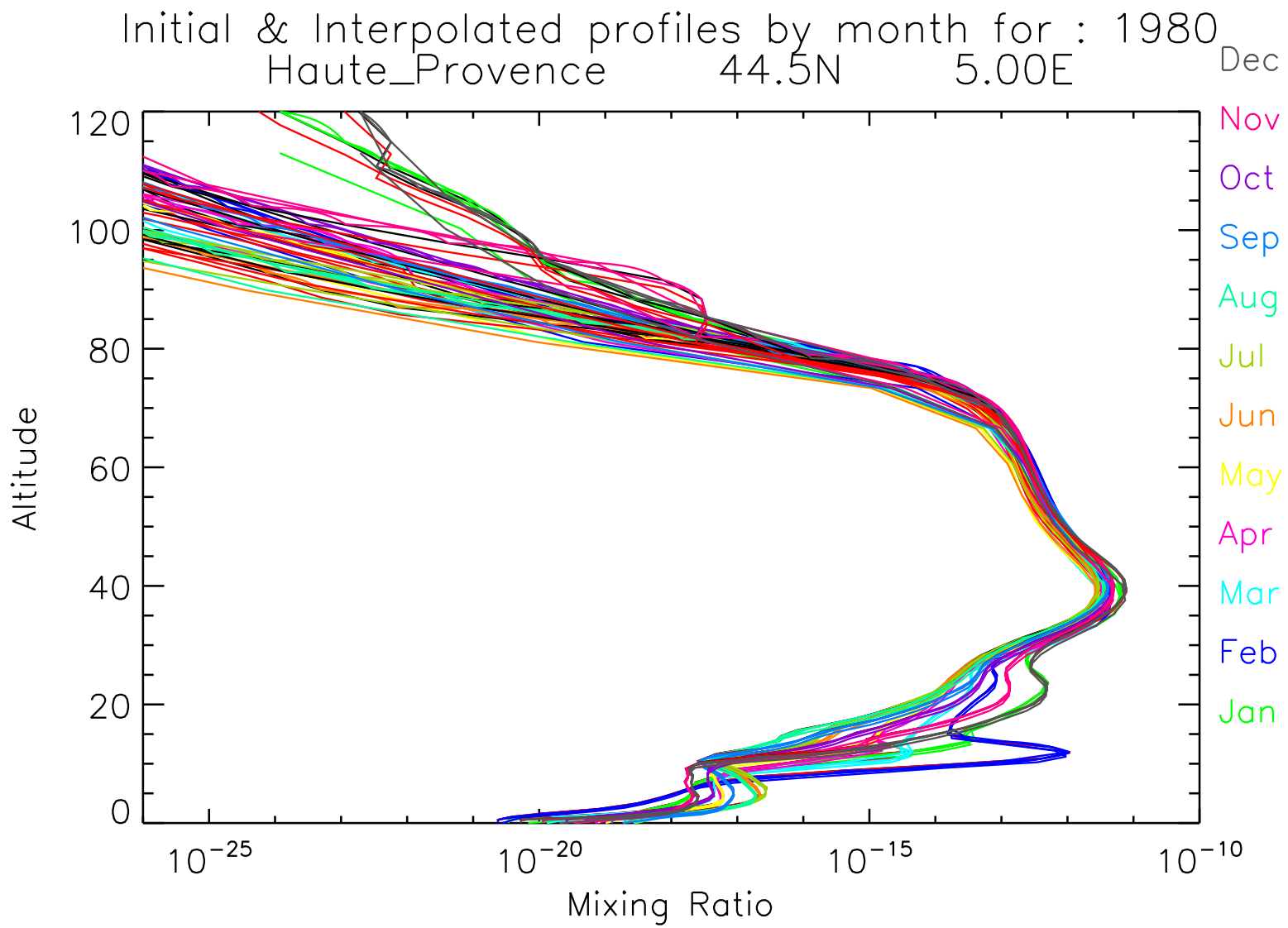
Initial & Interpolated profiles by month for : 1980
Haute_Provence 44.5N 5.00E
Dec
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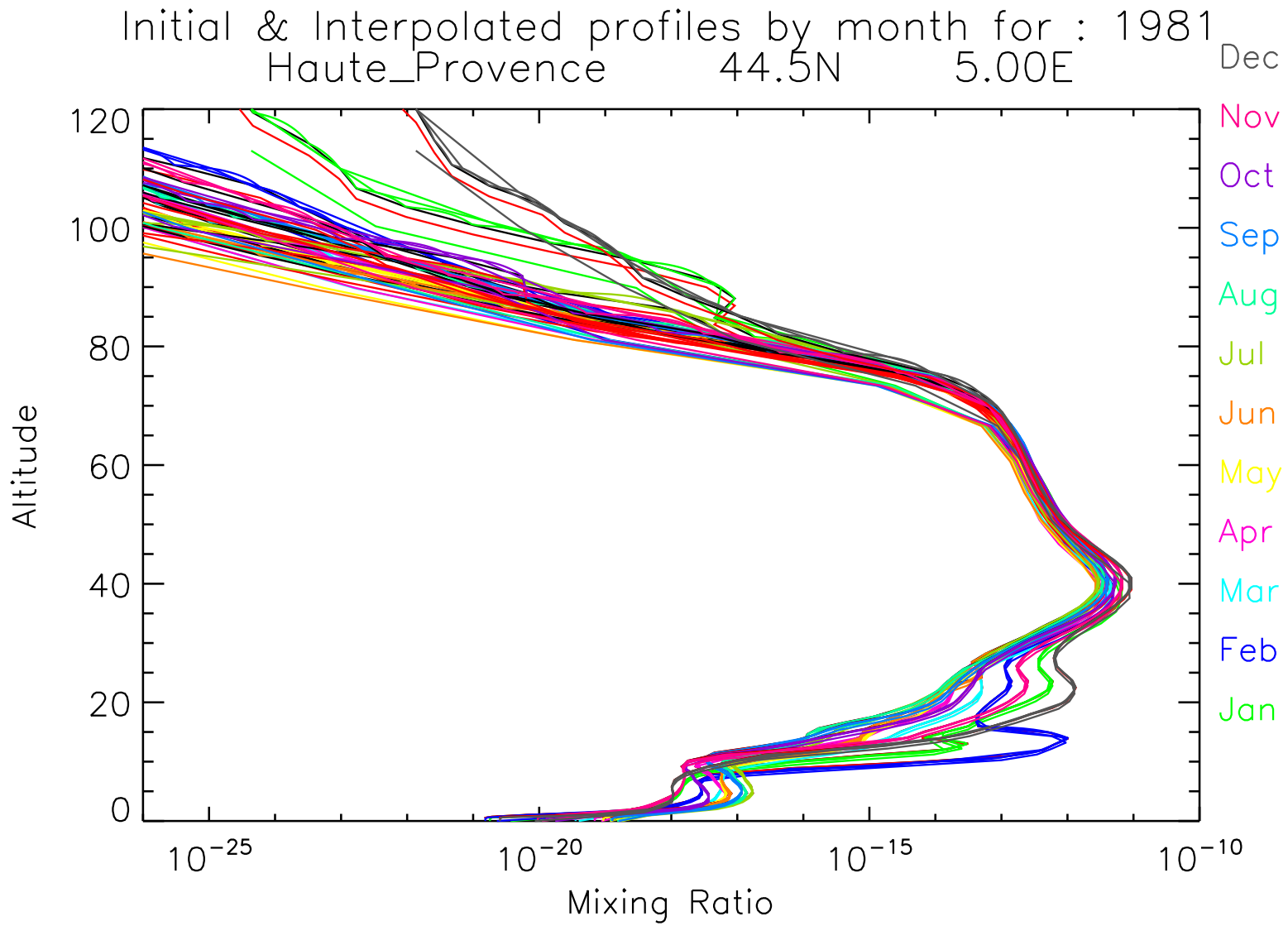
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Haute_Provence 44.5N 5.00E
Dec
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Altitude
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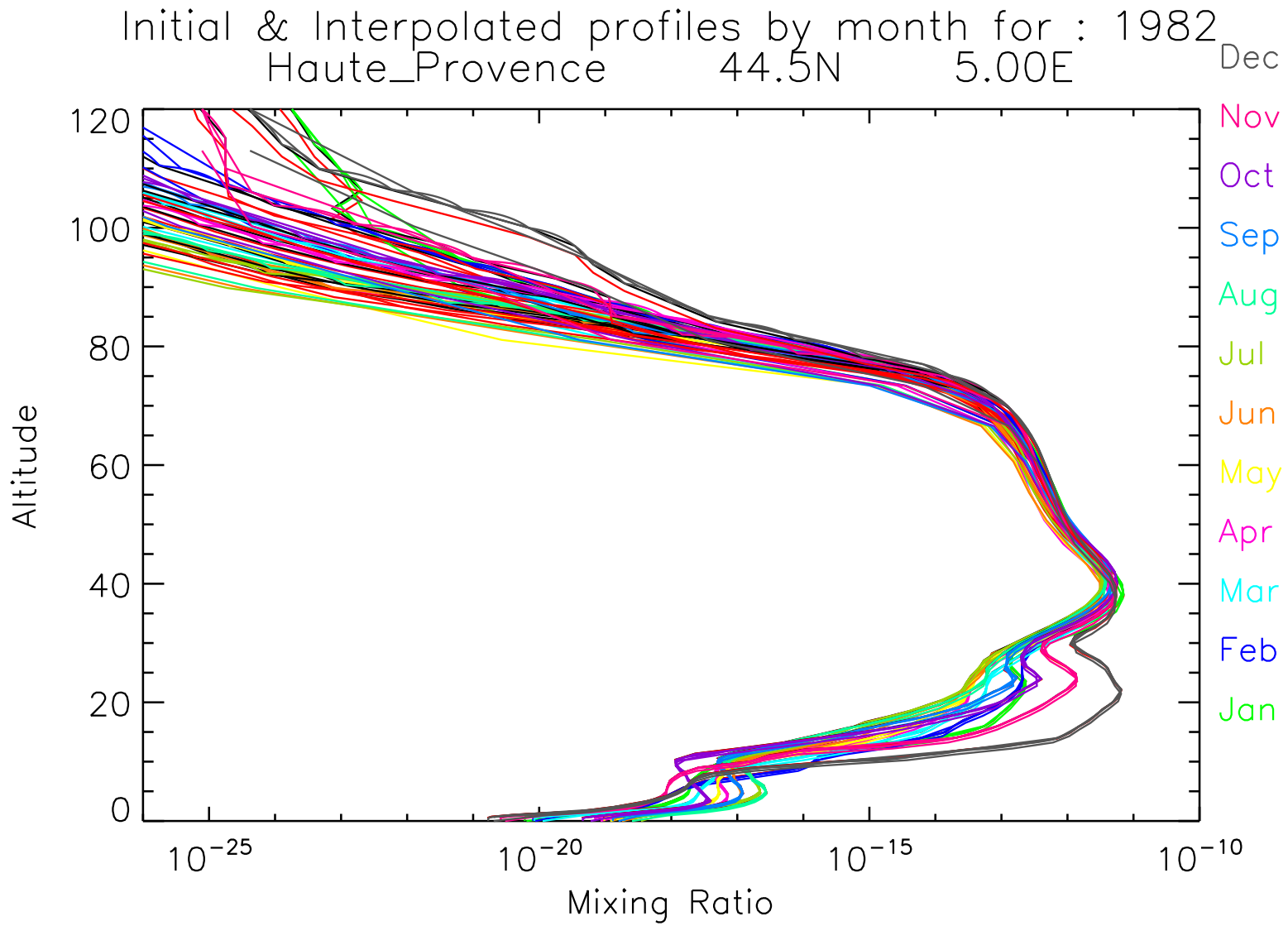
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Haute_Provence 44.5N 5.00E
Dec
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Altitude
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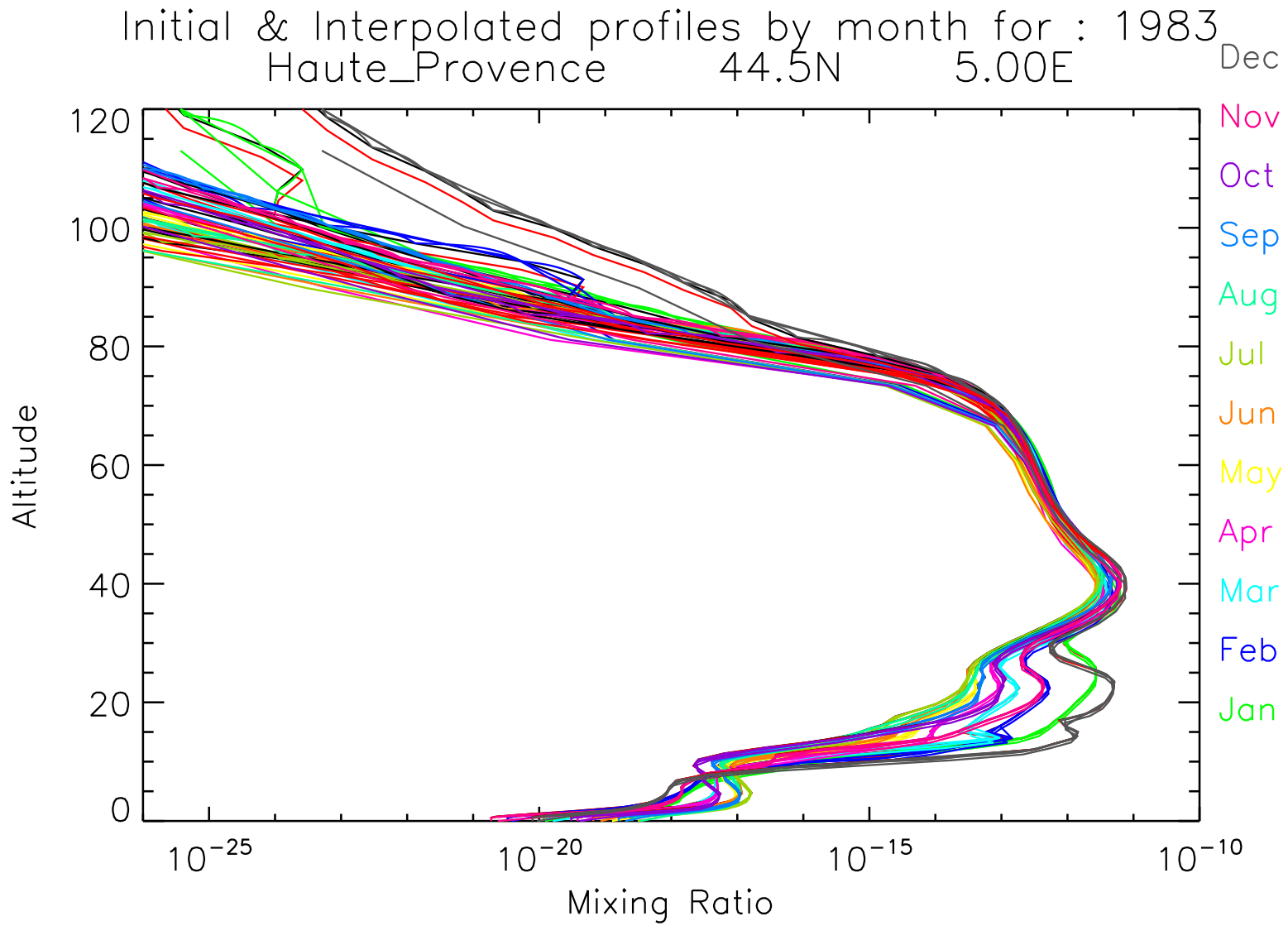
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Haute_Provence 44.5N 5.00E
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Altitude
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$10^{-15}$
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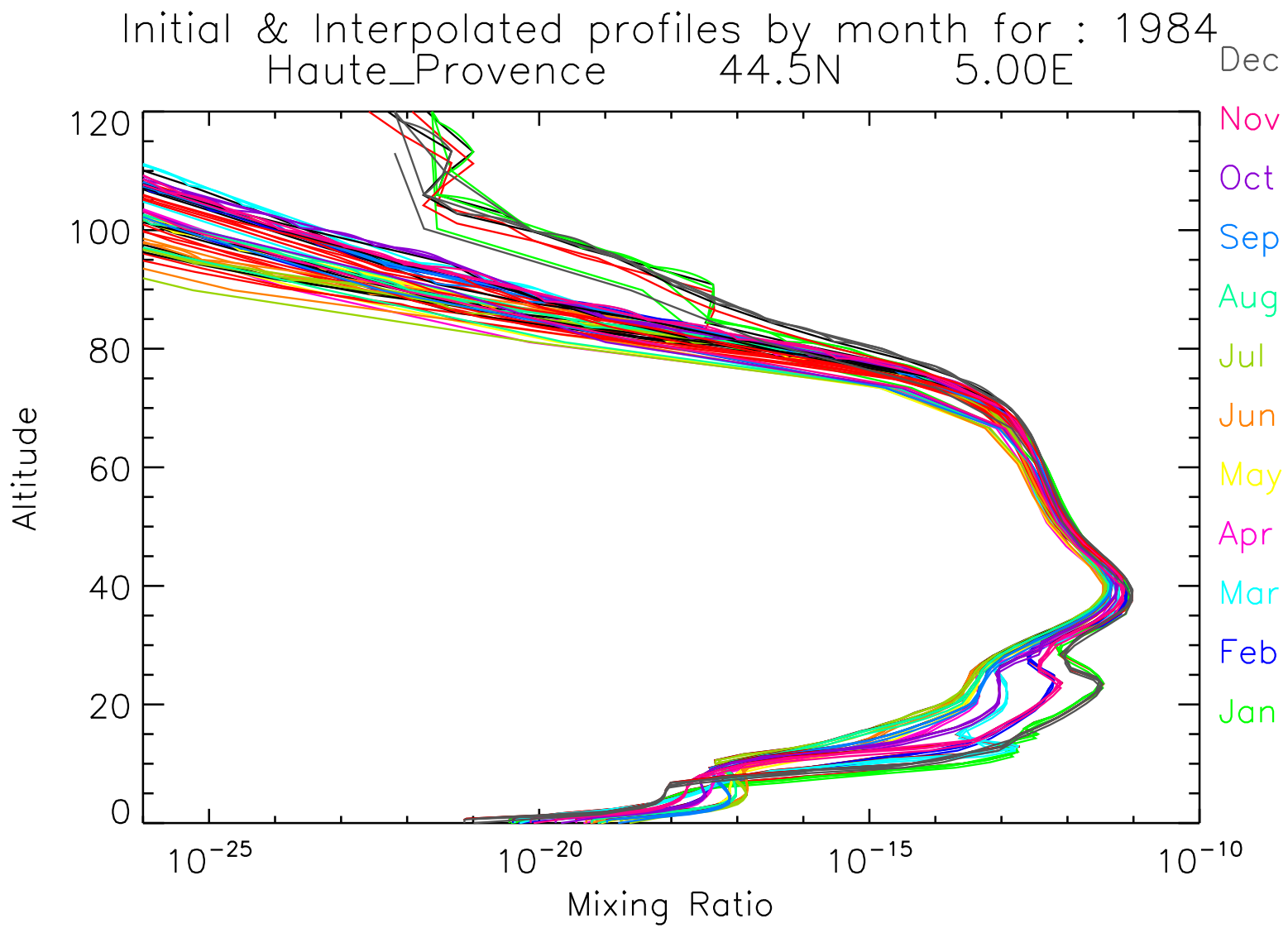
Mixing Ratio


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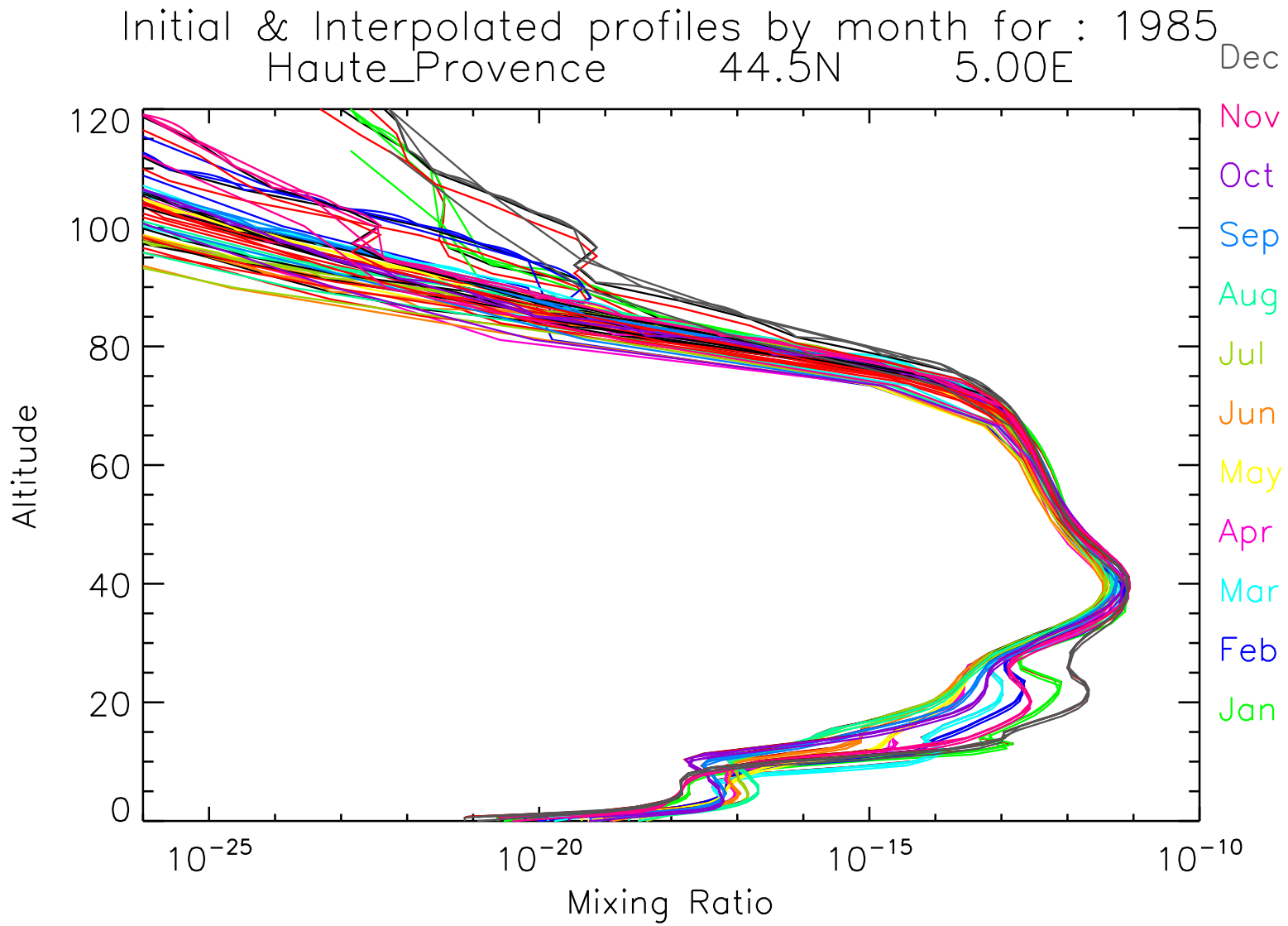
Mixing Ratio


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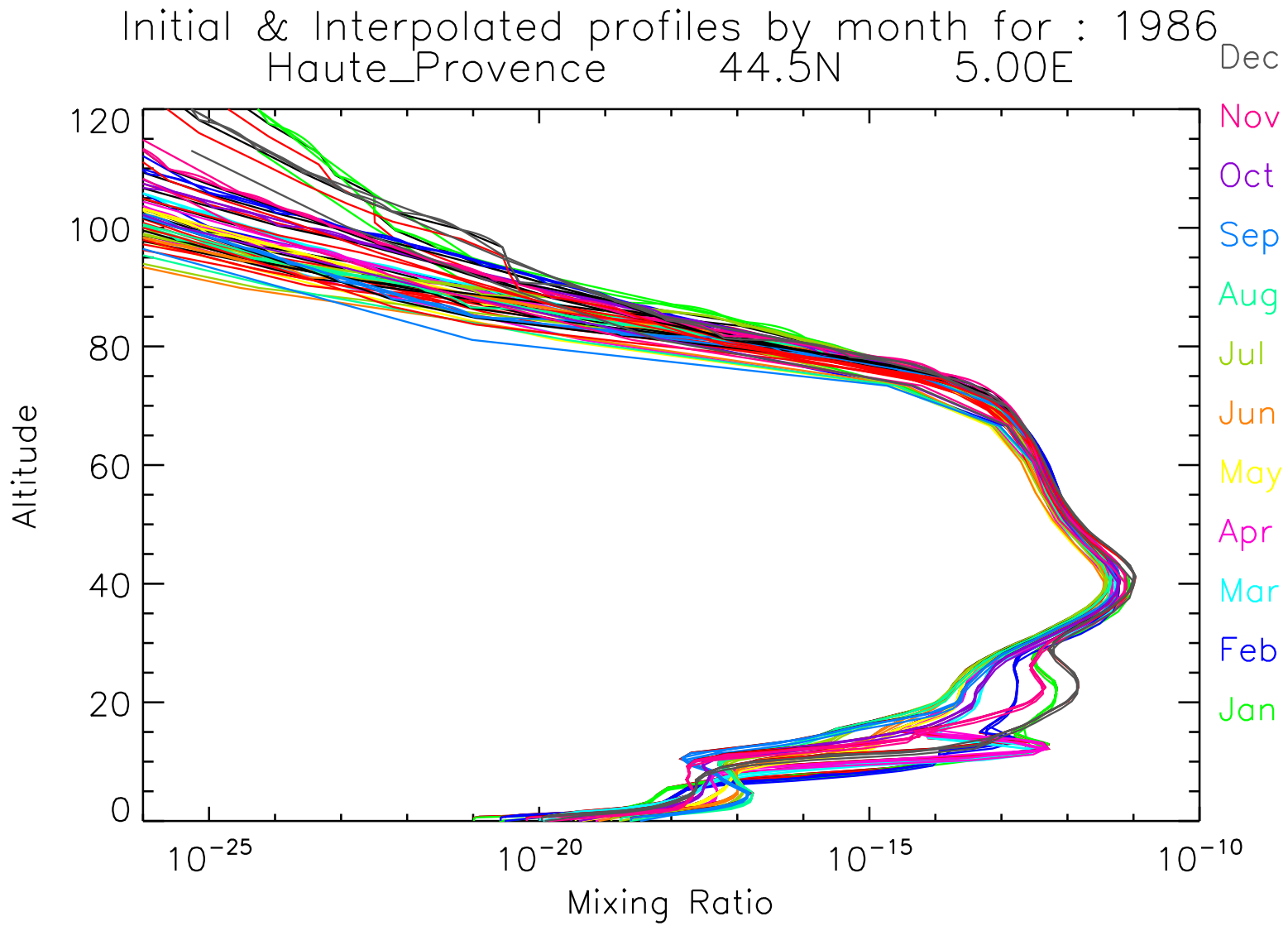
Mixing Ratio


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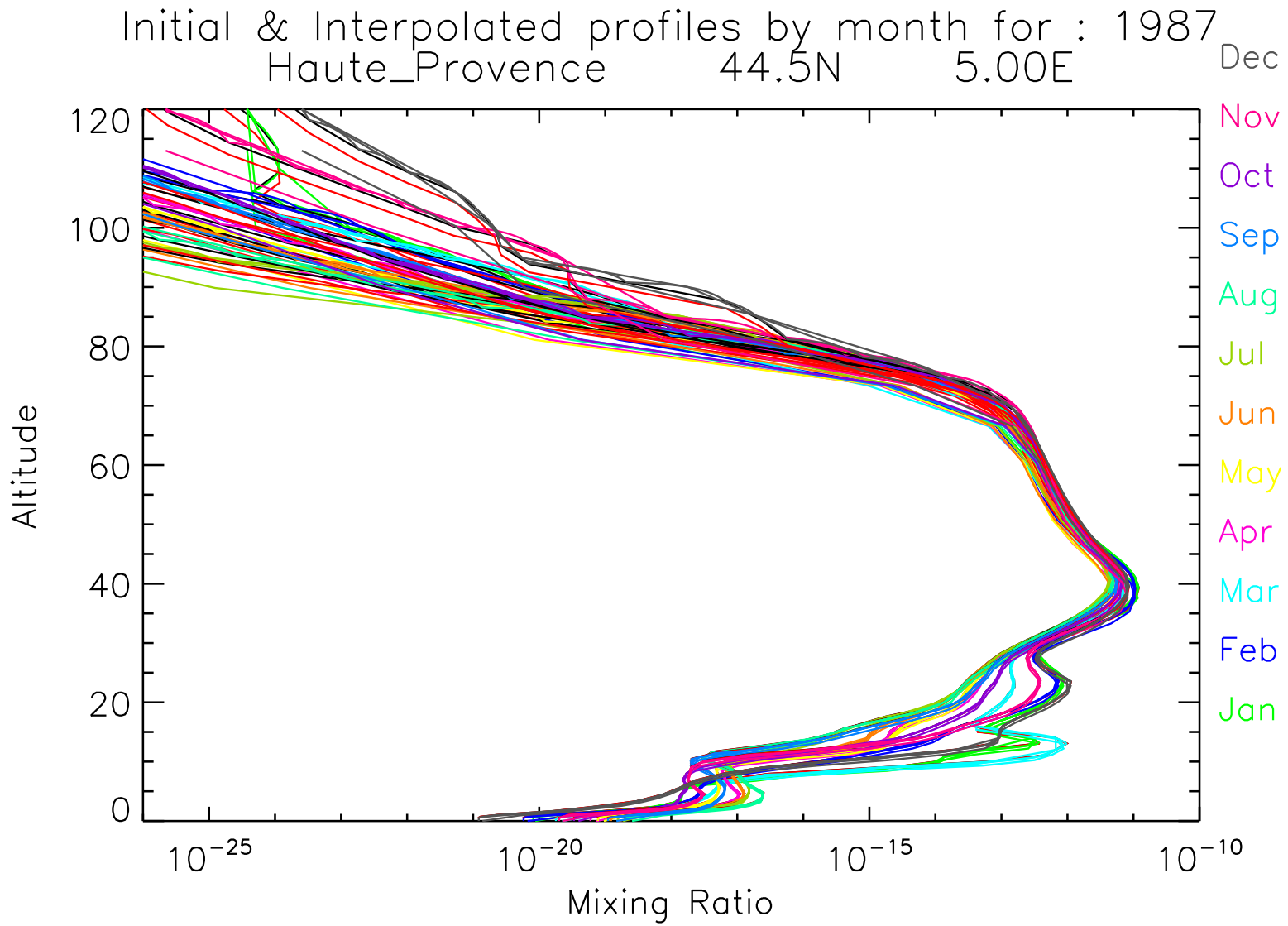
Mixing Ratio


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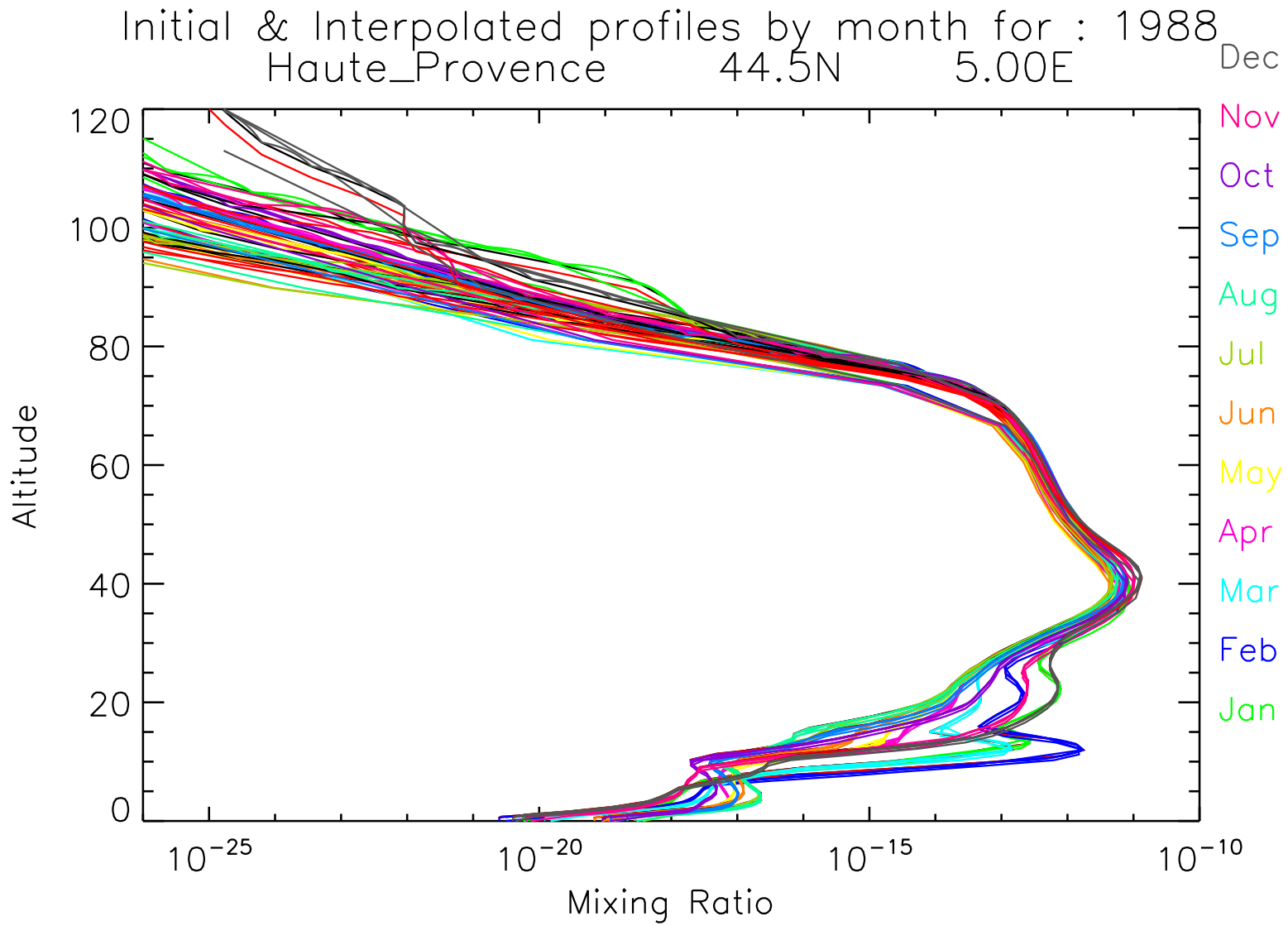
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Haute_Provence 44.5N 5.00E
Dec
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Altitude
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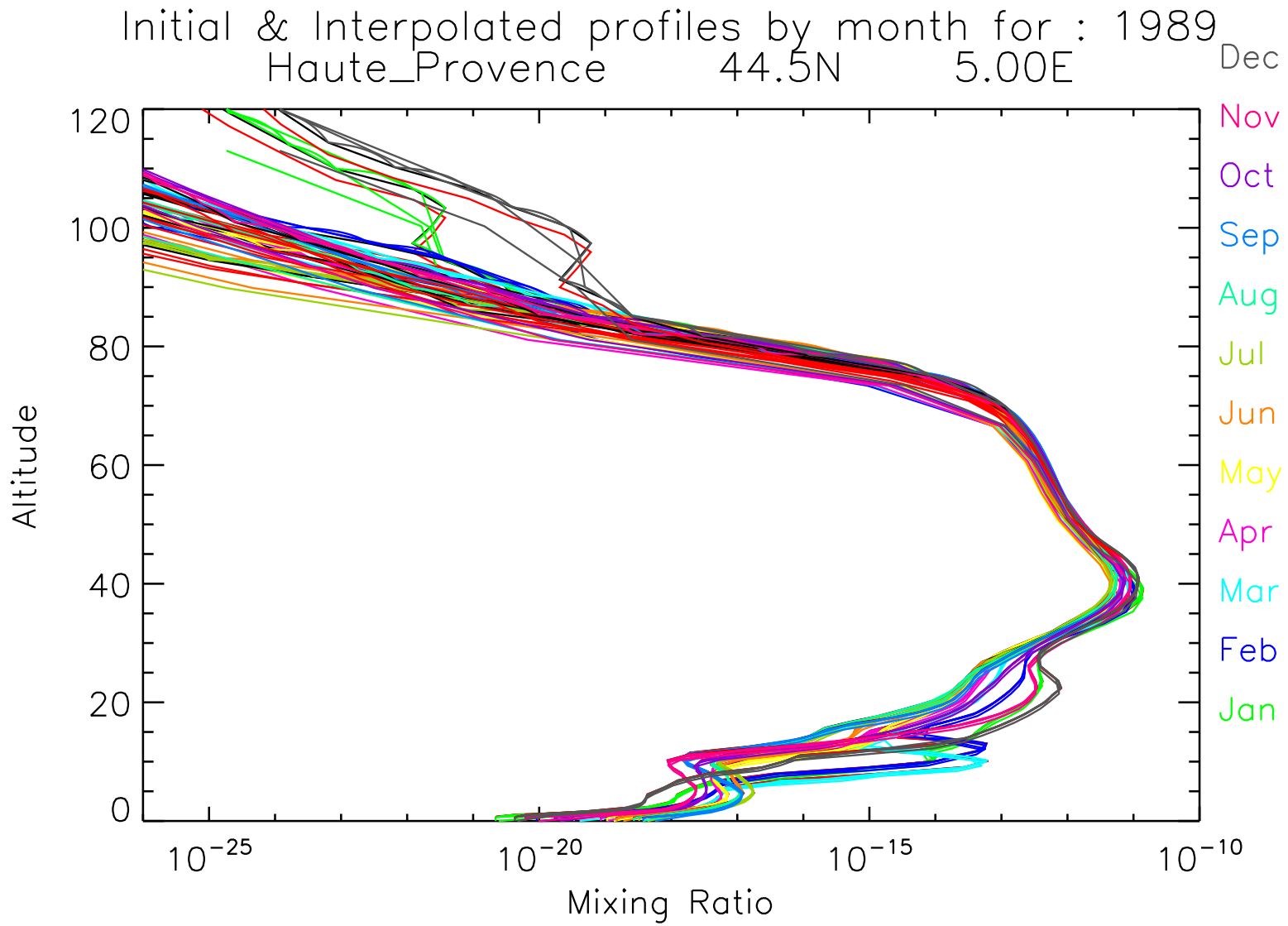
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Haute_Provence 44.5N 5.00E
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Altitude
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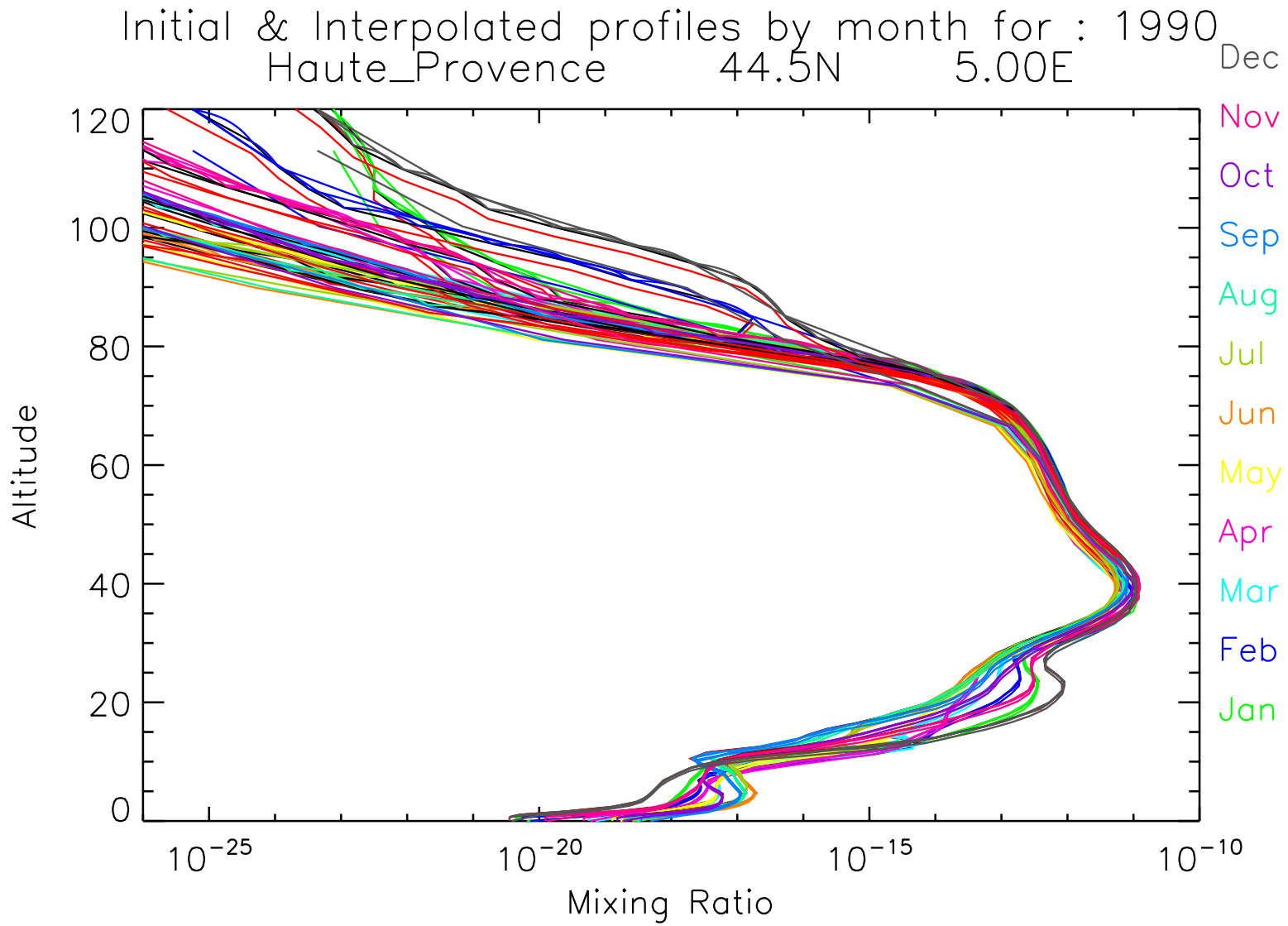
$10^{-10}$
Mixing Ratio


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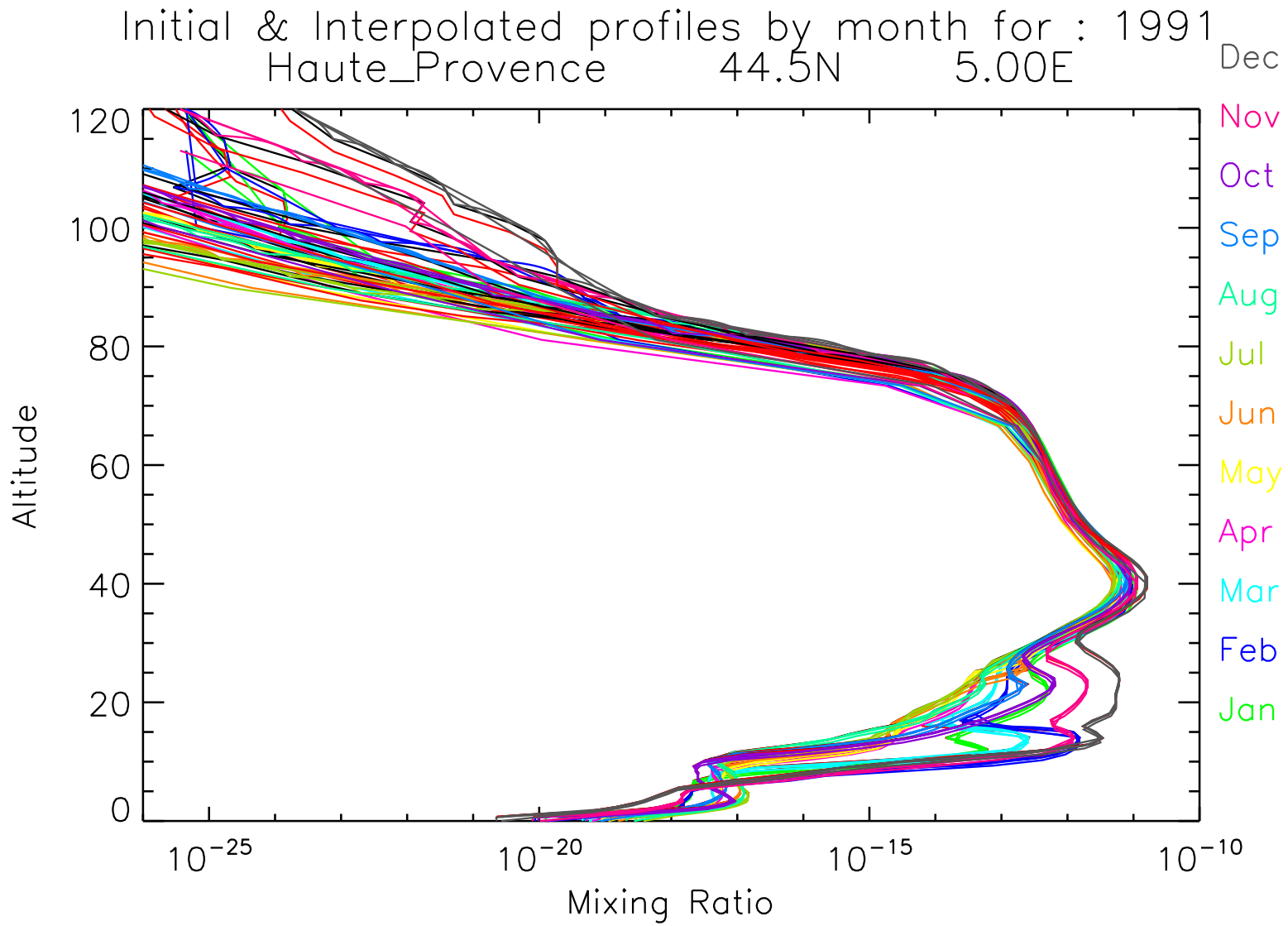
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Haute_Provence 44.5N 5.00E
Dec
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Altitude
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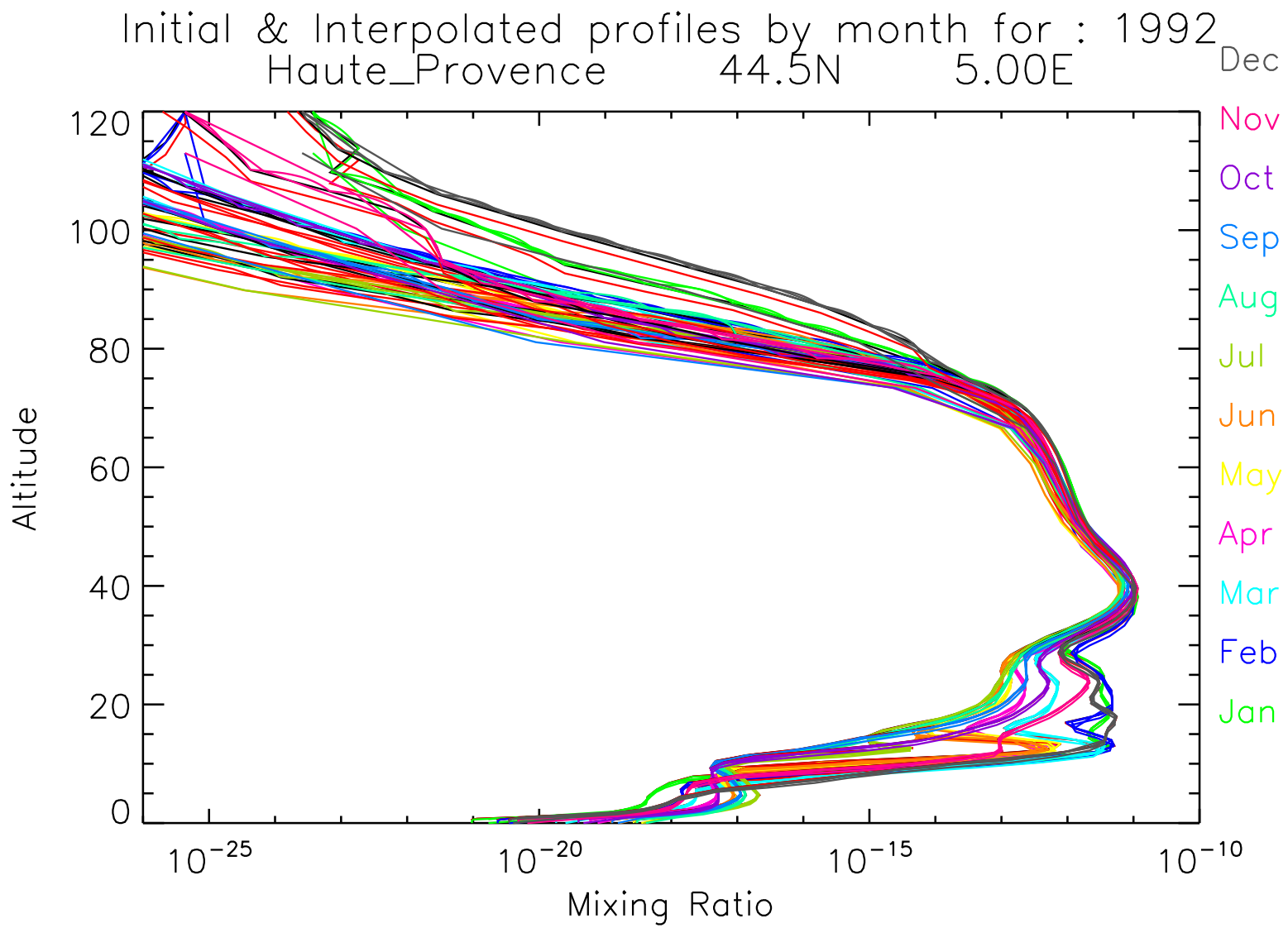
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Haute_Provence 44.5N 5.00E
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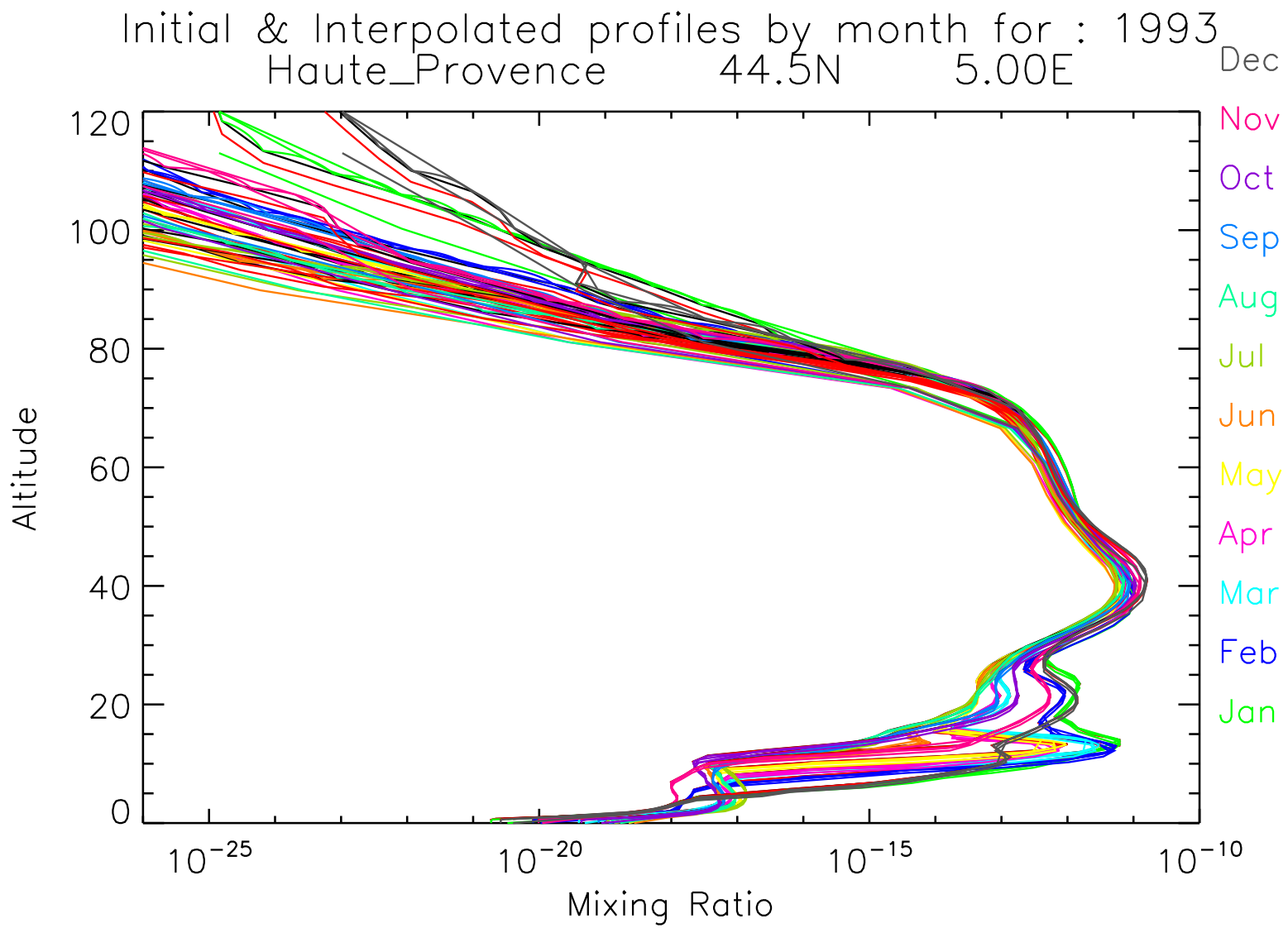
$10^{-10}$
Mixing Ratio


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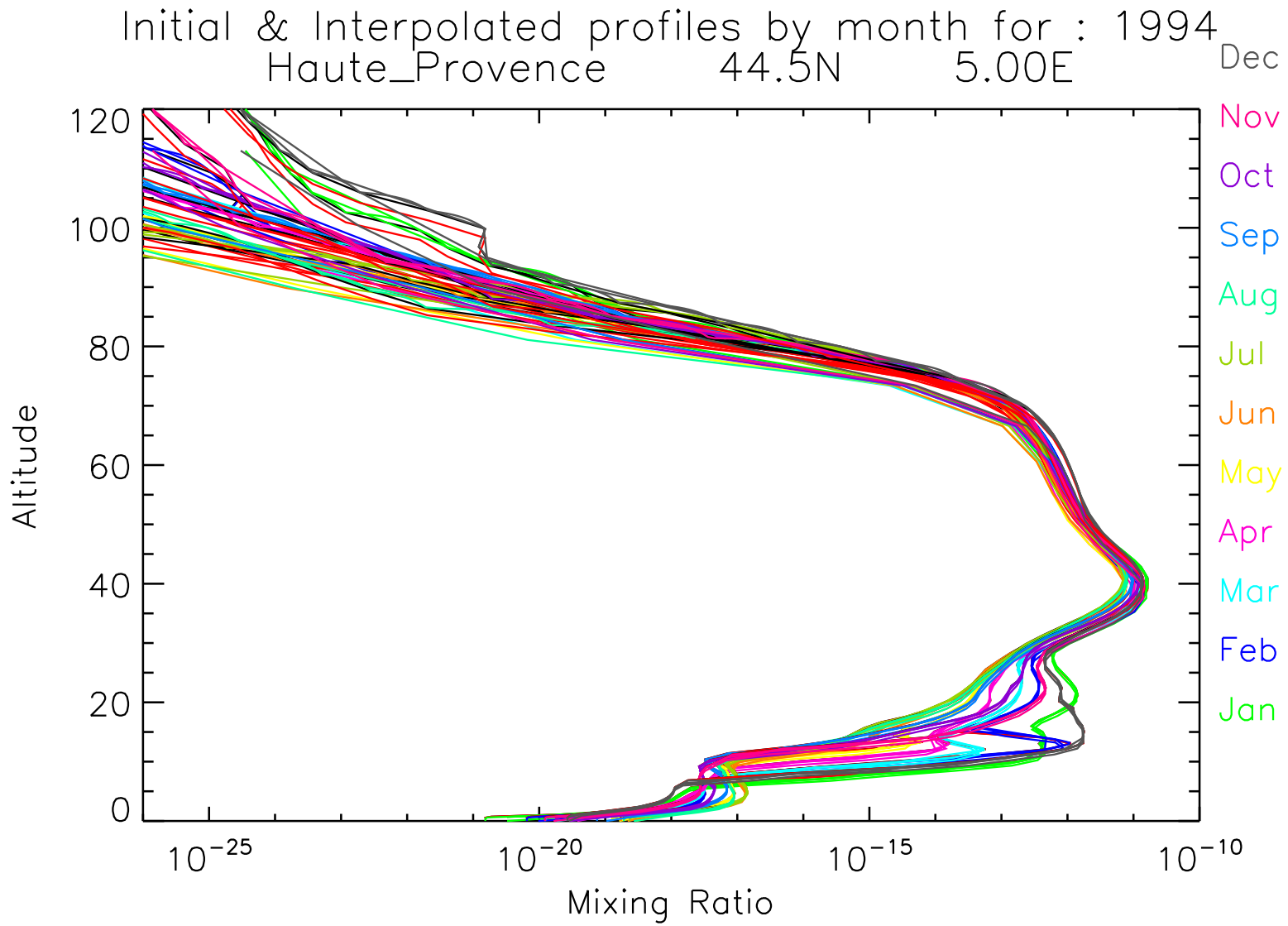
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Haute_Provence 44.5N 5.00E
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Altitude
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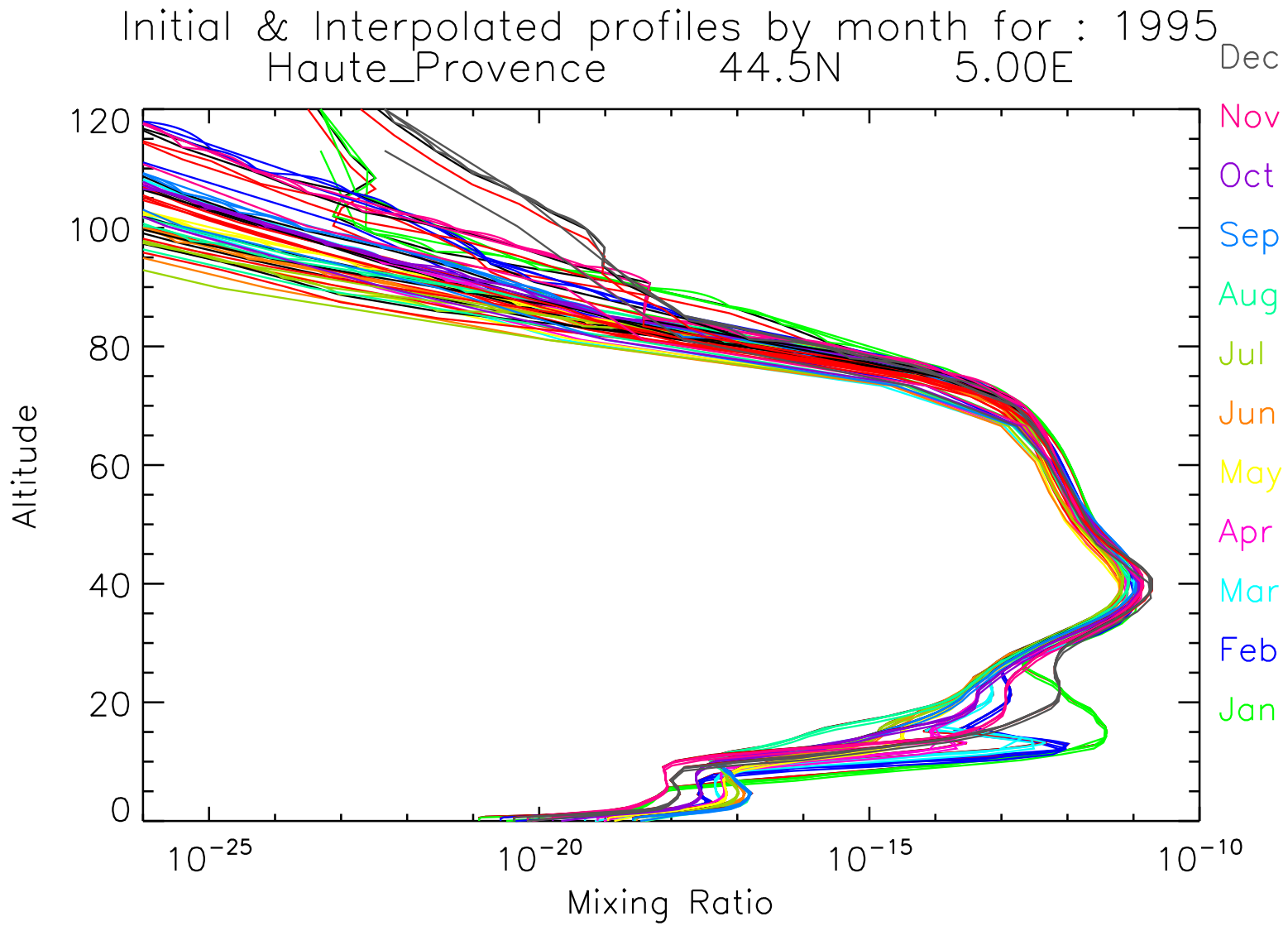
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Haute_Provence 44.5N 5.00E
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$10^{-15}$
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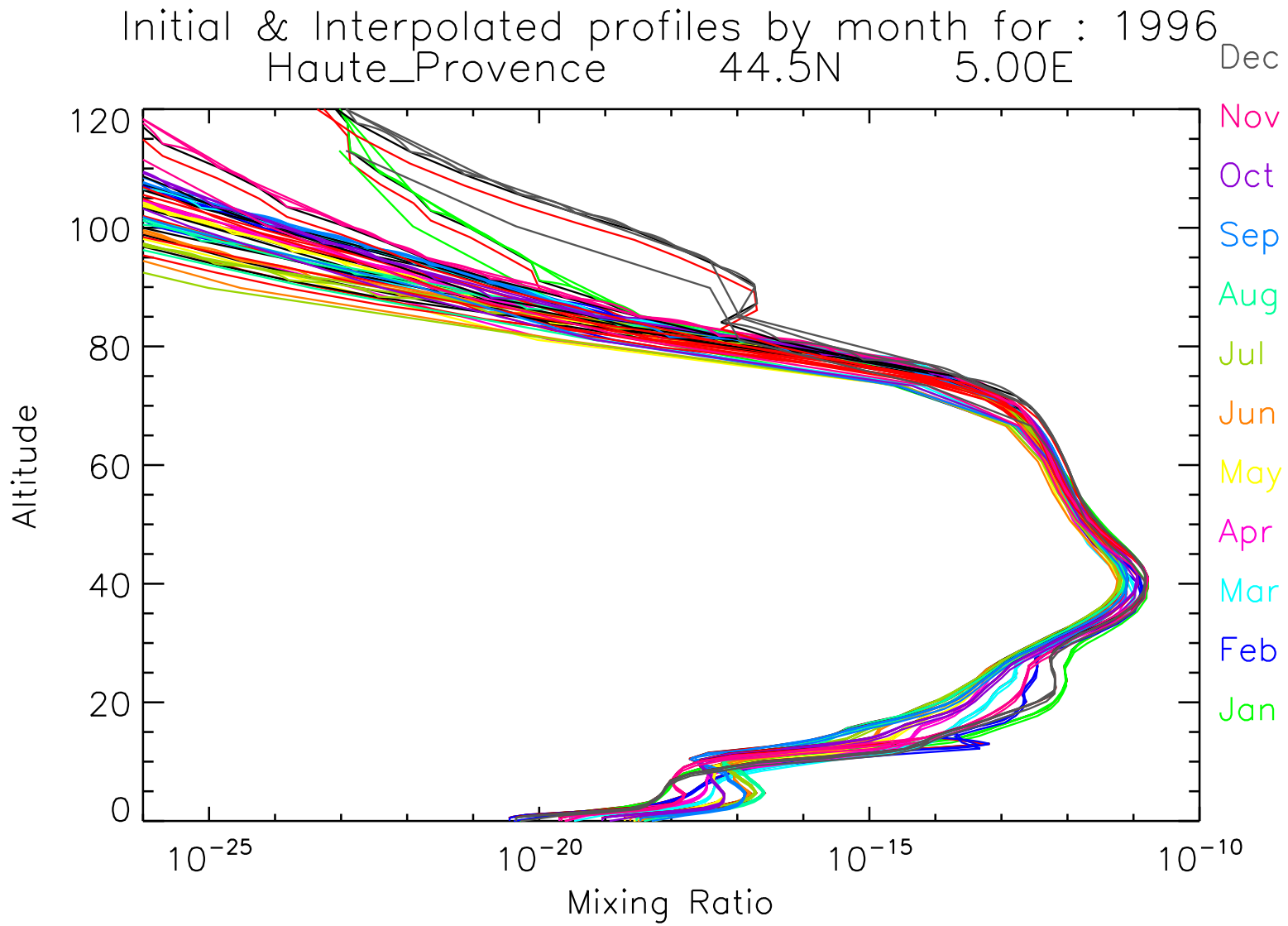
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Haute_Provence 44.5N 5.00E
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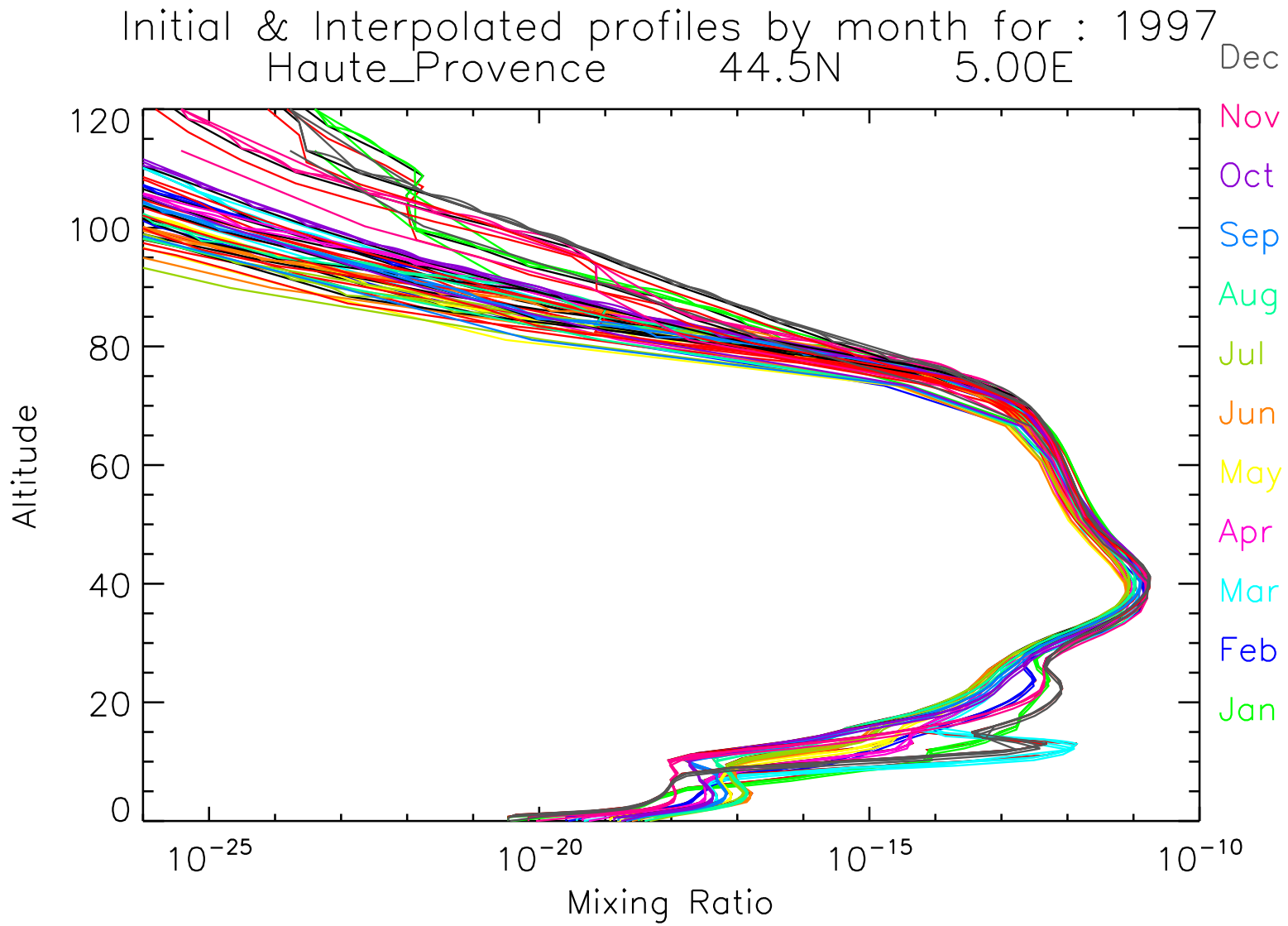
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Haute_Provence 44.5N 5.00E
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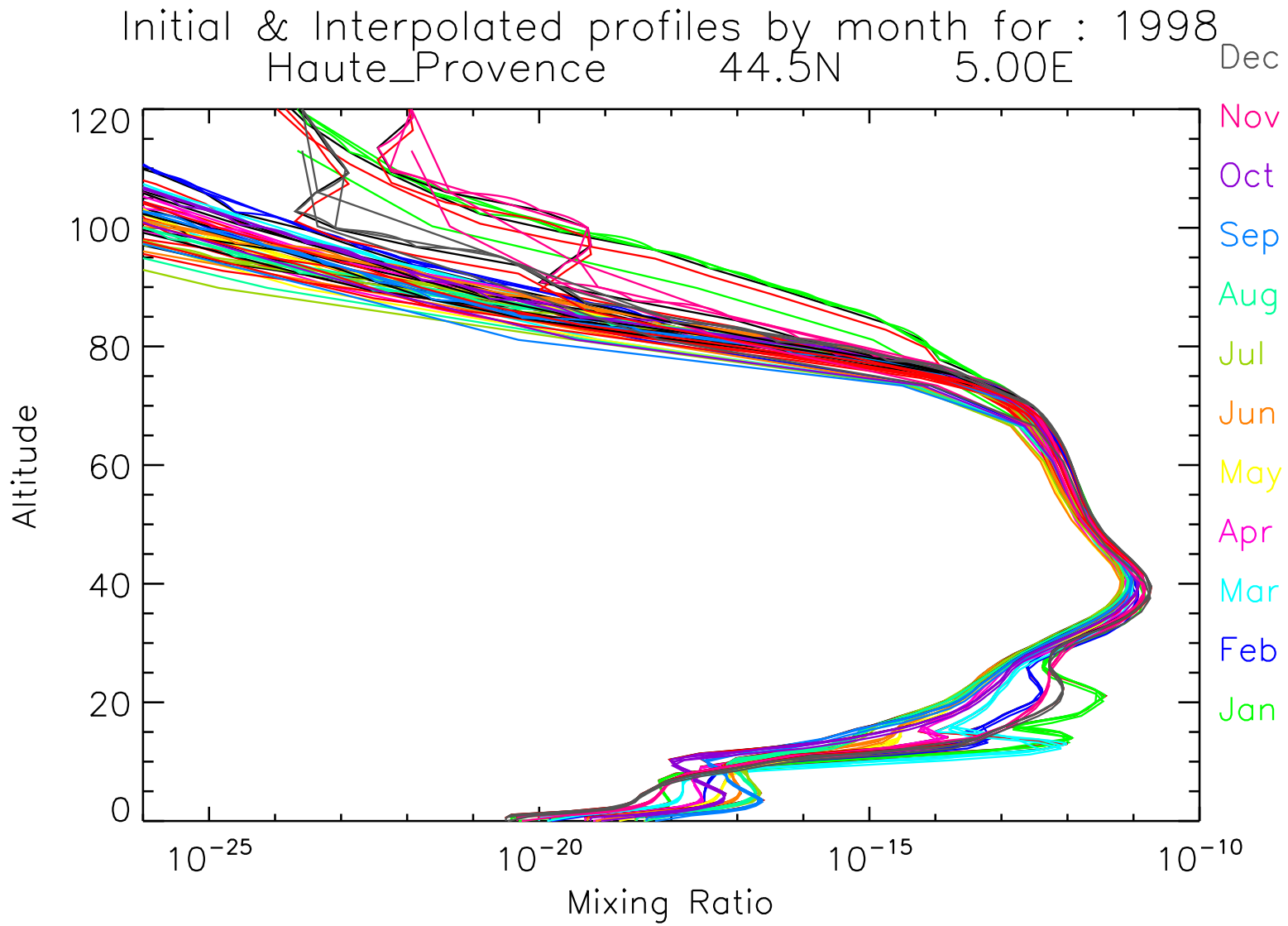
$10^{-15}$
$10^{-10}$
Mixing Ratio


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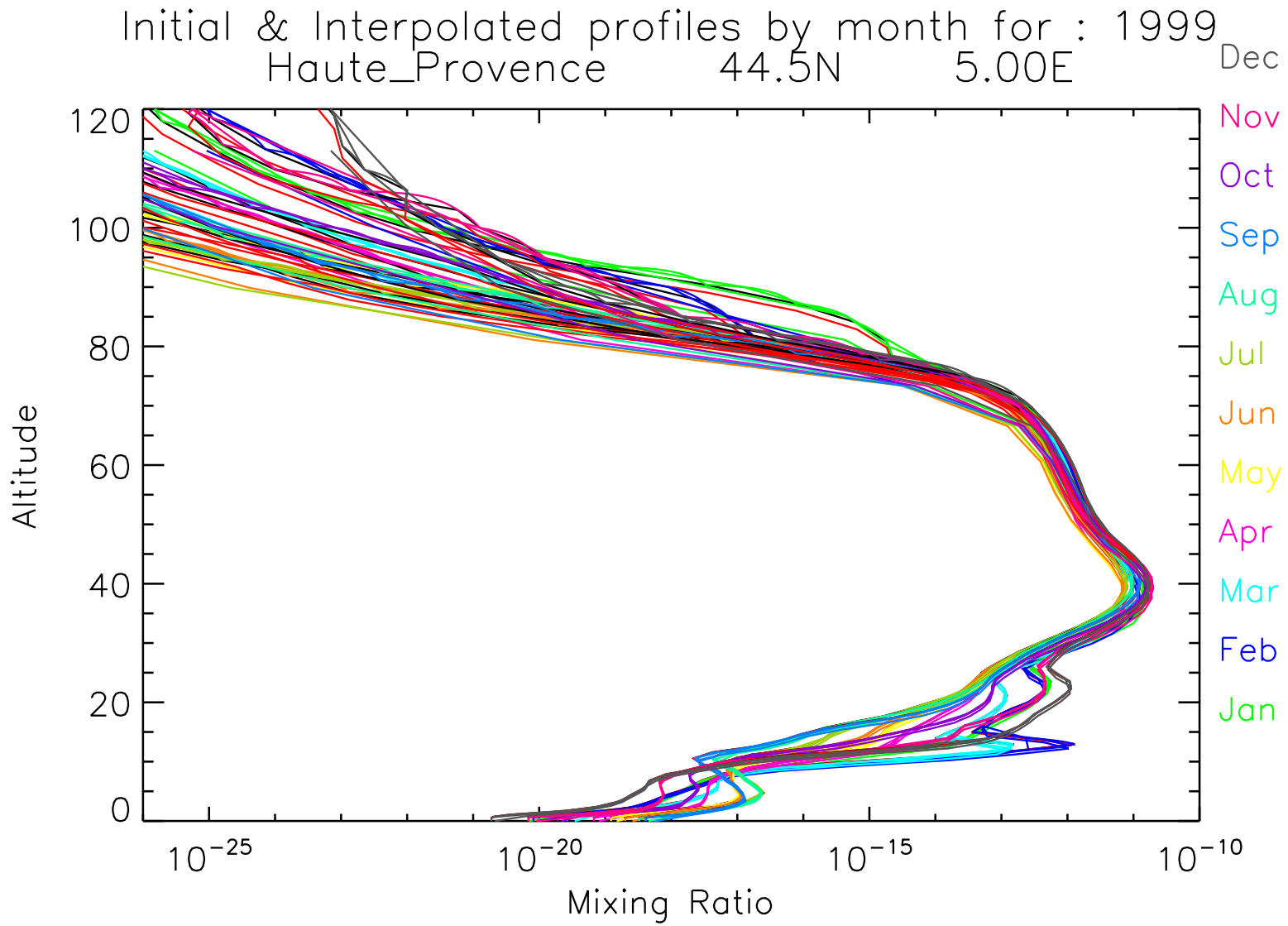
Mixing Ratio


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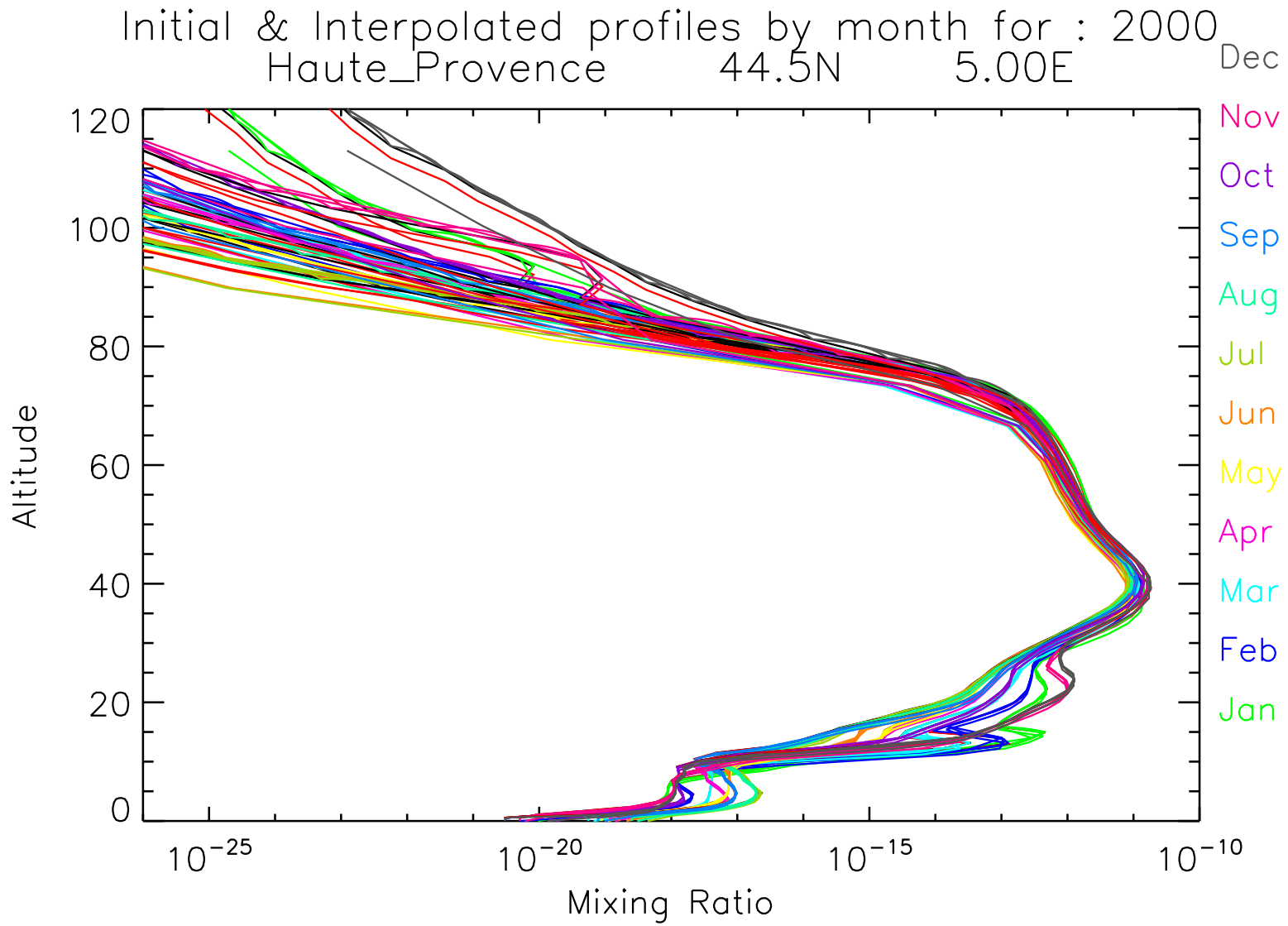
Mixing Ratio


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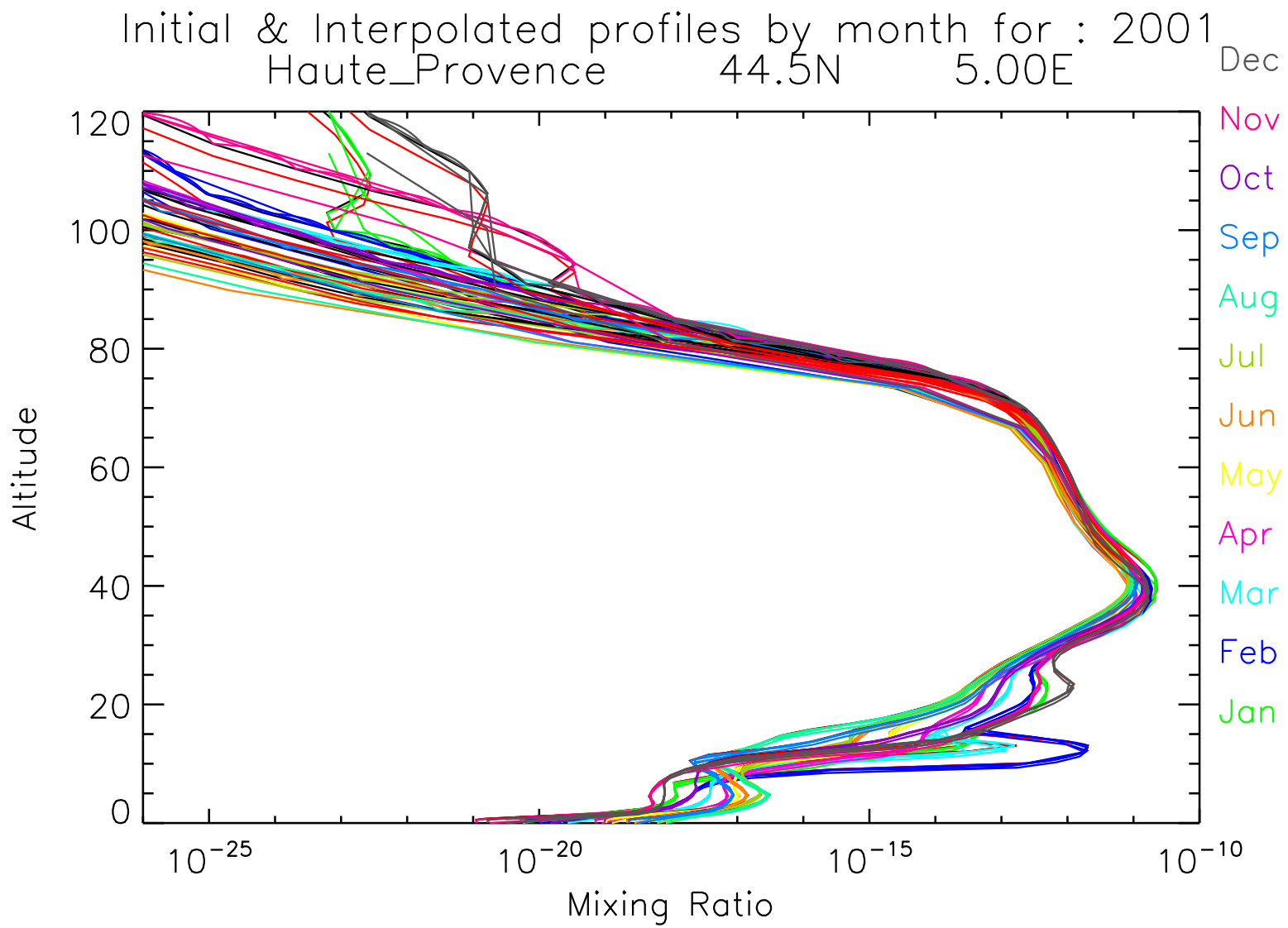
Mixing Ratio


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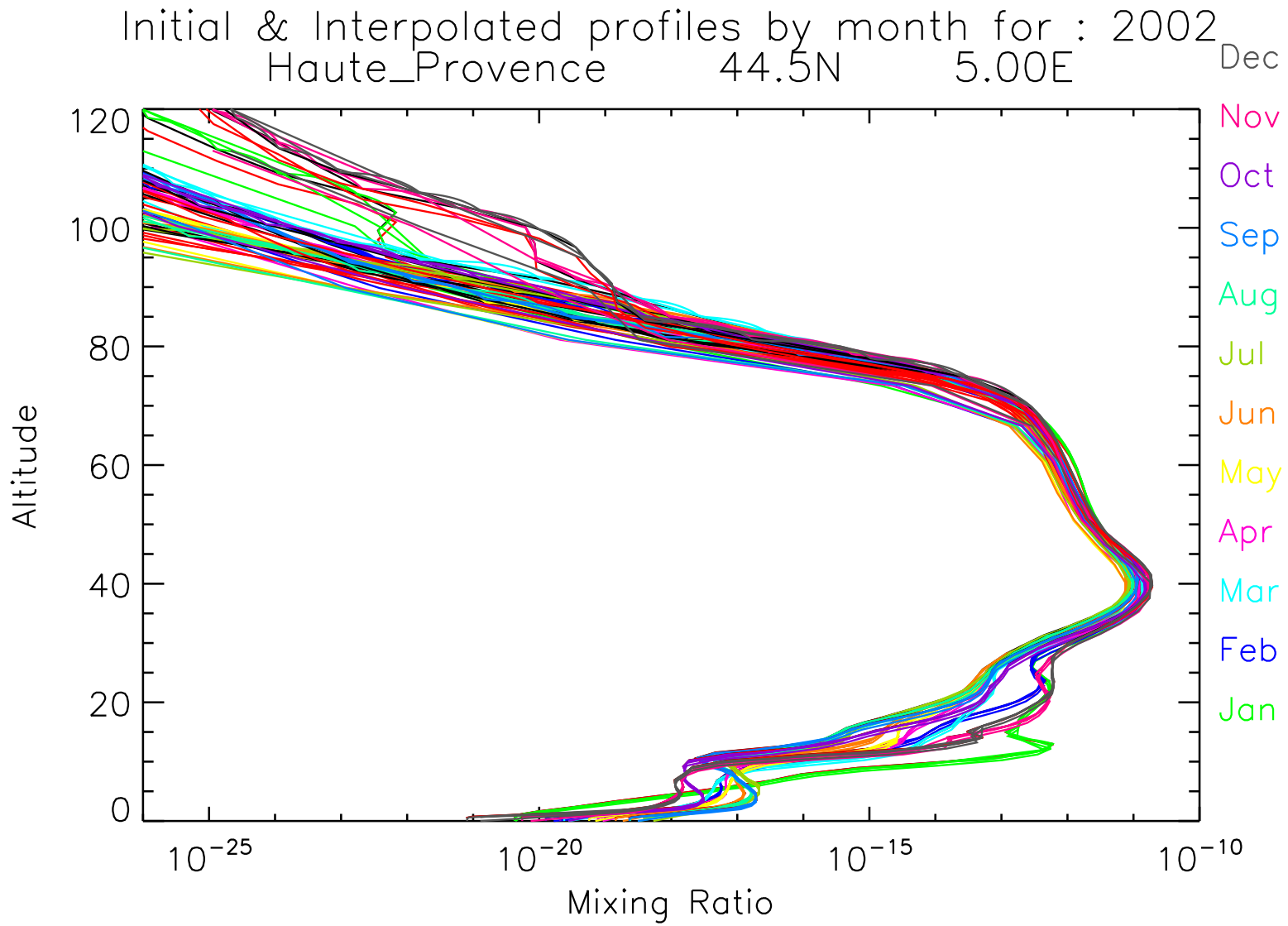
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Haute_Provence 44.5N 5.00E
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Altitude
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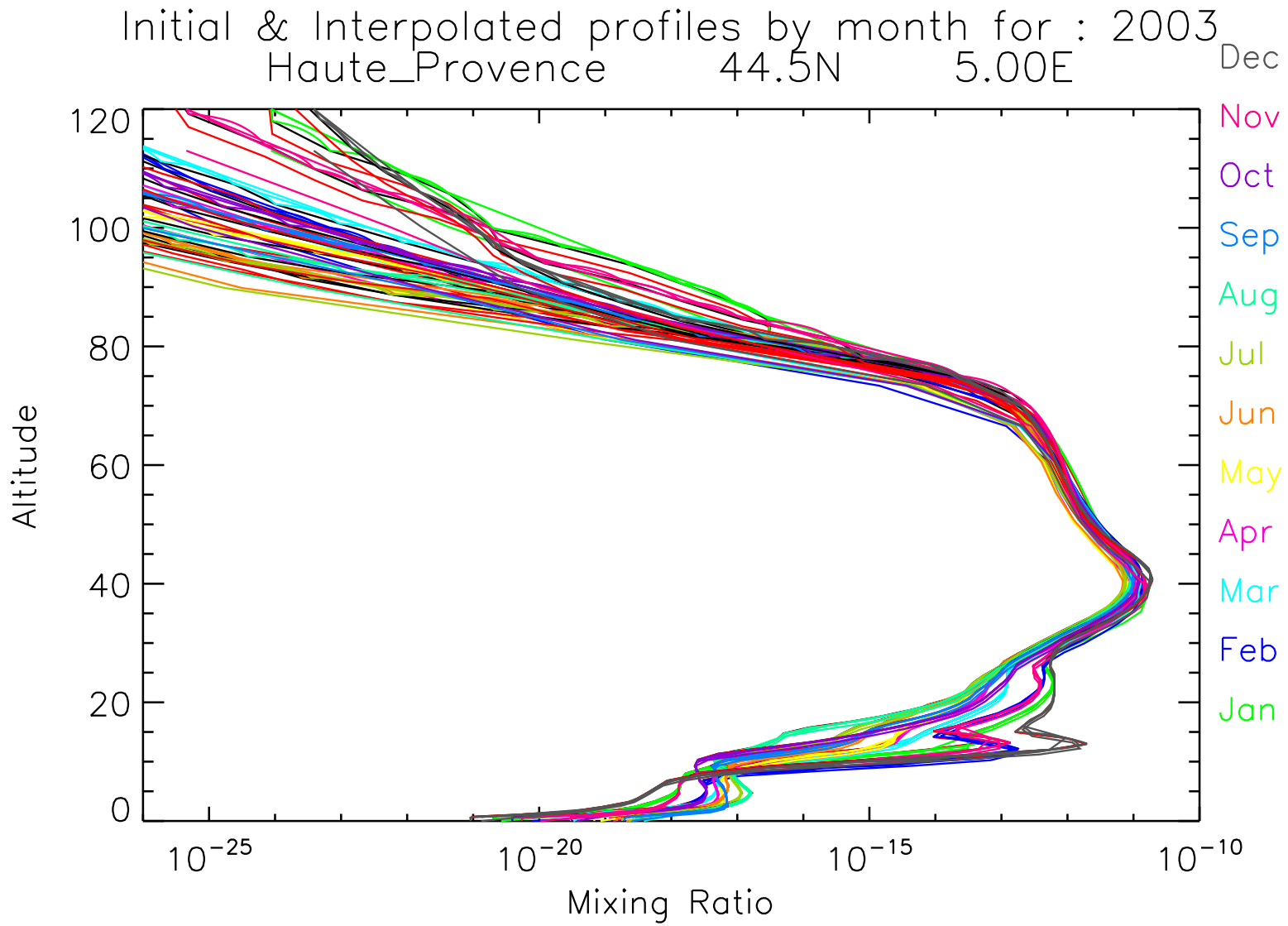
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Haute_Provence 44.5N 5.00E
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Altitude
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$10^{-20}$
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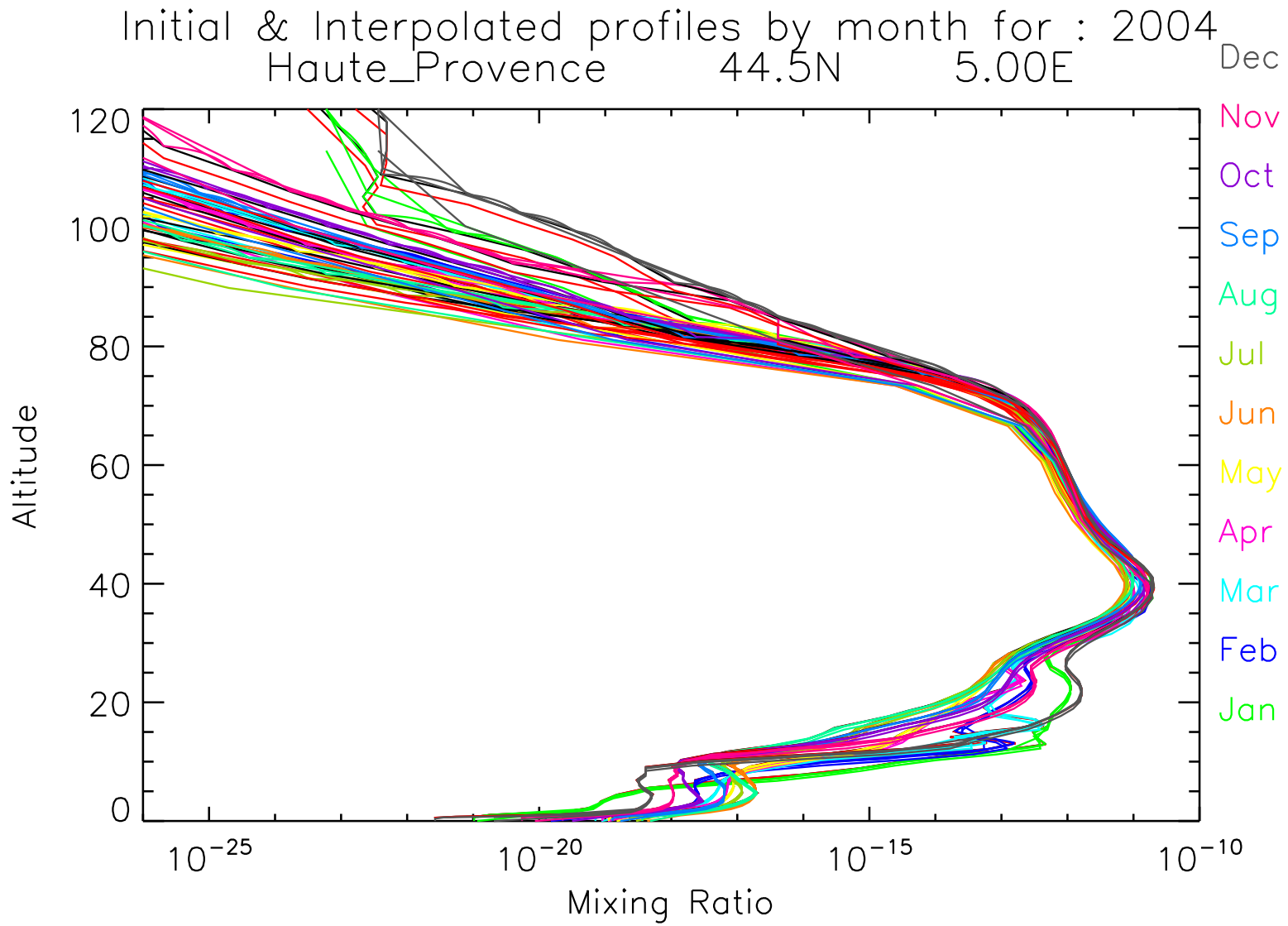
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Haute_Provence 44.5N 5.00E
Dec
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Altitude
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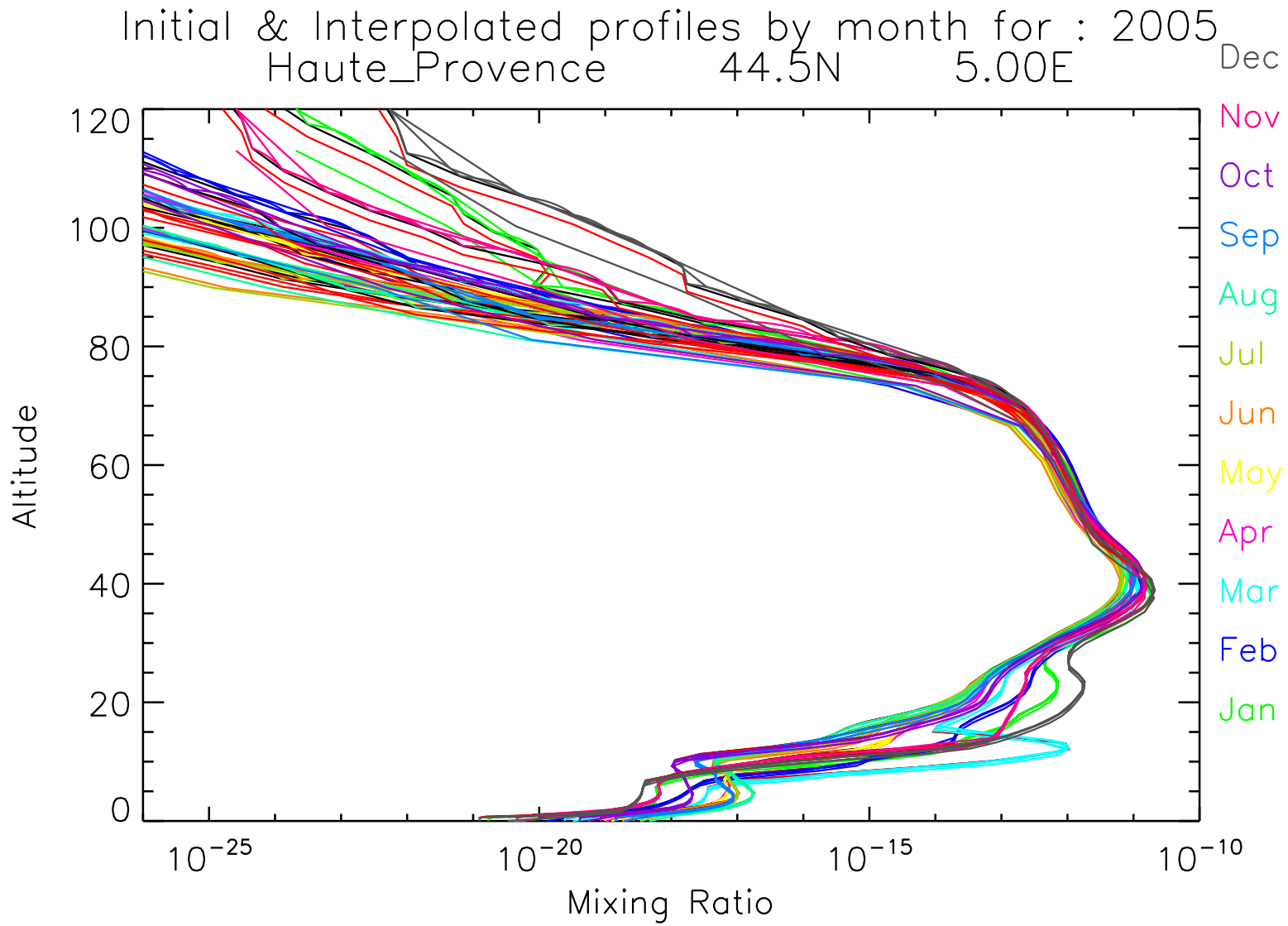
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Haute_Provence 44.5N 5.00E
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Altitude
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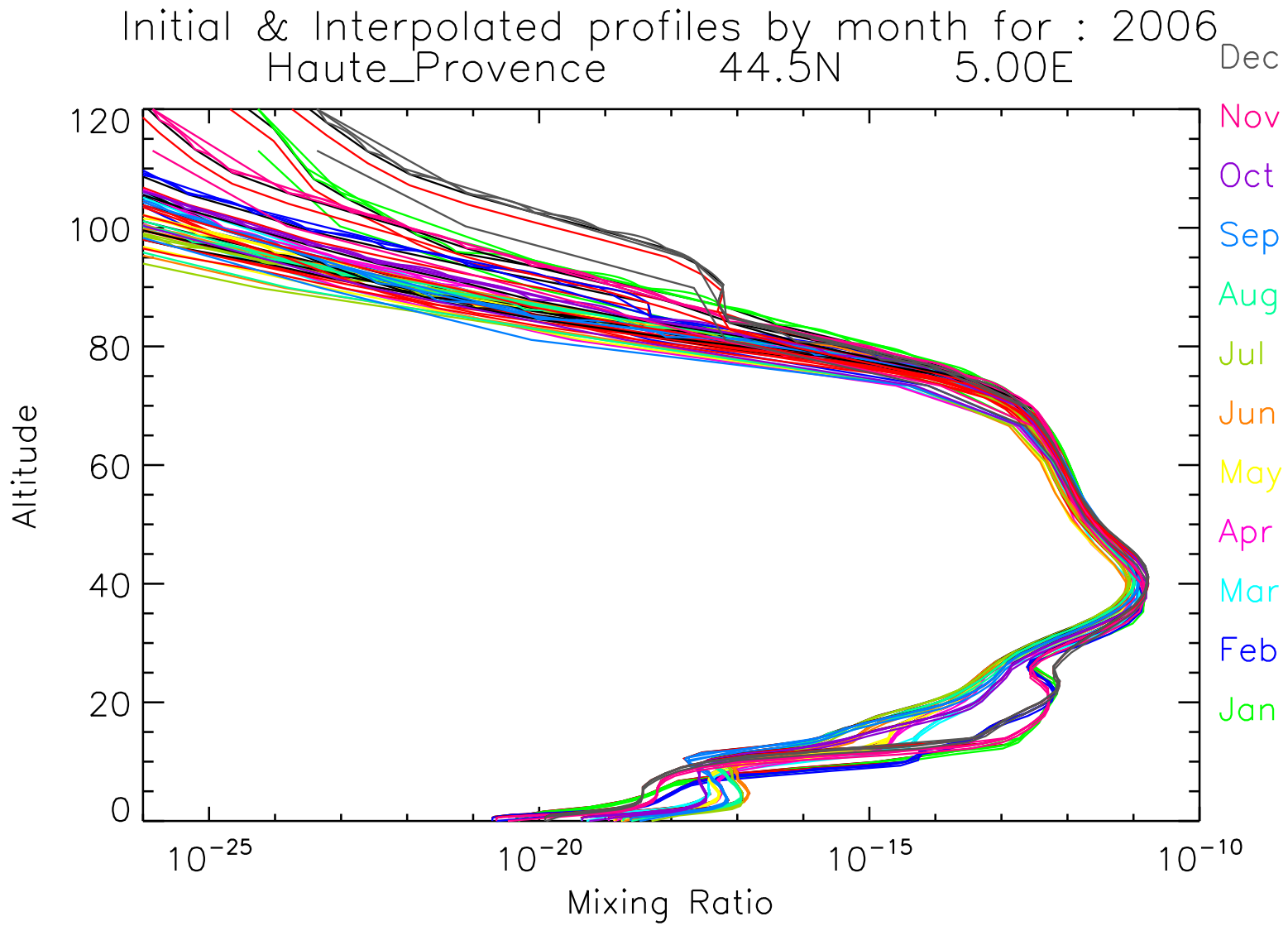
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Haute_Provence 44.5N 5.00E
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Altitude
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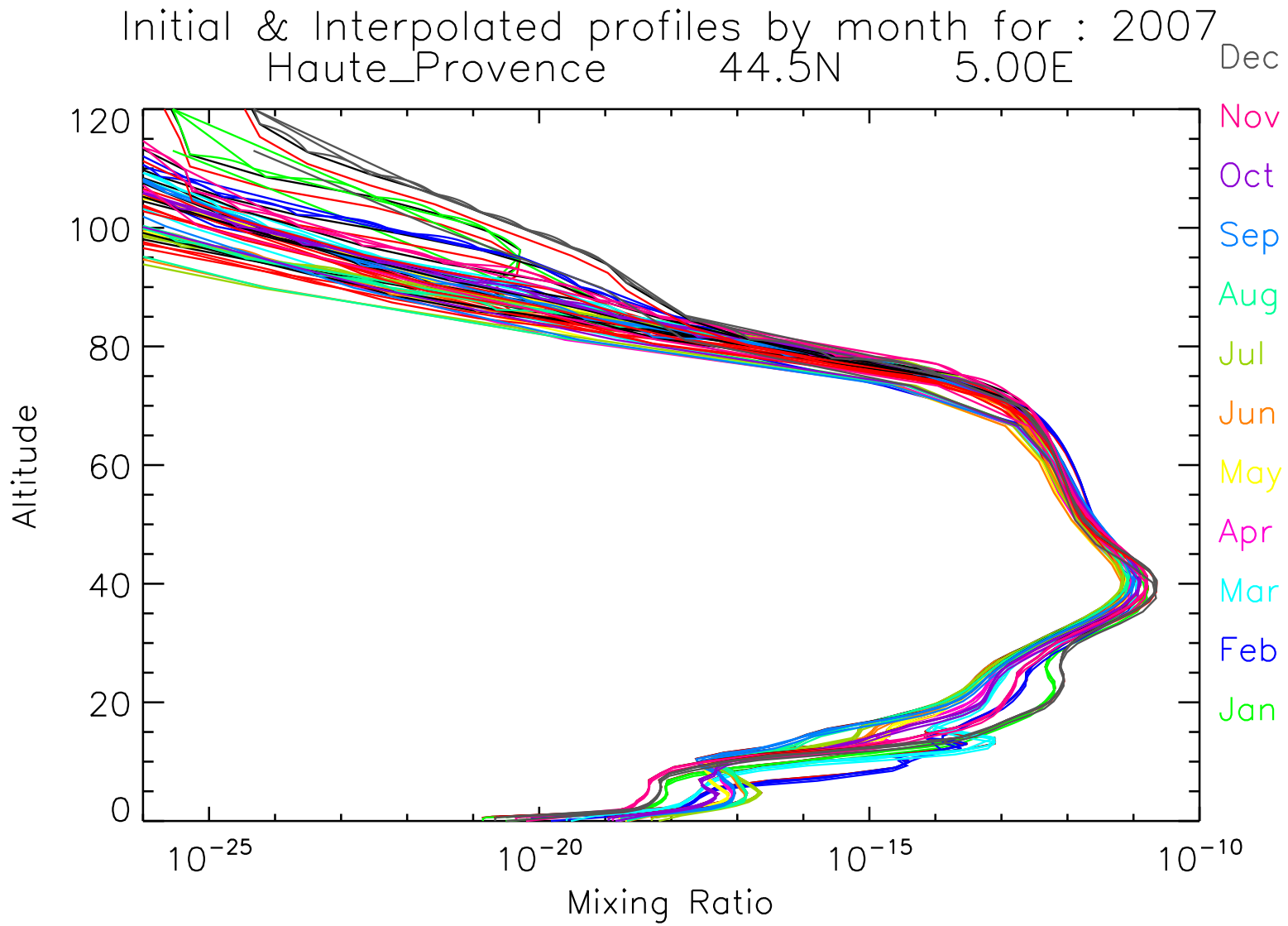
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Haute_Provence 44.5N 5.00E
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Altitude
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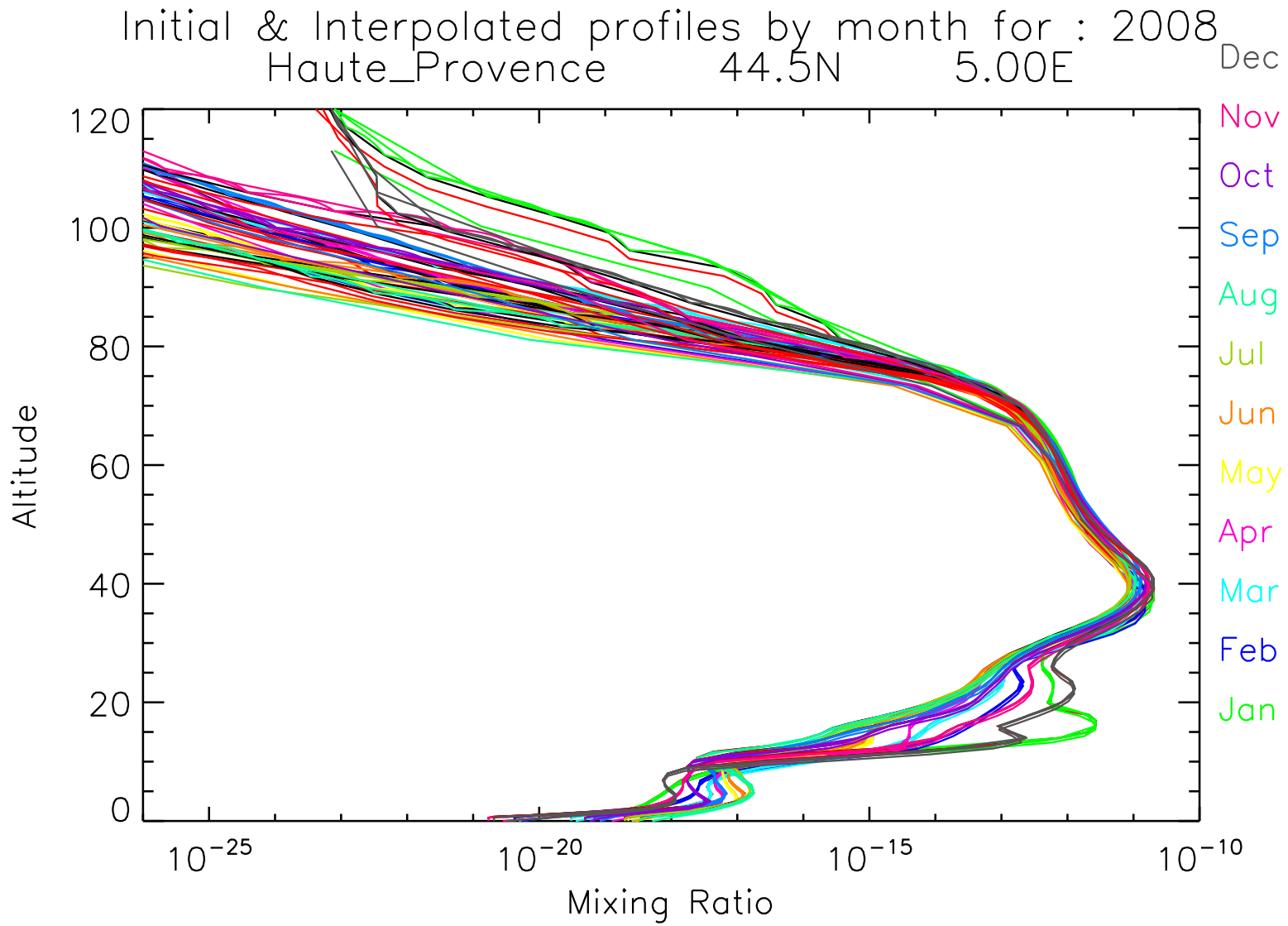
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Haute_Provence 44.5N 5.00E
Dec
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Altitude
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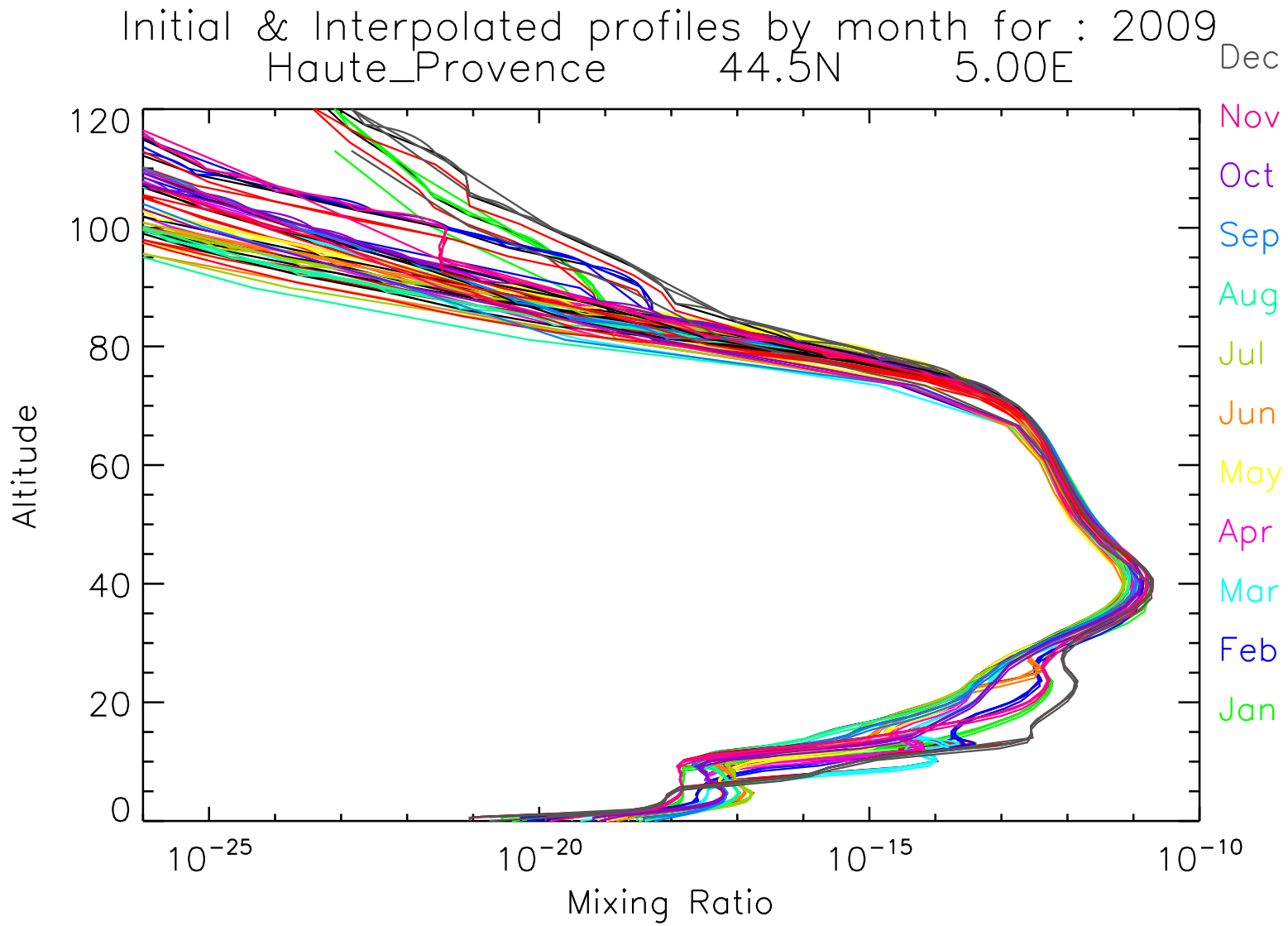
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Haute_Provence 44.5N 5.00E
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Altitude
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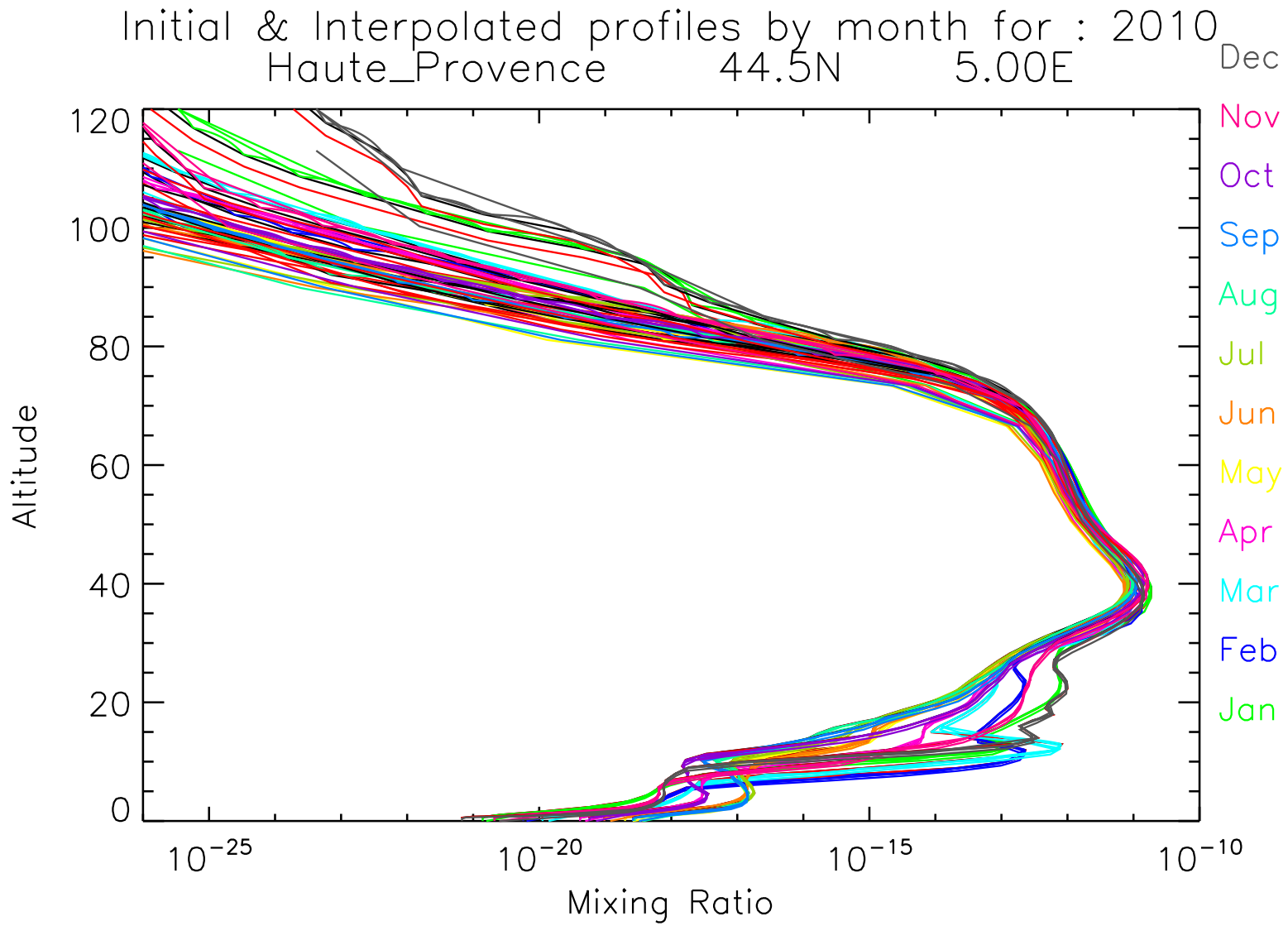
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Haute_Provence 44.5N 5.00E
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Altitude
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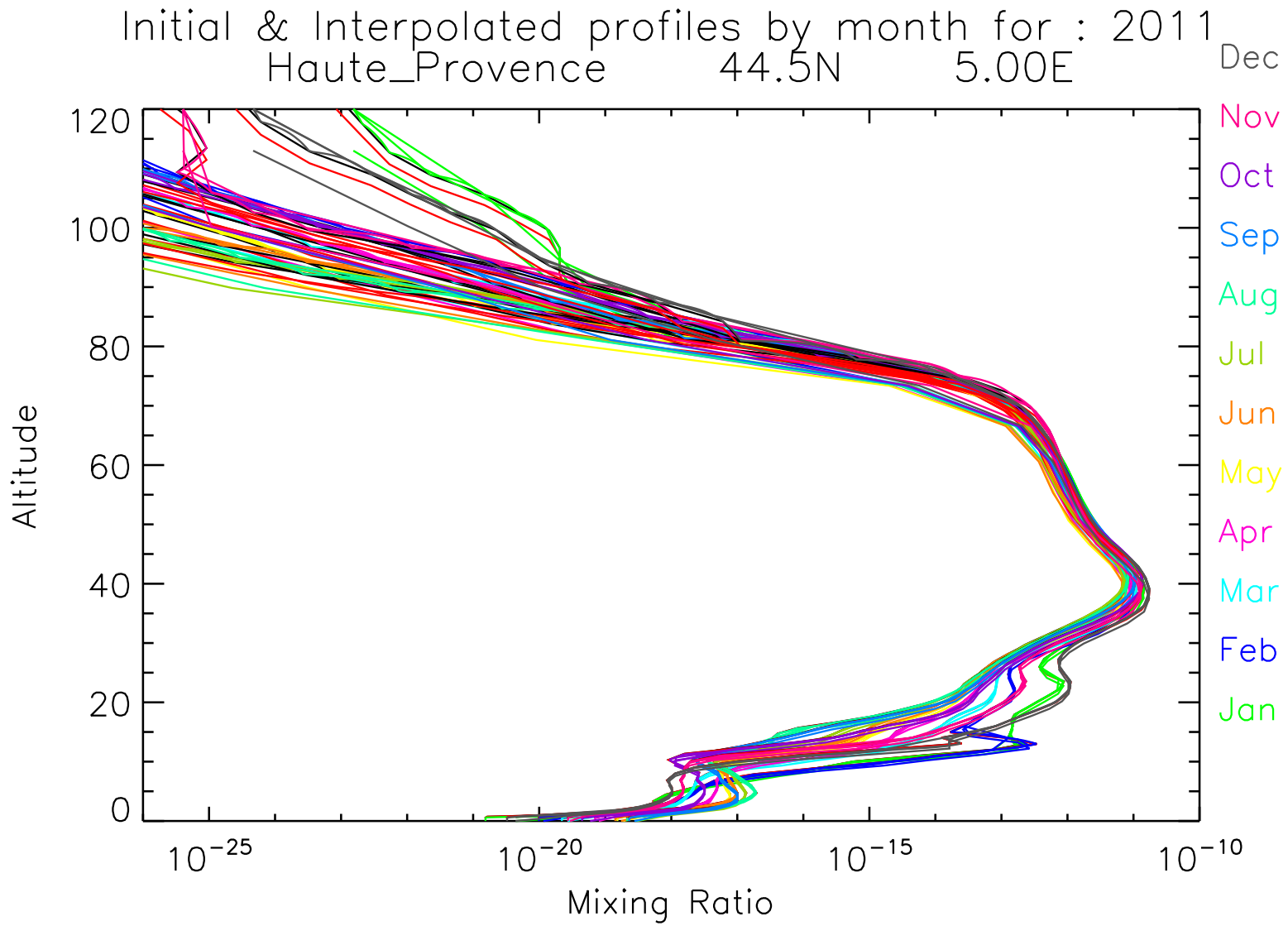
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Haute_Provence 44.5N 5.00E
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120
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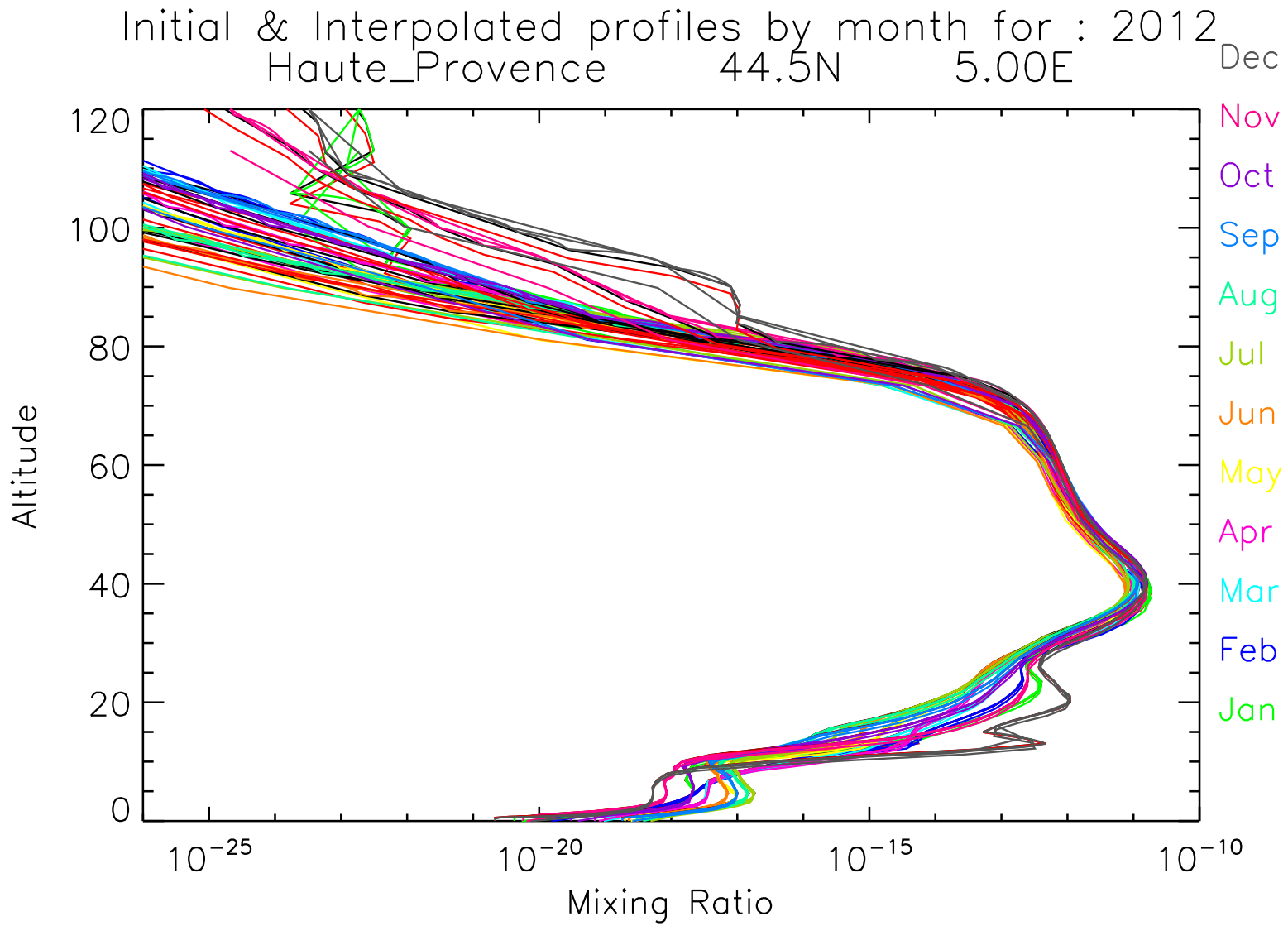
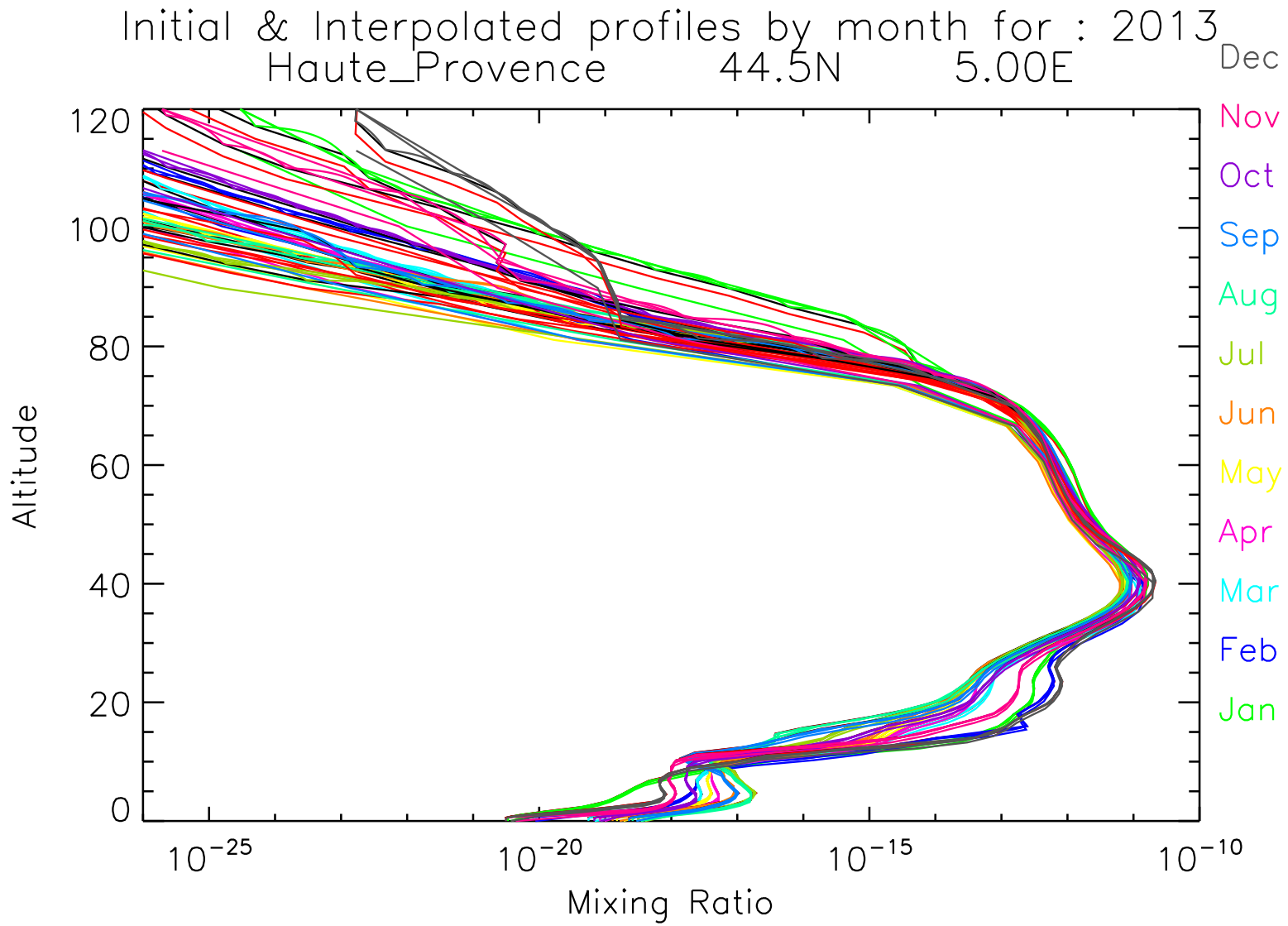
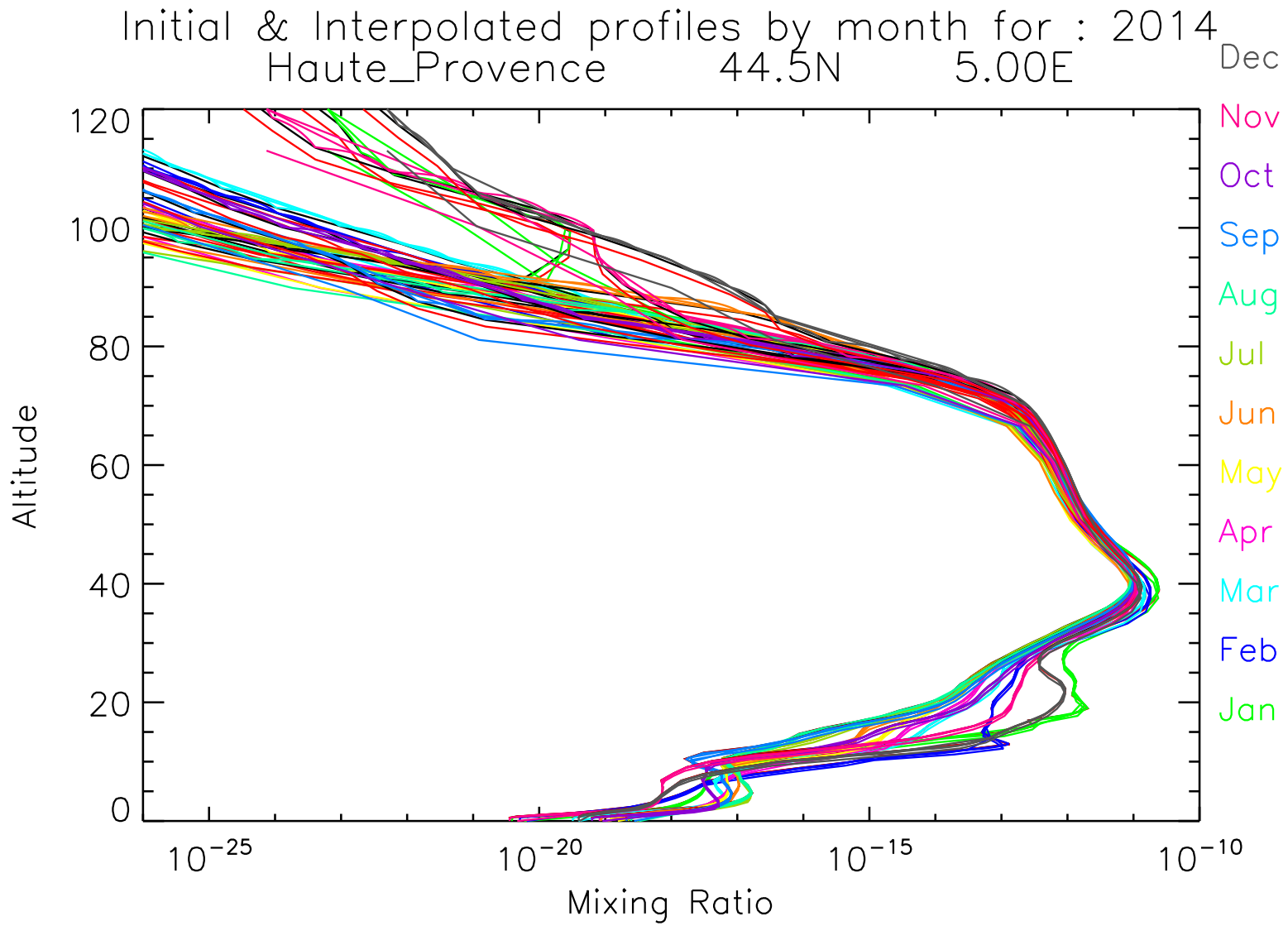
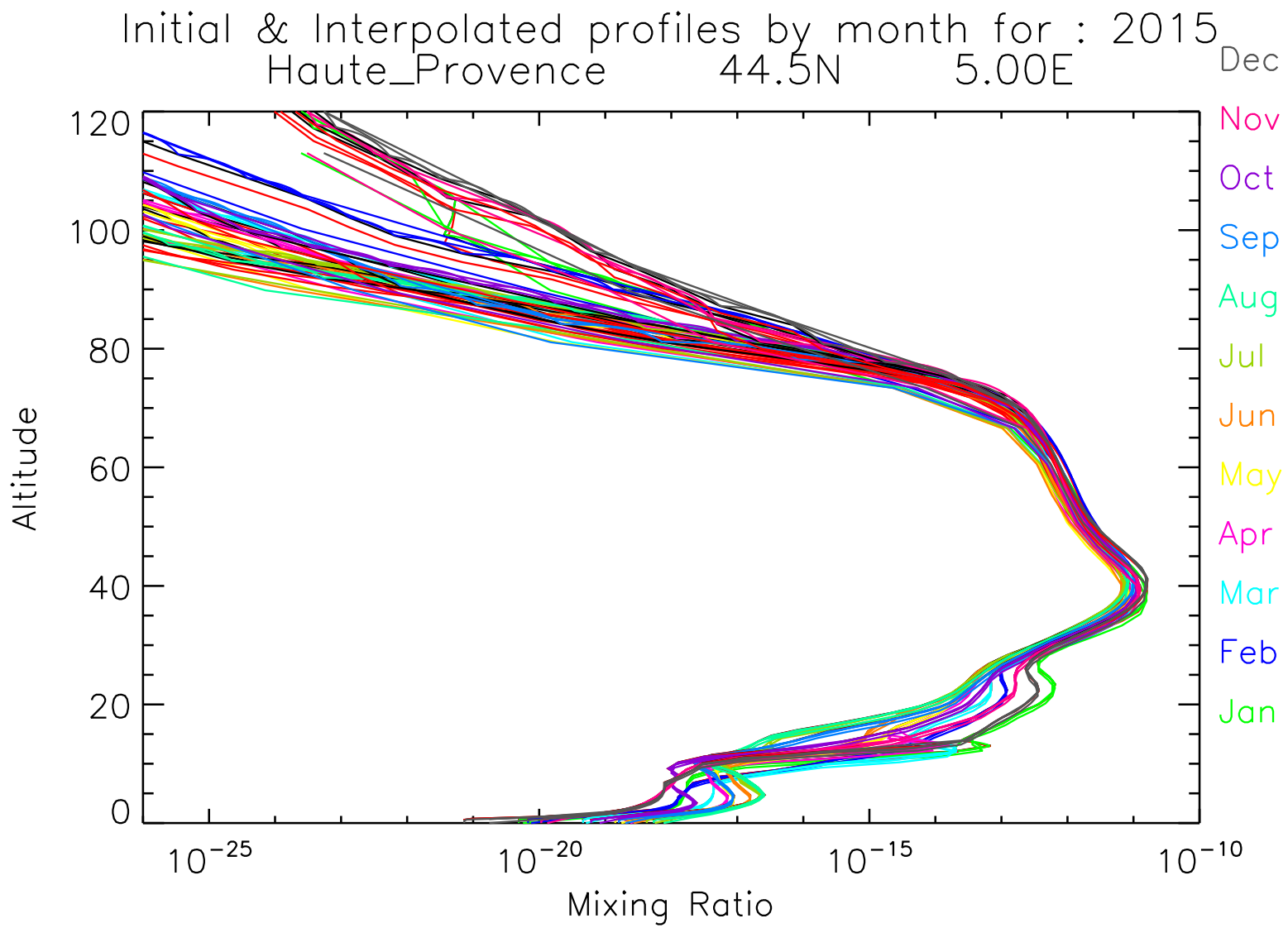
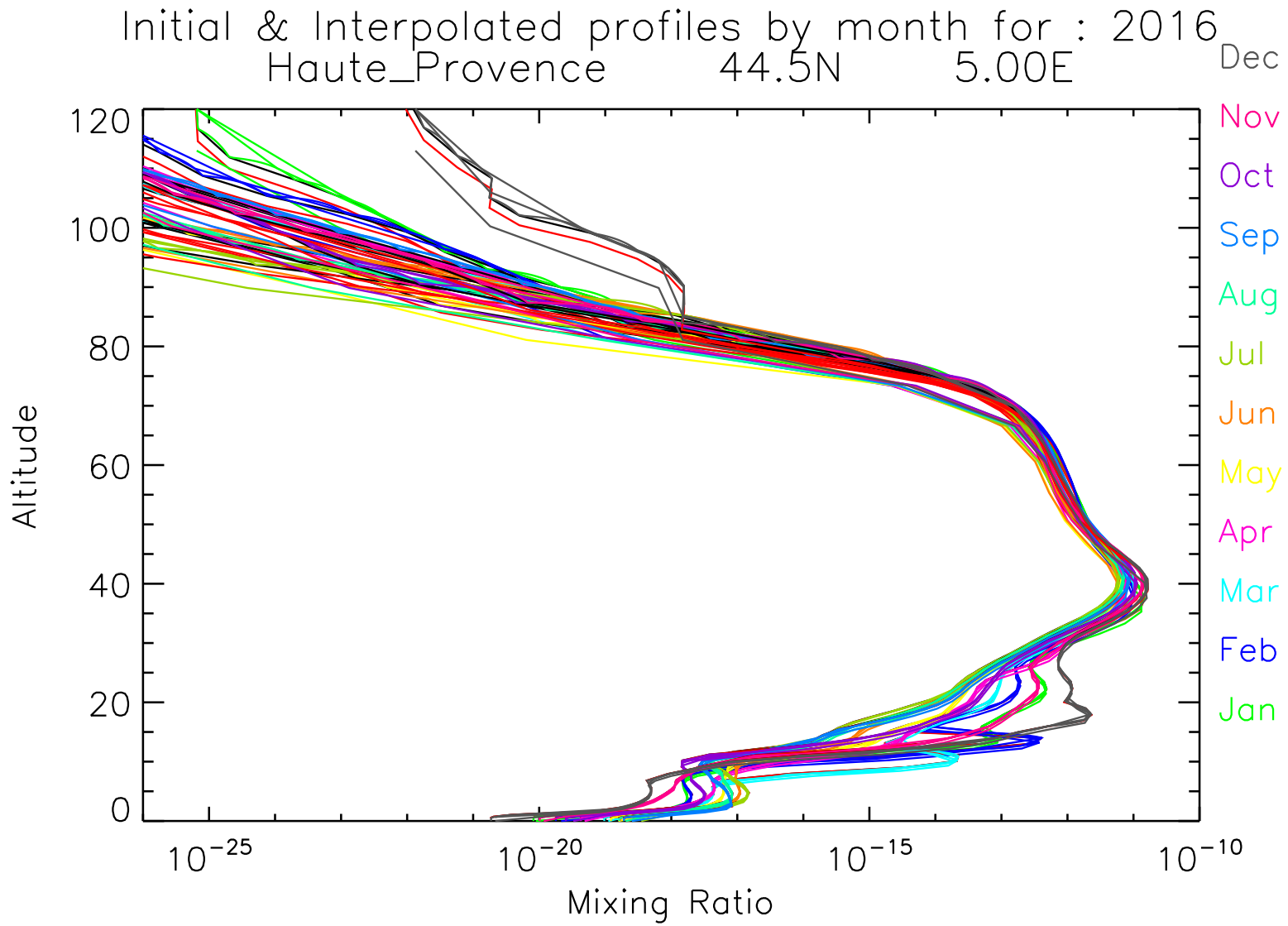
Altitude
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

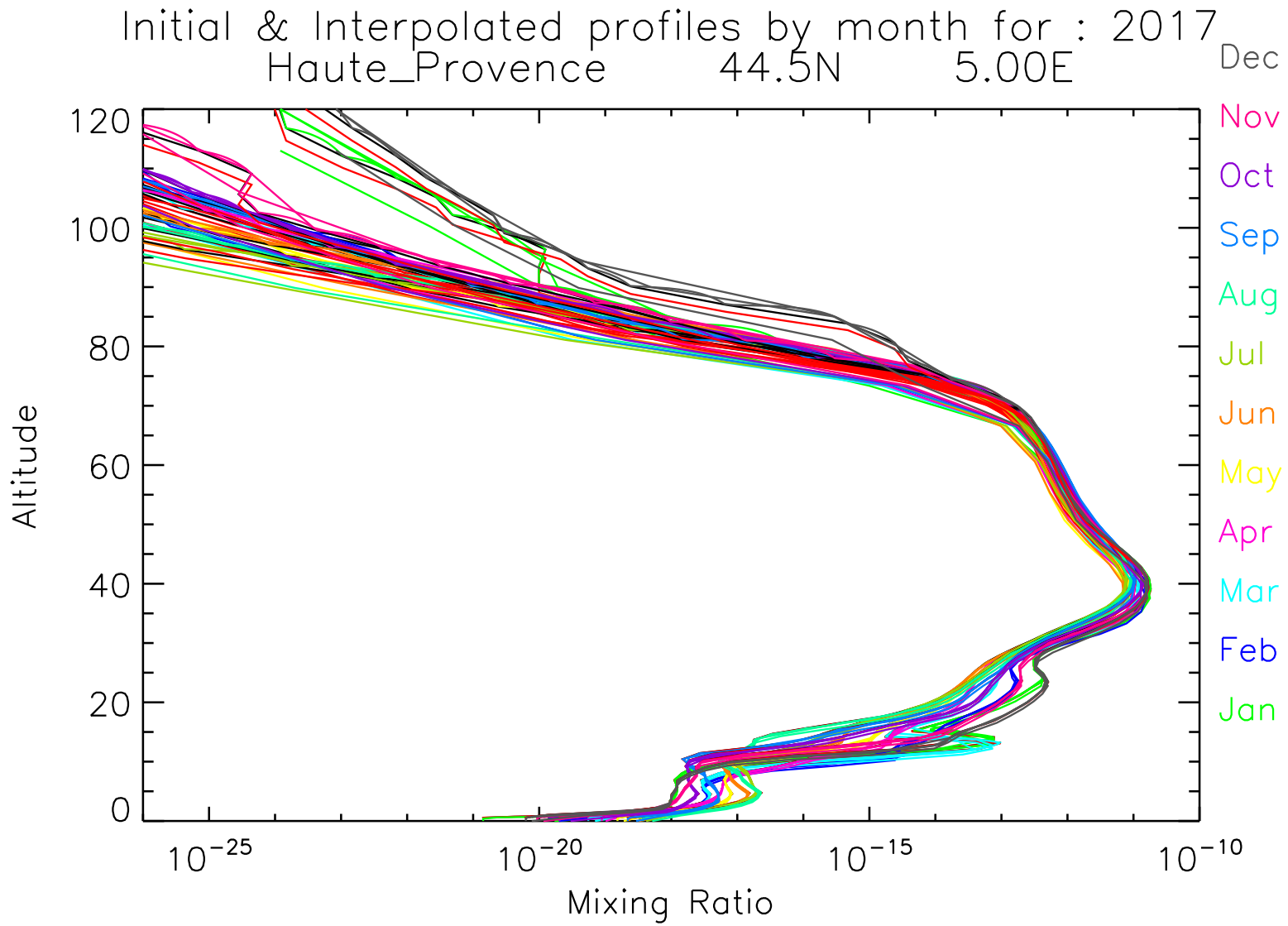

Initial & Interpolated profiles by month for : 2012
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

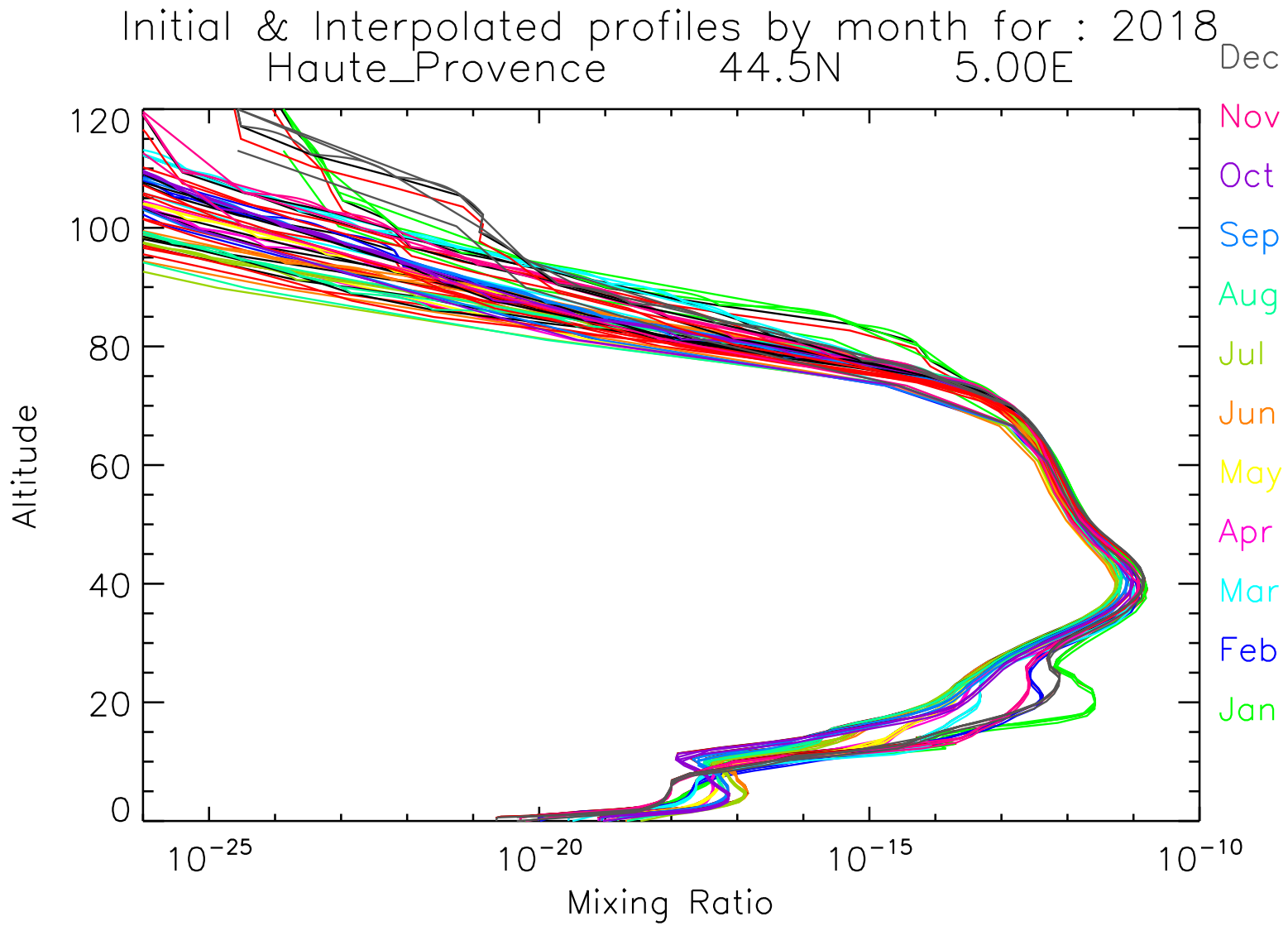

Initial & Interpolated profiles by month for : 2013
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

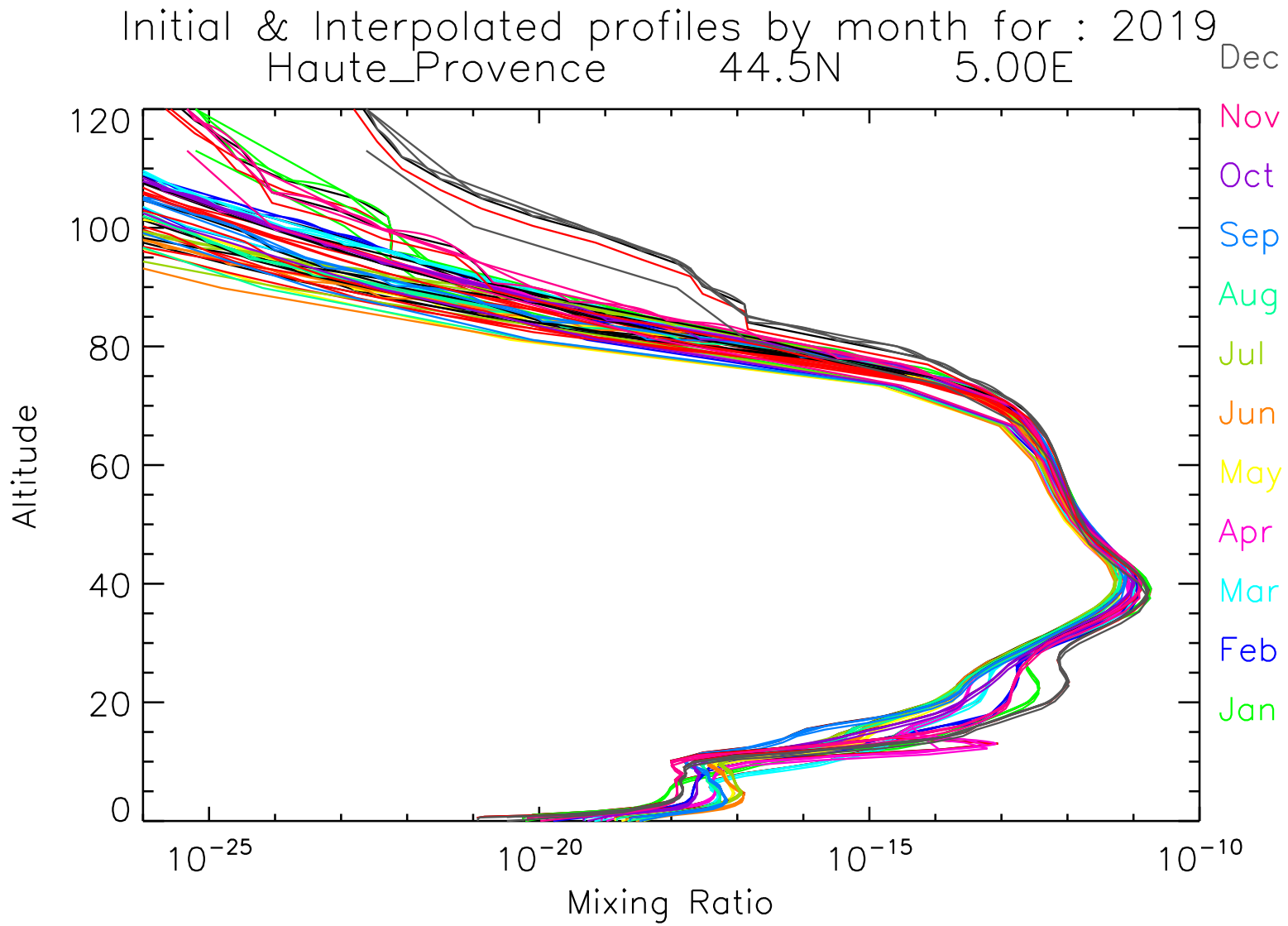

Initial & Interpolated profiles by month for : 2014
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

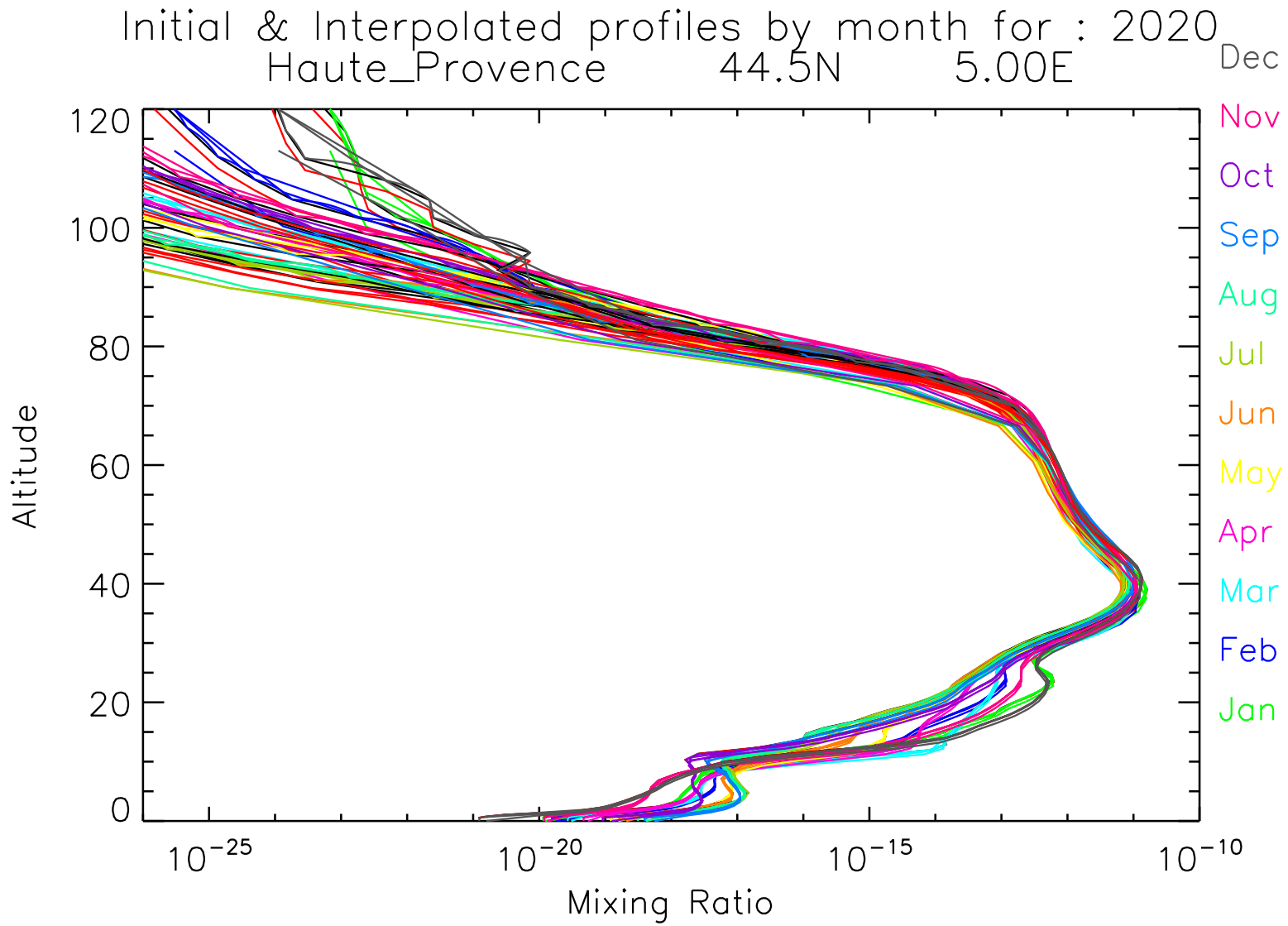

Initial & Interpolated profiles by month for : 2015
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

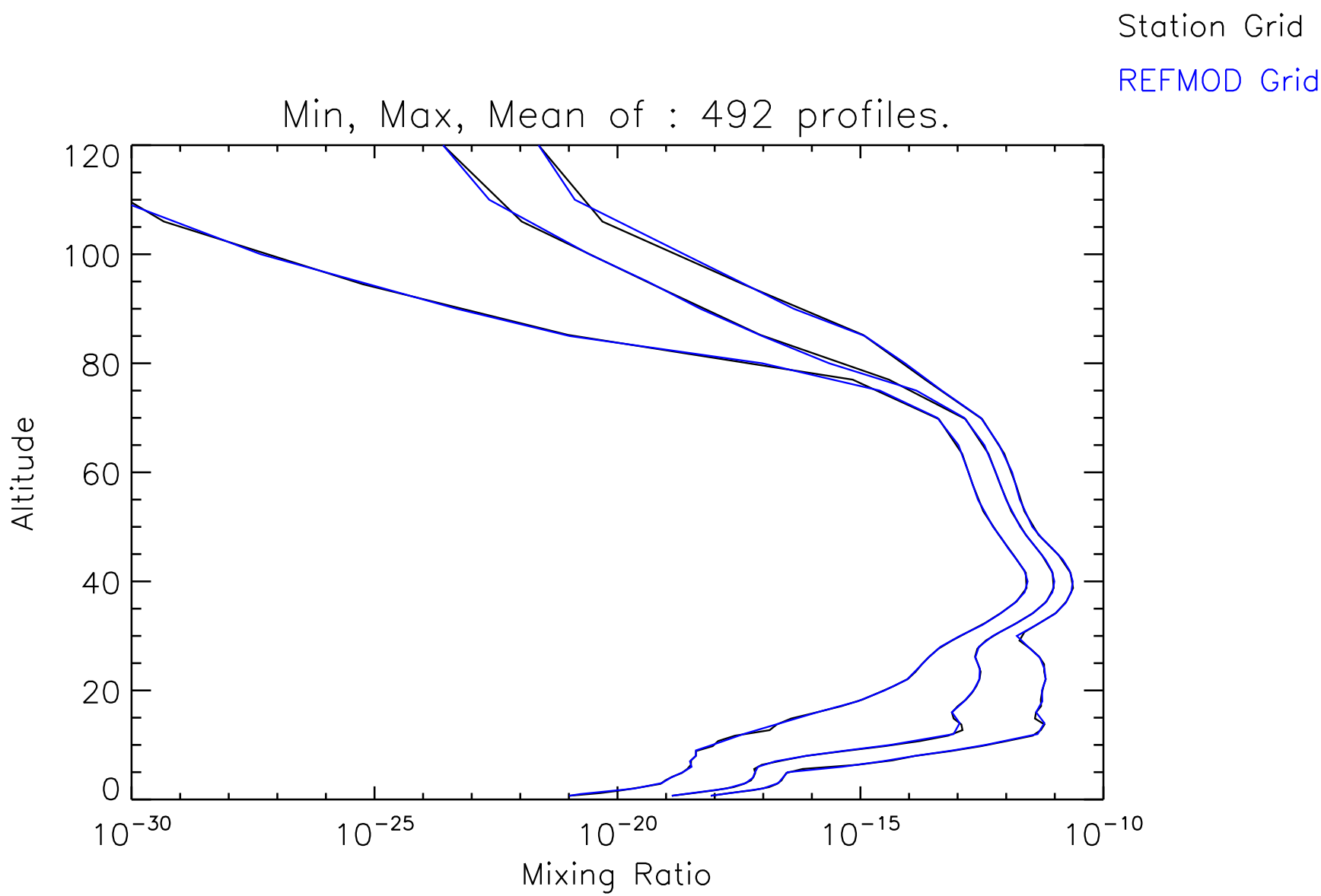

Initial & Interpolated profiles by month for : 2016
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

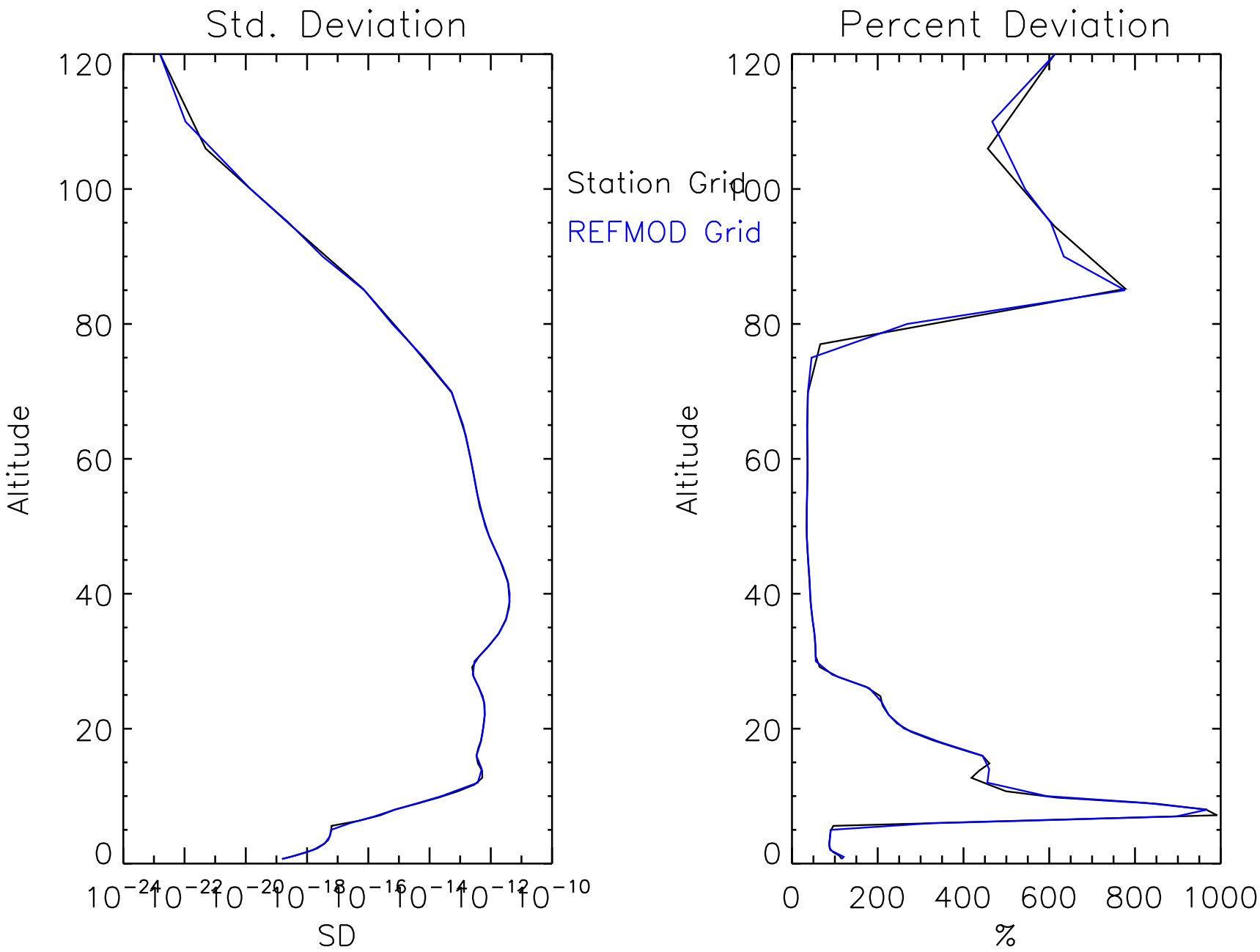

Initial & Interpolated profiles by month for : 2017
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

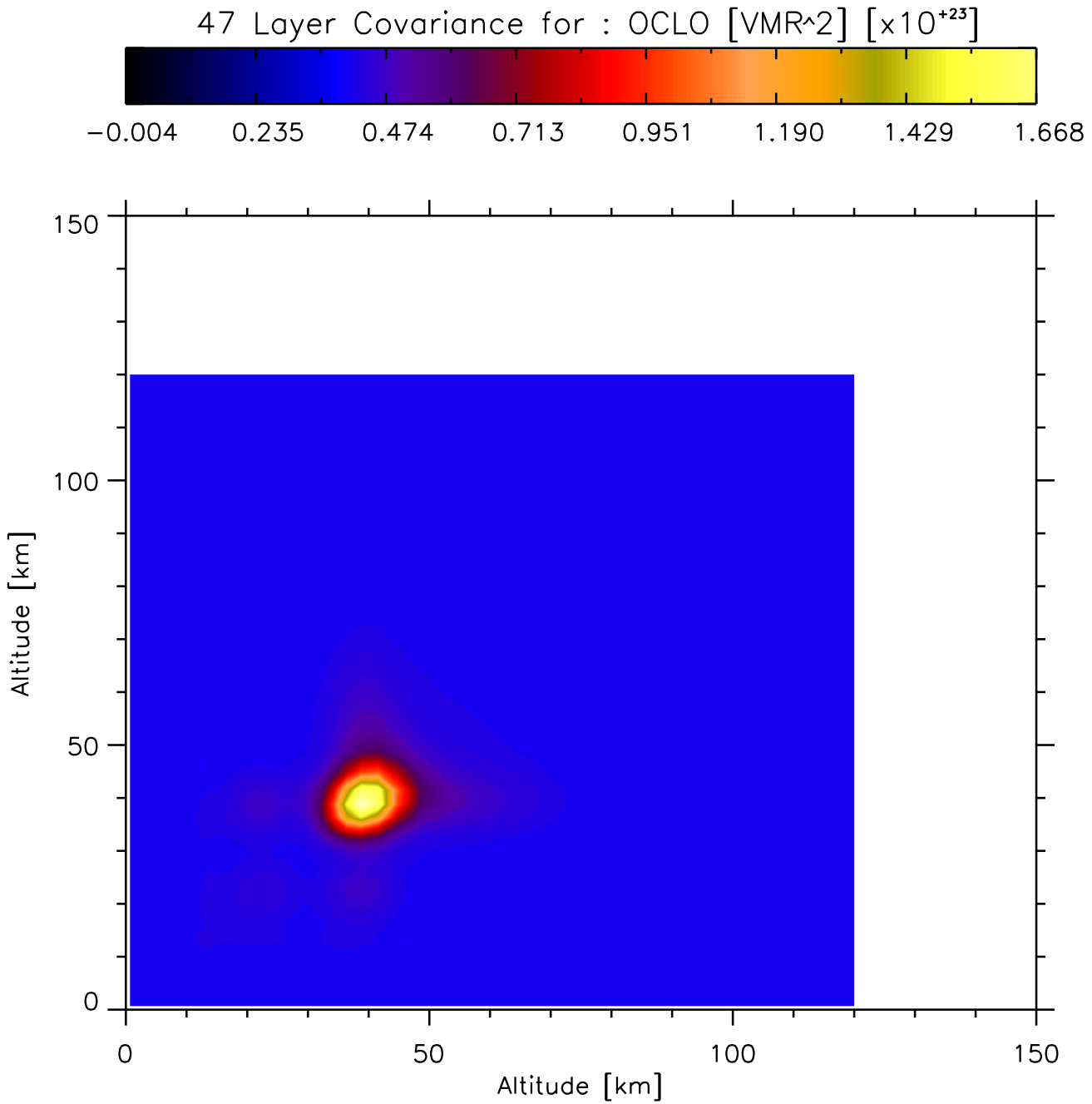

Initial & Interpolated profiles by month for : 2018
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


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
120
100
80
60
40
20
0
Altitude
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

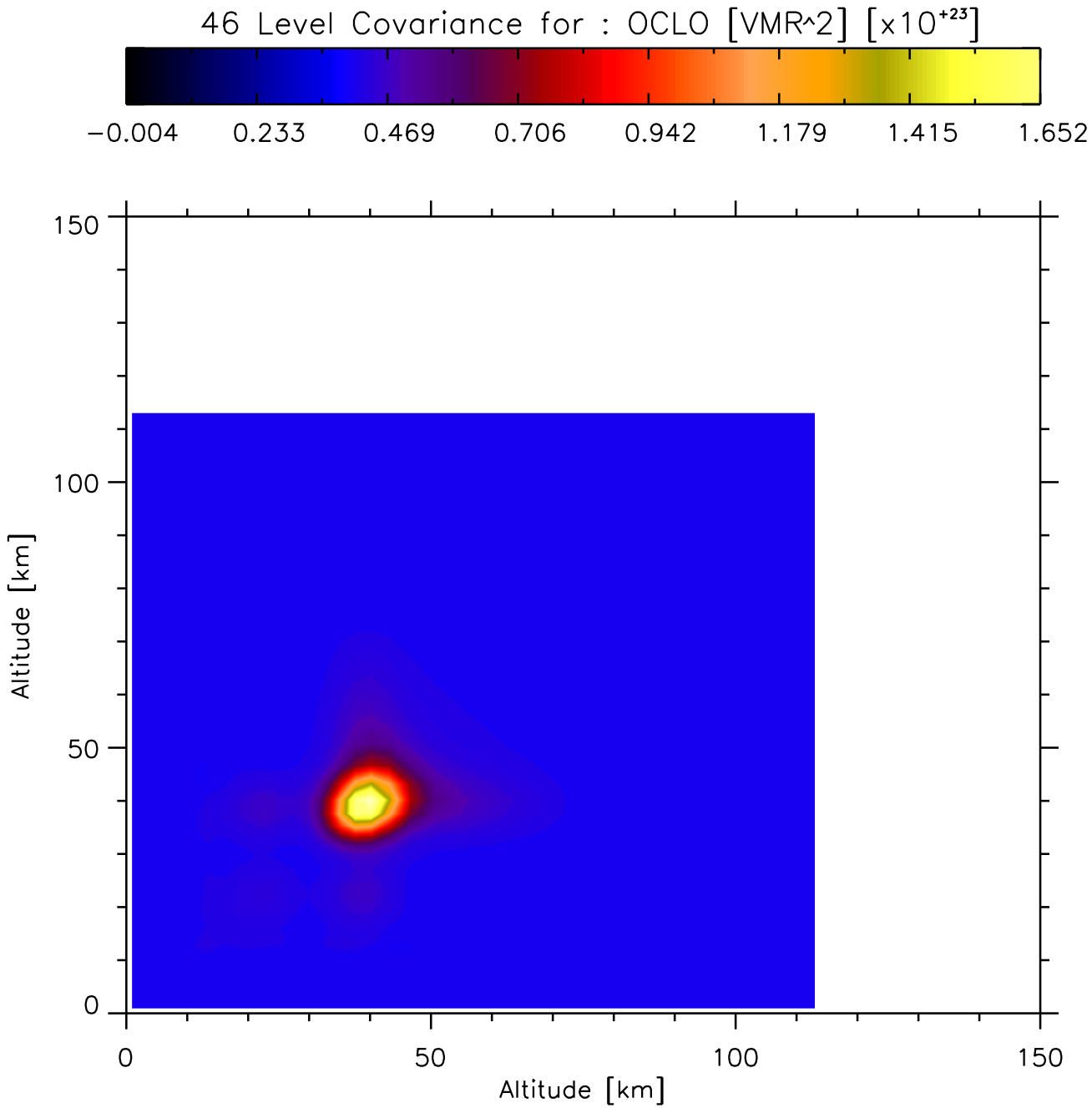

Initial & Interpolated profiles by month for : 2020
Haute_Provence 44.5N 5.00E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

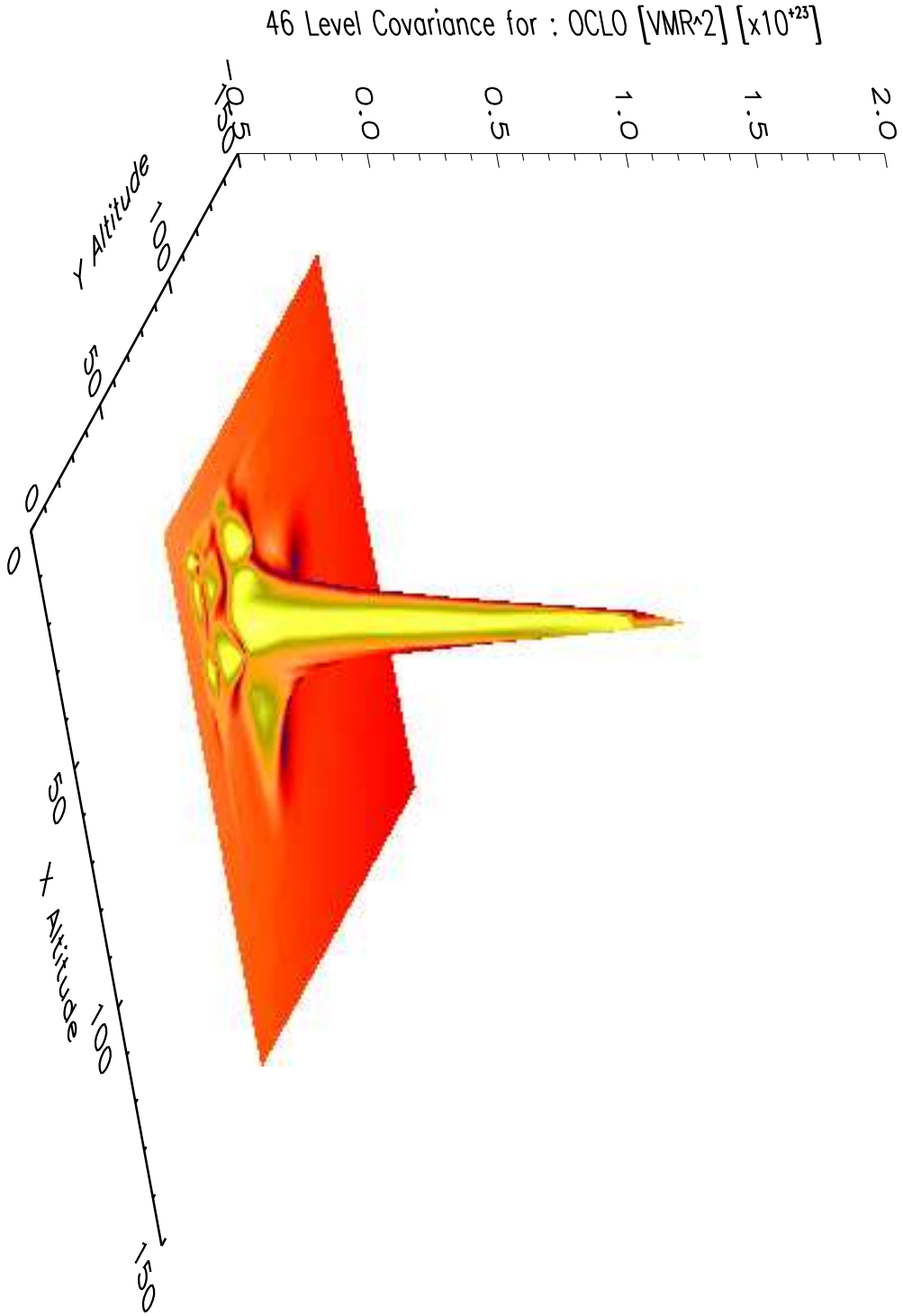

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
$10^{-24}$ $10^{-22}$ $10^{-20}$ $10^{-18}$ $10^{-16}$ $10^{-14}$ $10^{-12}$ $10^{-10}$
SD
0 200 400 600 800 1000
%


47 Layer Covariance for : OCLO [VMR^2] [x10^+23]
−0.004
0.235
0.474
0.713
0.951
1.190
1.429
1.668
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Layer Covariance for : OCLO [VMR^2] [x10^23]
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
30
60
90
120
150
X Altitude
0
50
100
150


46 Level Covariance for : OCLO [VMR^2] [x10^+23]
−0.004
0.233
0.469
0.706
0.942
1.179
1.415
1.652
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


46 Level Covariance for : OCLO [VMR^2] [x10^+23]
-0.5
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
50
100
0
50
X Altitude
100