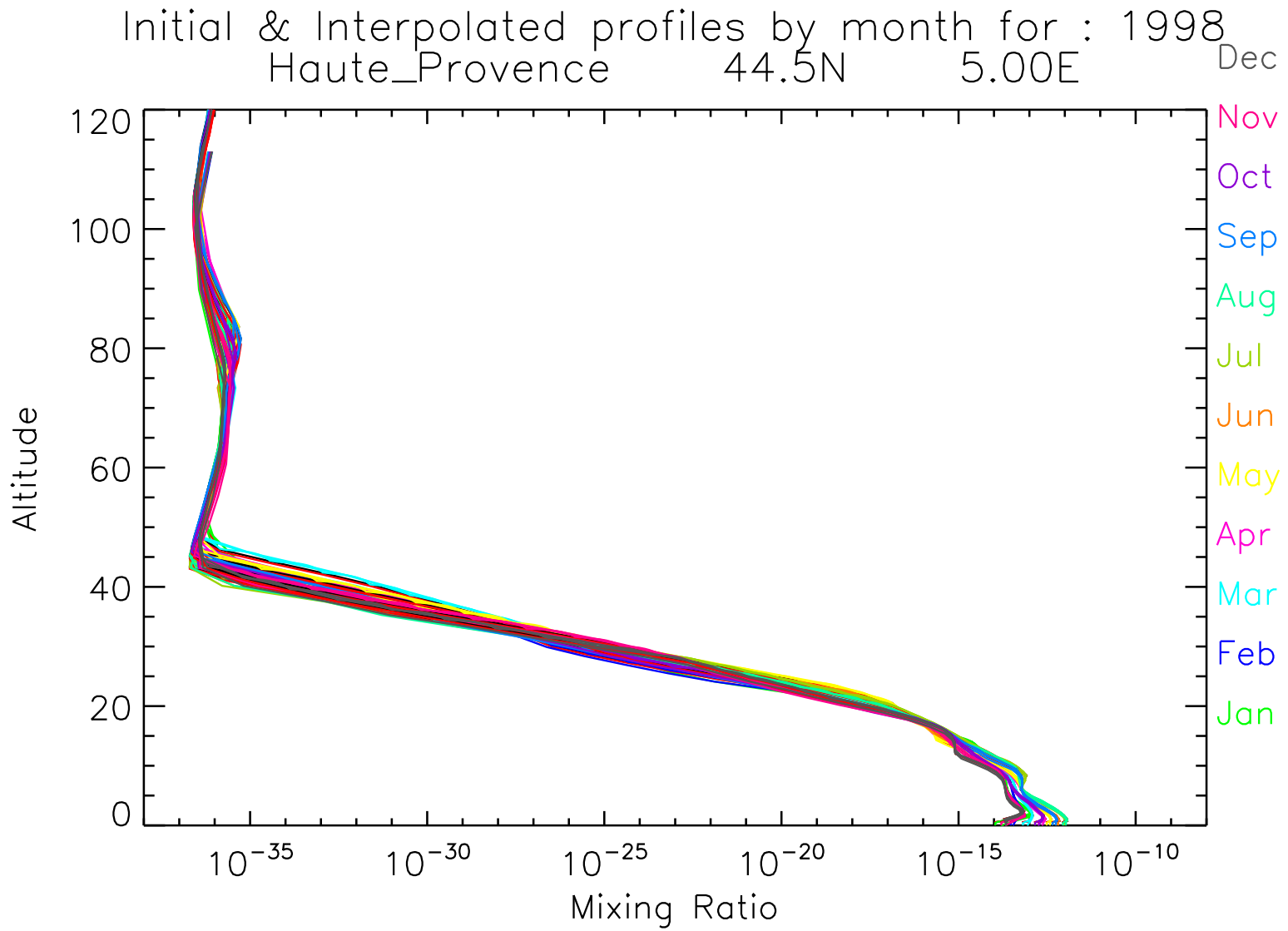
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Haute_Provence 44.5N 5.00E
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Altitude
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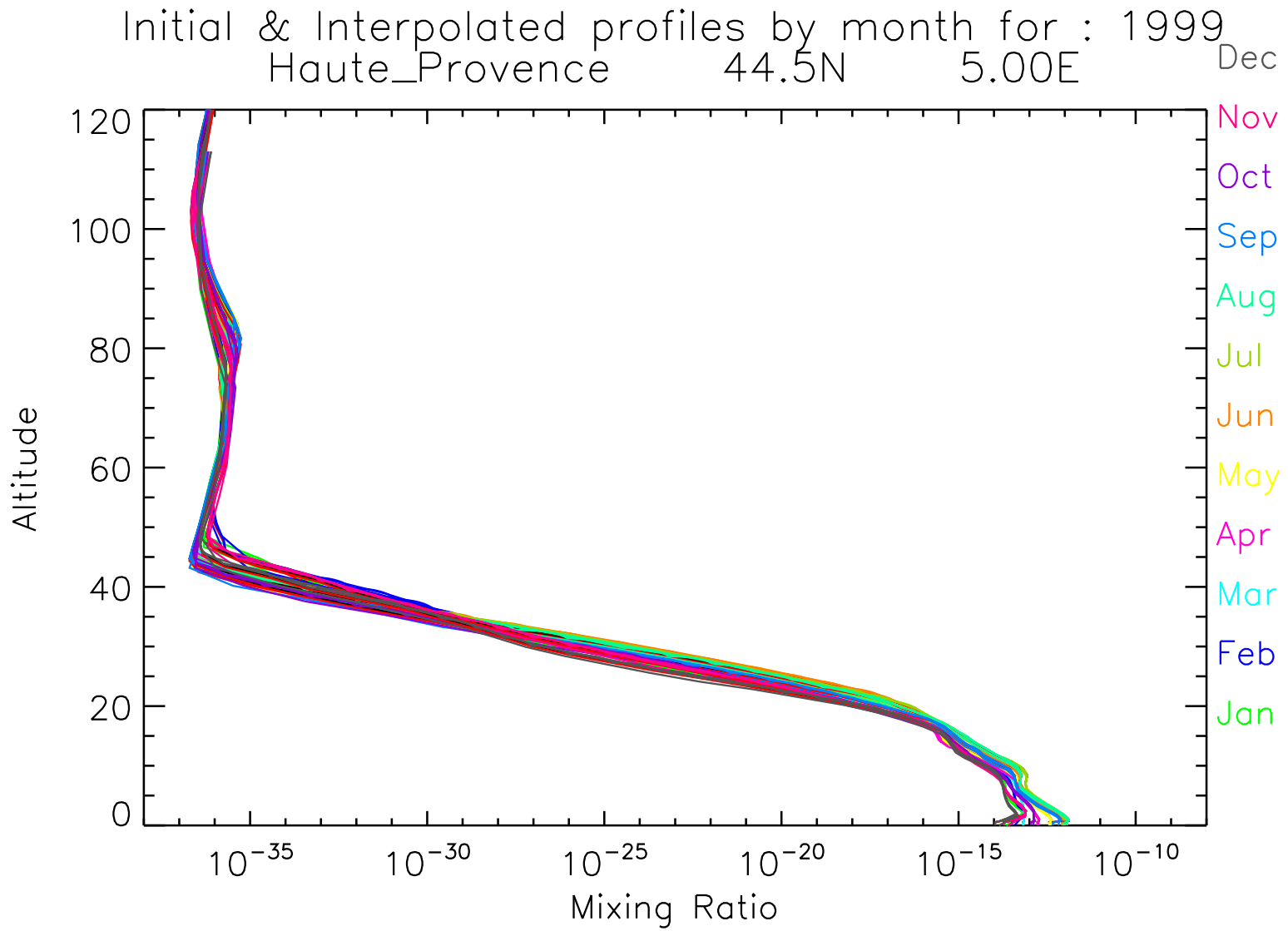
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Haute_Provence 44.5N 5.00E
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Altitude
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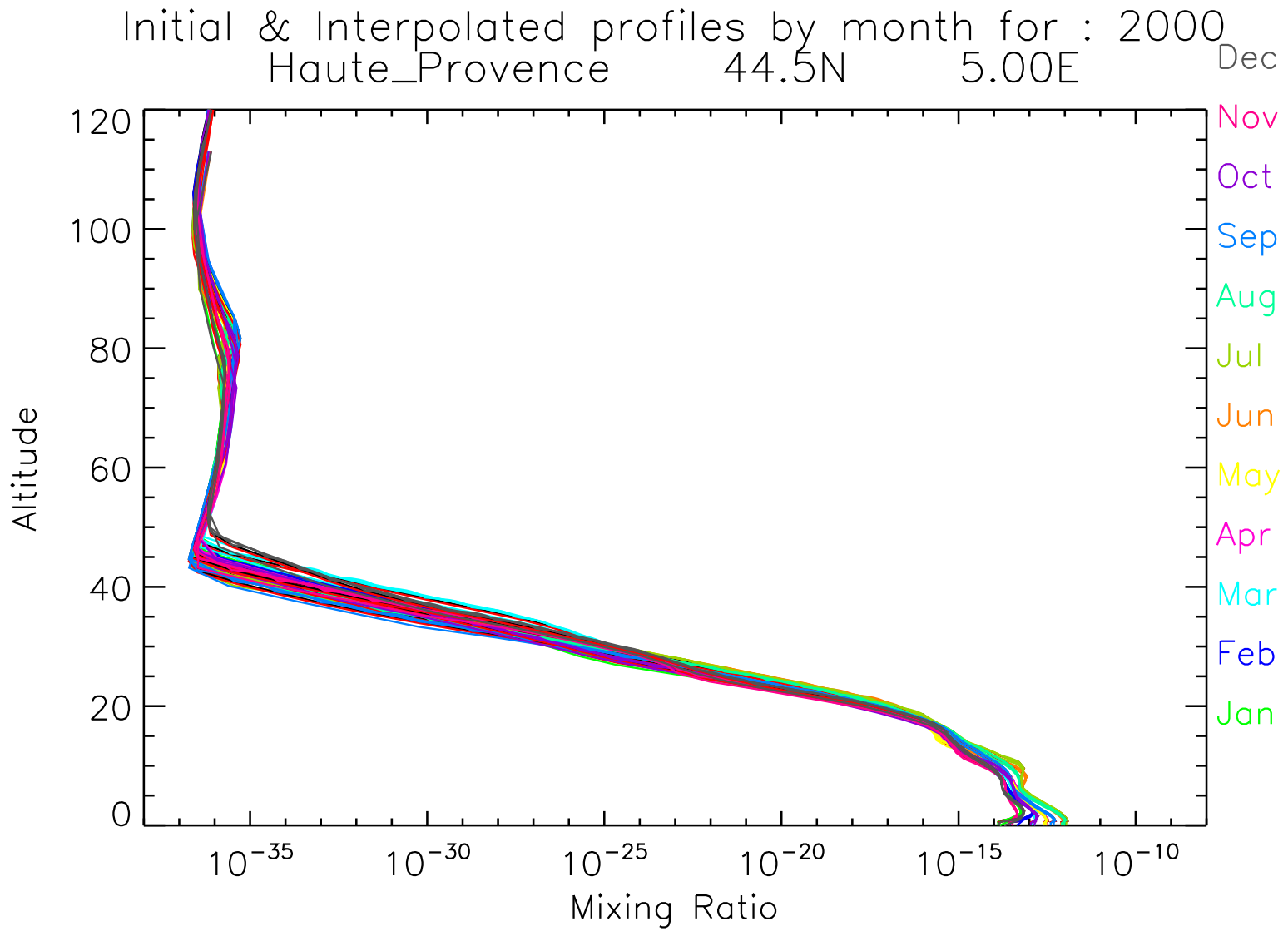
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Haute_Provence 44.5N 5.00E
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Altitude
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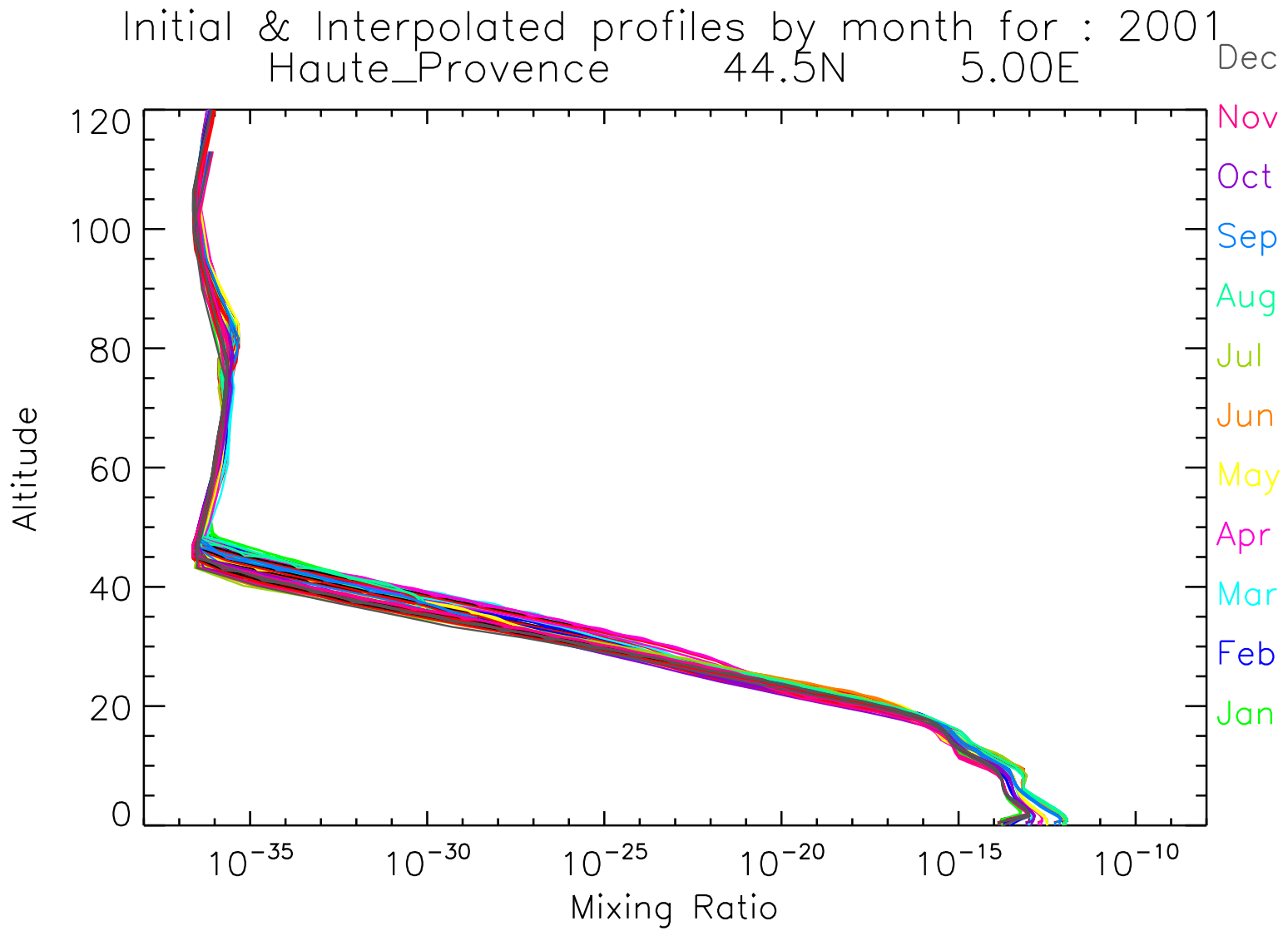
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Haute_Provence 44.5N 5.00E
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Altitude
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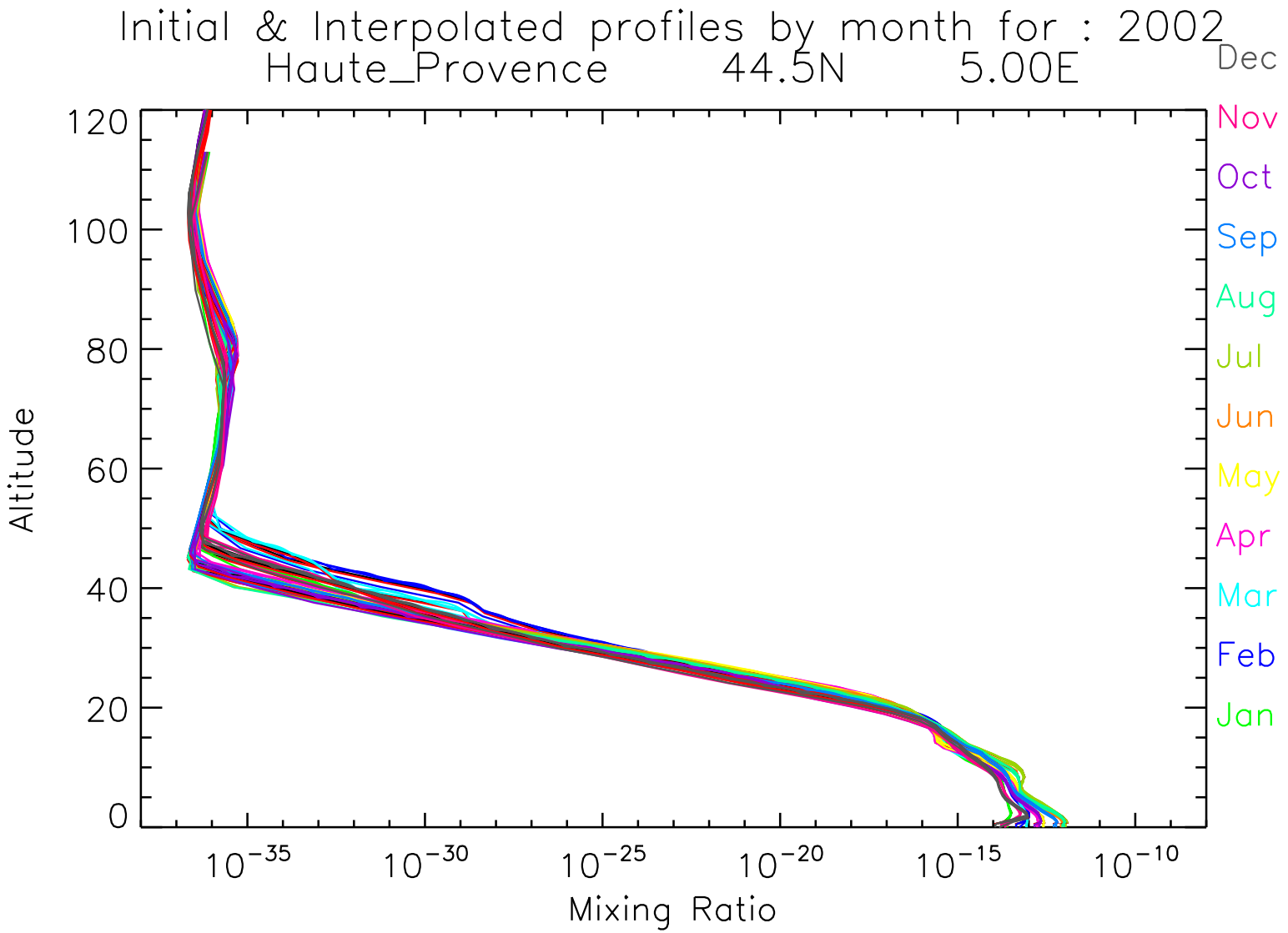
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Haute_Provence 44.5N 5.00E
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Altitude
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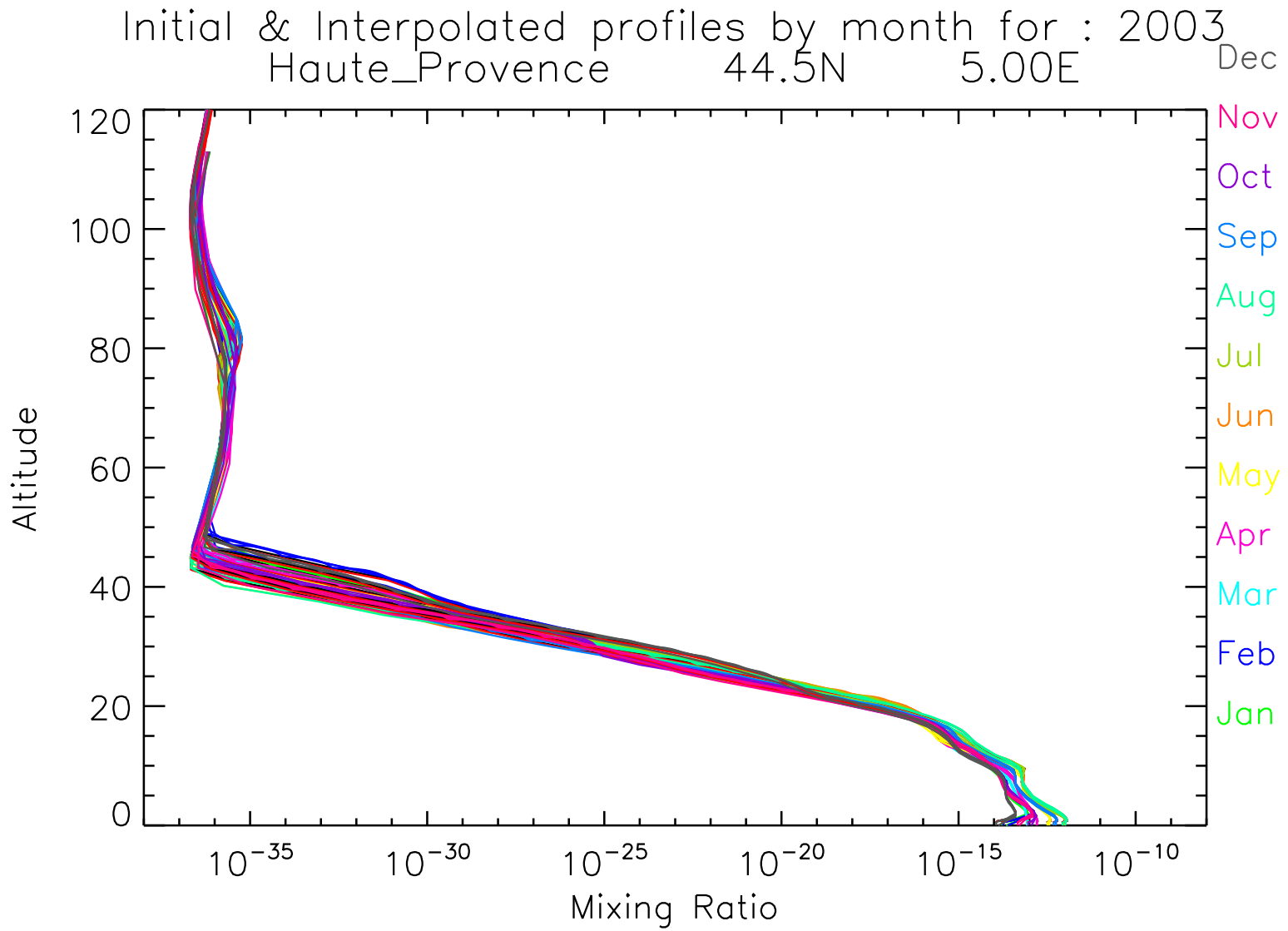
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Haute_Provence 44.5N 5.00E
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Altitude
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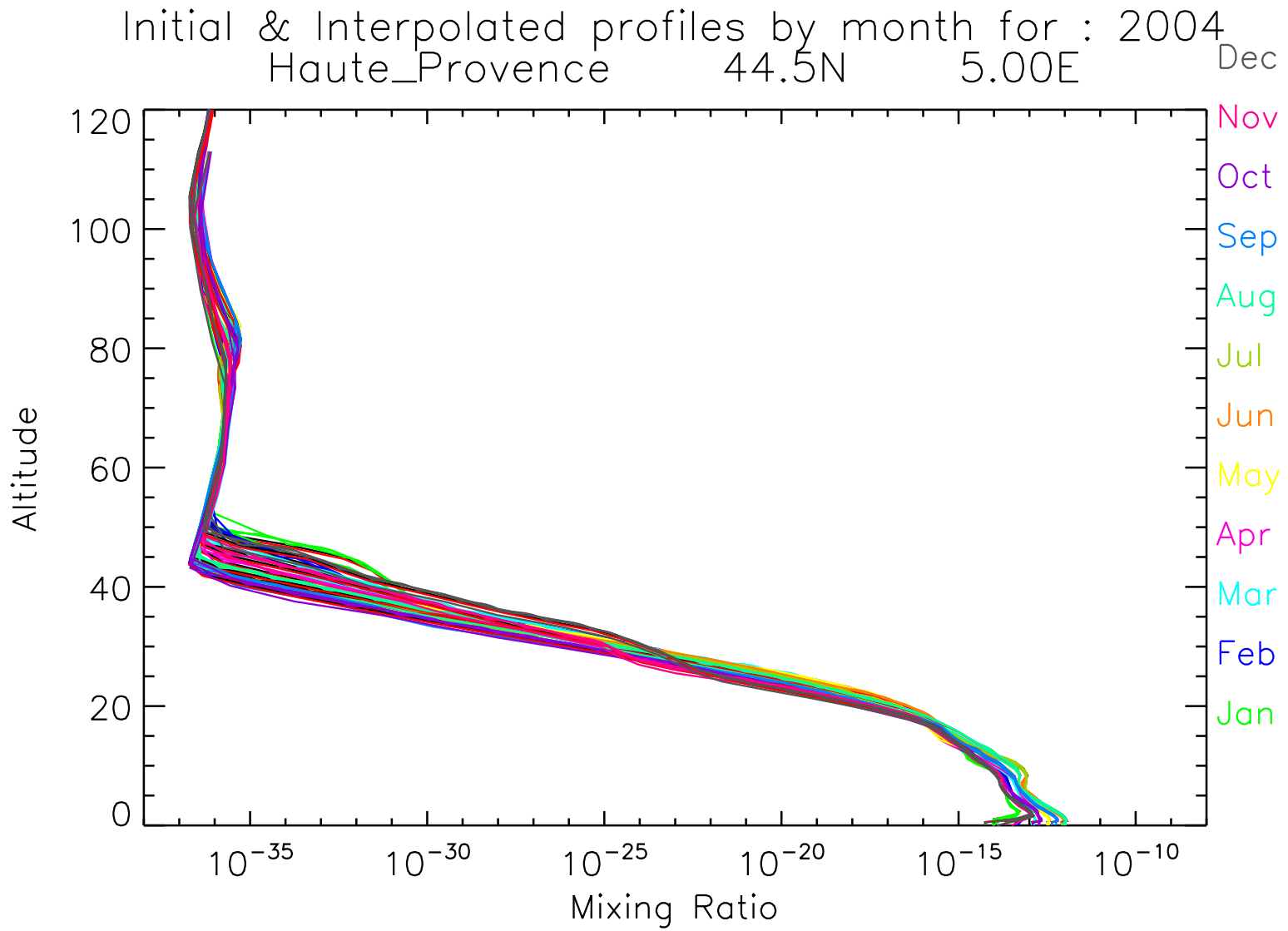
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Haute_Provence 44.5N 5.00E
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Altitude
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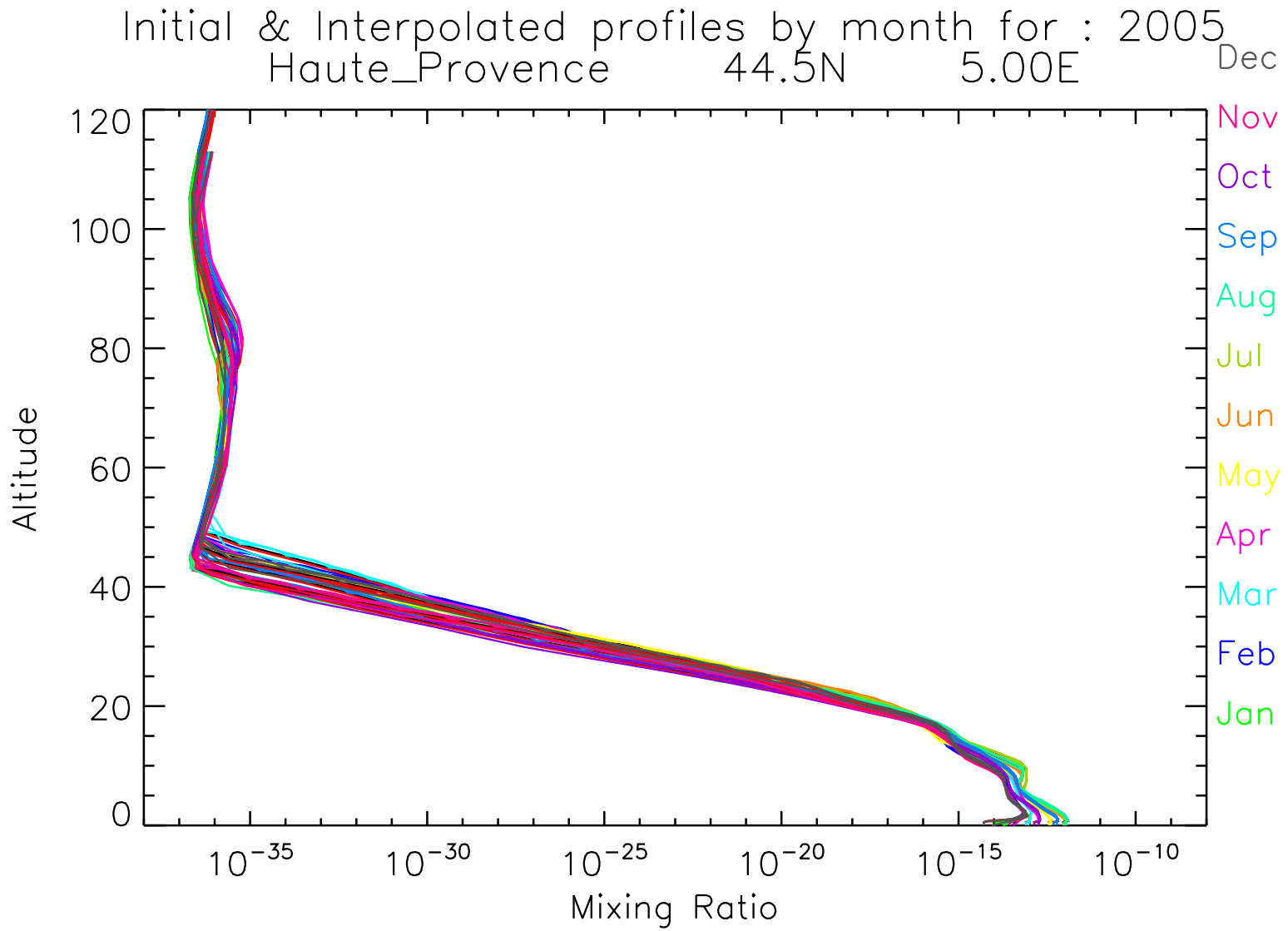
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Haute_Provence 44.5N 5.00E
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Altitude
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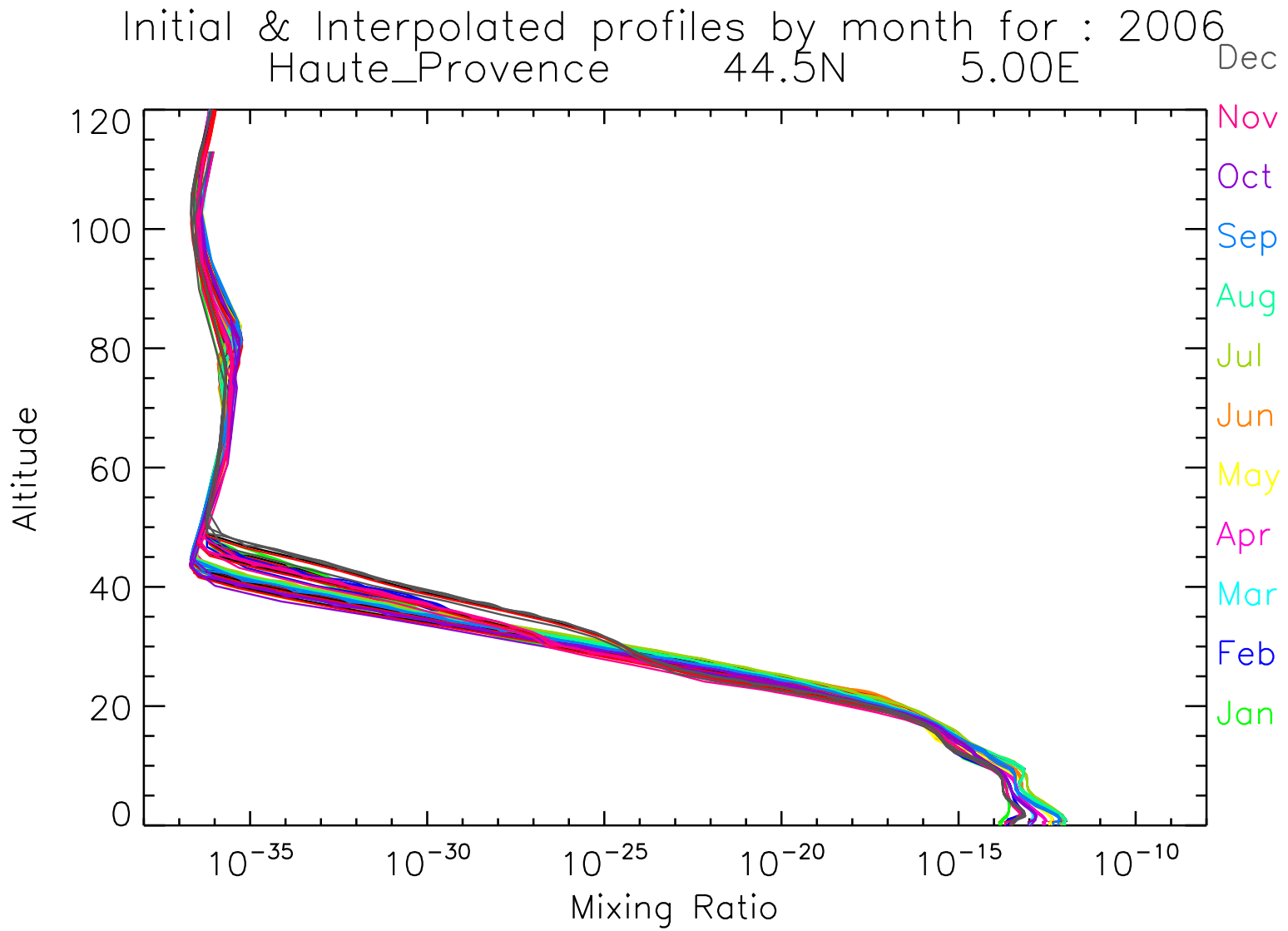
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Haute_Provence 44.5N 5.00E
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Altitude
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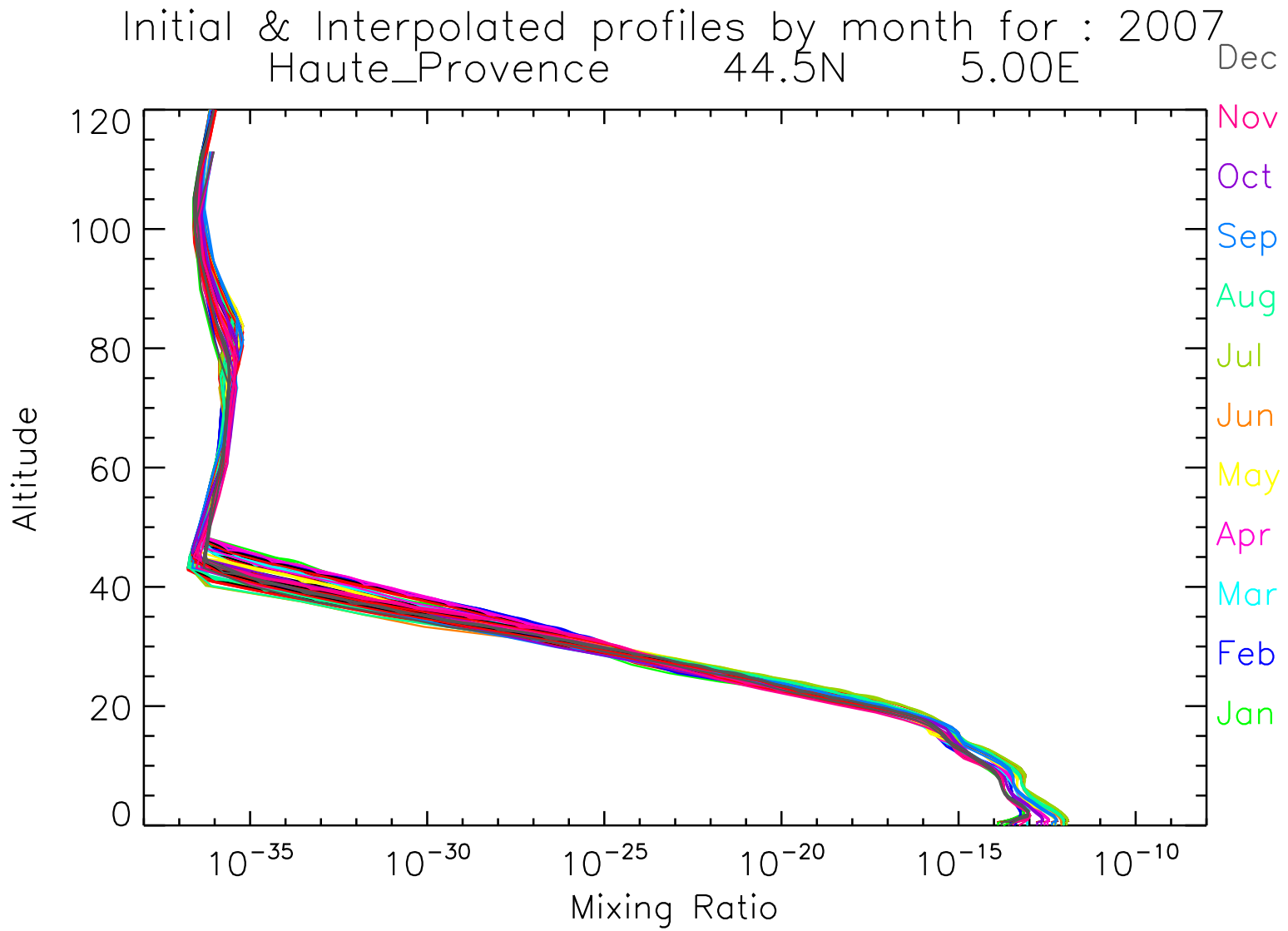
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Haute_Provence 44.5N 5.00E
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Altitude
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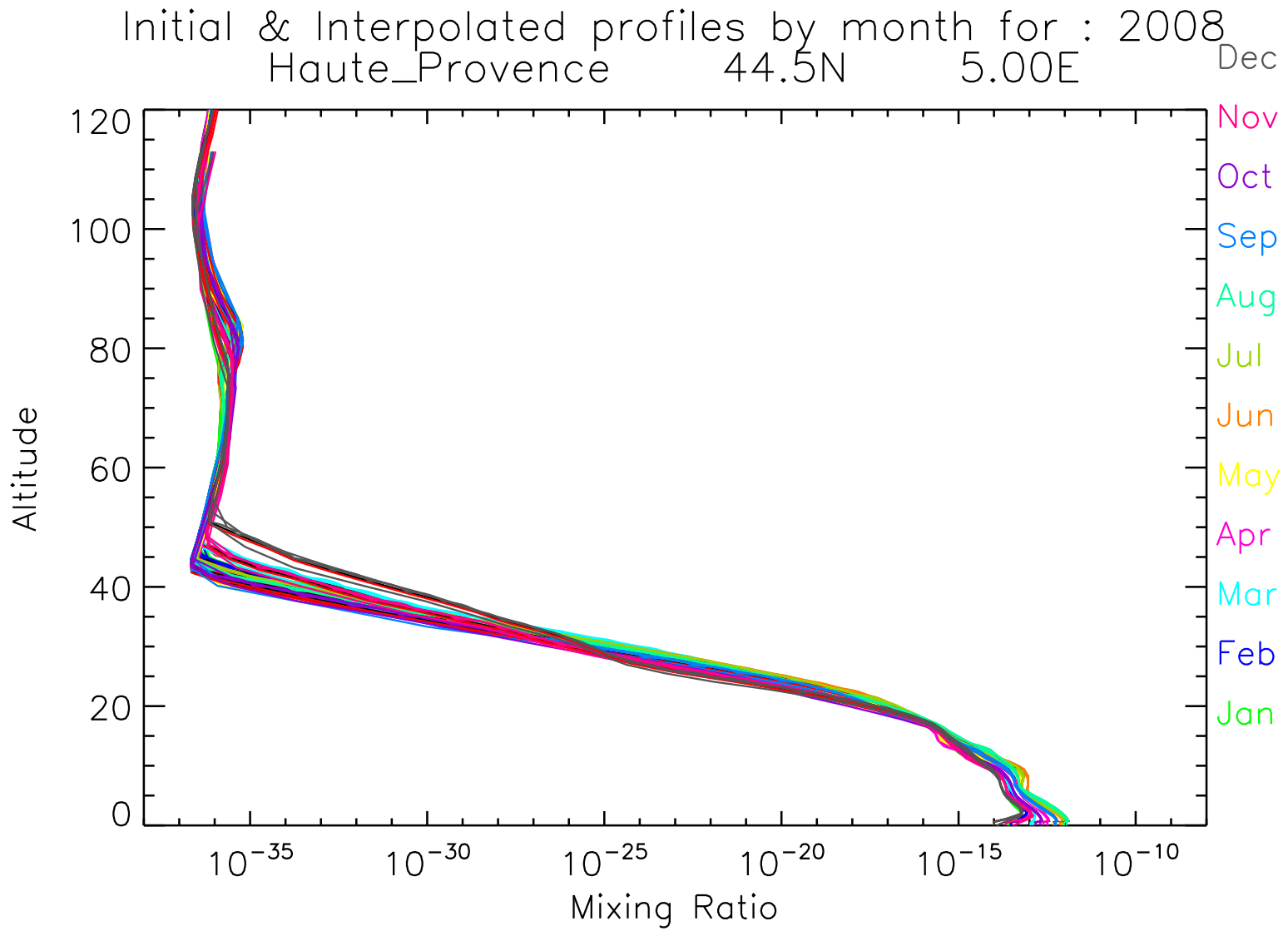
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Haute_Provence 44.5N 5.00E
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Altitude
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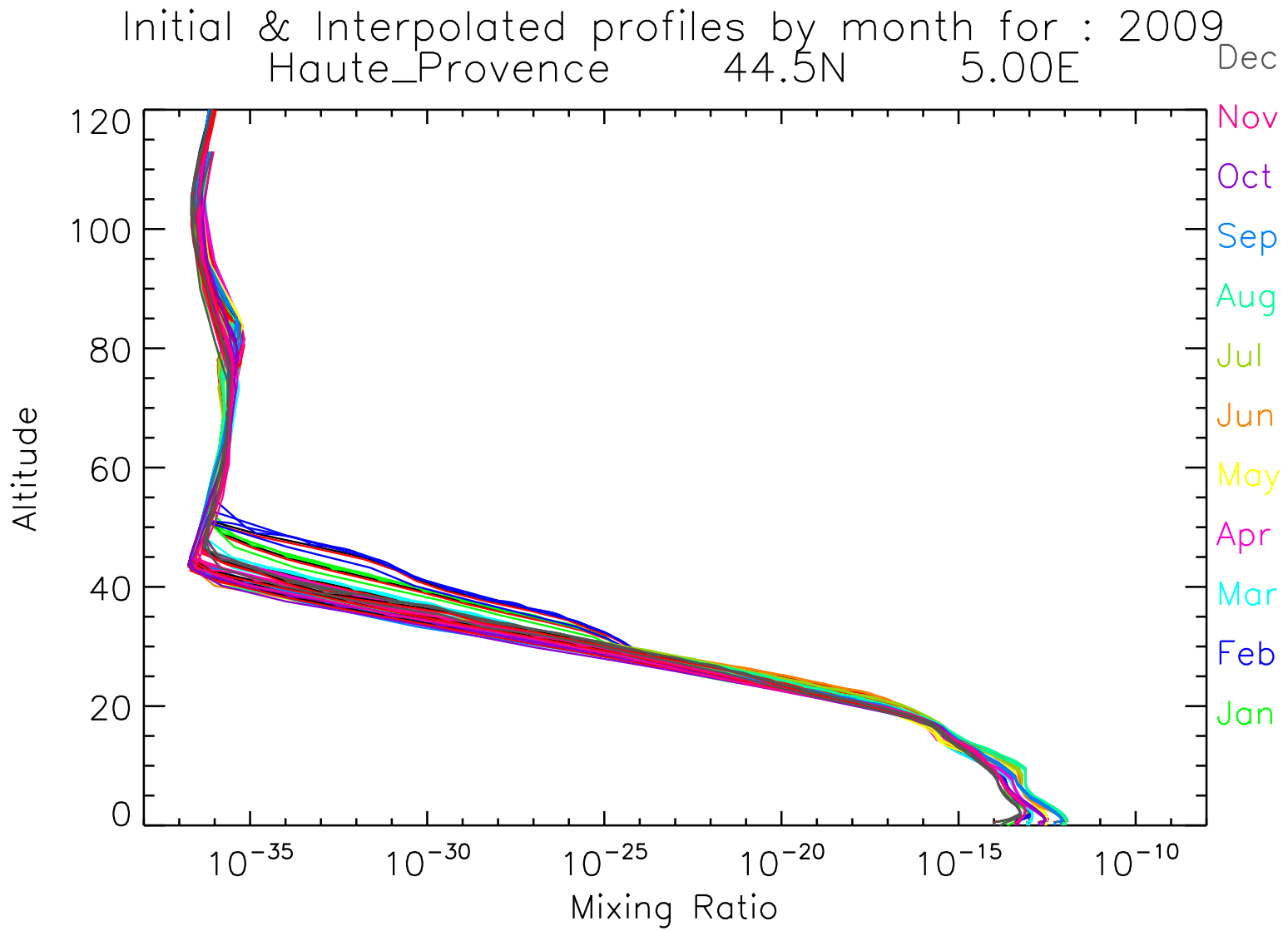
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Haute_Provence 44.5N 5.00E
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Altitude
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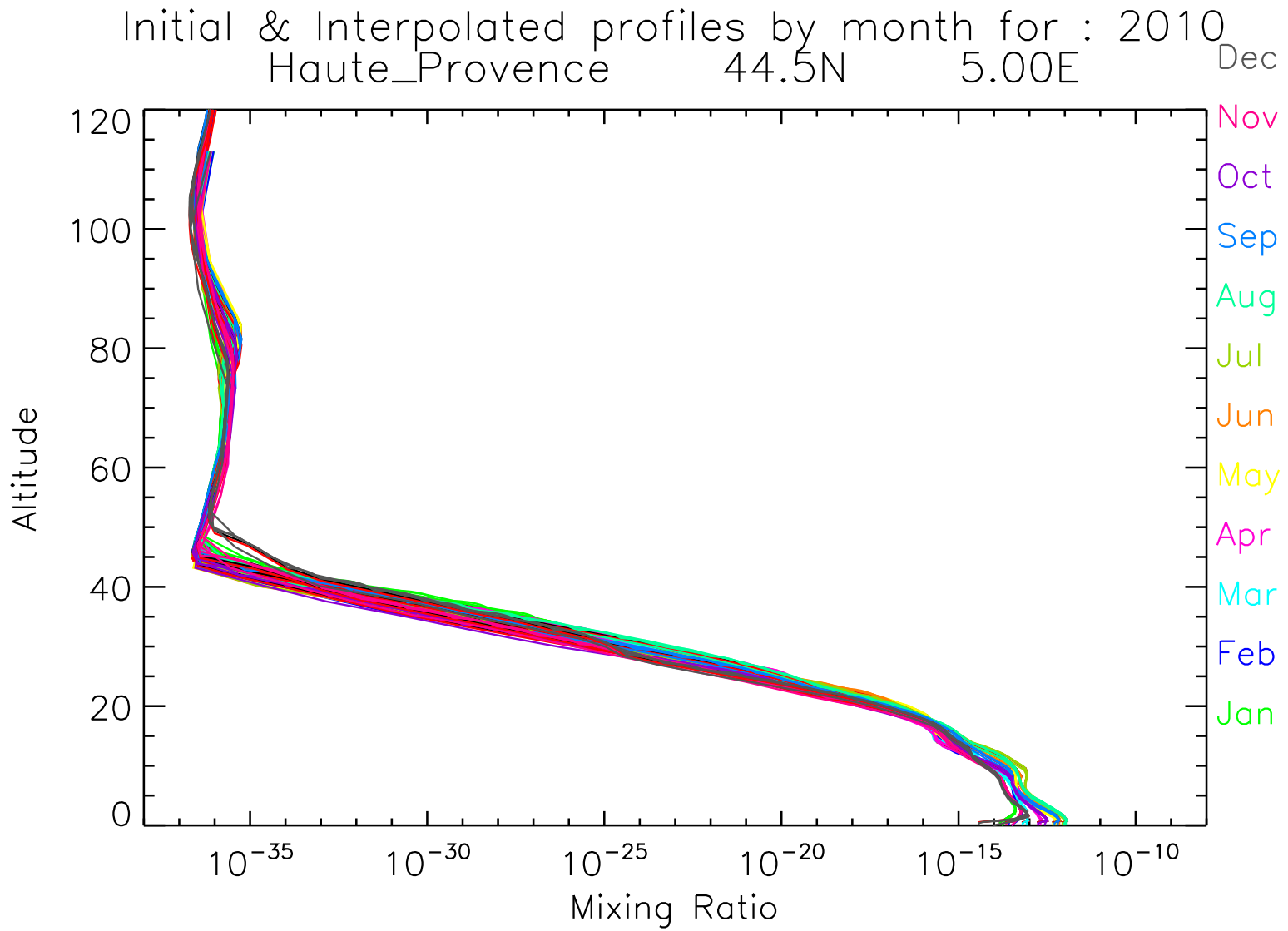
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Haute_Provence 44.5N 5.00E
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Altitude
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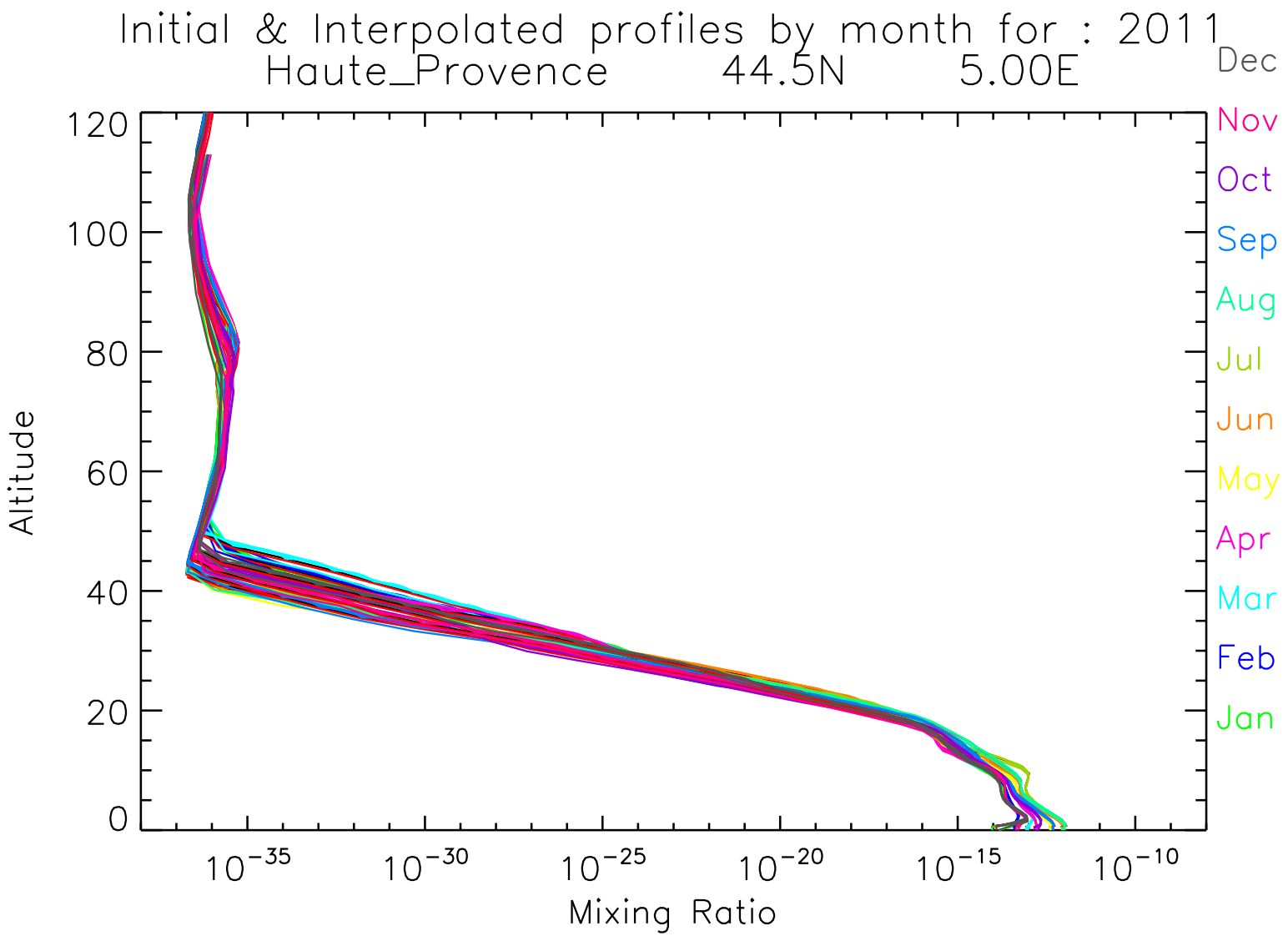
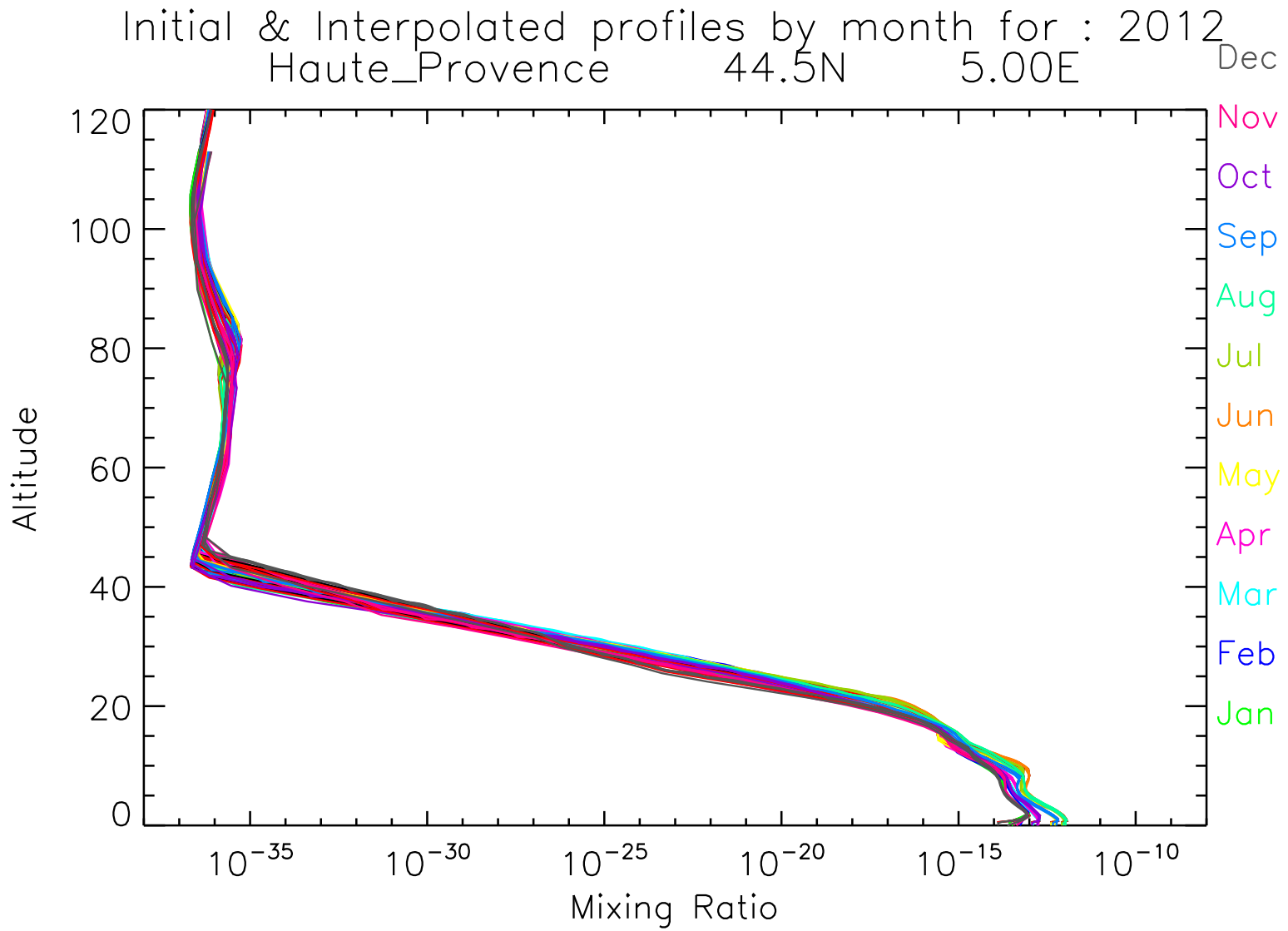
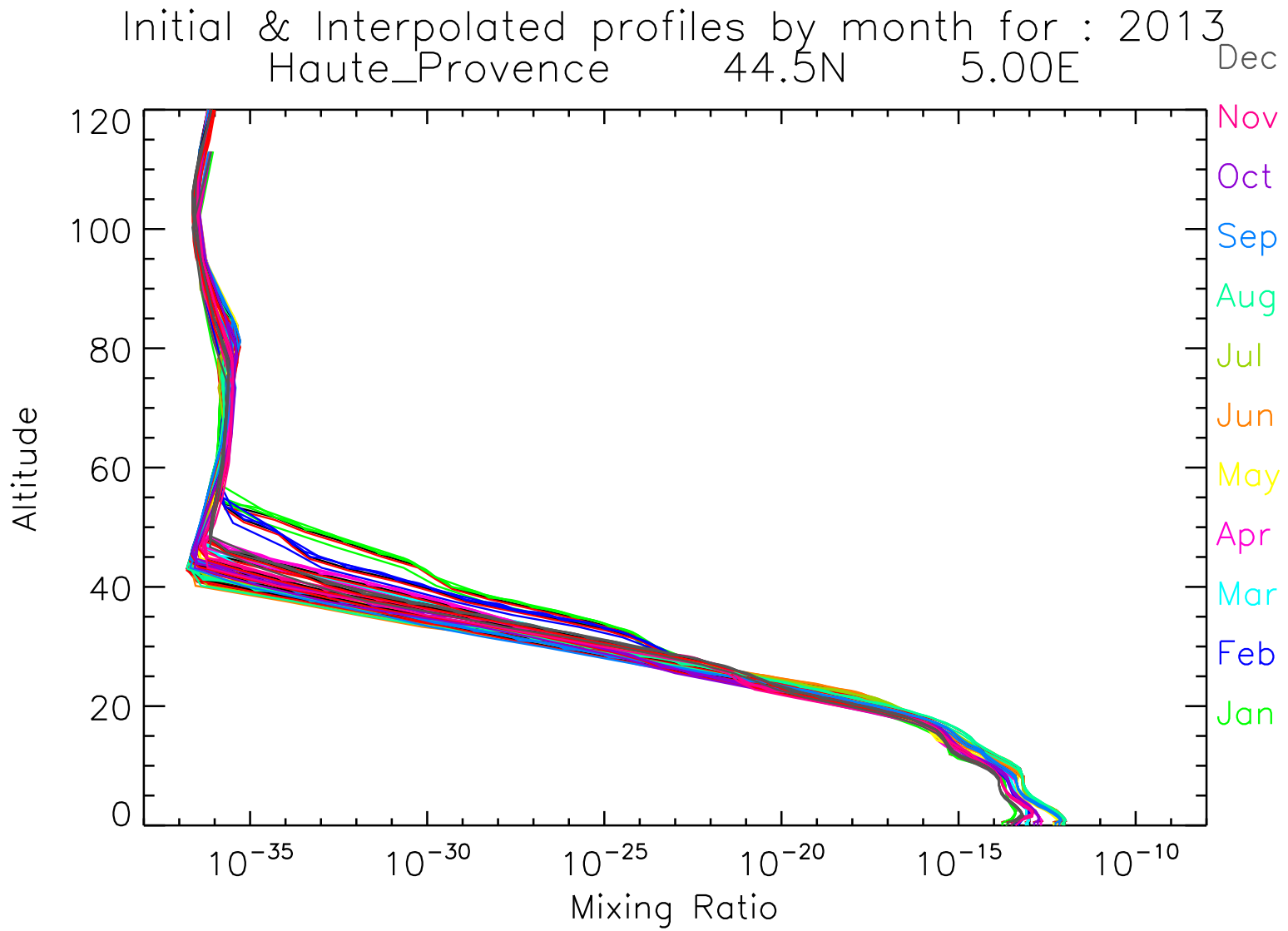
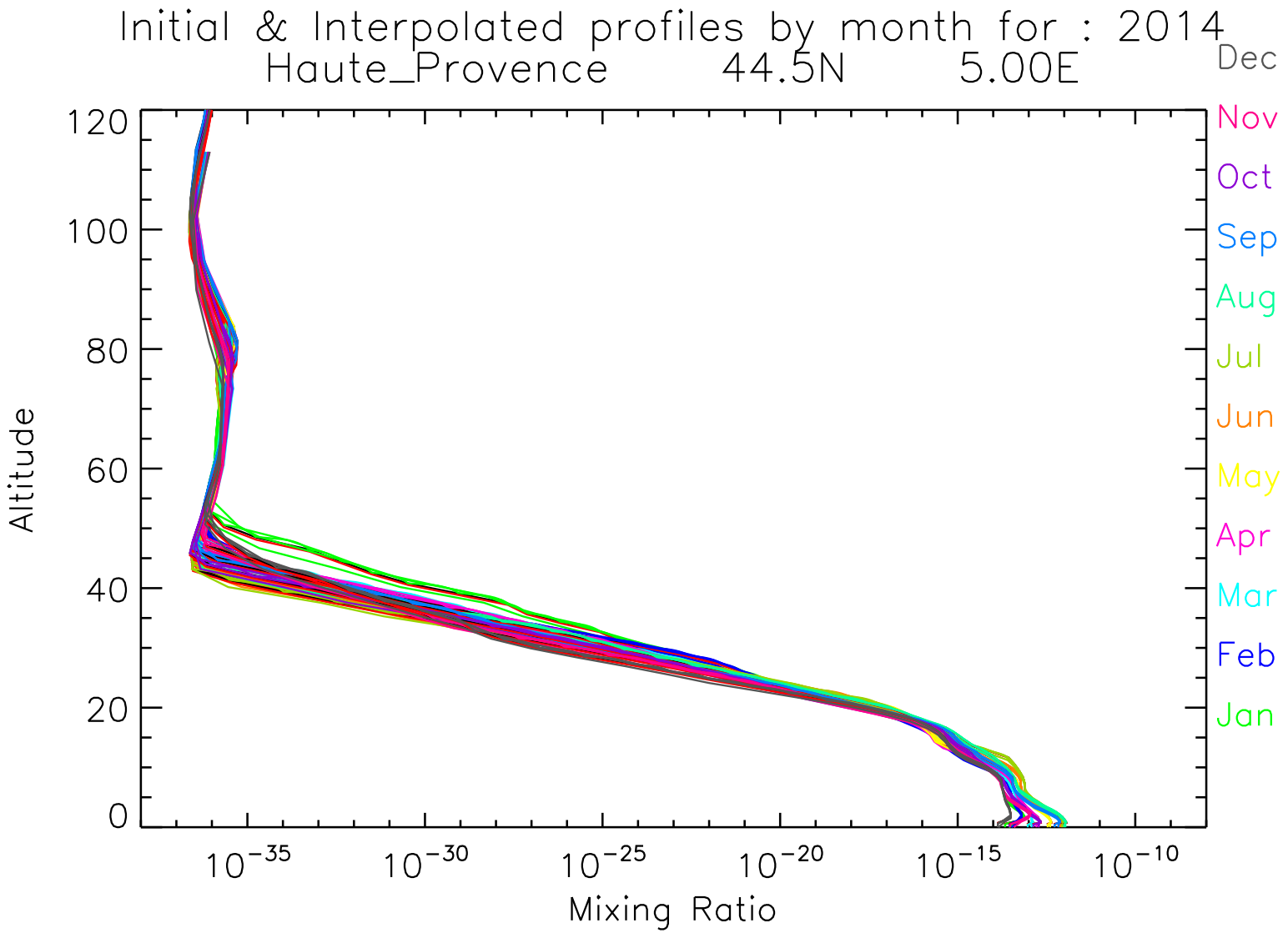
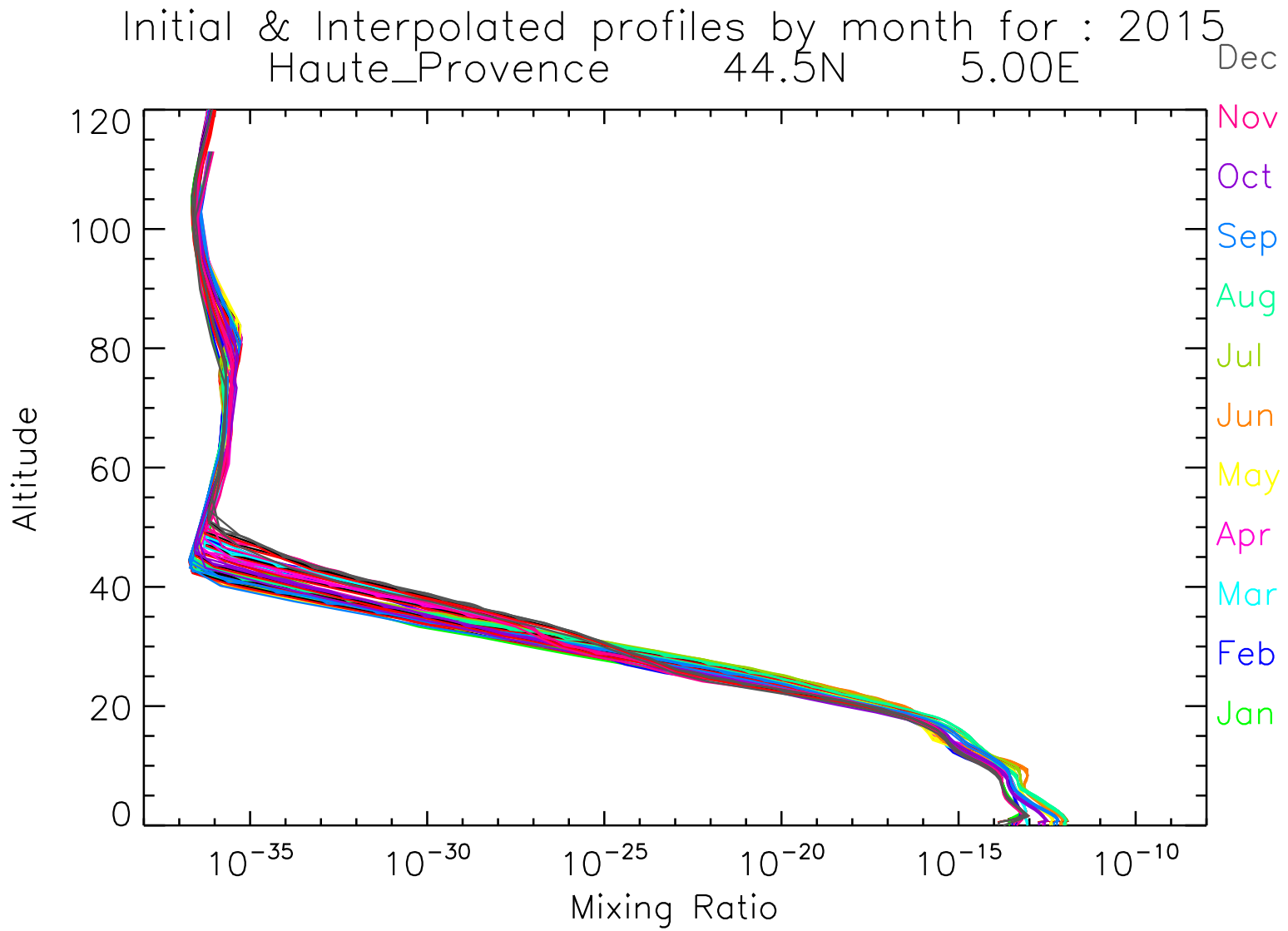
10^{-10}
Mixing Ratio

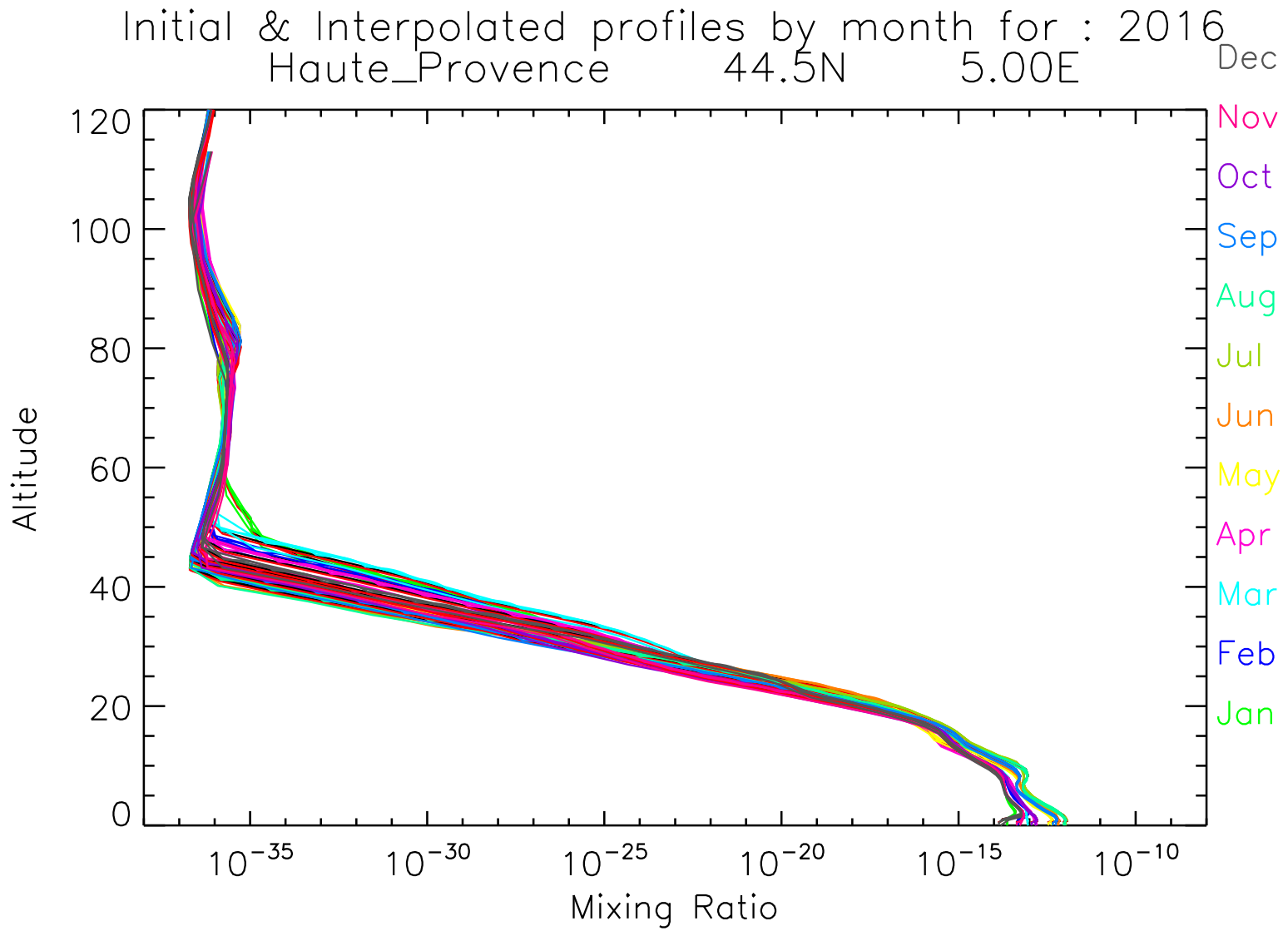

Initial & Interpolated profiles by month for : 2011
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

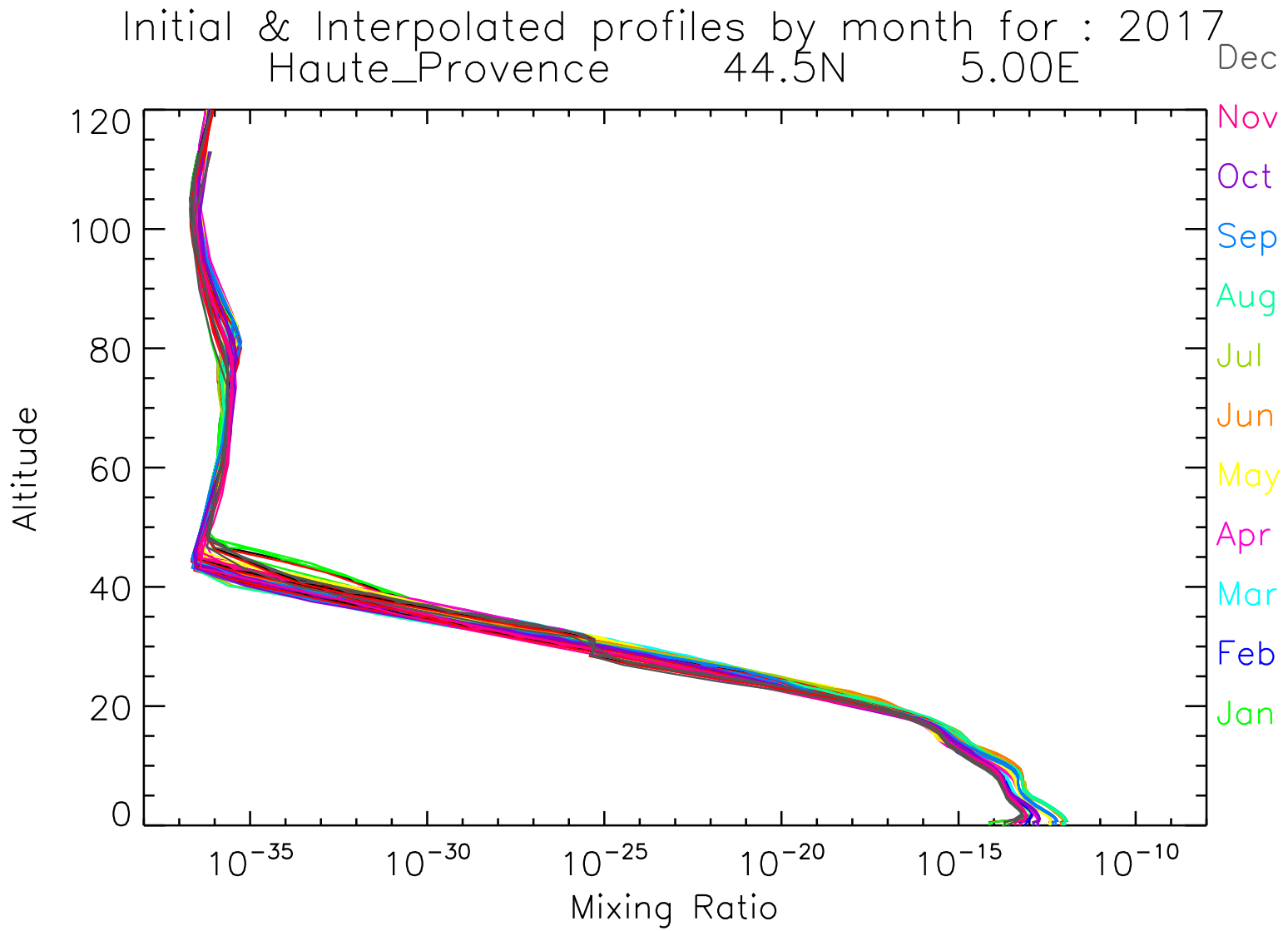

Initial & Interpolated profiles by month for : 2012
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

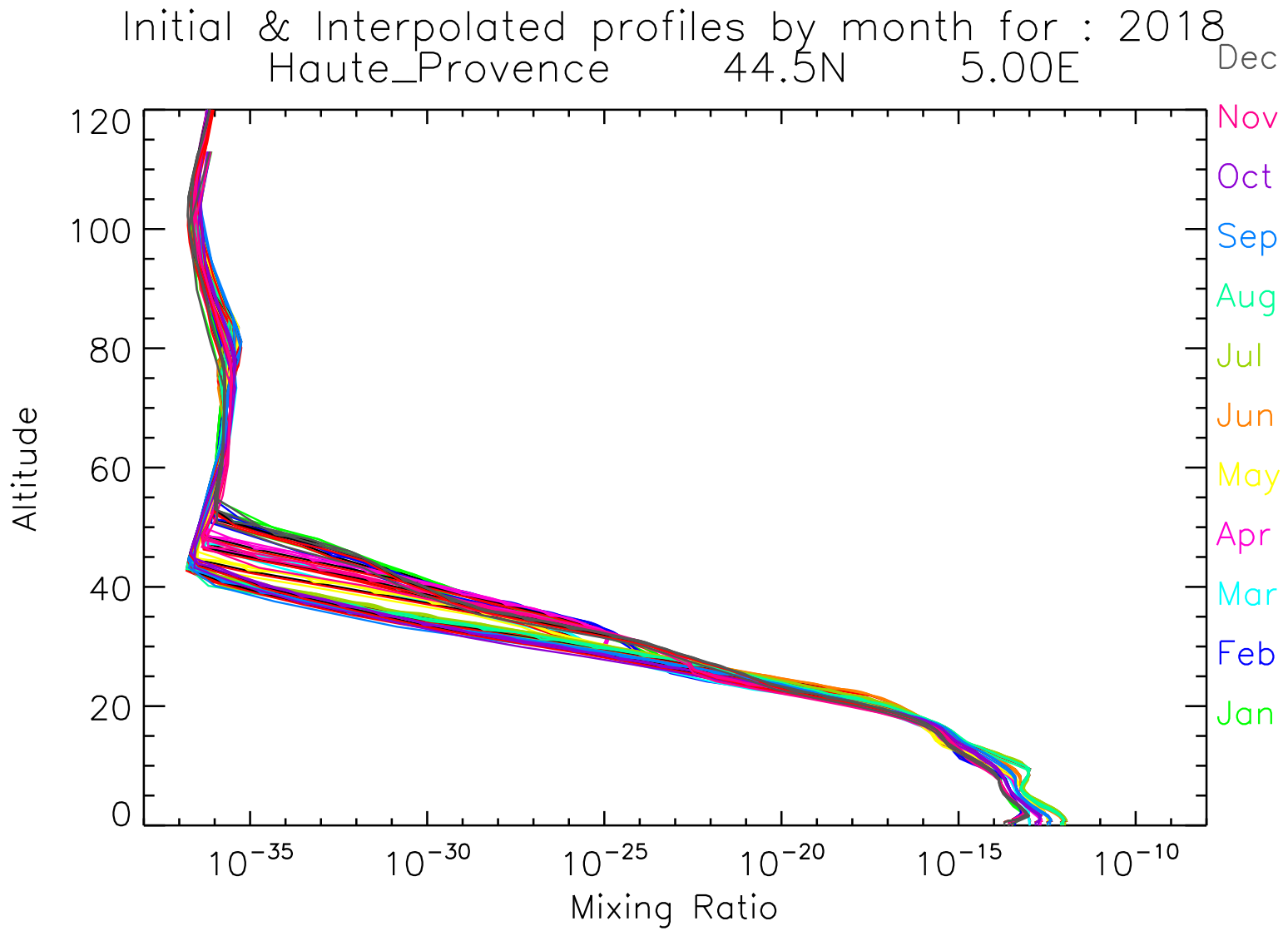

Initial & Interpolated profiles by month for : 2013
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

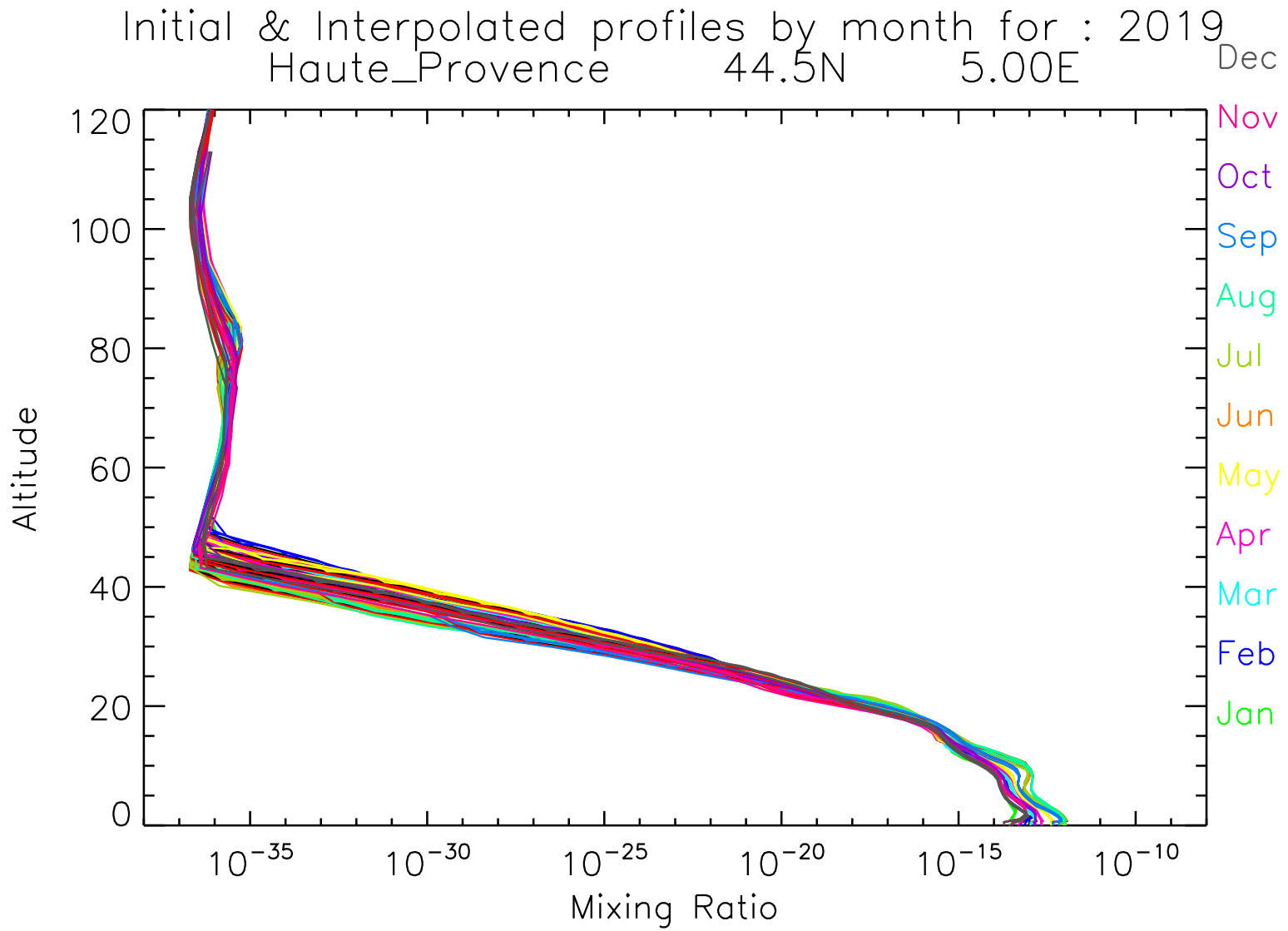

Initial & Interpolated profiles by month for : 2014
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

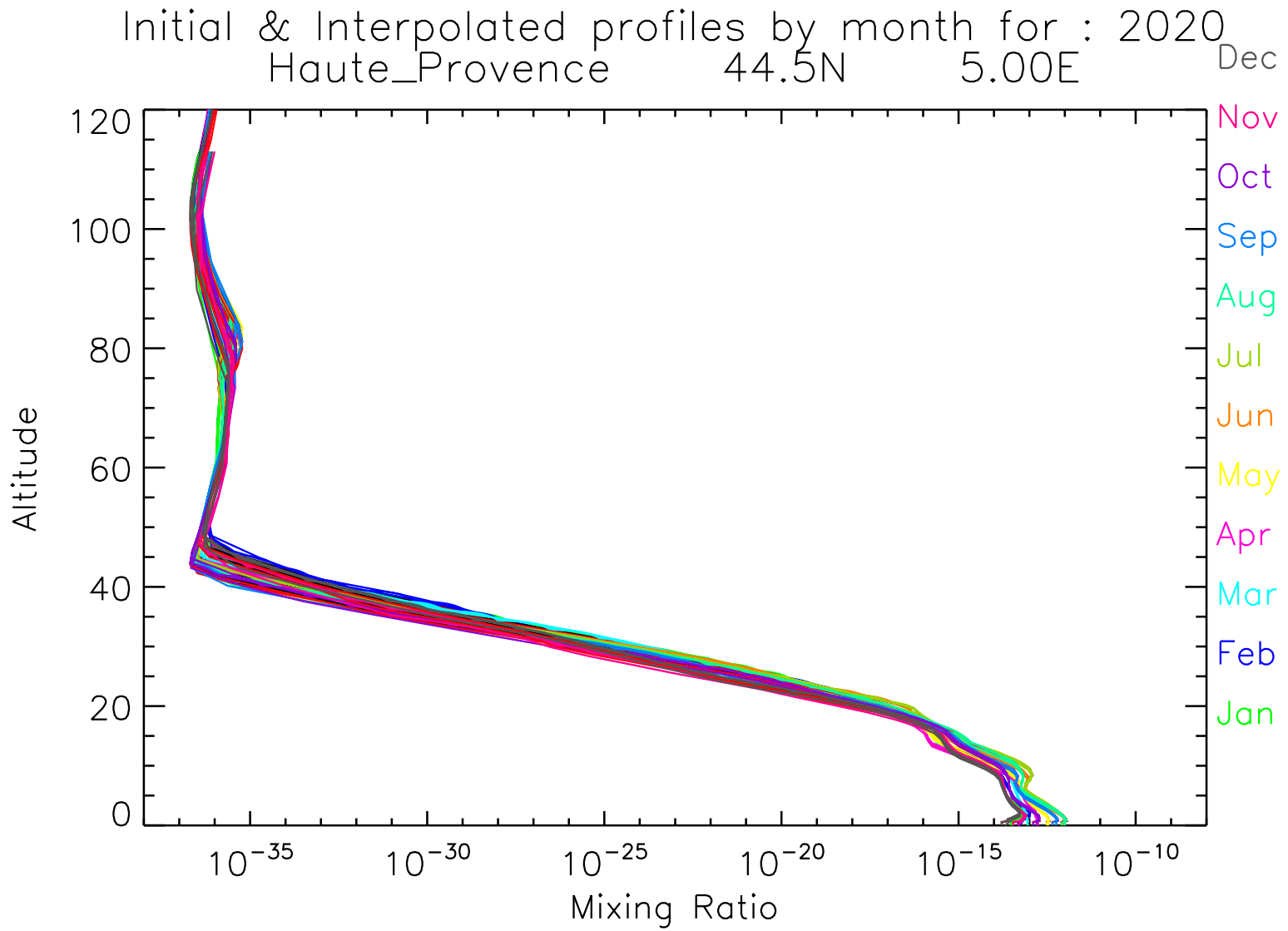

Initial & Interpolated profiles by month for : 2015
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

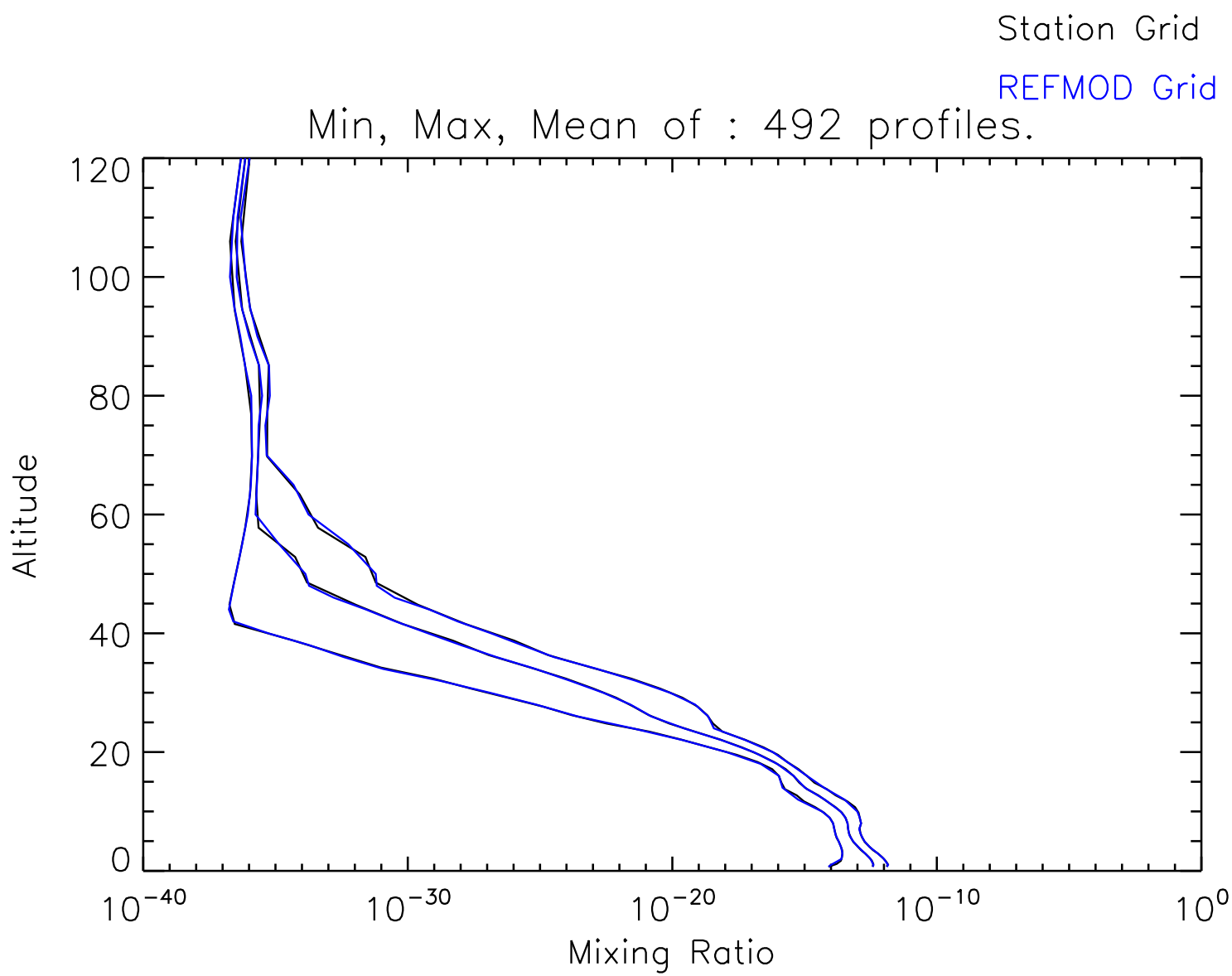

Initial & Interpolated profiles by month for : 2016
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

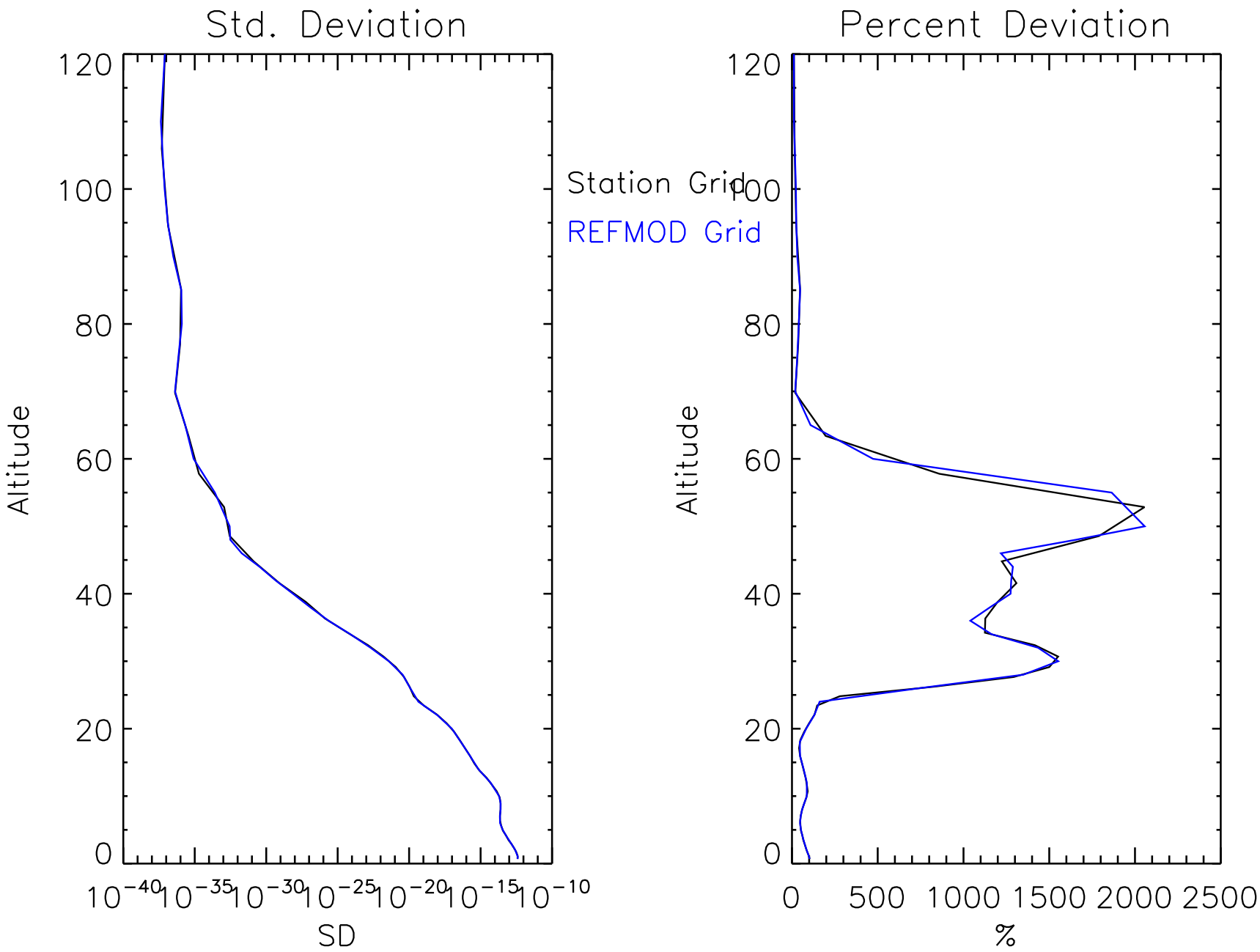

Initial & Interpolated profiles by month for : 2017
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

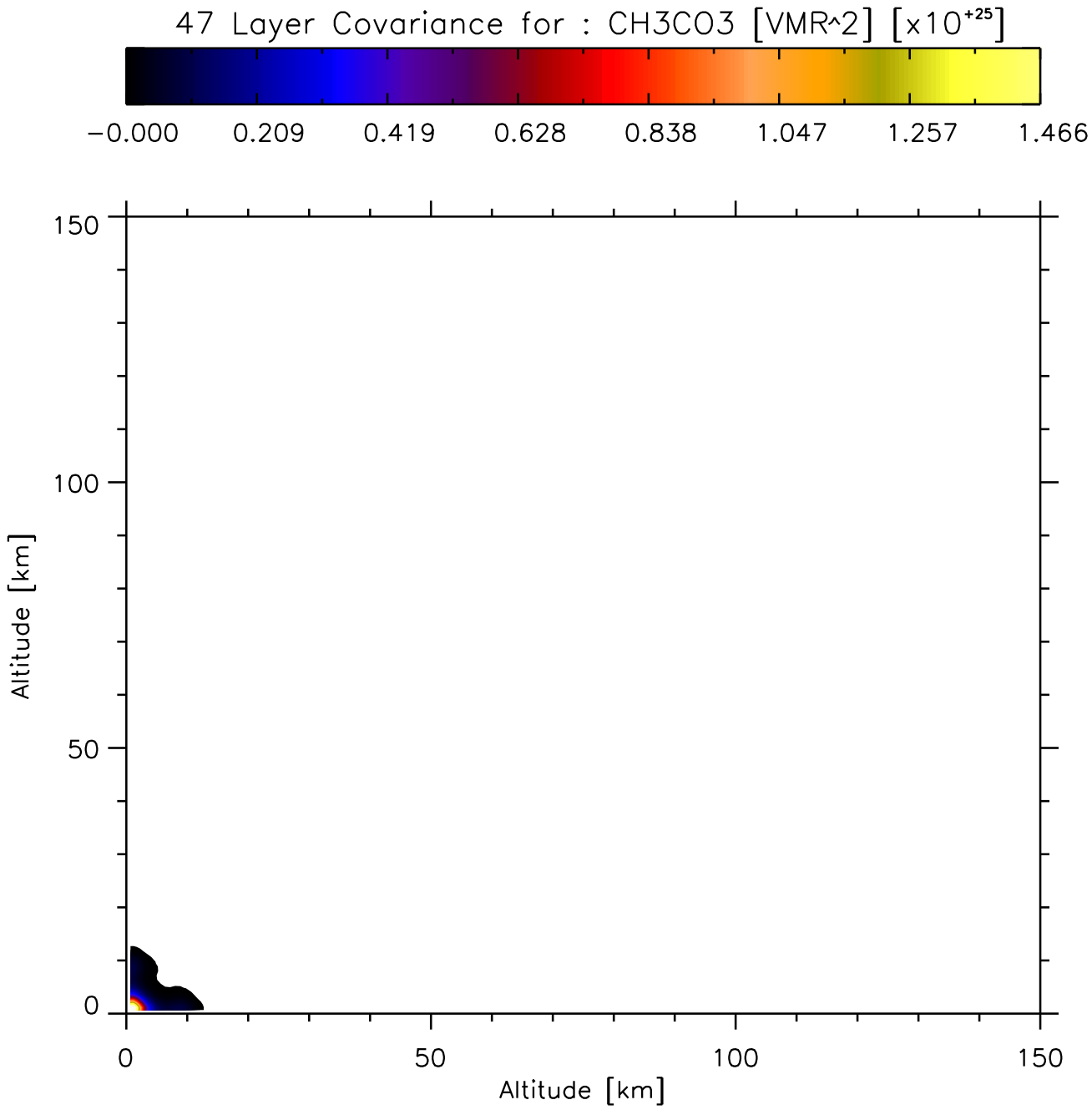

Initial & Interpolated profiles by month for : 2018
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

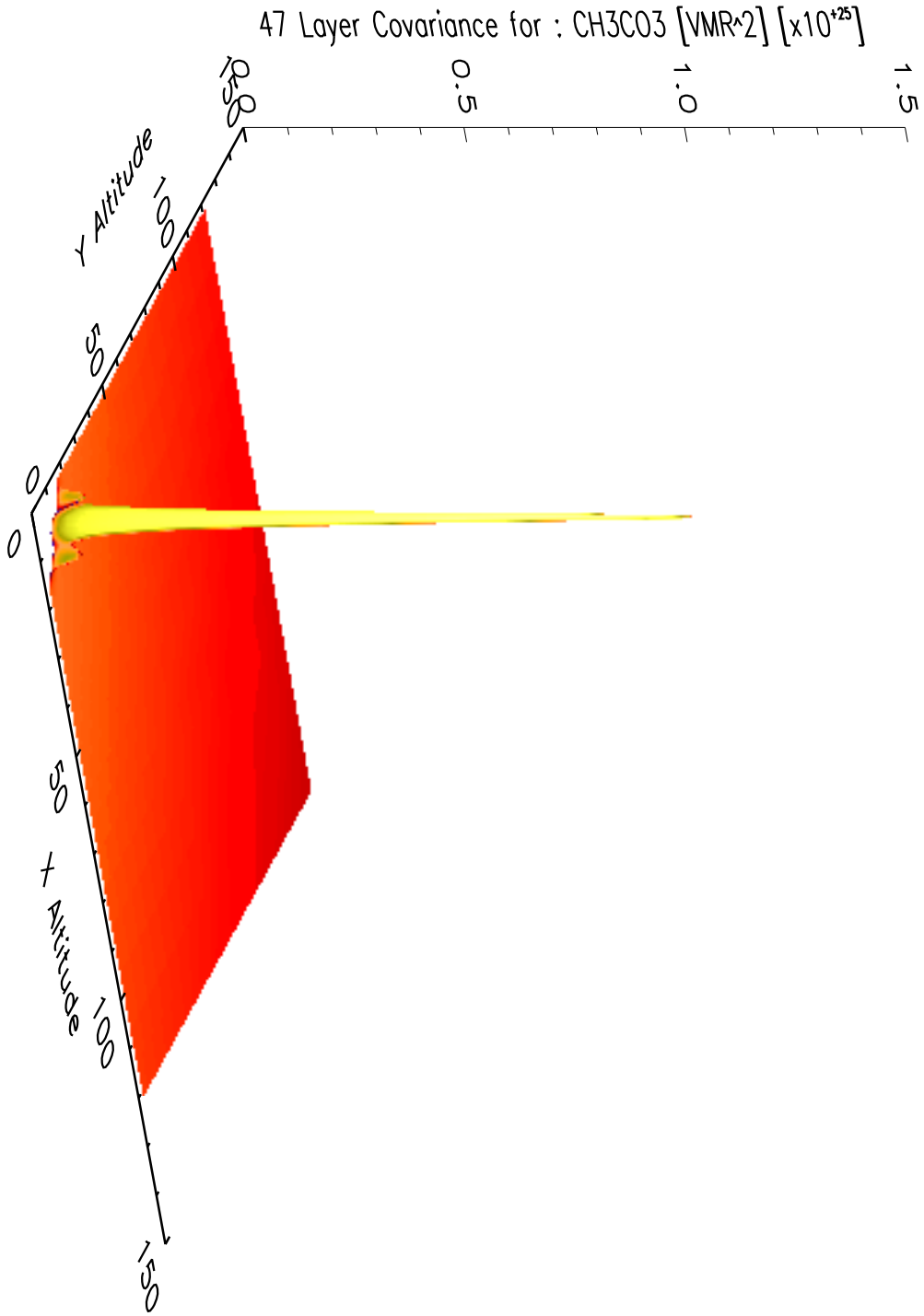

Initial & Interpolated profiles by month for : 2019
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

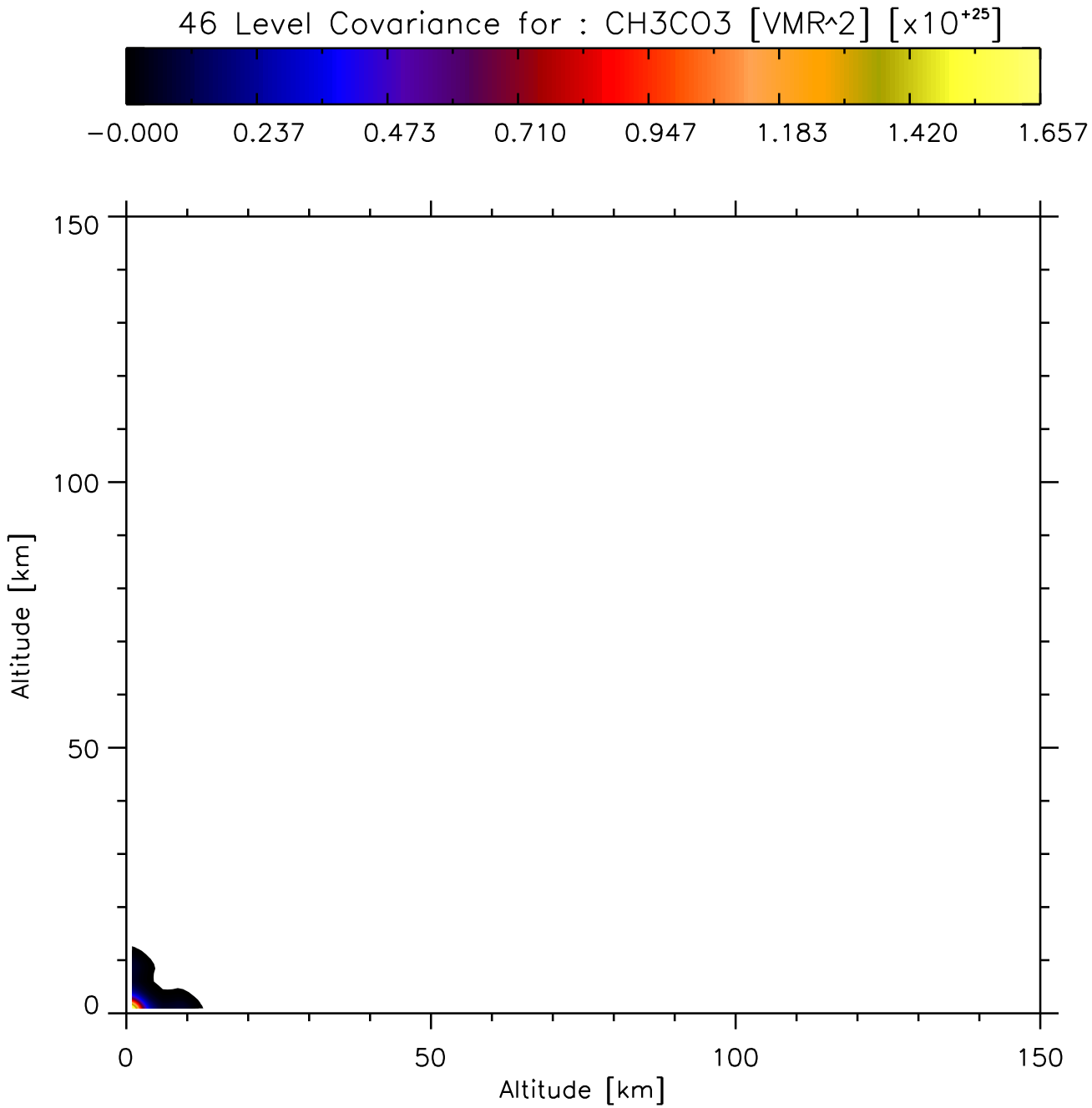

Initial & Interpolated profiles by month for : 2020
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-35}
10^{-30}
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio

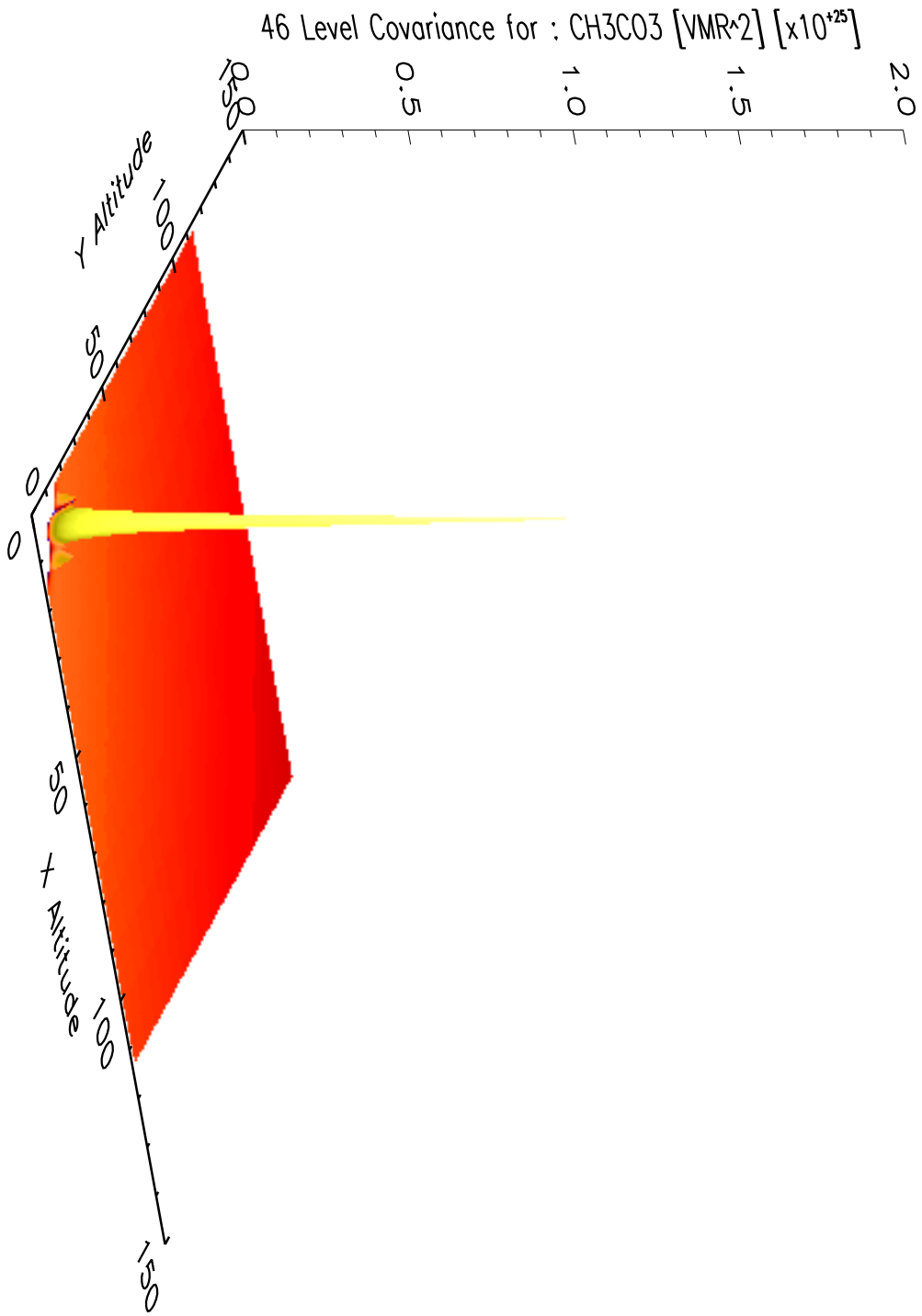

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-40}
10^{-30}
10^{-20}
10^{-10}
10^{0}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-40} 10^{-35} 10^{-30} 10^{-25} 10^{-20} 10^{-15} 10^{-10}
SD
0 500 1000 1500 2000 2500
%


47 Layer Covariance for : CH3CO3 [VMR^2] [x10^+25]
-0.000
0.209
0.419
0.628
0.838
1.047
1.257
1.466
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


47 Layer Covariance for : CH3CO3 [VMR^2] [x10^+25]
0.0
0.5
1.0
1.5
Y Altitude
0
50
100
150
0
50
X Altitude
100
150


46 Level Covariance for : CH3CO3 [VMR^2] [x10^+25]
-0.000
0.237
0.473
0.710
0.947
1.183
1.420
1.657
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


46 Level Covariance for : CH3CO3 [VMR^2] [x10^+25]
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
50
100
150
0
50
100
150
X Altitude