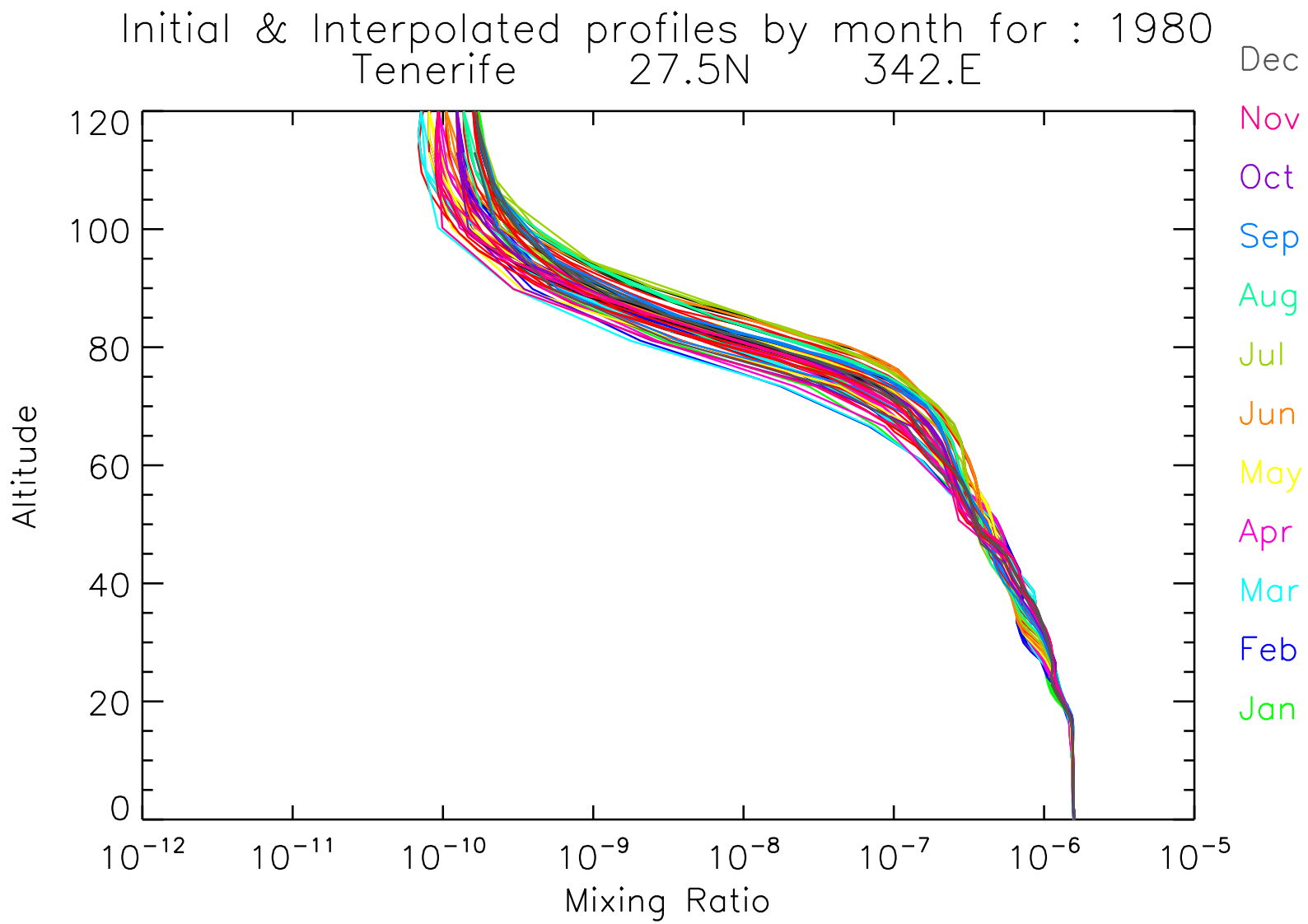
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Mixing Ratio
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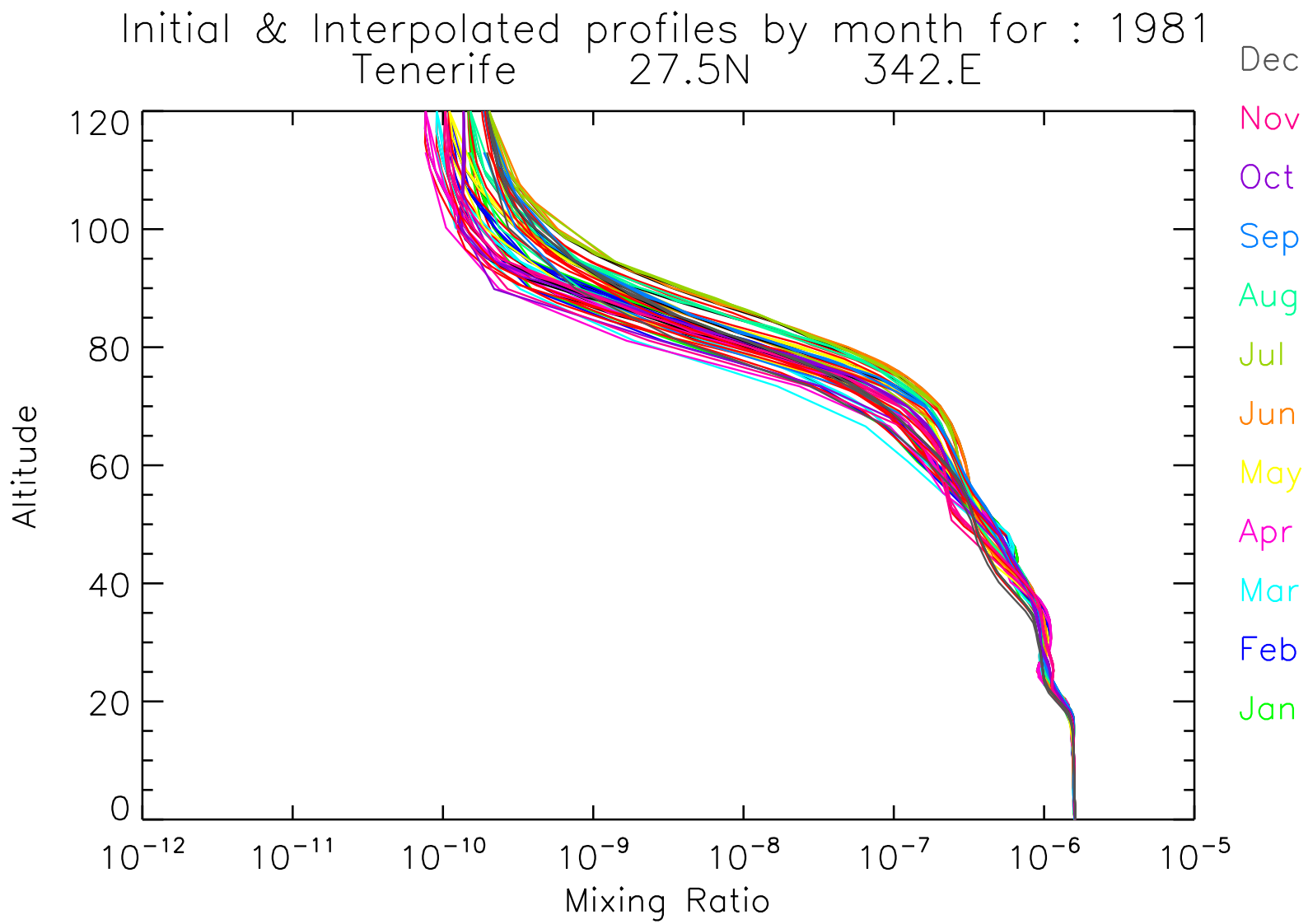
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Altitude
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Mixing Ratio
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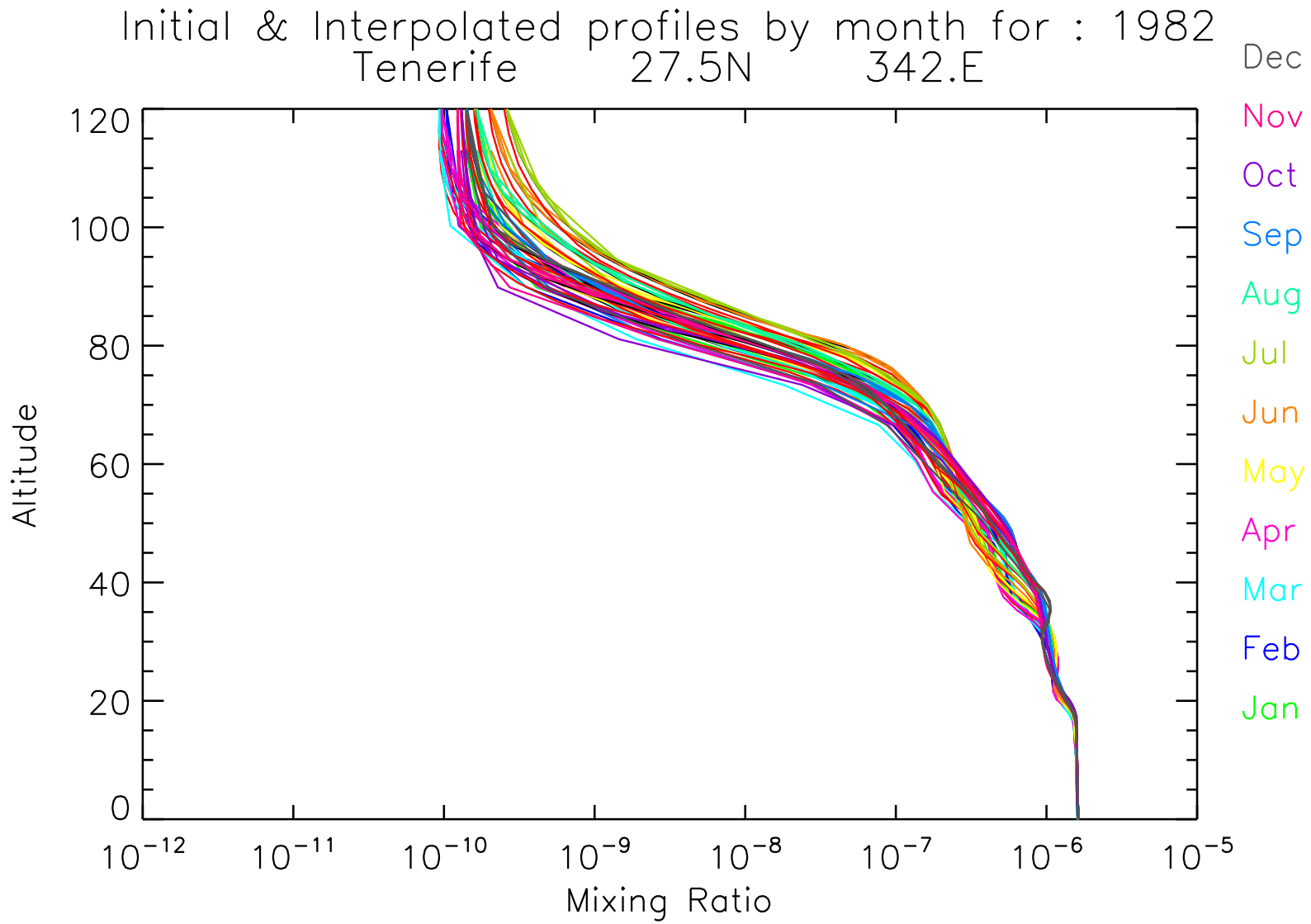
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Altitude
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Mixing Ratio
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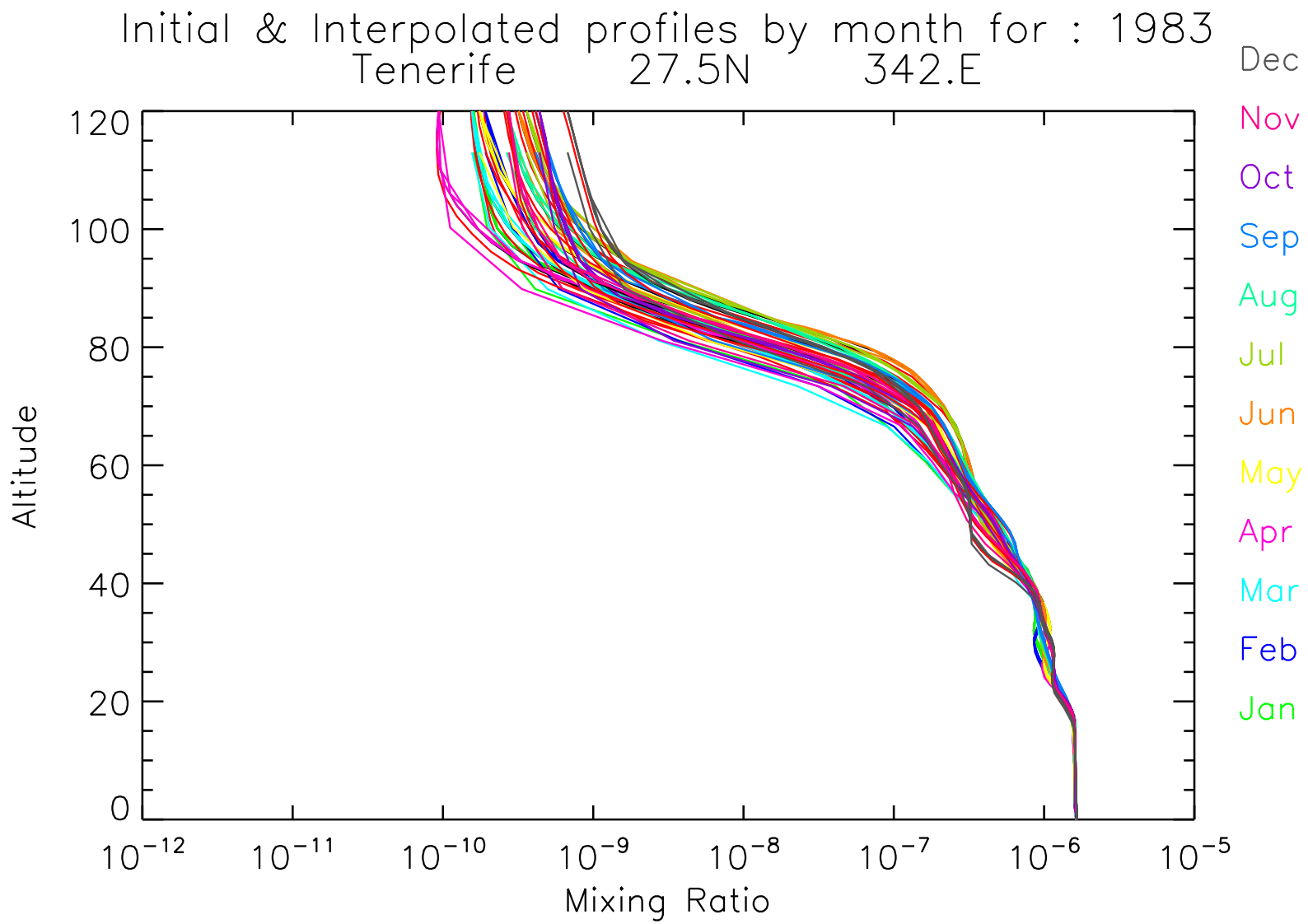
Initial & Interpolated profiles by month for : 1983
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Altitude
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Mixing Ratio
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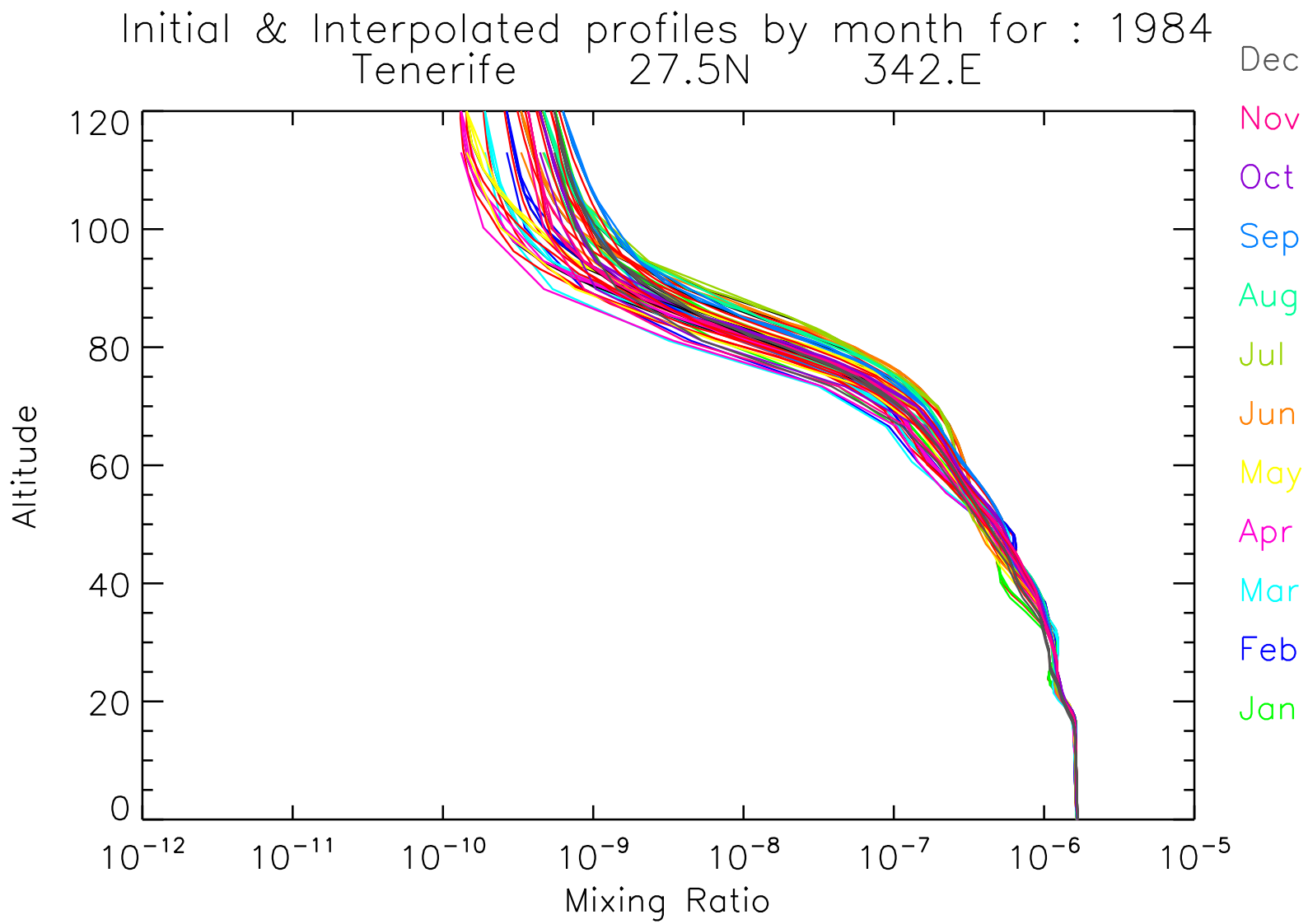
Initial & Interpolated profiles by month for : 1984
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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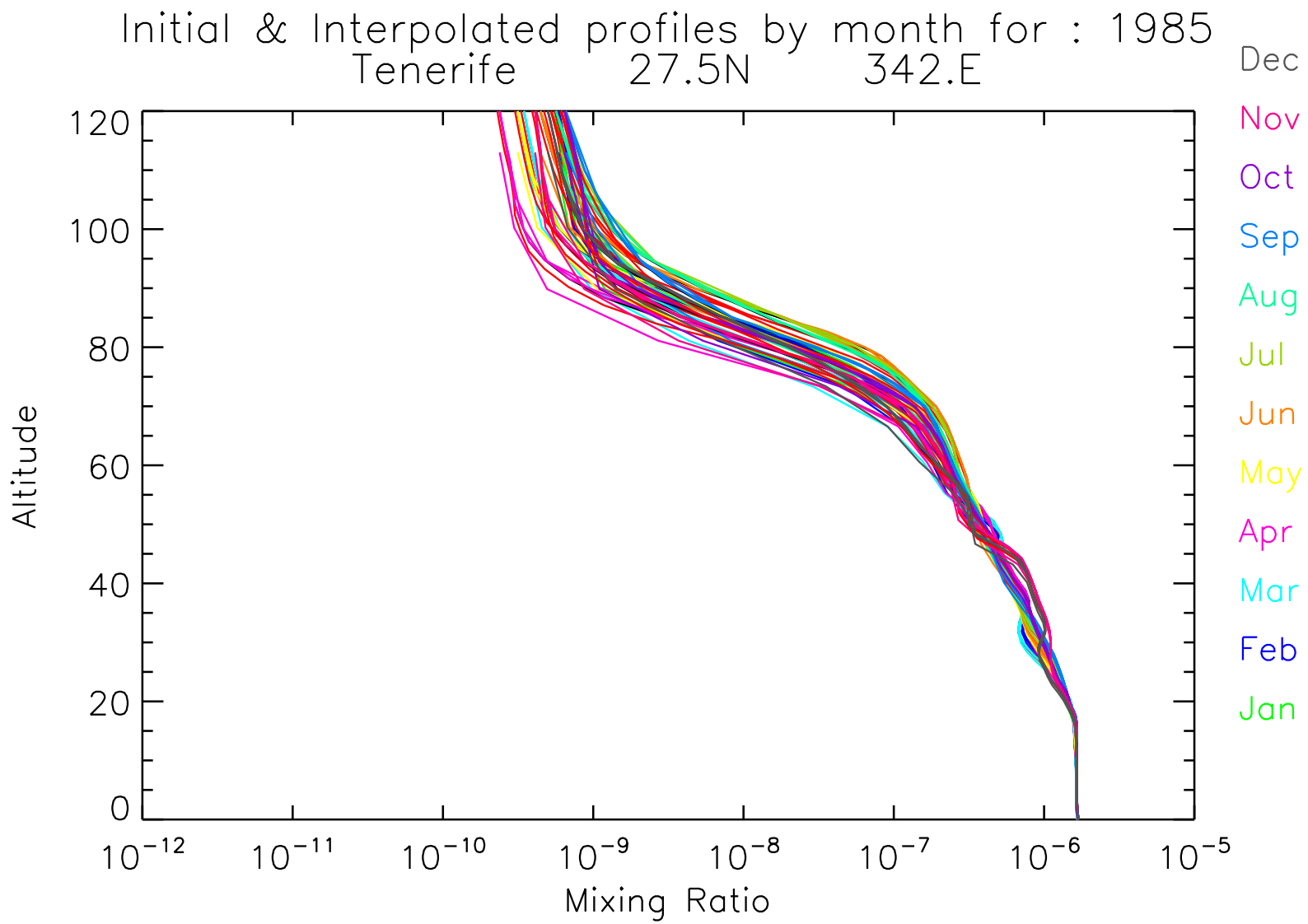
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Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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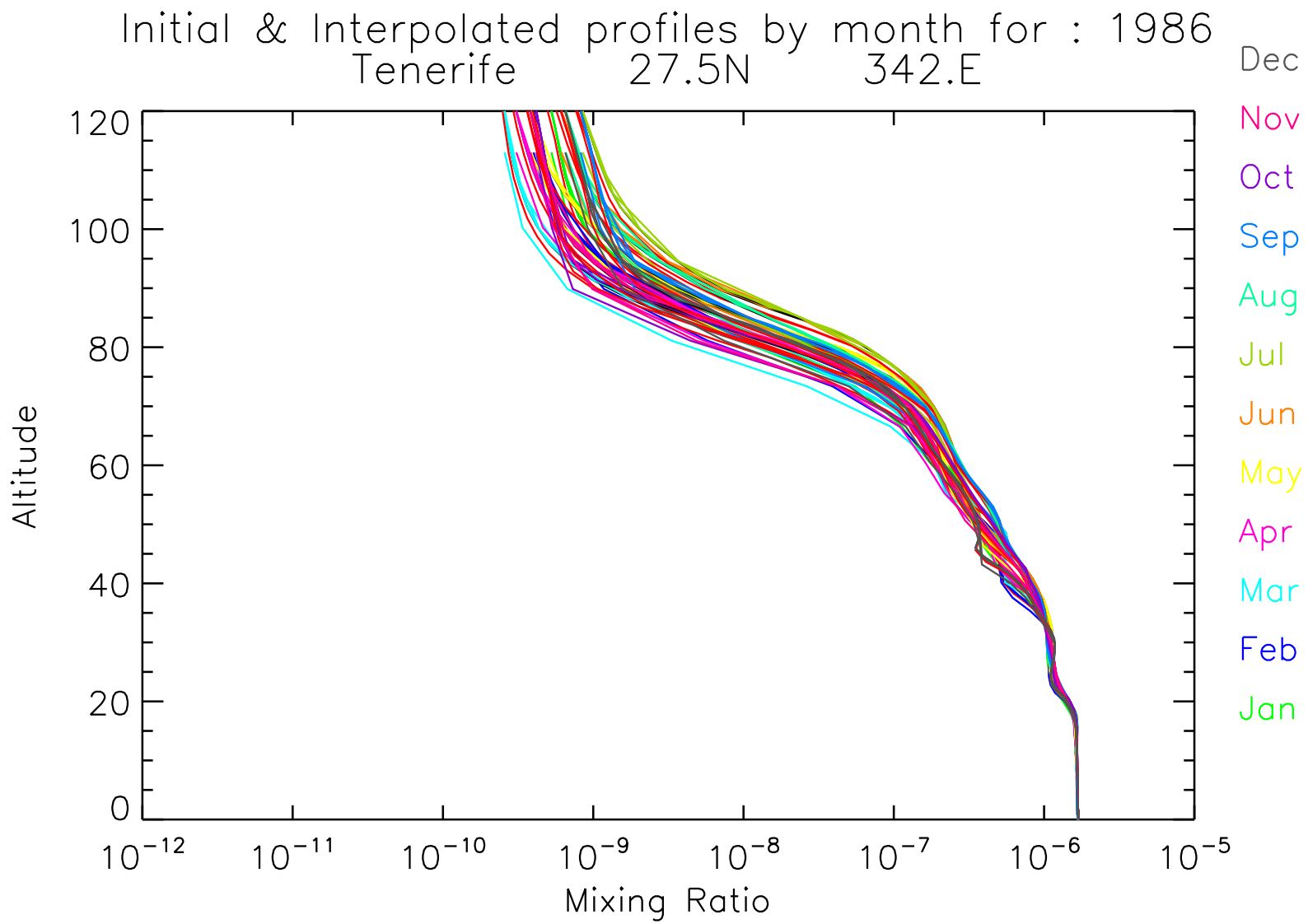
Initial & Interpolated profiles by month for : 1986
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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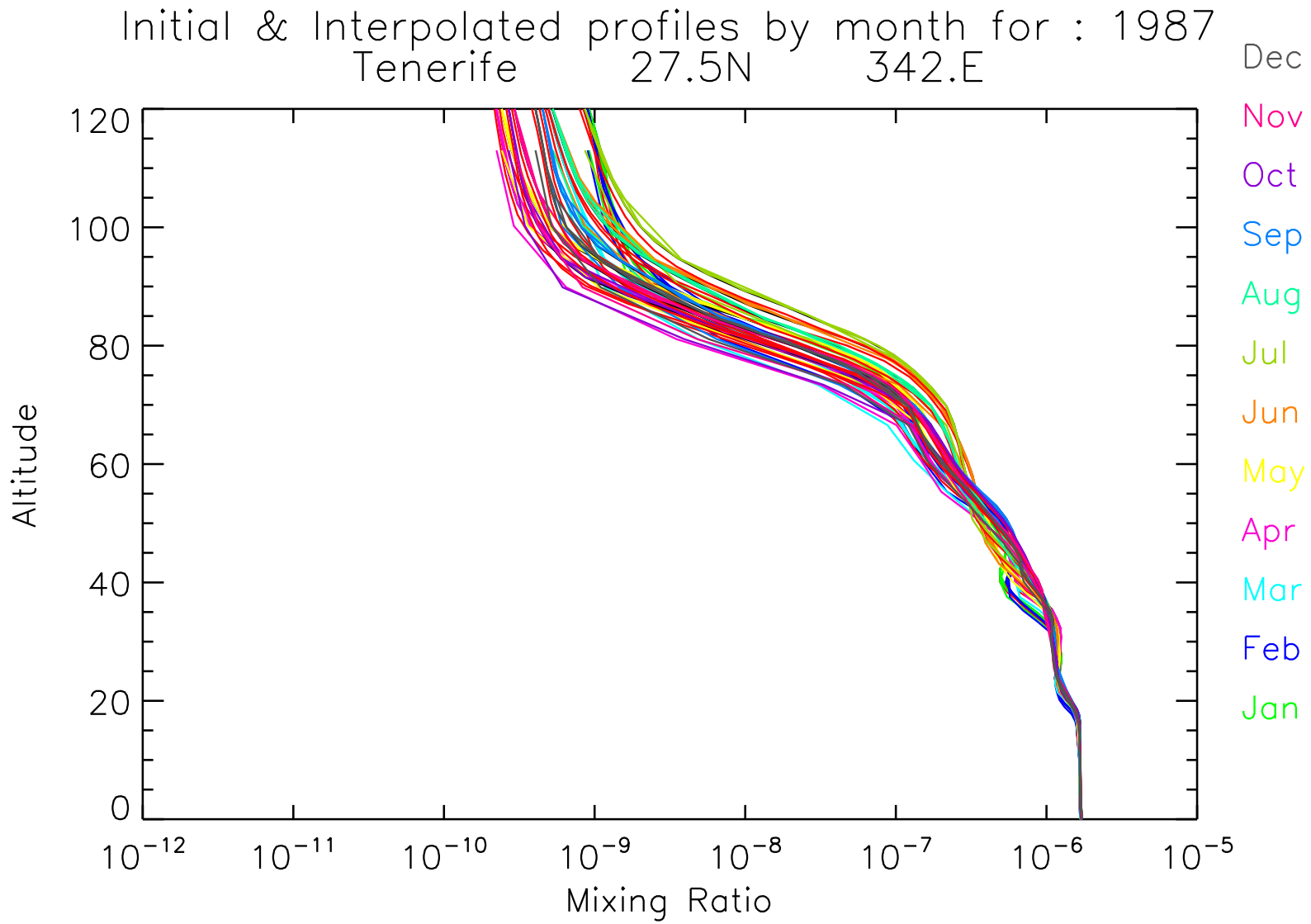
Initial & Interpolated profiles by month for : 1987
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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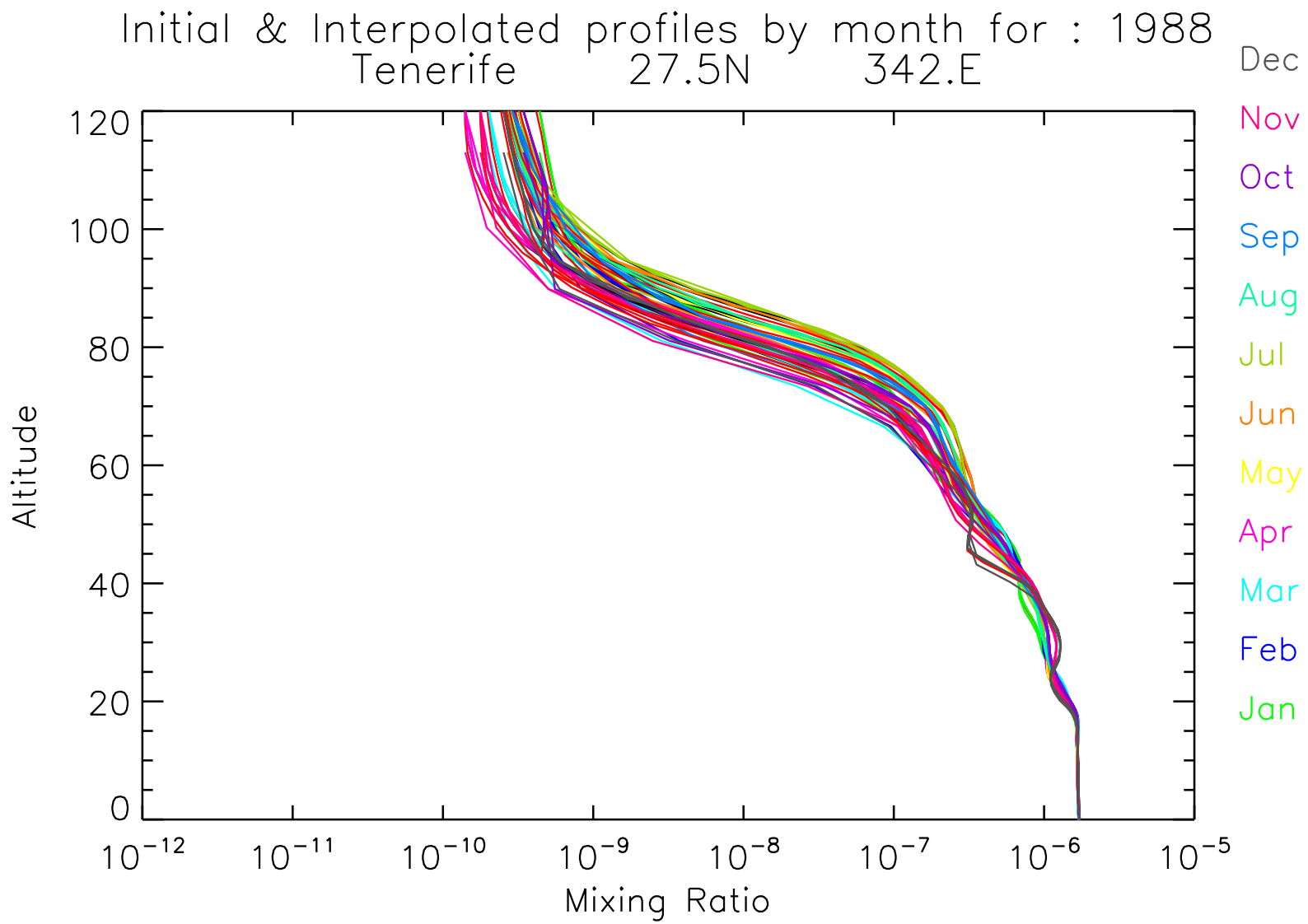
Initial & Interpolated profiles by month for : 1988
Tenerife 27.5N 342.E
Altitude
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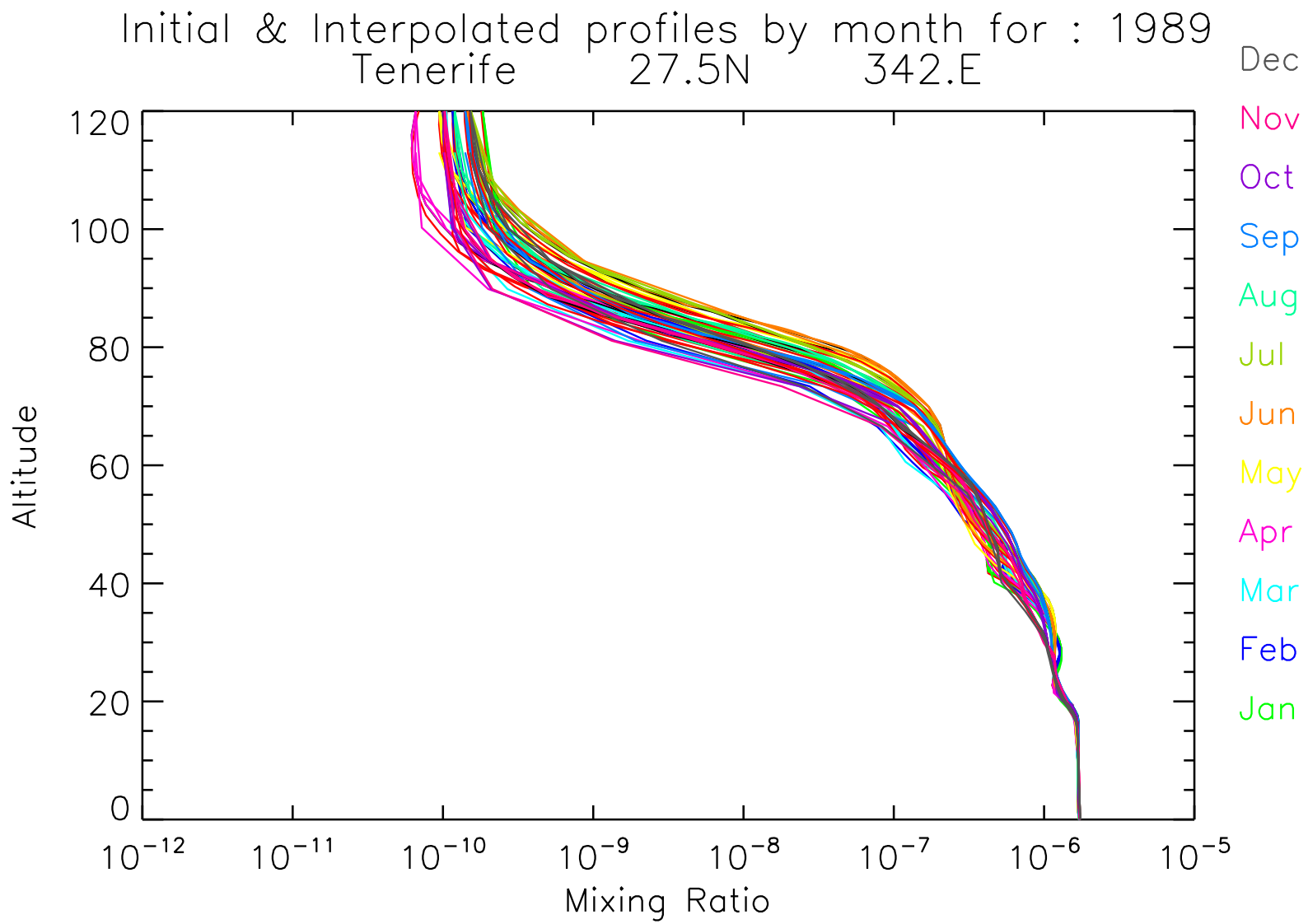
Initial & Interpolated profiles by month for : 1989
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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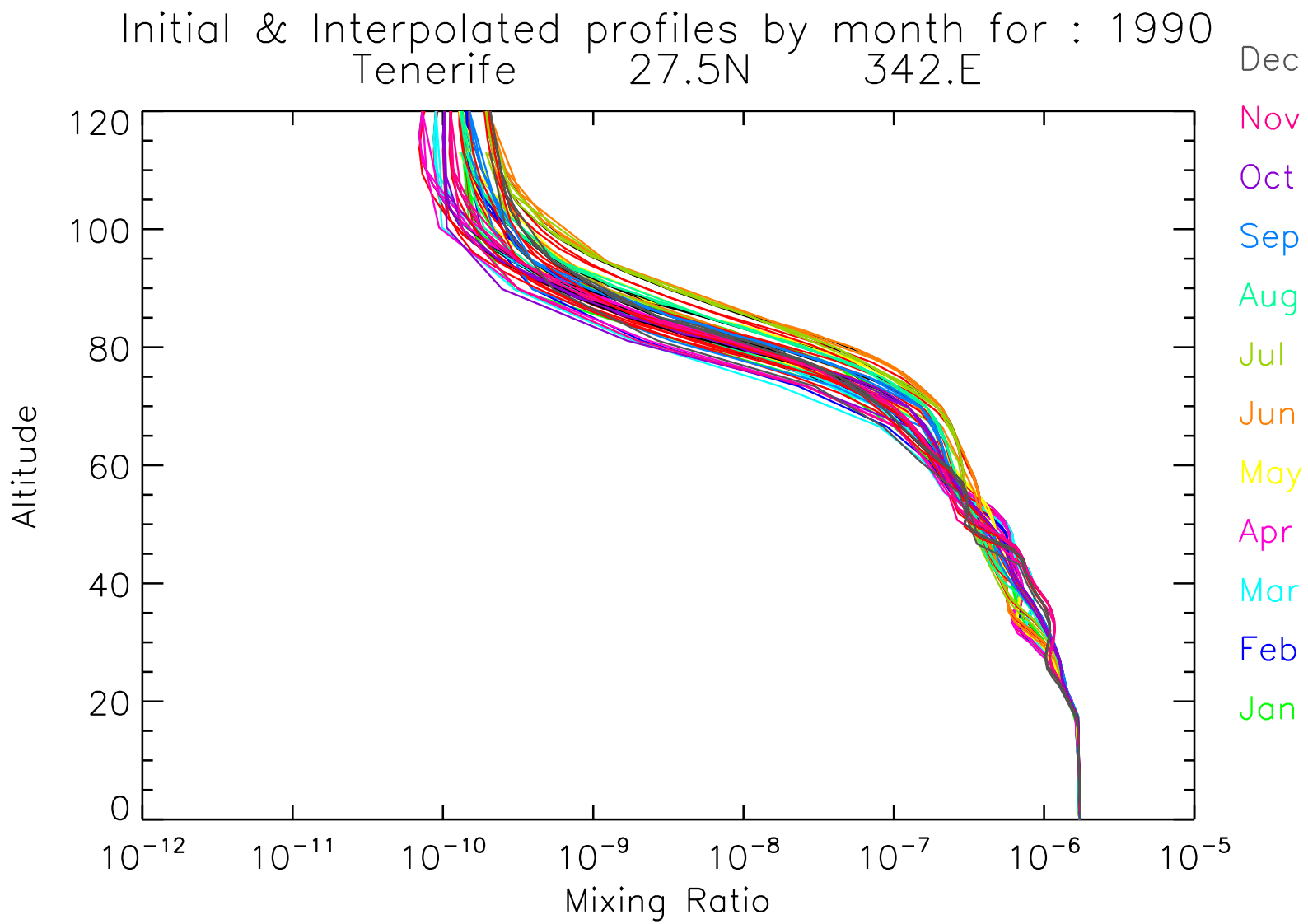
Initial & Interpolated profiles by month for : 1990
Tenerife 27.5N 342.E
Altitude
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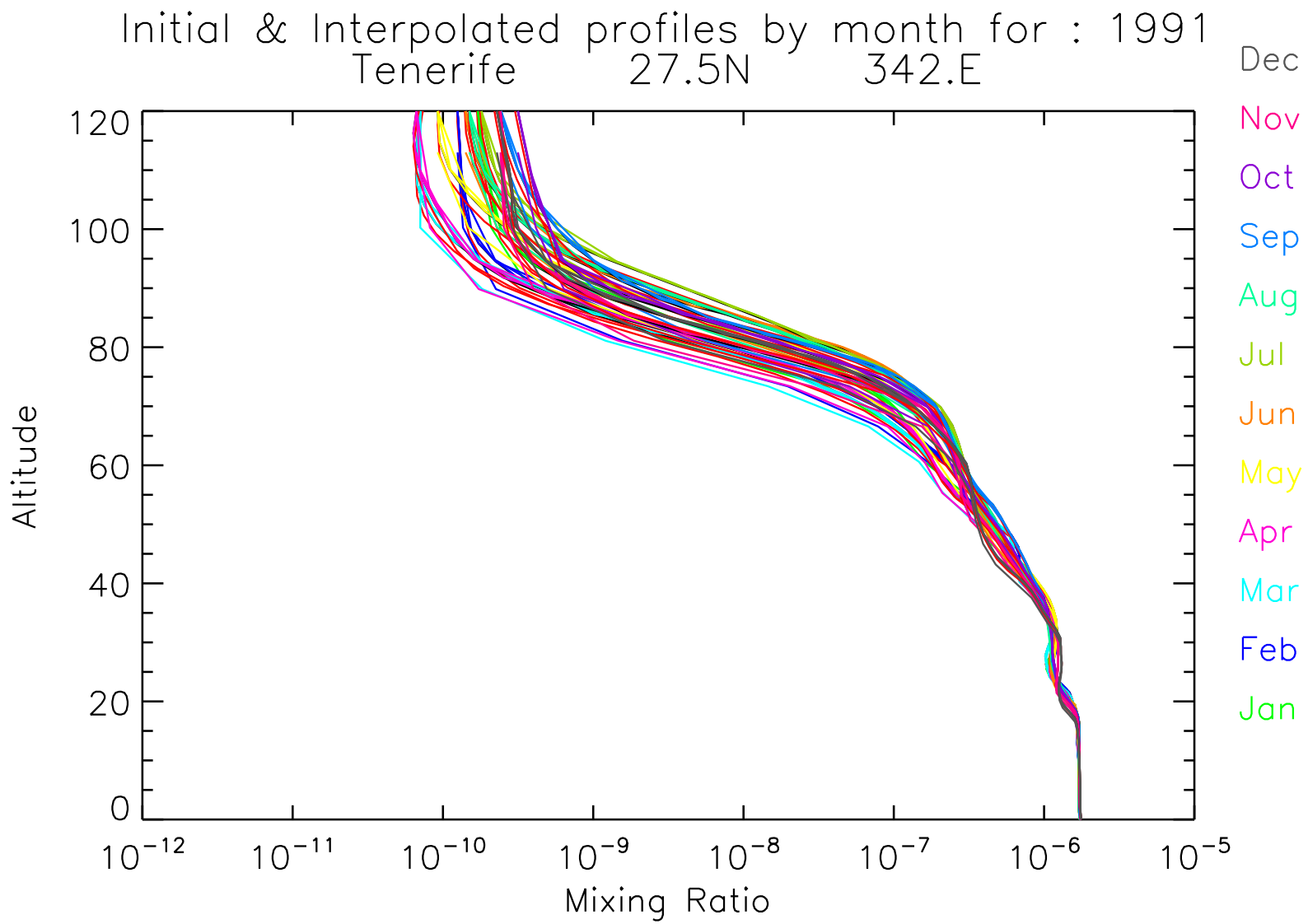
Initial & Interpolated profiles by month for : 1991
Tenerife 27.5N 342.E
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Altitude
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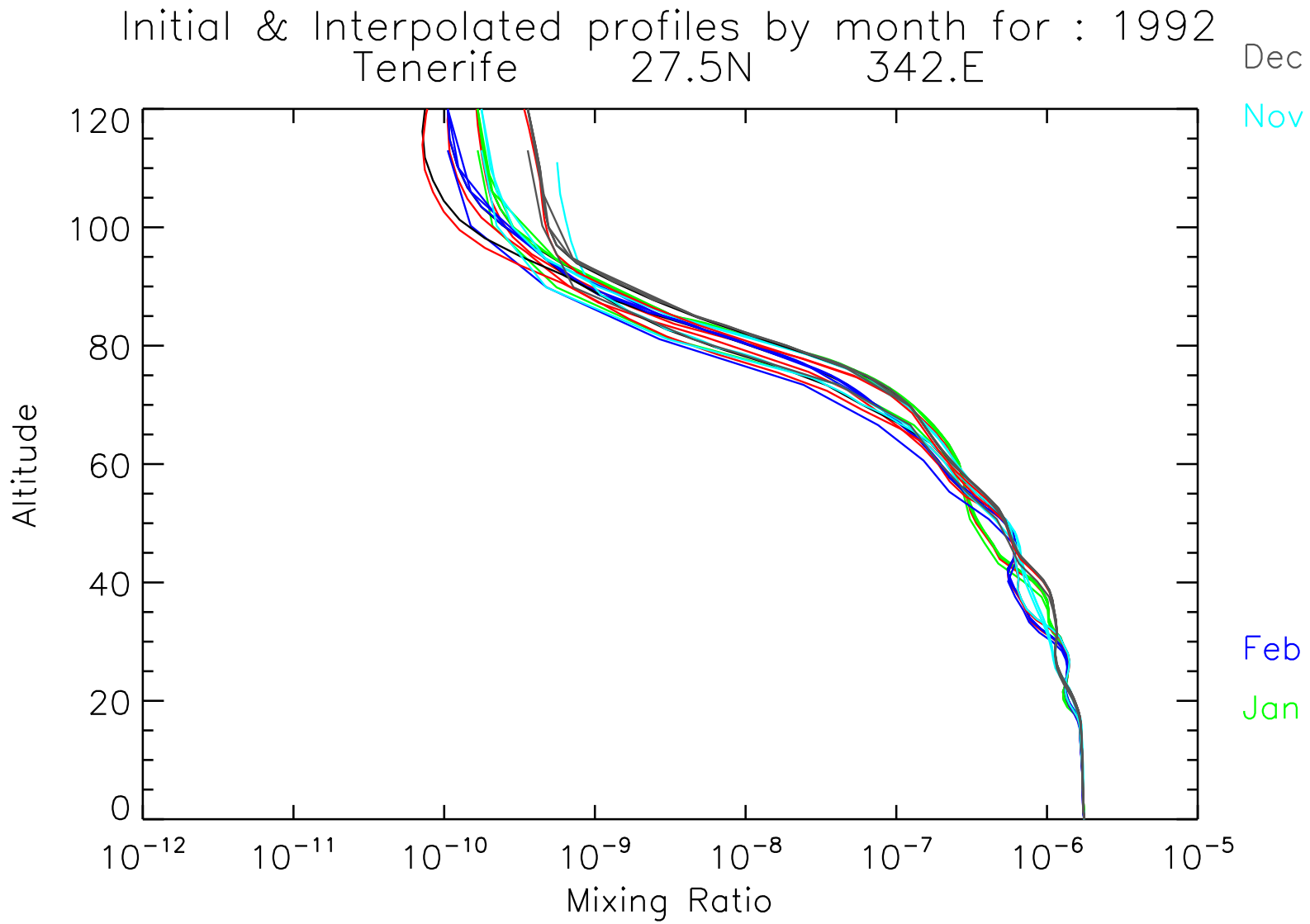
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Tenerife 27.5N 342.E
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Altitude
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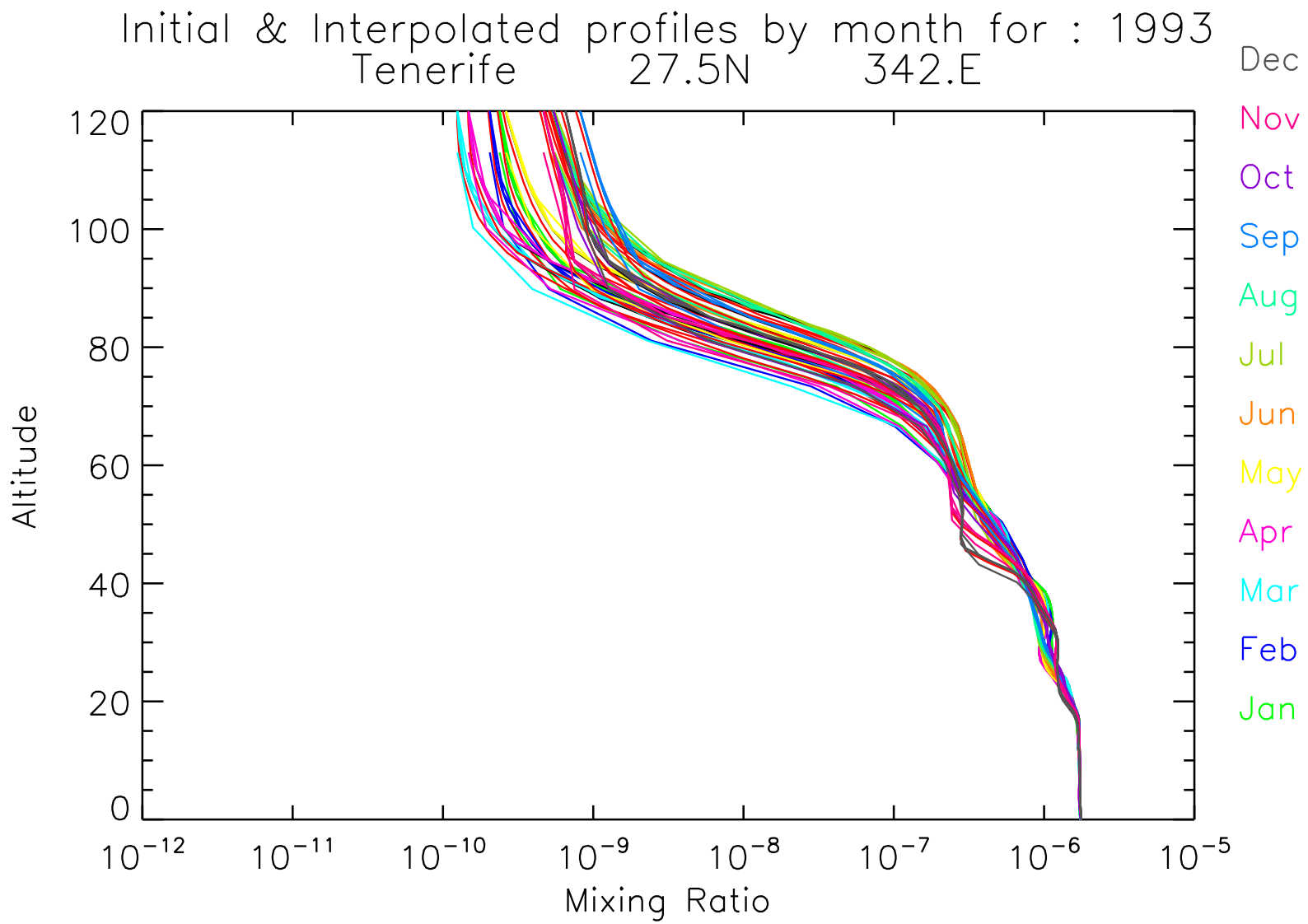
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Tenerife 27.5N 342.E
Altitude
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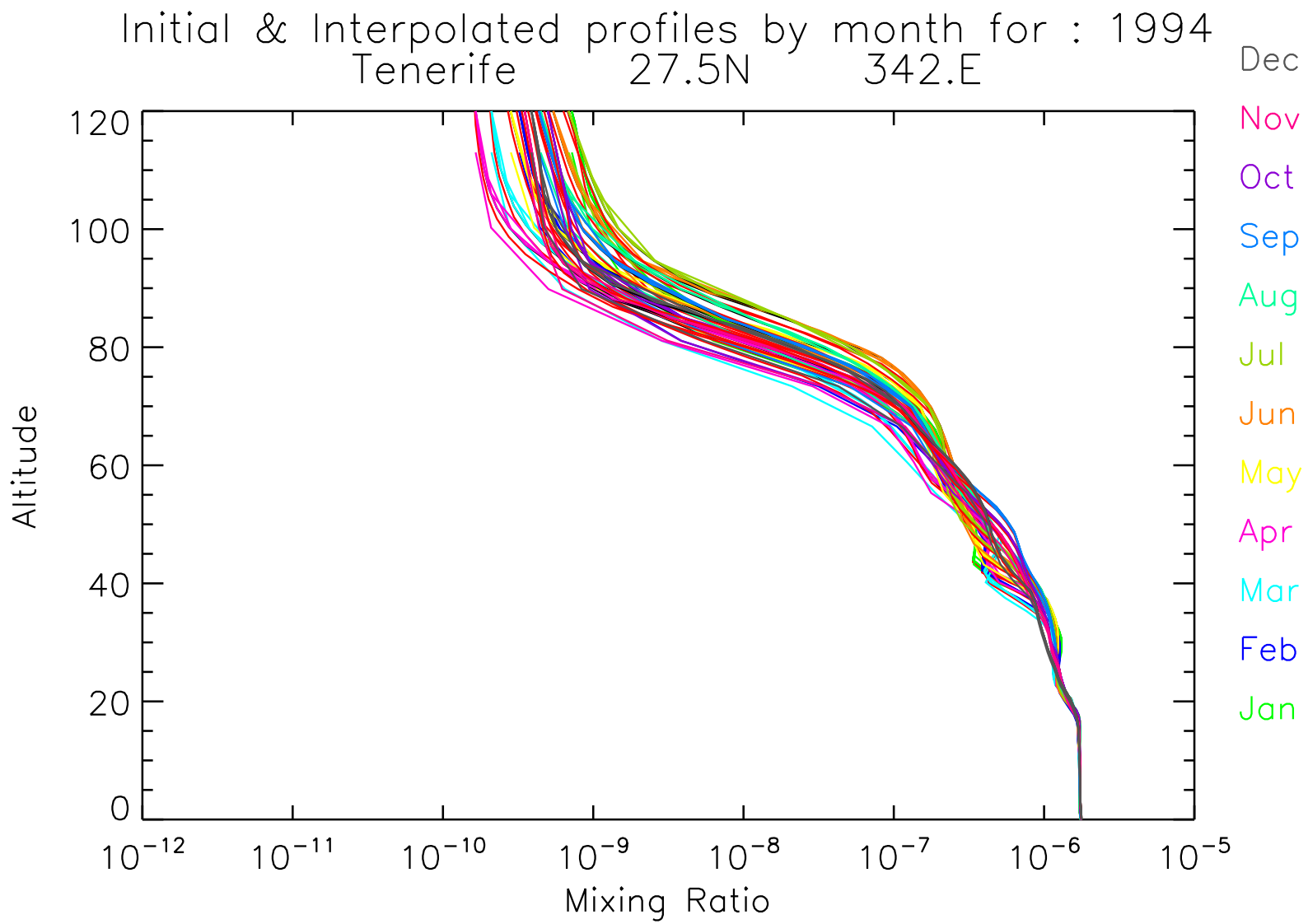
Initial & Interpolated profiles by month for : 1994
Tenerife 27.5N 342.E
Altitude
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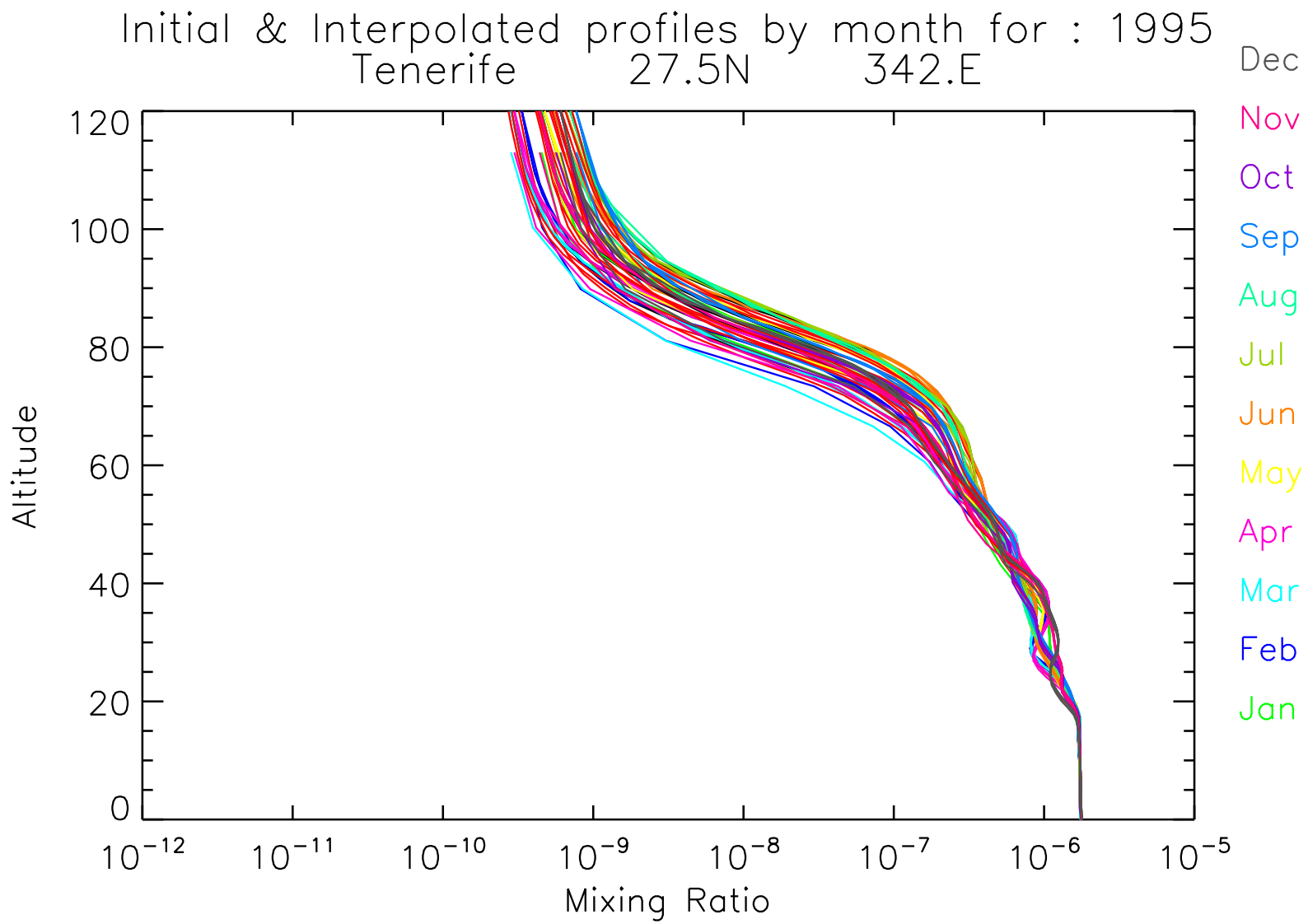
Initial & Interpolated profiles by month for : 1995
Tenerife 27.5N 342.E
Altitude
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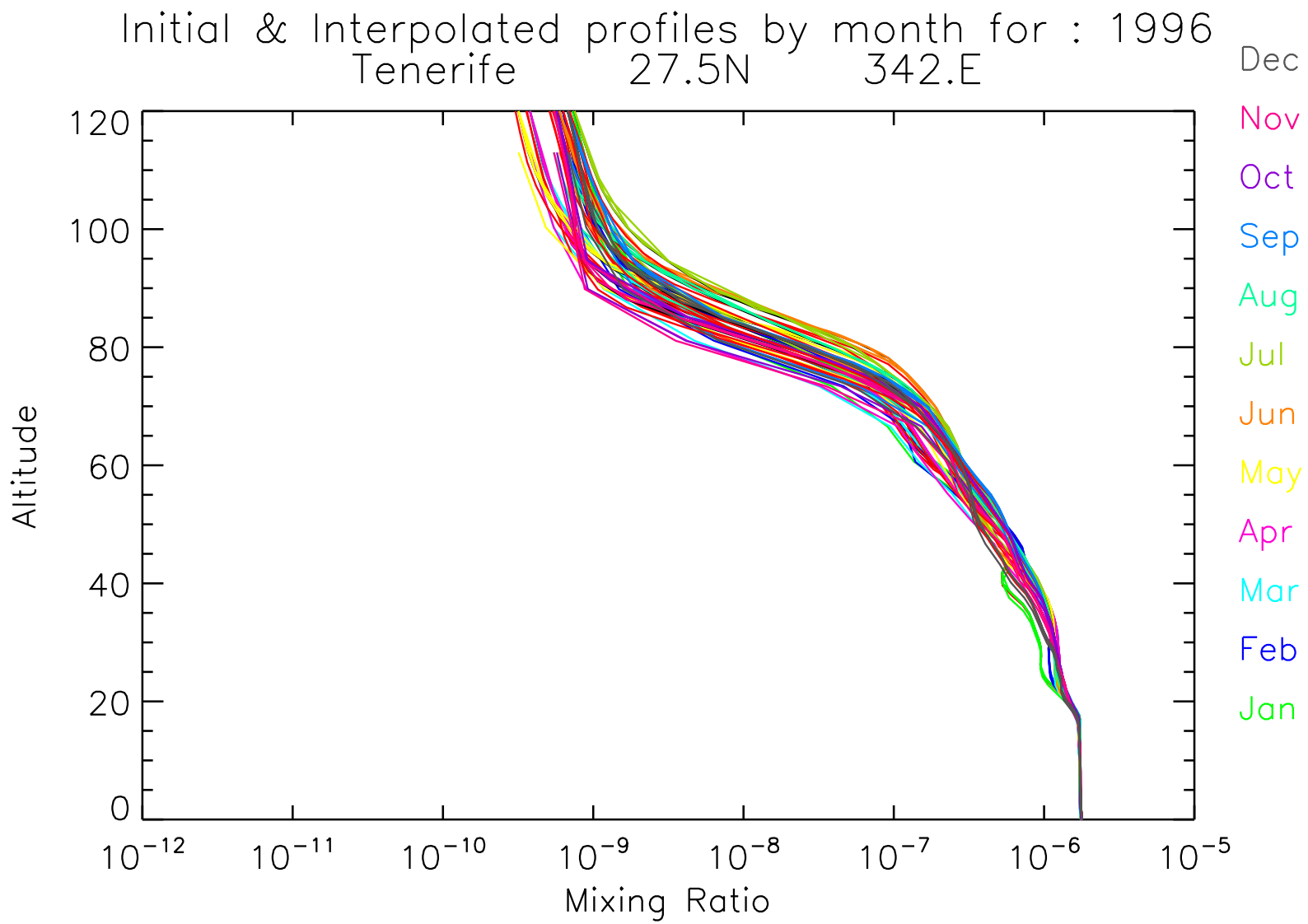
Initial & Interpolated profiles by month for : 1996
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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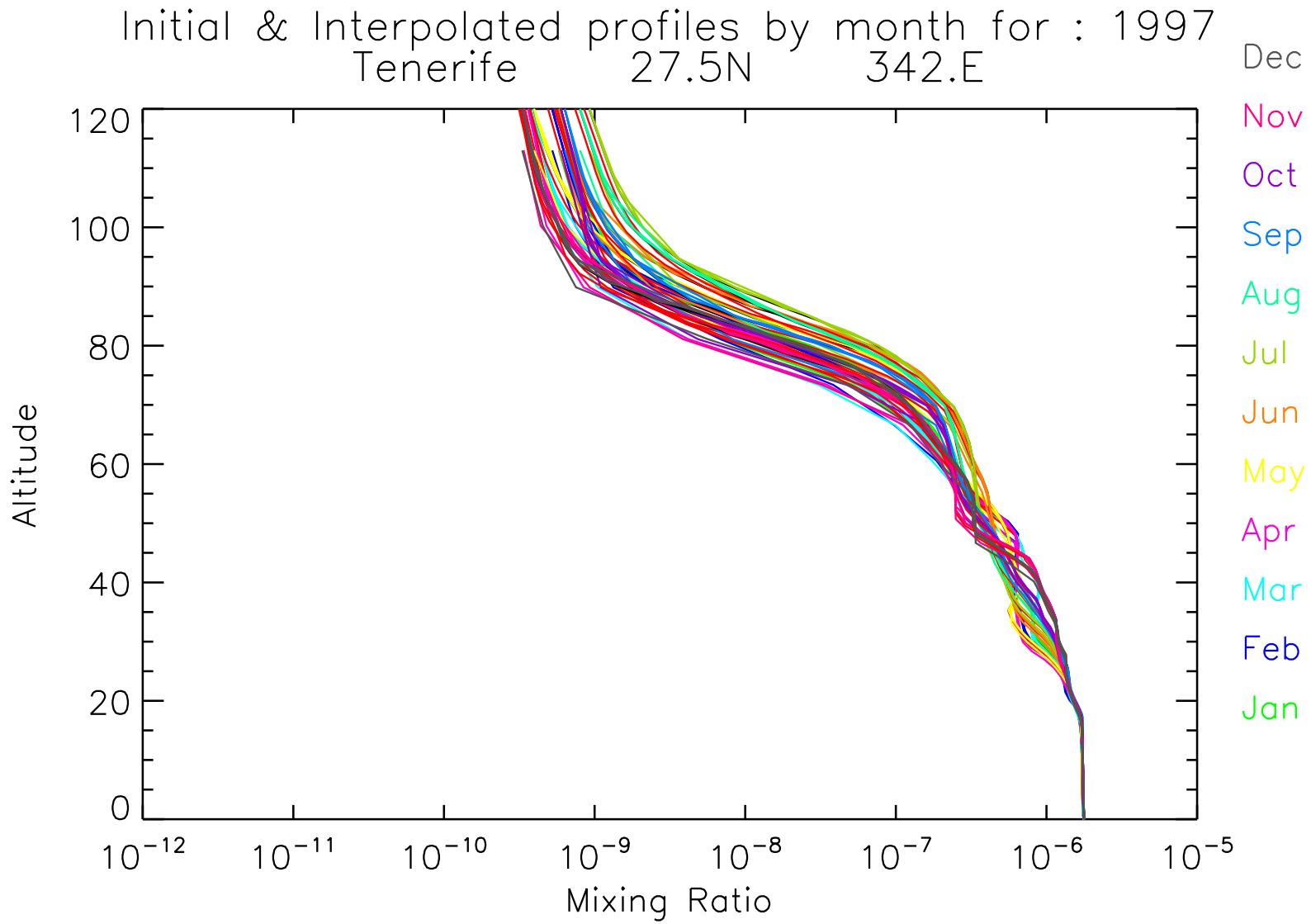
Initial & Interpolated profiles by month for : 1997
Tenerife 27.5N 342.E
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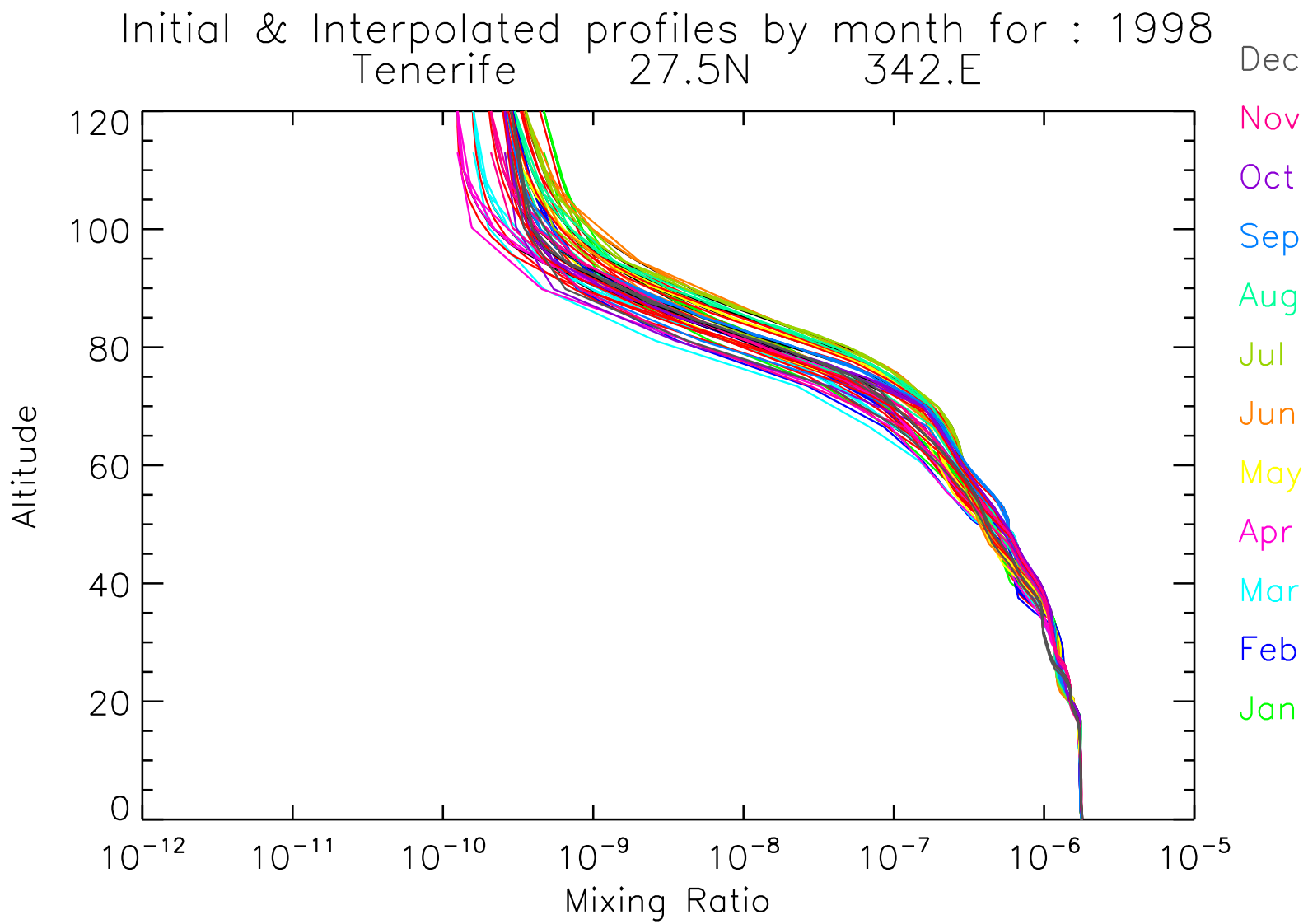
Initial & Interpolated profiles by month for : 1998
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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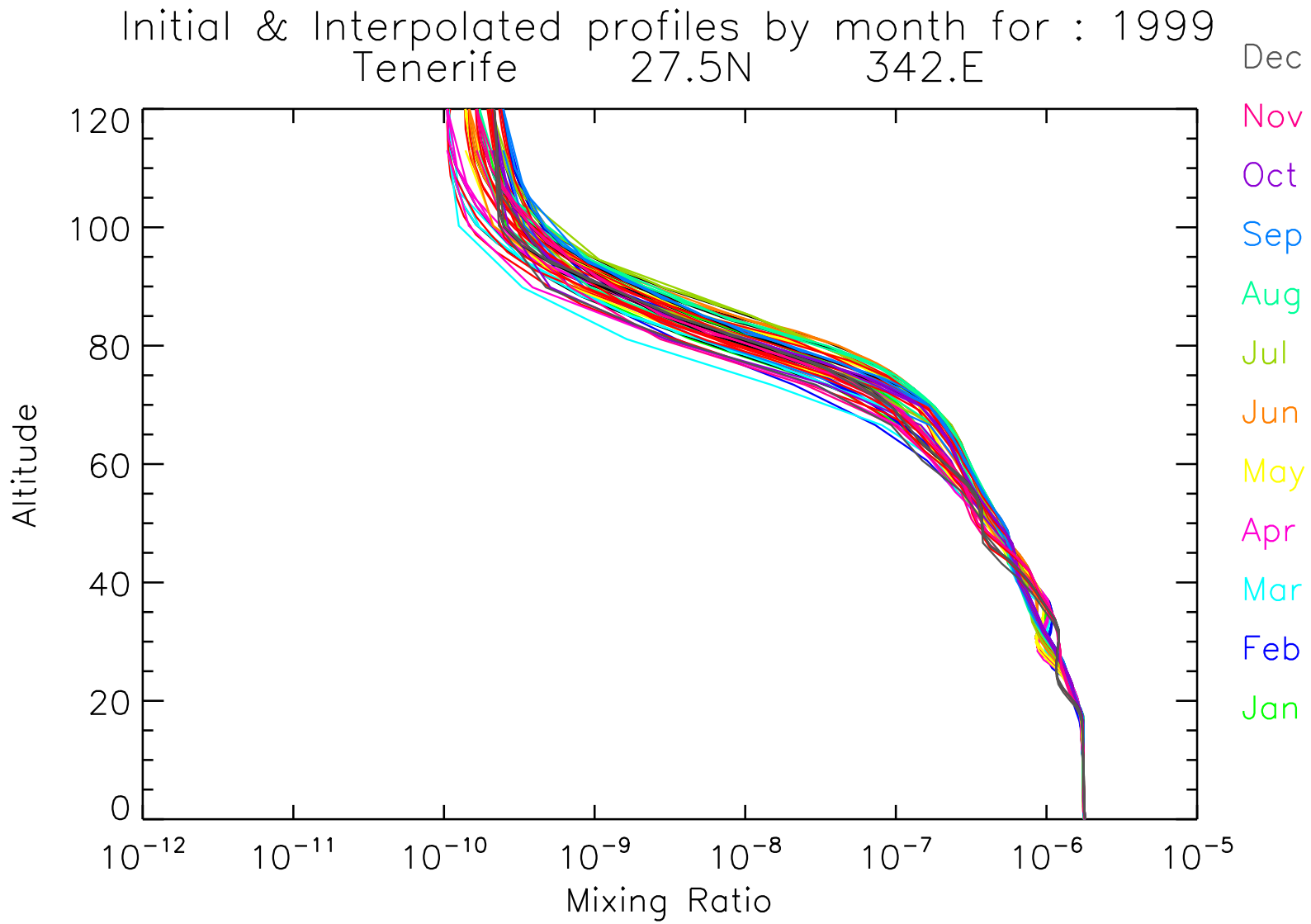
Initial & Interpolated profiles by month for : 1999
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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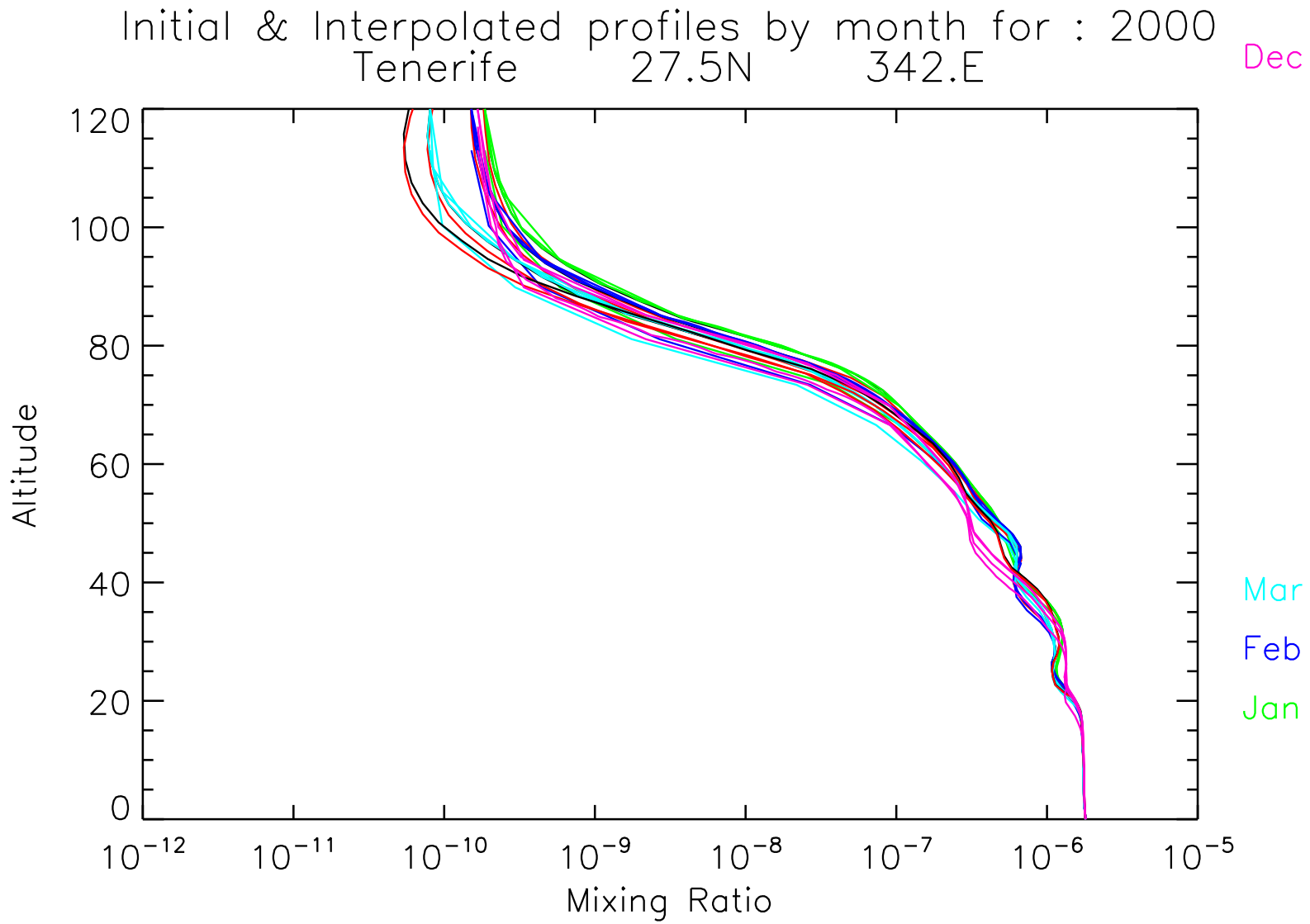
Initial & Interpolated profiles by month for : 2000
Tenerife 27.5N 342.E
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Altitude
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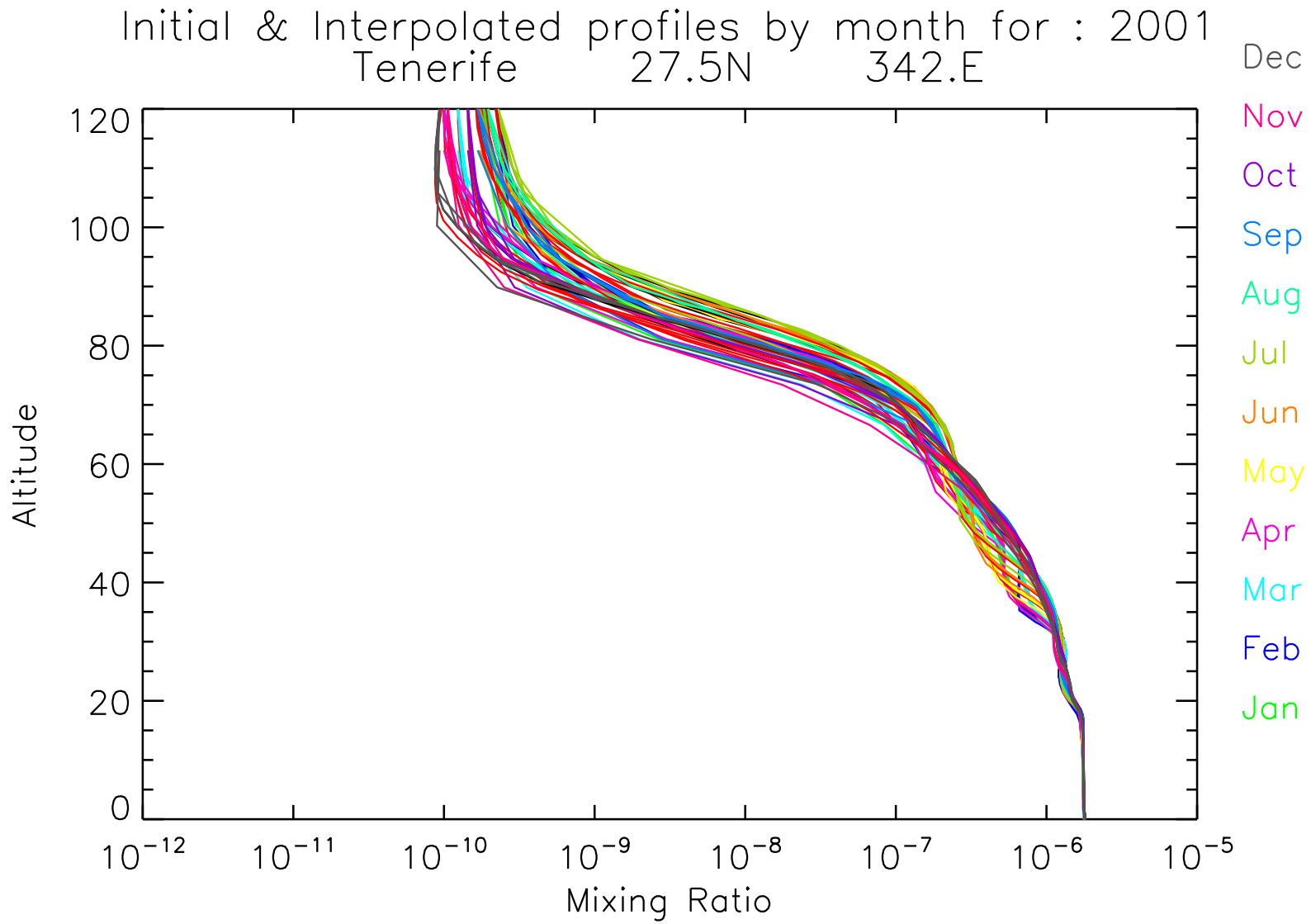
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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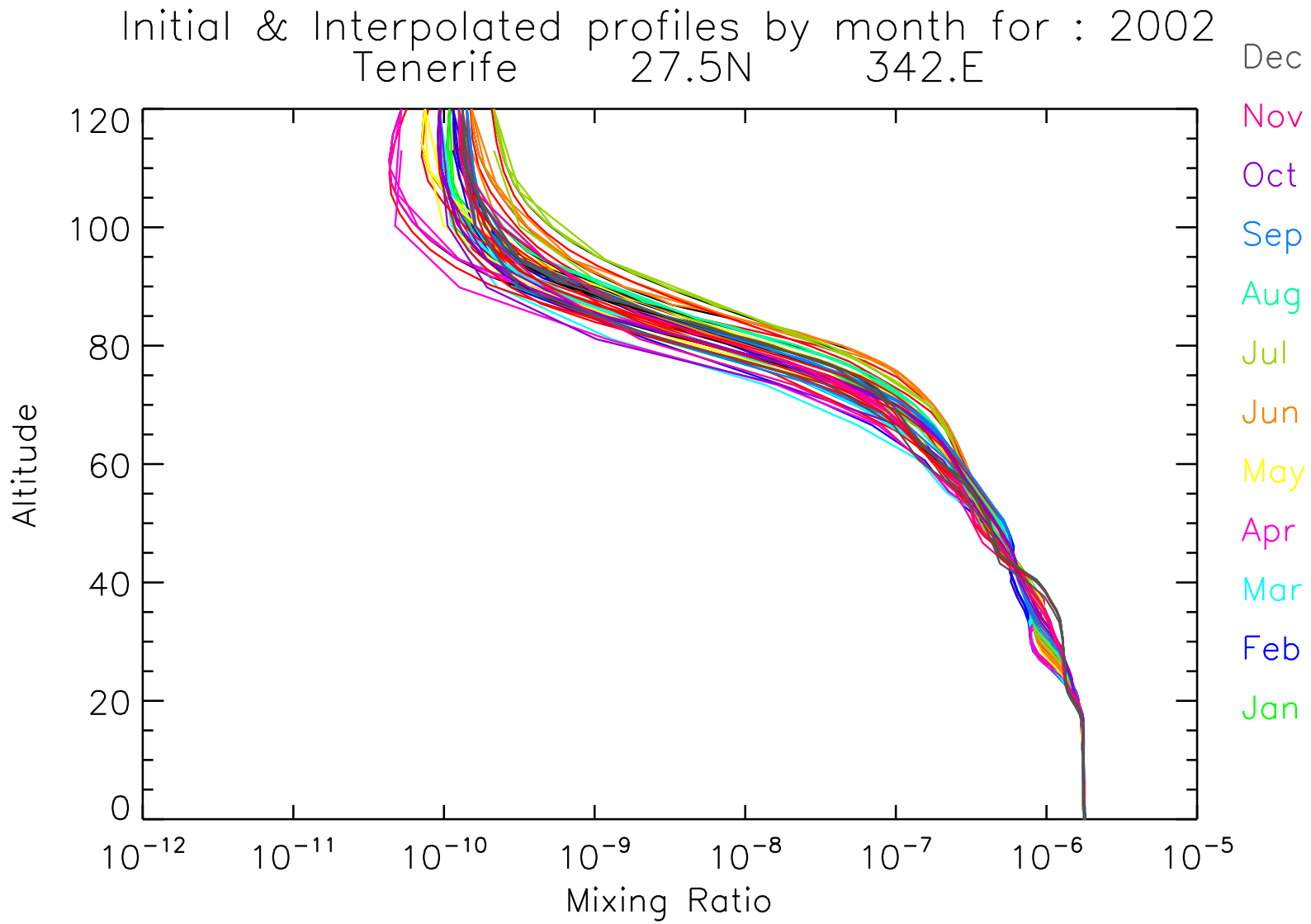
Initial & Interpolated profiles by month for : 2002
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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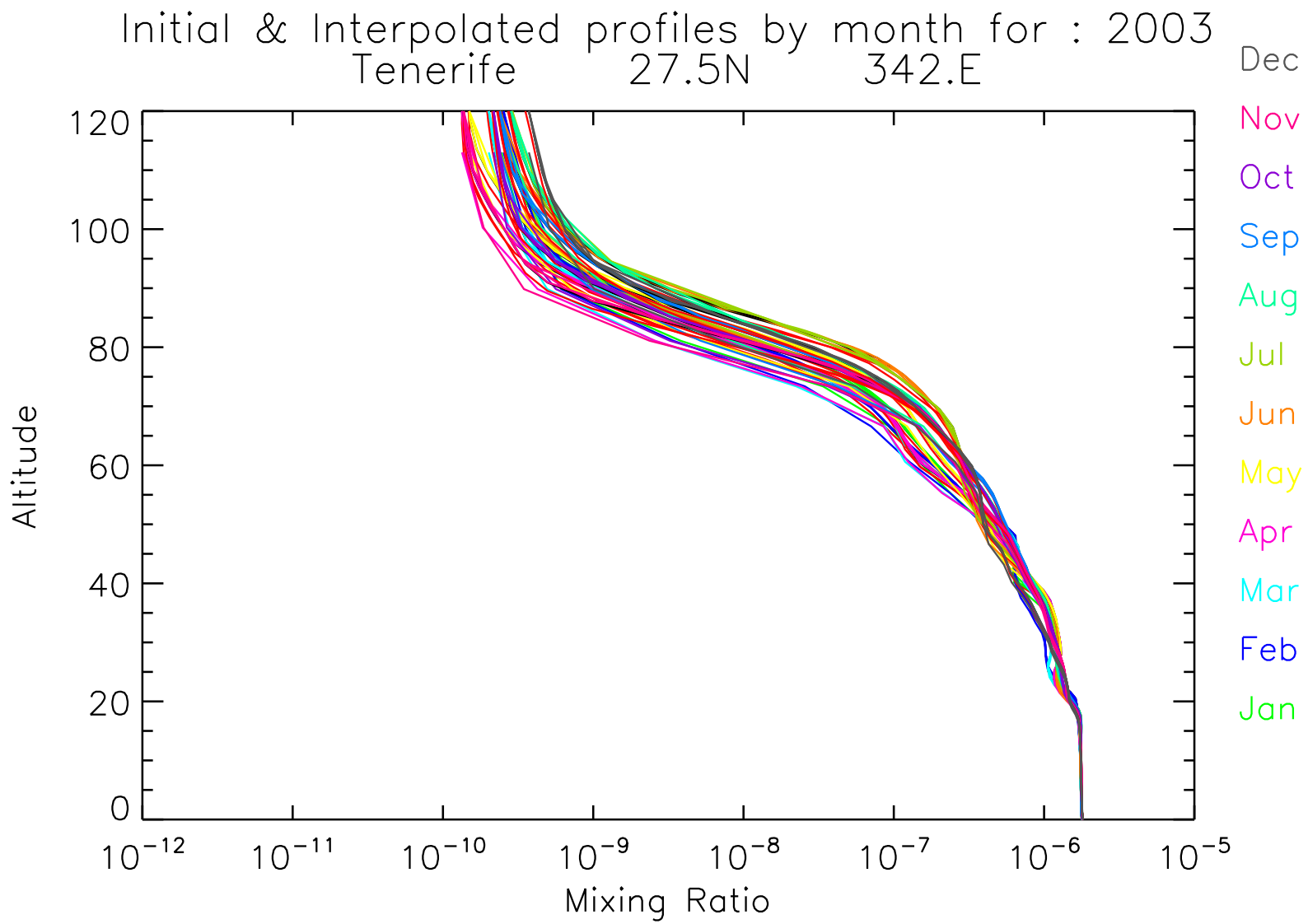
Initial & Interpolated profiles by month for : 2003
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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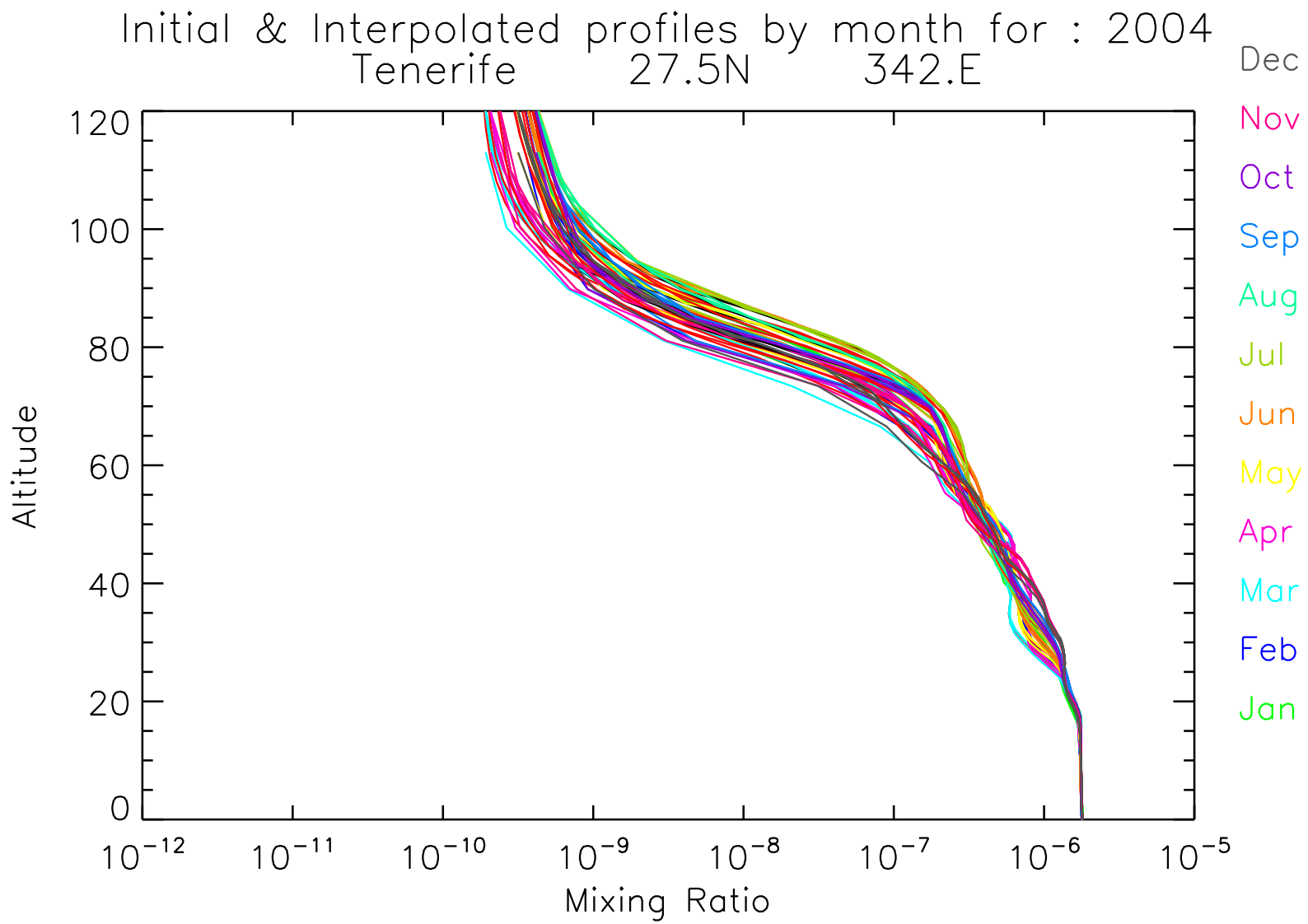
Initial & Interpolated profiles by month for : 2004
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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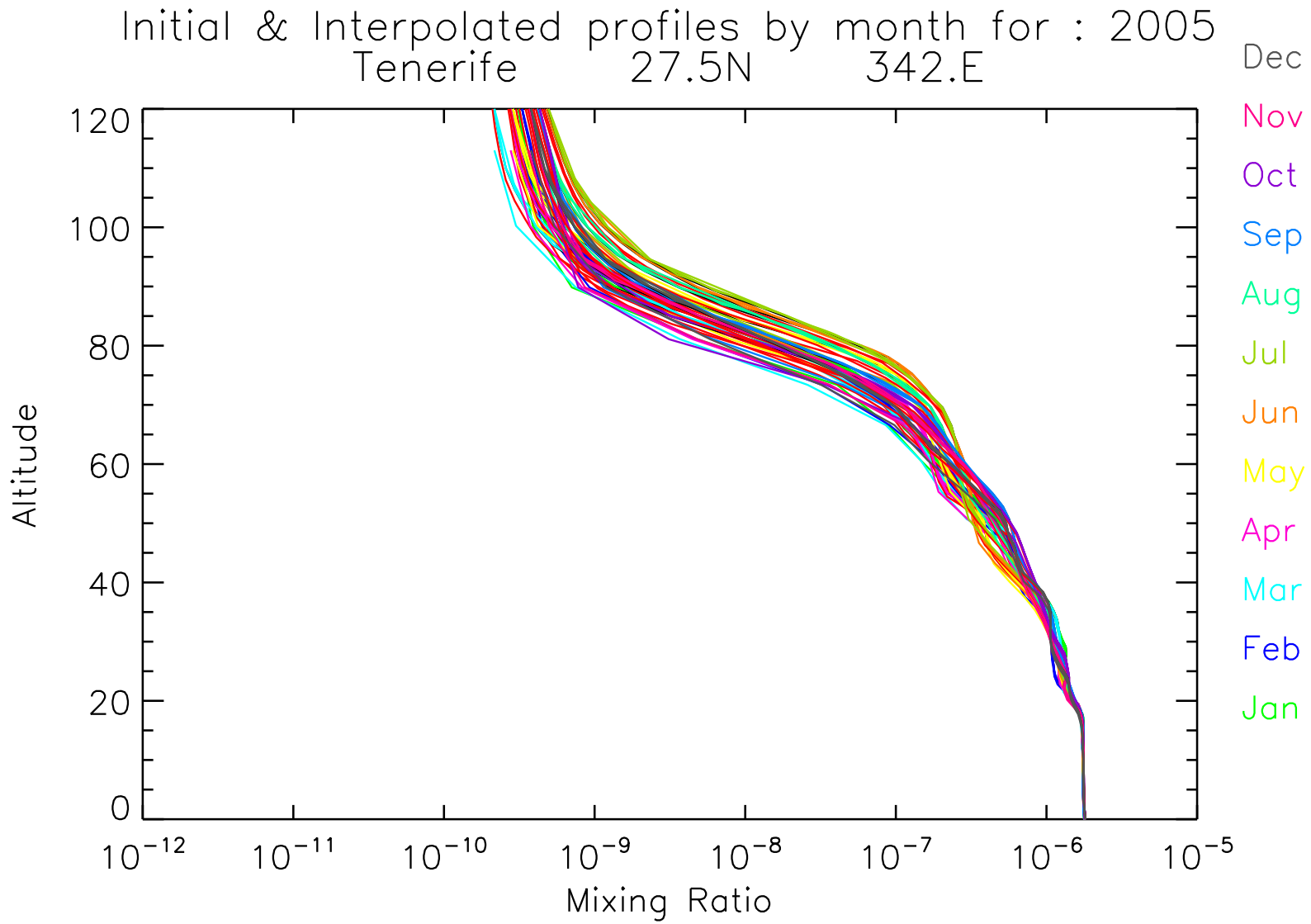
Initial & Interpolated profiles by month for : 2005
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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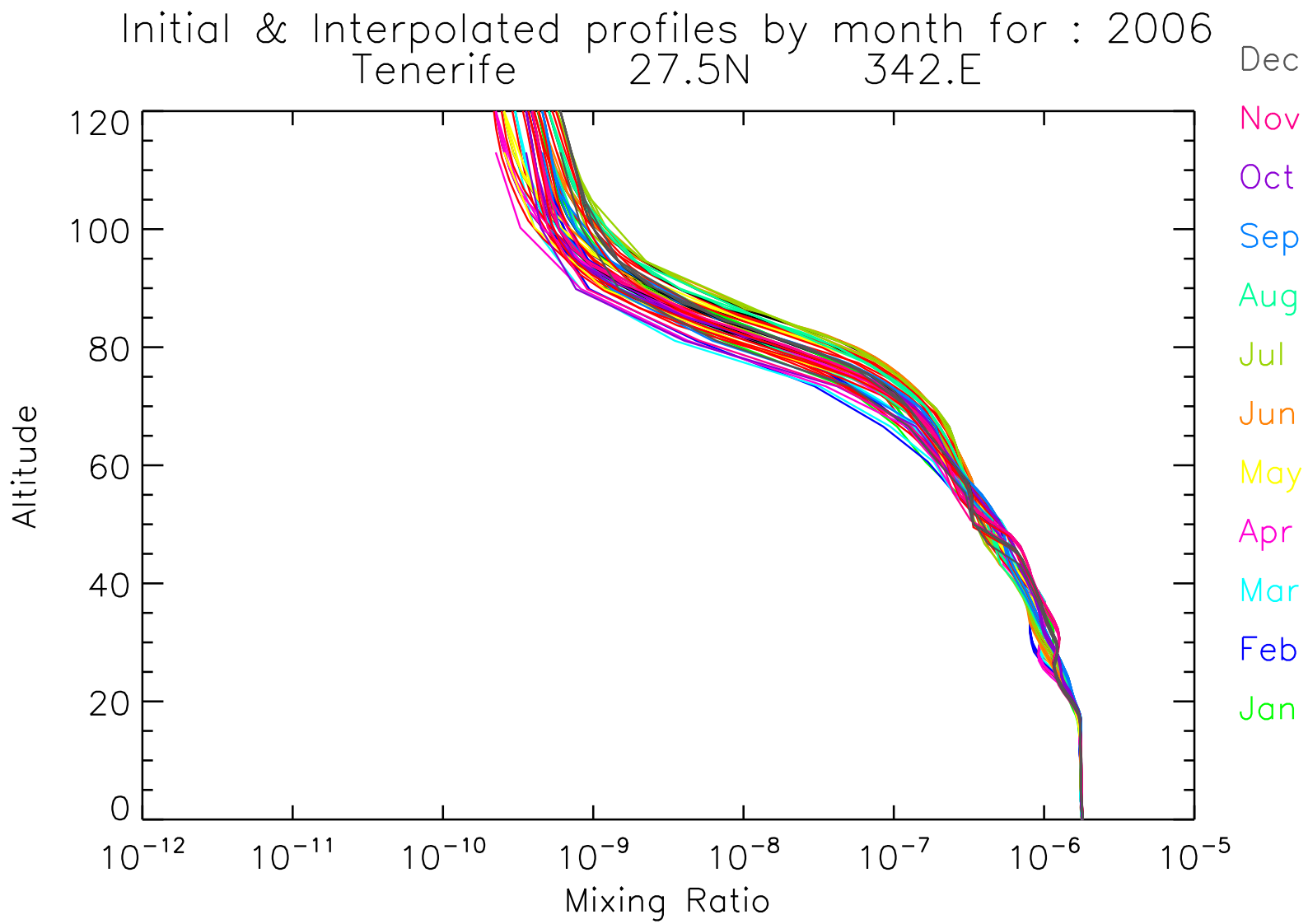
Initial & Interpolated profiles by month for : 2006
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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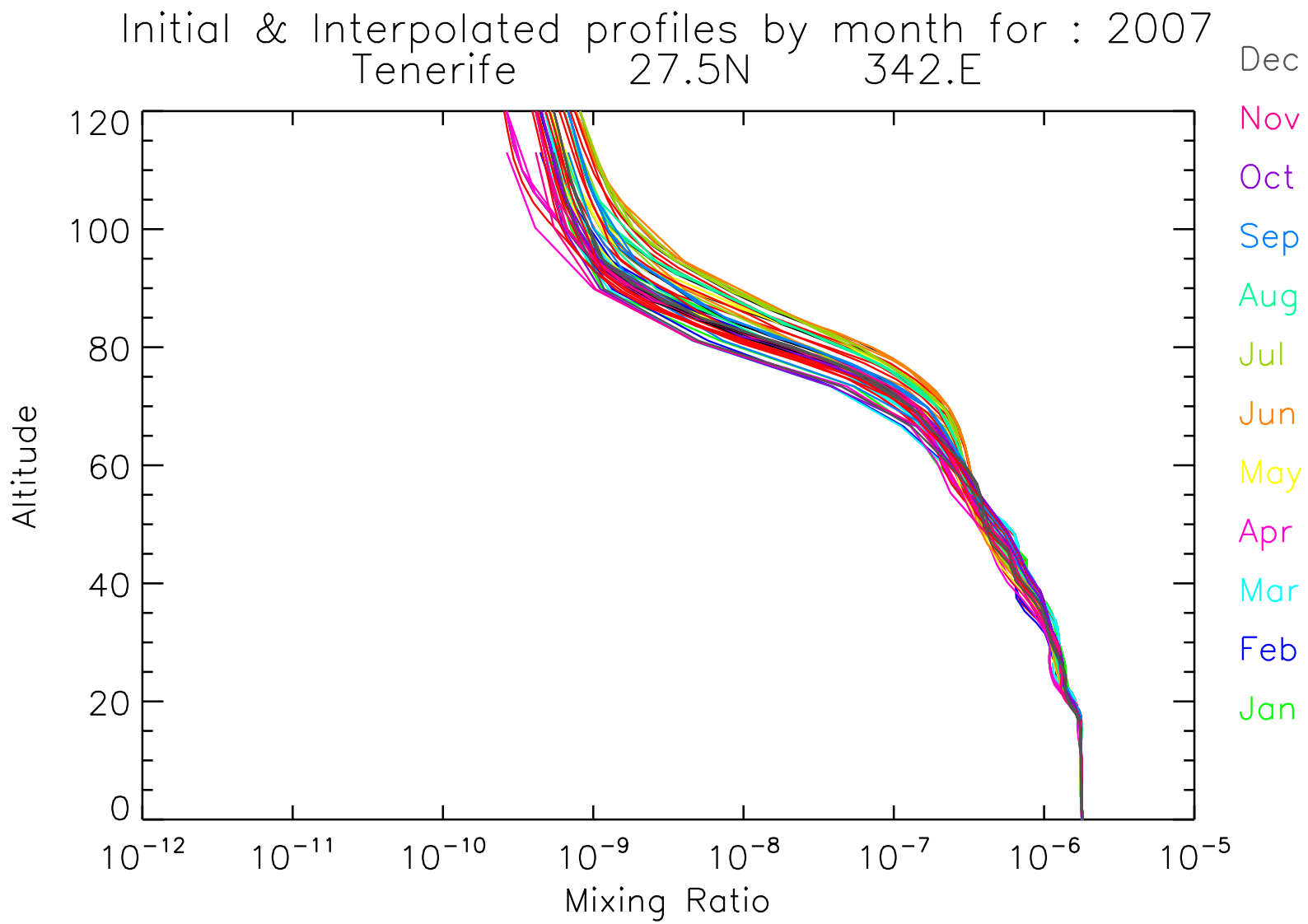
Initial & Interpolated profiles by month for : 2007
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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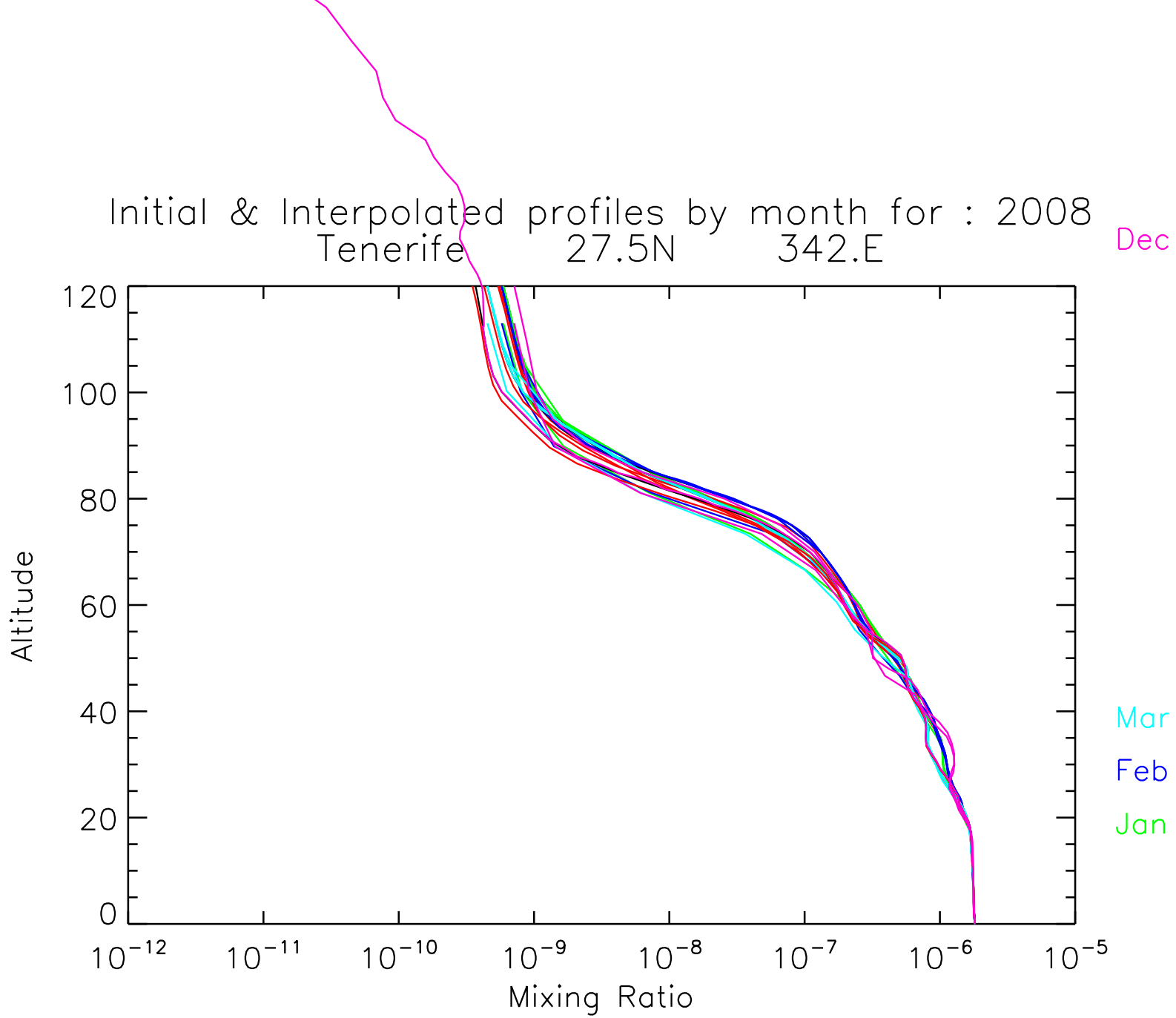
Initial & Interpolated profiles by month for : 2008
Tenerife 27.5N 342.E
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Altitude
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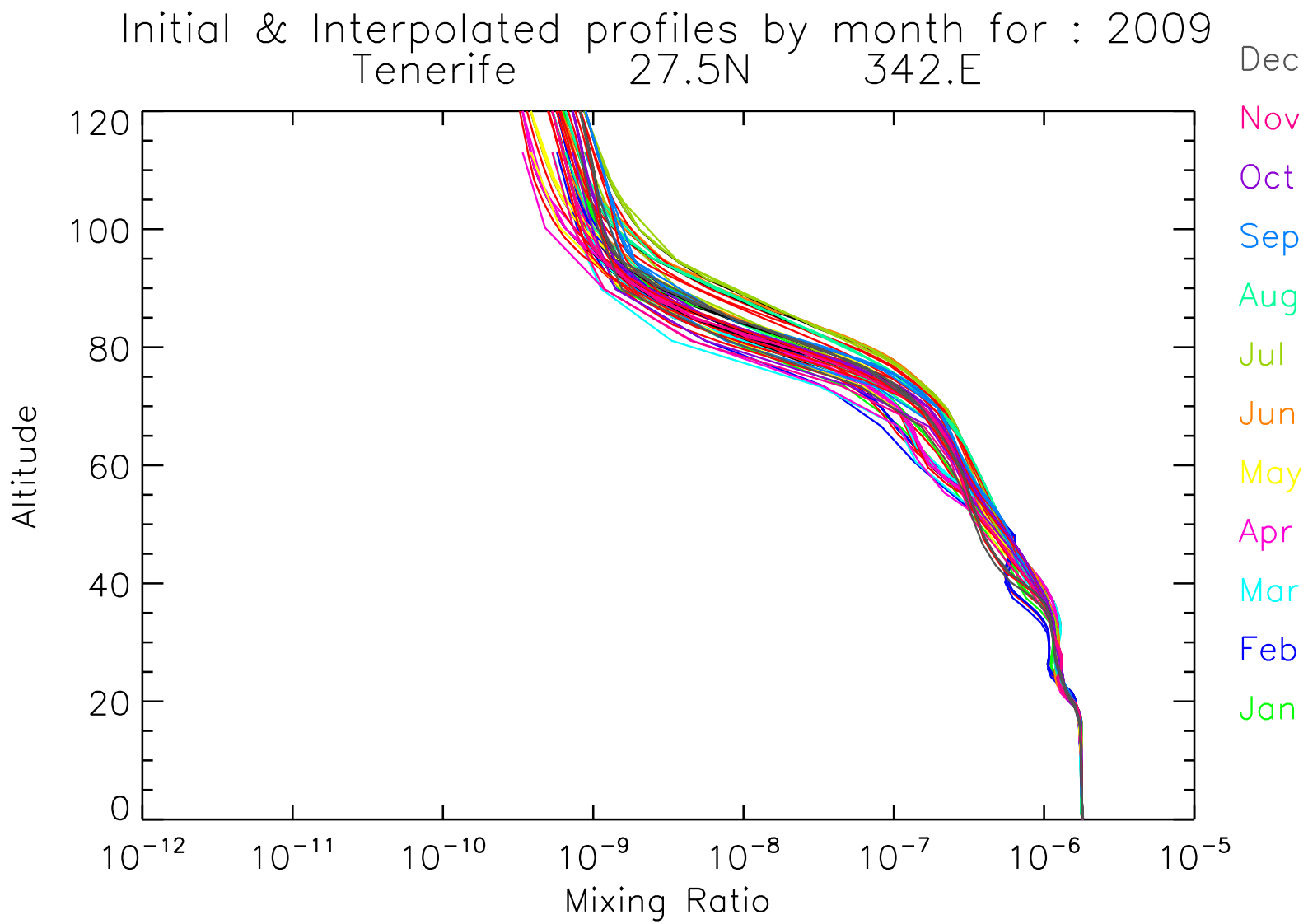
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Tenerife 27.5N 342.E
Altitude
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Mixing Ratio
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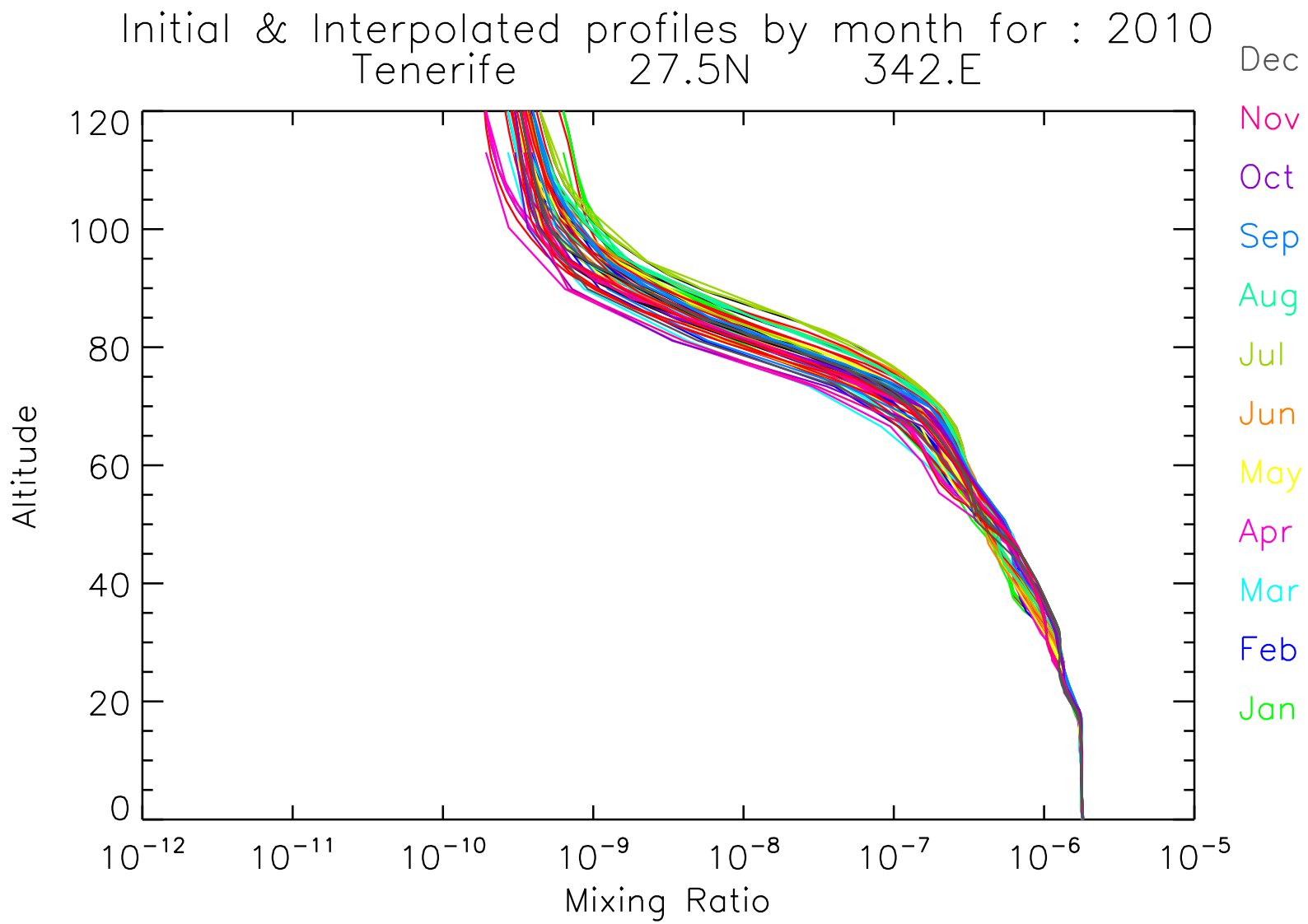
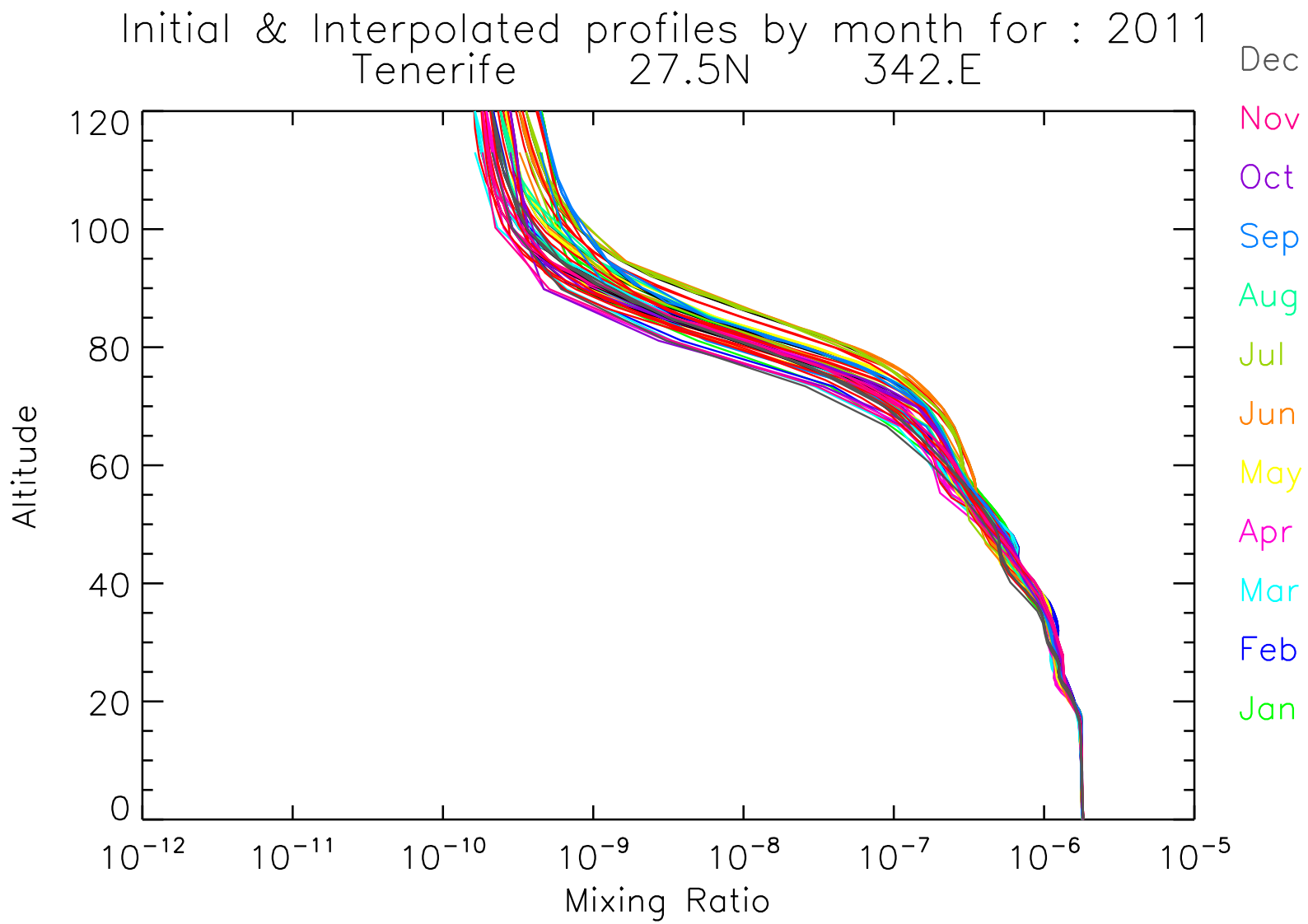
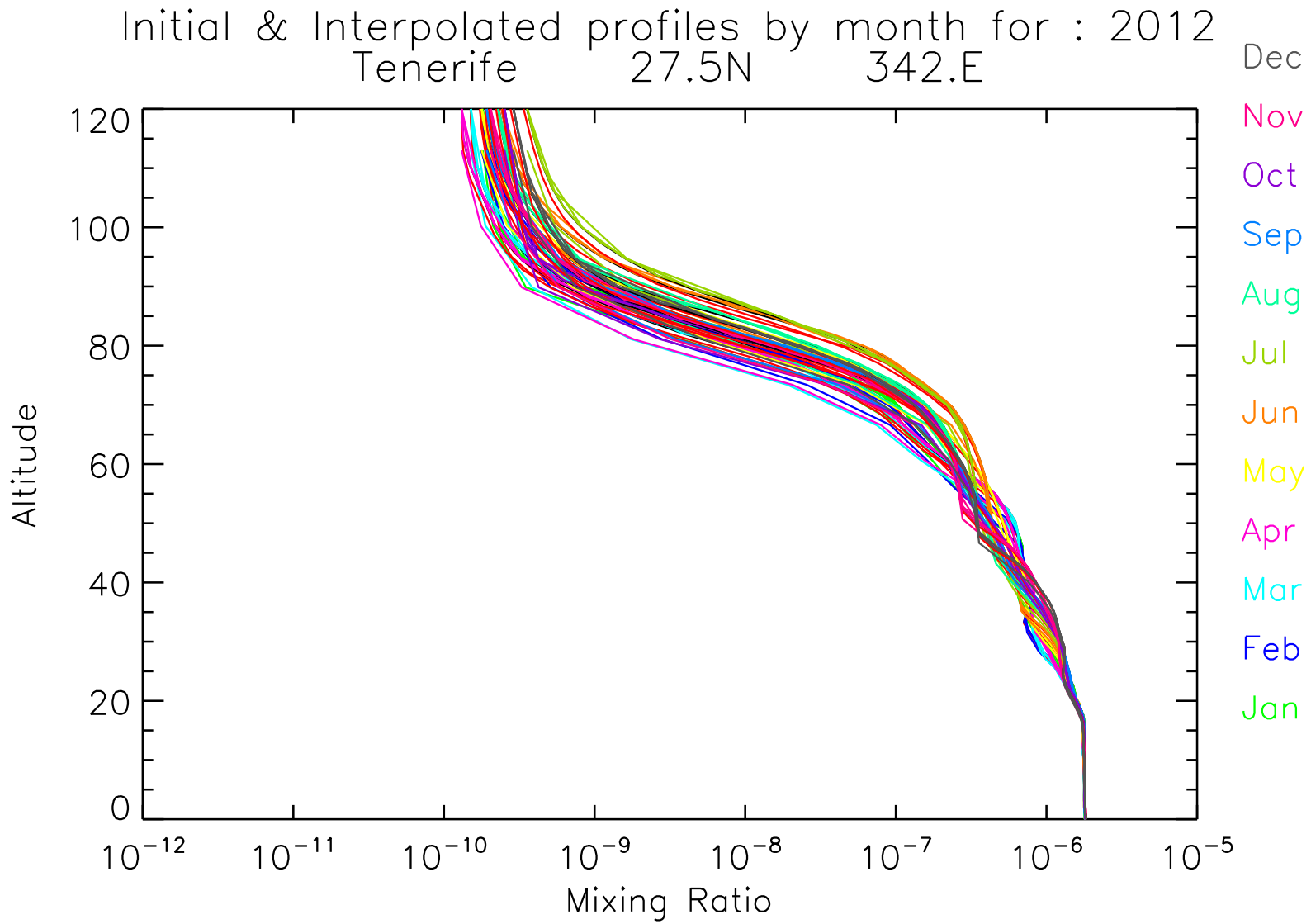
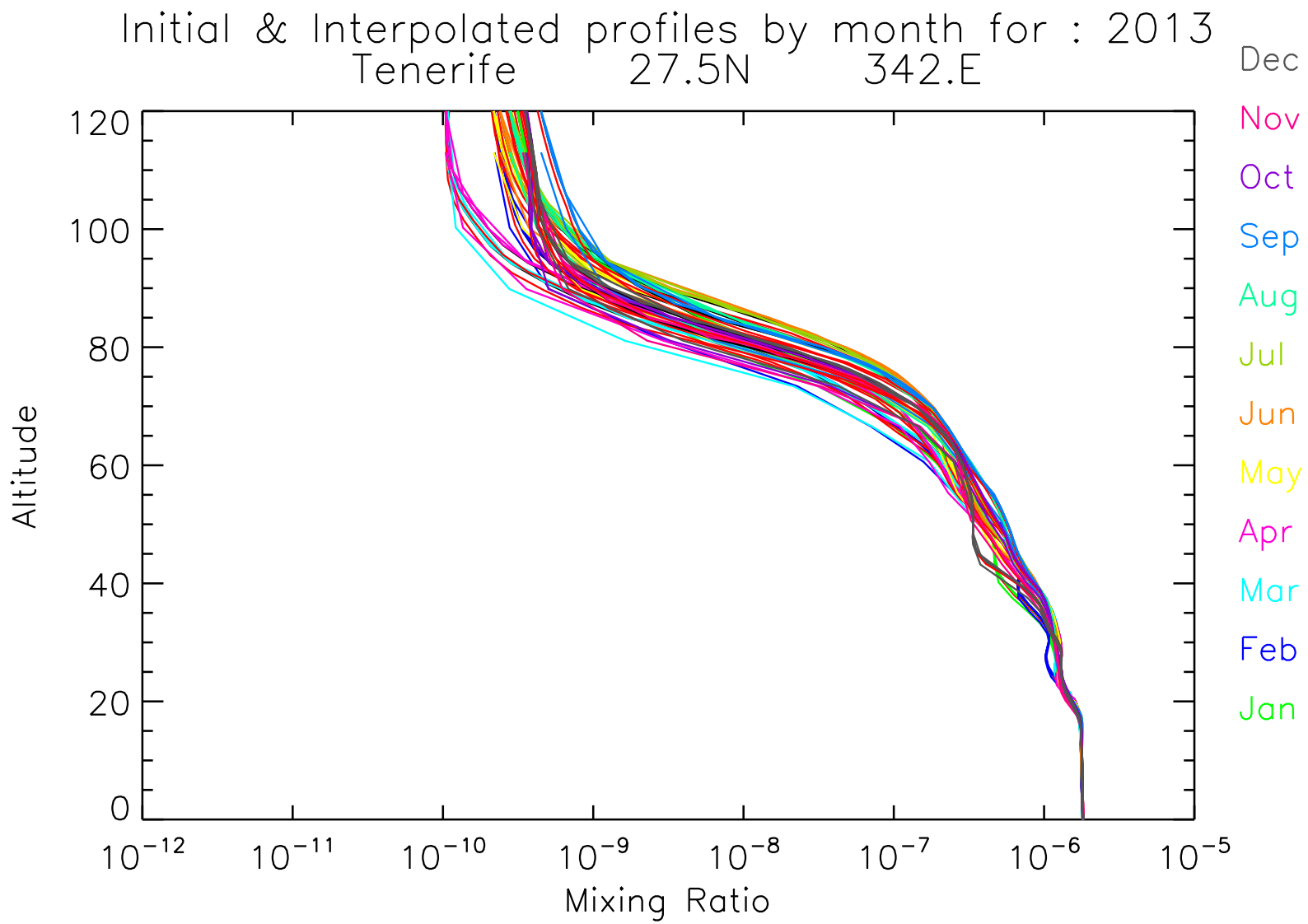
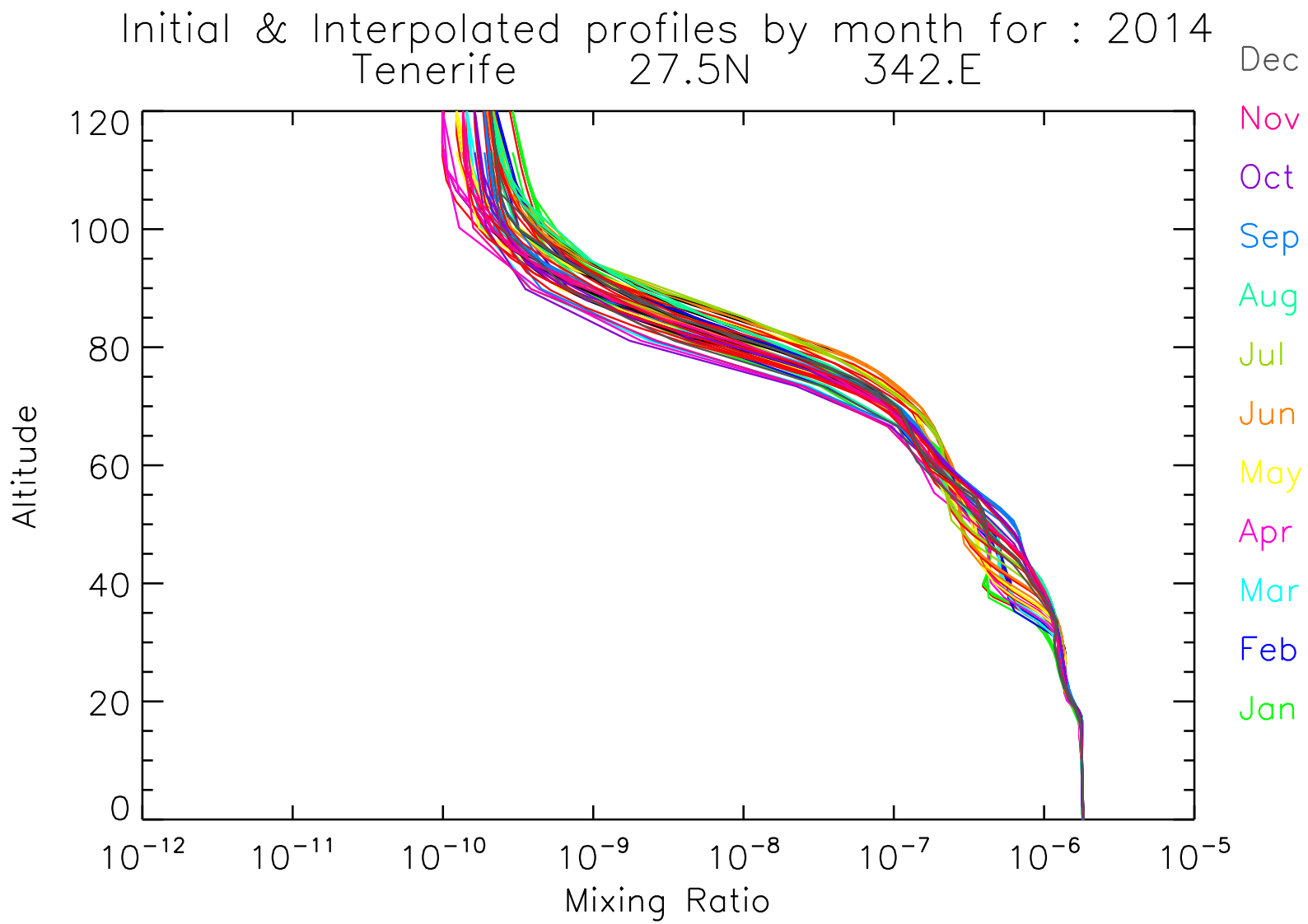
Feb
Jan

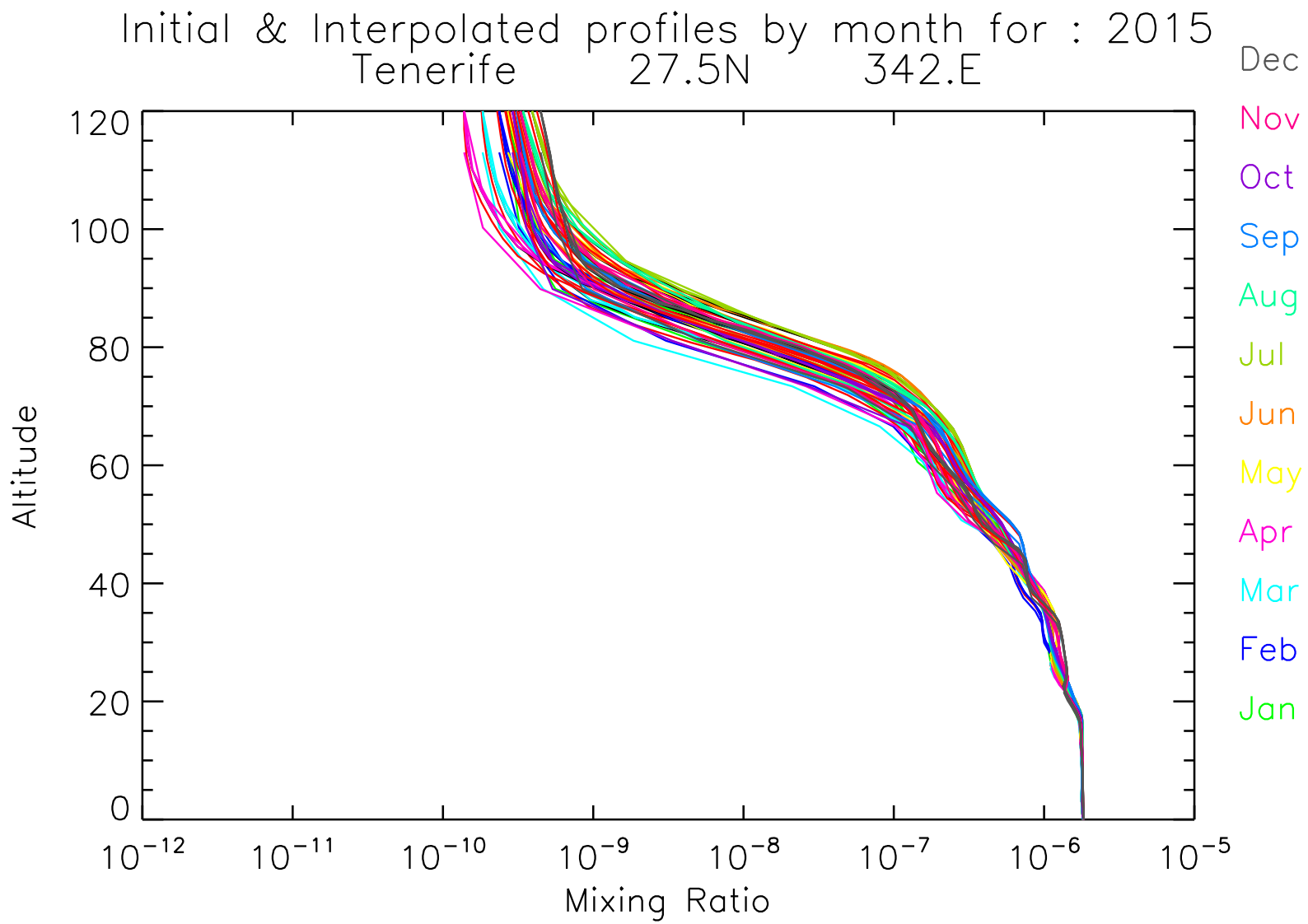

Initial & Interpolated profiles by month for : 2010
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

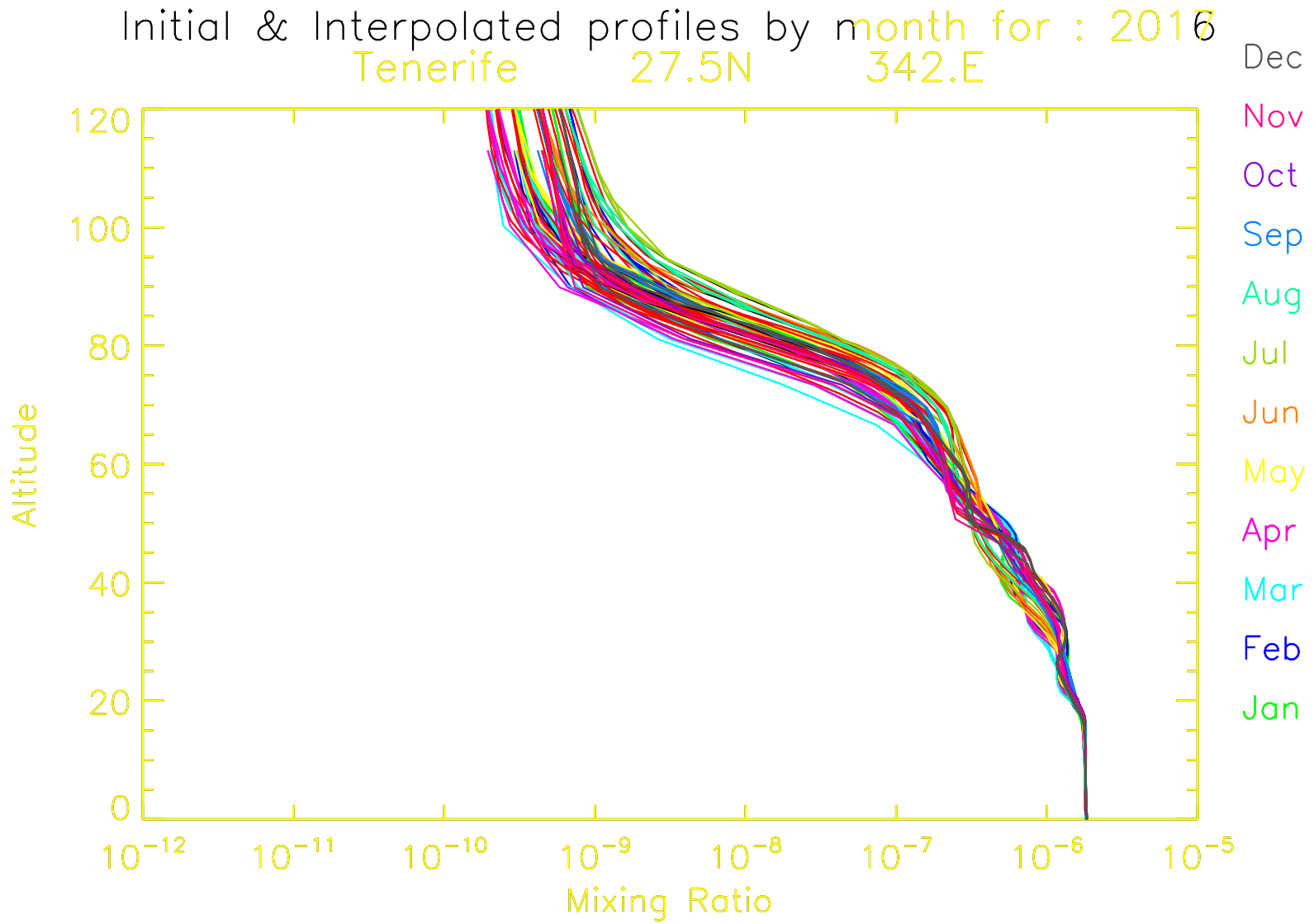

Initial & Interpolated profiles by month for : 2011
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

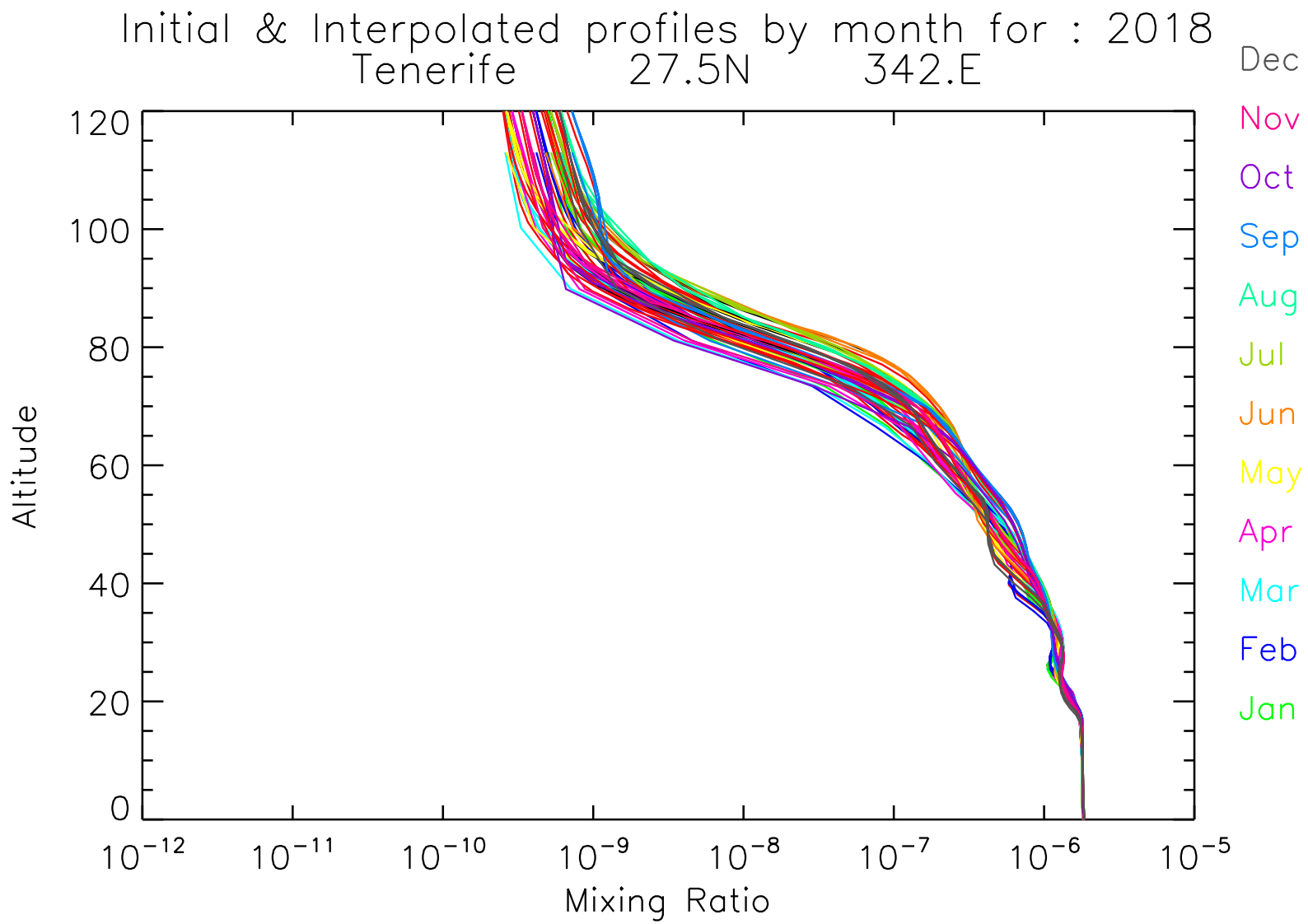

Initial & Interpolated profiles by month for : 2012
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

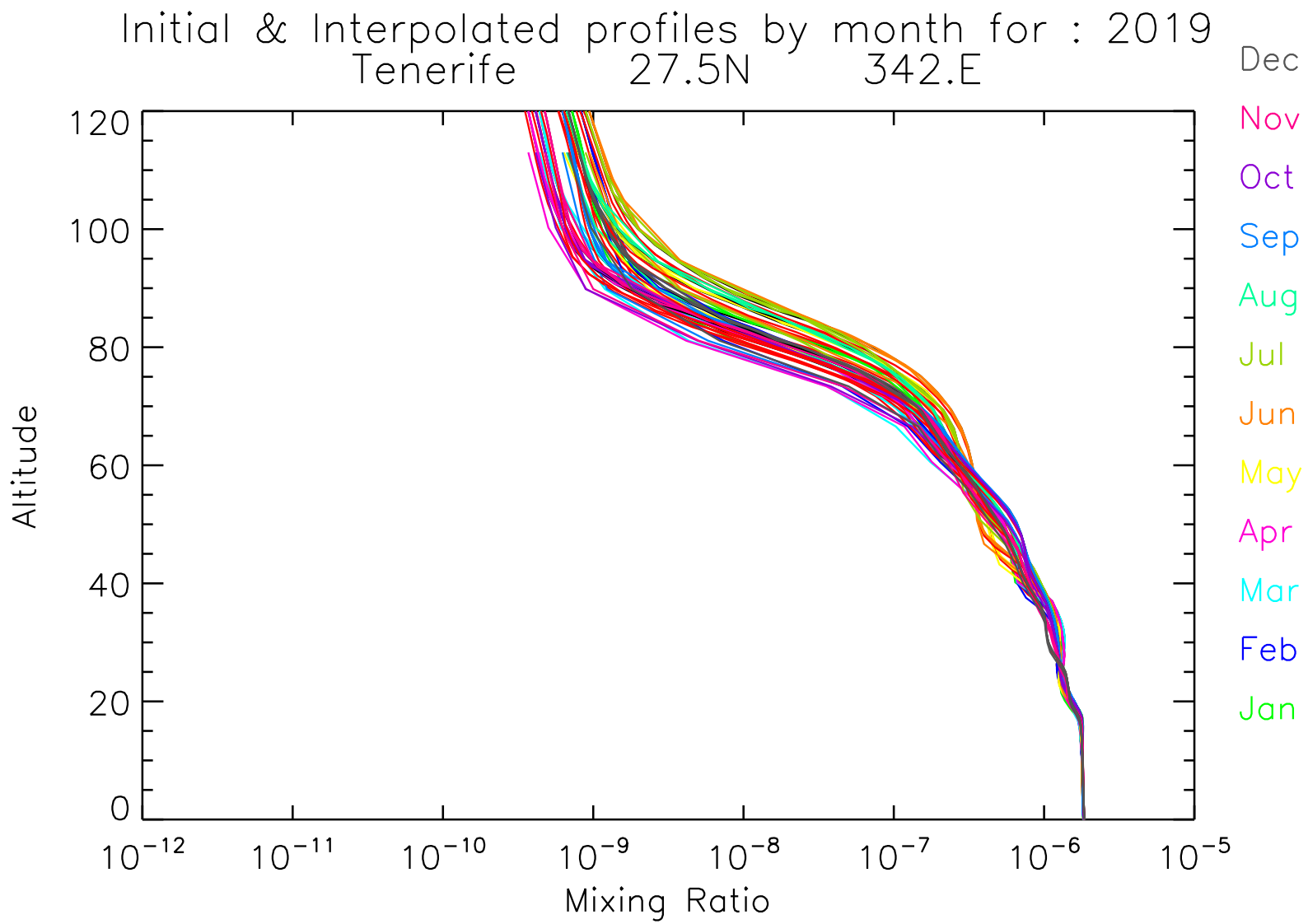

Initial & Interpolated profiles by month for : 2013
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

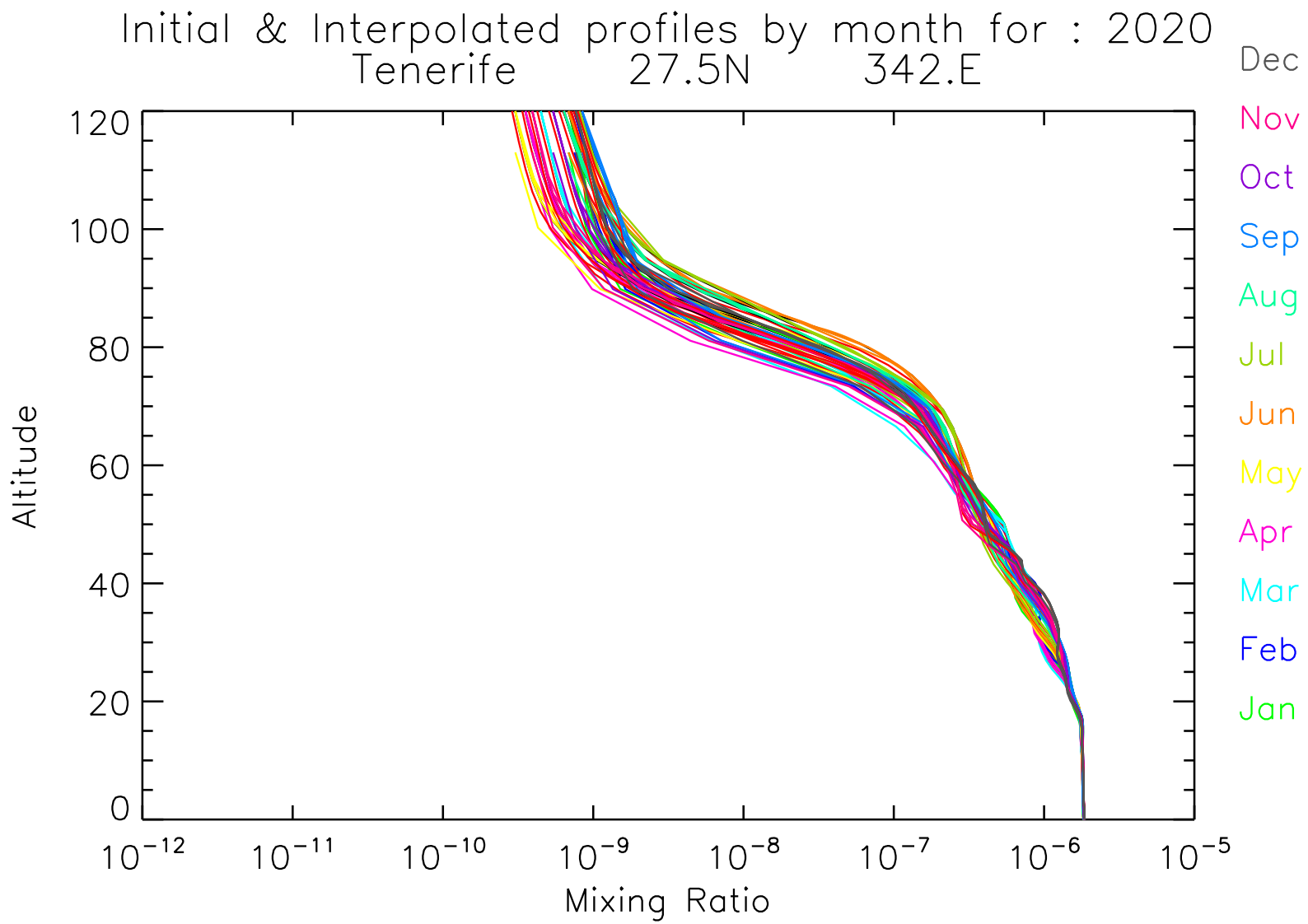

Initial & Interpolated profiles by month for : 2014
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

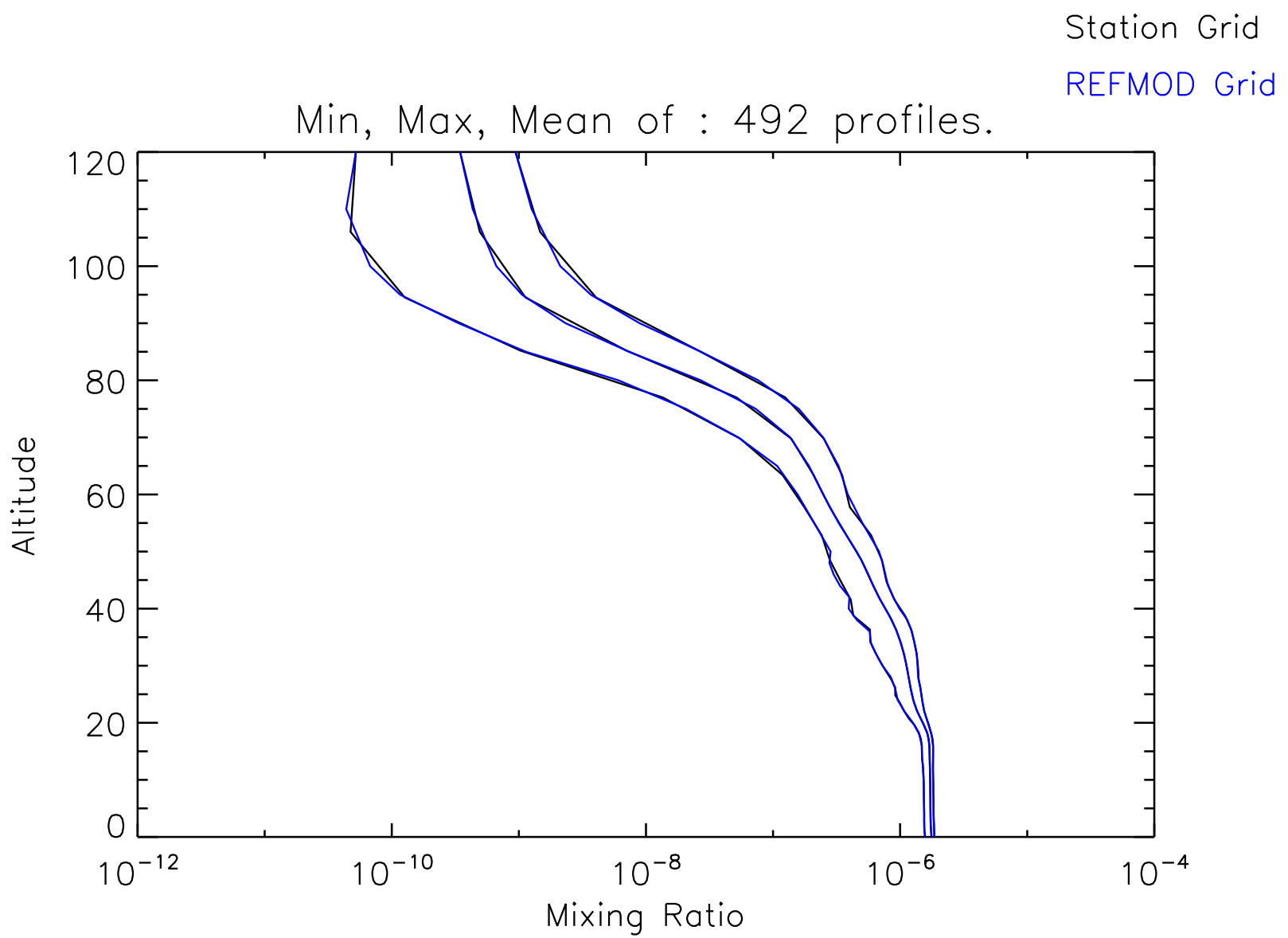

Initial & Interpolated profiles by month for : 2015
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

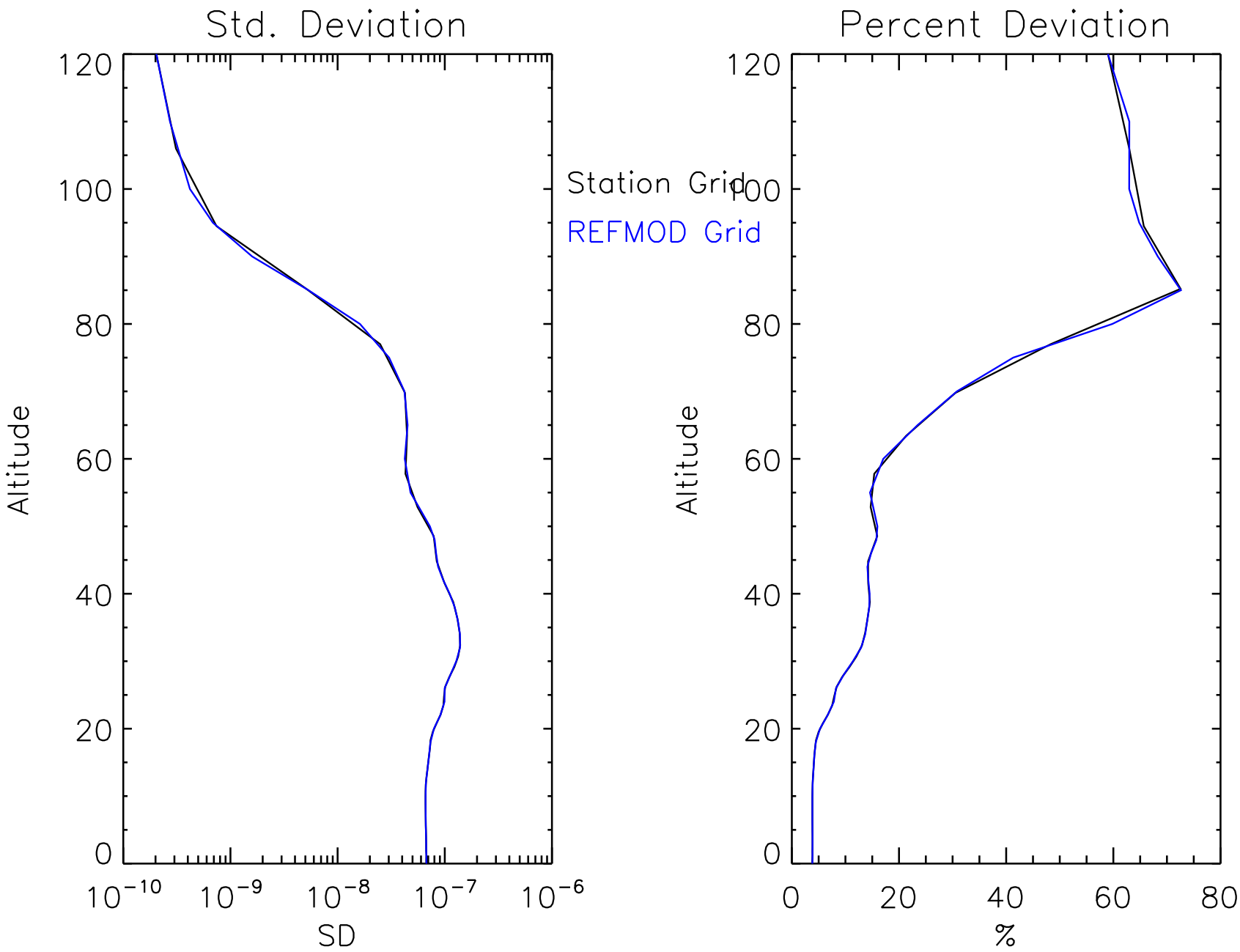

Initial & Interpolated profiles by month for : 2016
Tenerife 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio

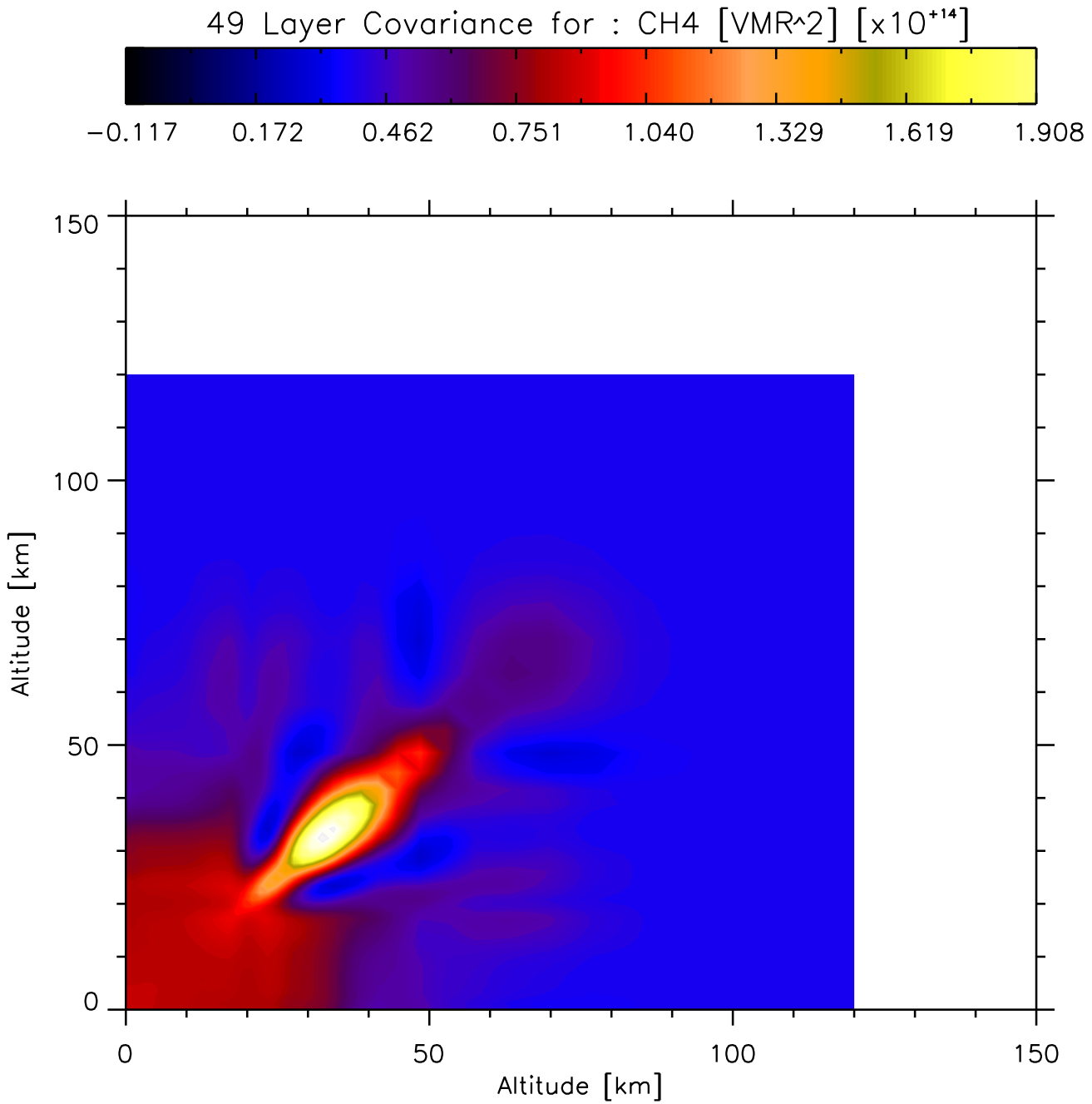

Initial & Interpolated profiles by month for : 2018
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

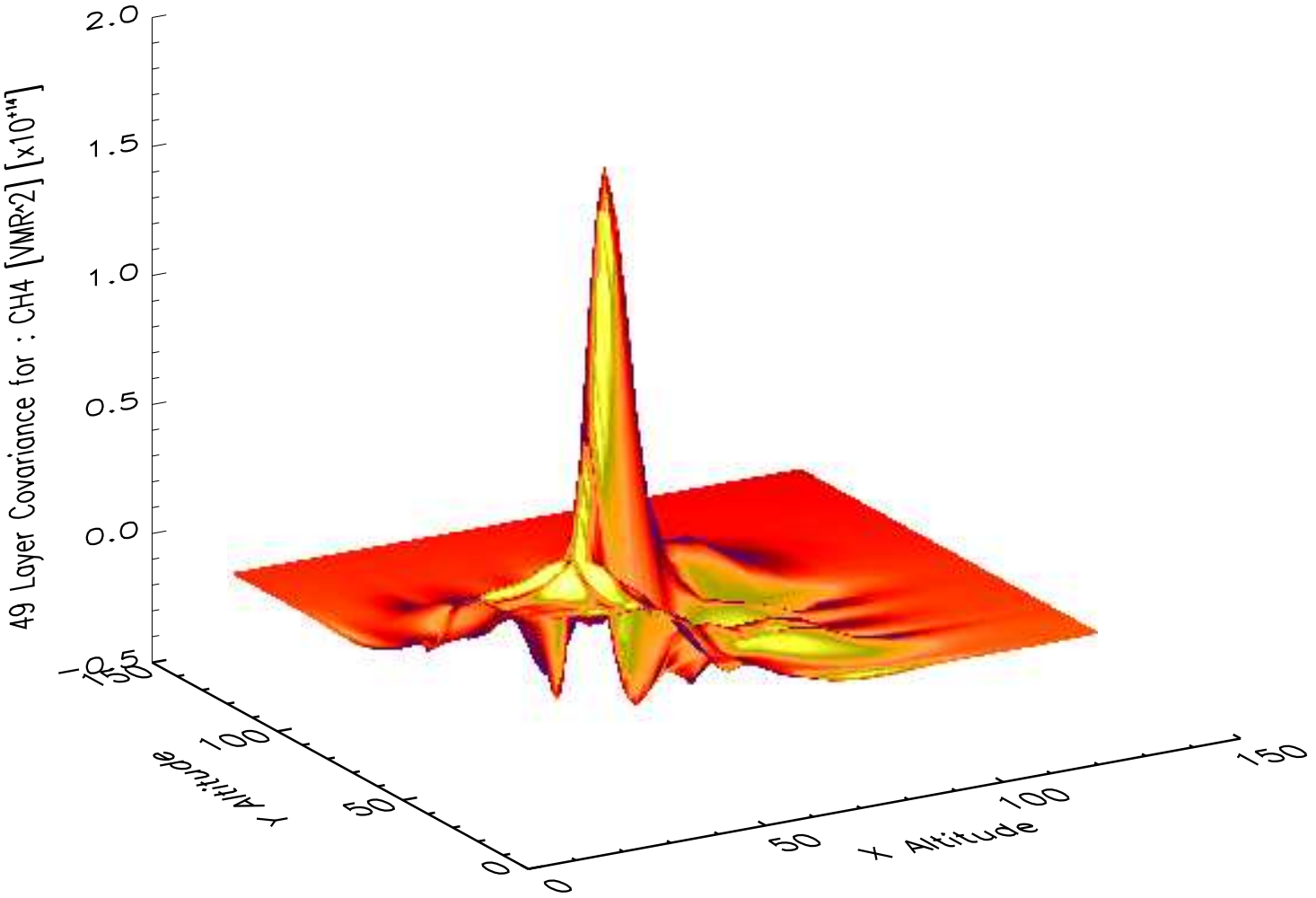

Initial & Interpolated profiles by month for : 2019
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

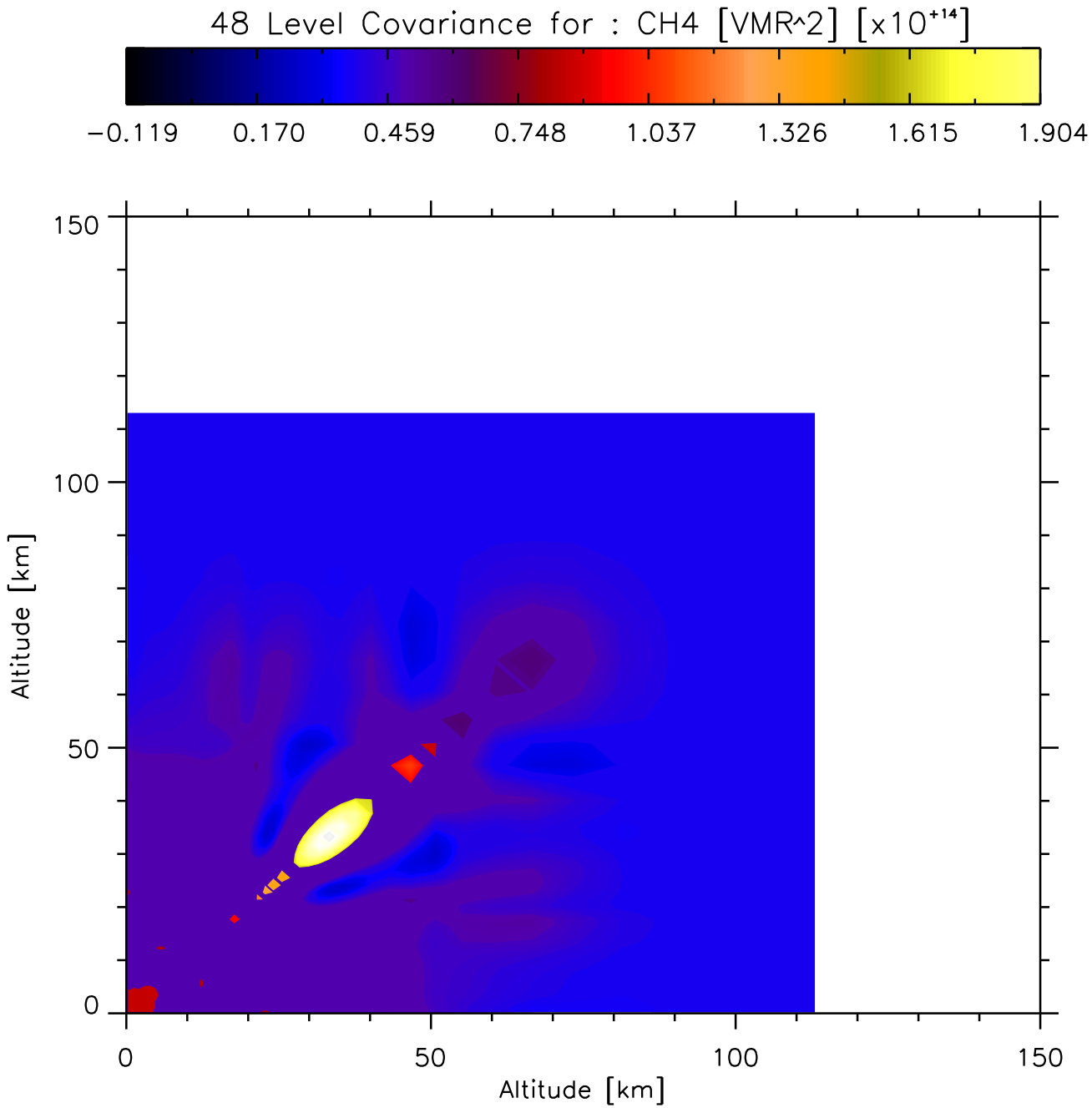

Initial & Interpolated profiles by month for : 2020
Tenerife 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


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
%


49 Layer Covariance for : CH4 [VMR^2] [x10^+14]
−0.117
0.172
0.462
0.751
1.040
1.329
1.619
1.908
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


49 Layer Covariance for : CH4 [VMR^2] [x10^14]
2.0
1.5
1.0
0.5
0.0
-0.5
150
100
50
0
Y Altitude
0
50
100
150
X Altitude


48 Level Covariance for : CH4 [VMR^2] [x10^+14]
−0.119
0.170
0.459
0.748
1.037
1.326
1.615
1.904
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : CH4 [VMR^2] [x10^+14]
-0.5
0.0
0.5
1.0
1.5
2.0
Y Altitude
0
50
100
0
50
100
X Altitude