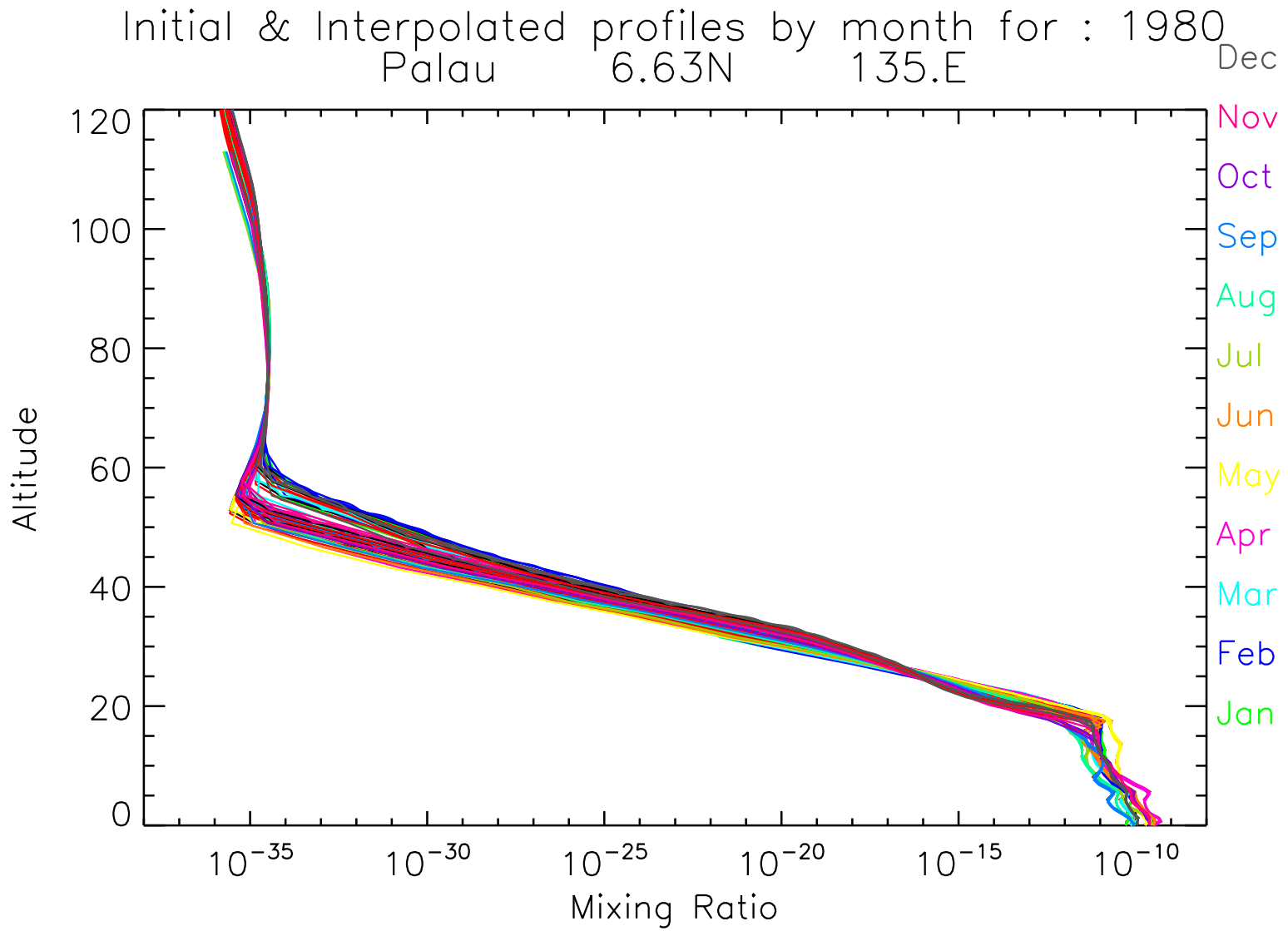
Initial & Interpolated profiles by month for : 1980
Palau 6.63N 135.E
Dec
Nov
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Altitude
120
100
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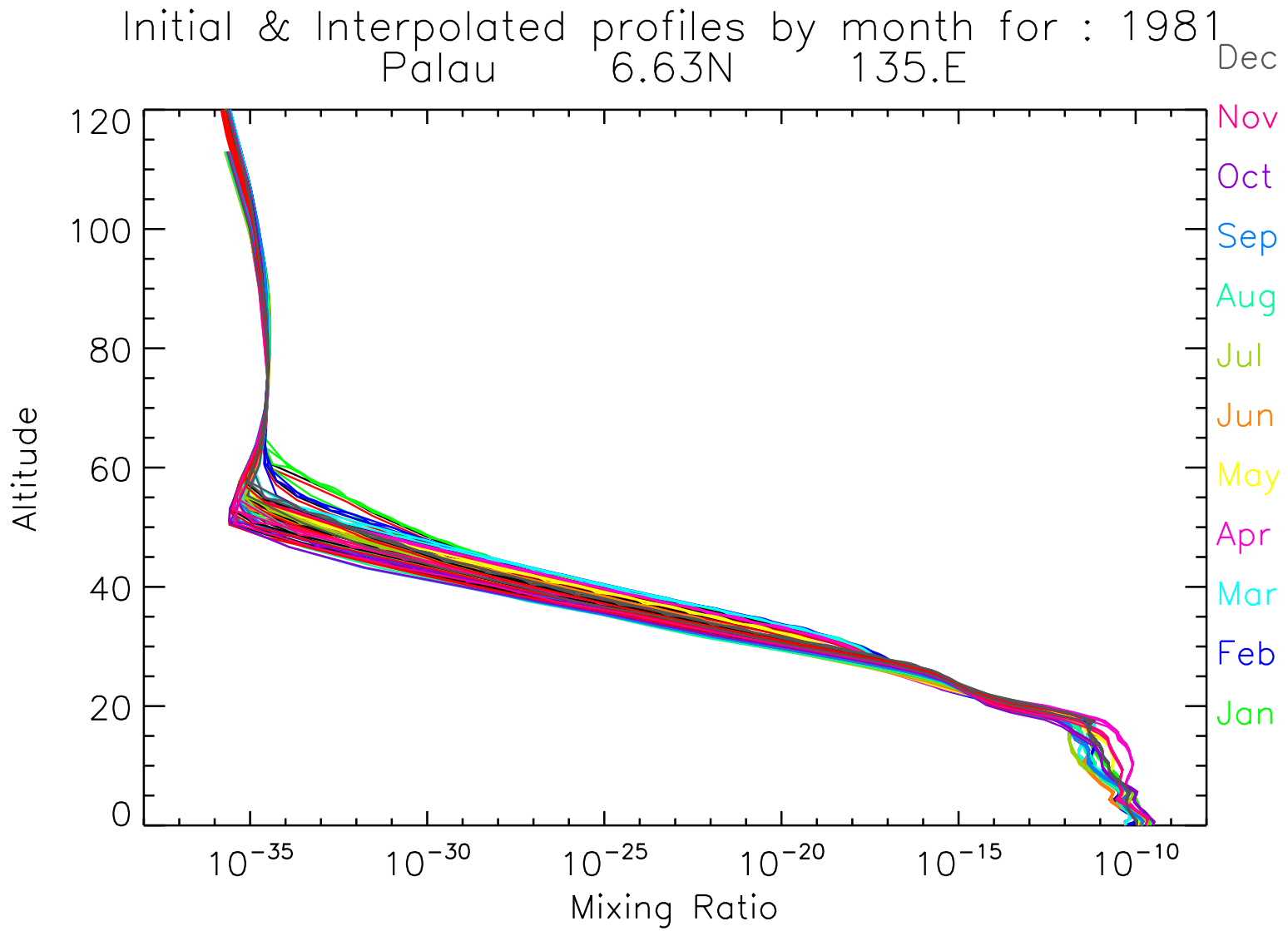
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Palau 6.63N 135.E
Dec
Nov
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Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
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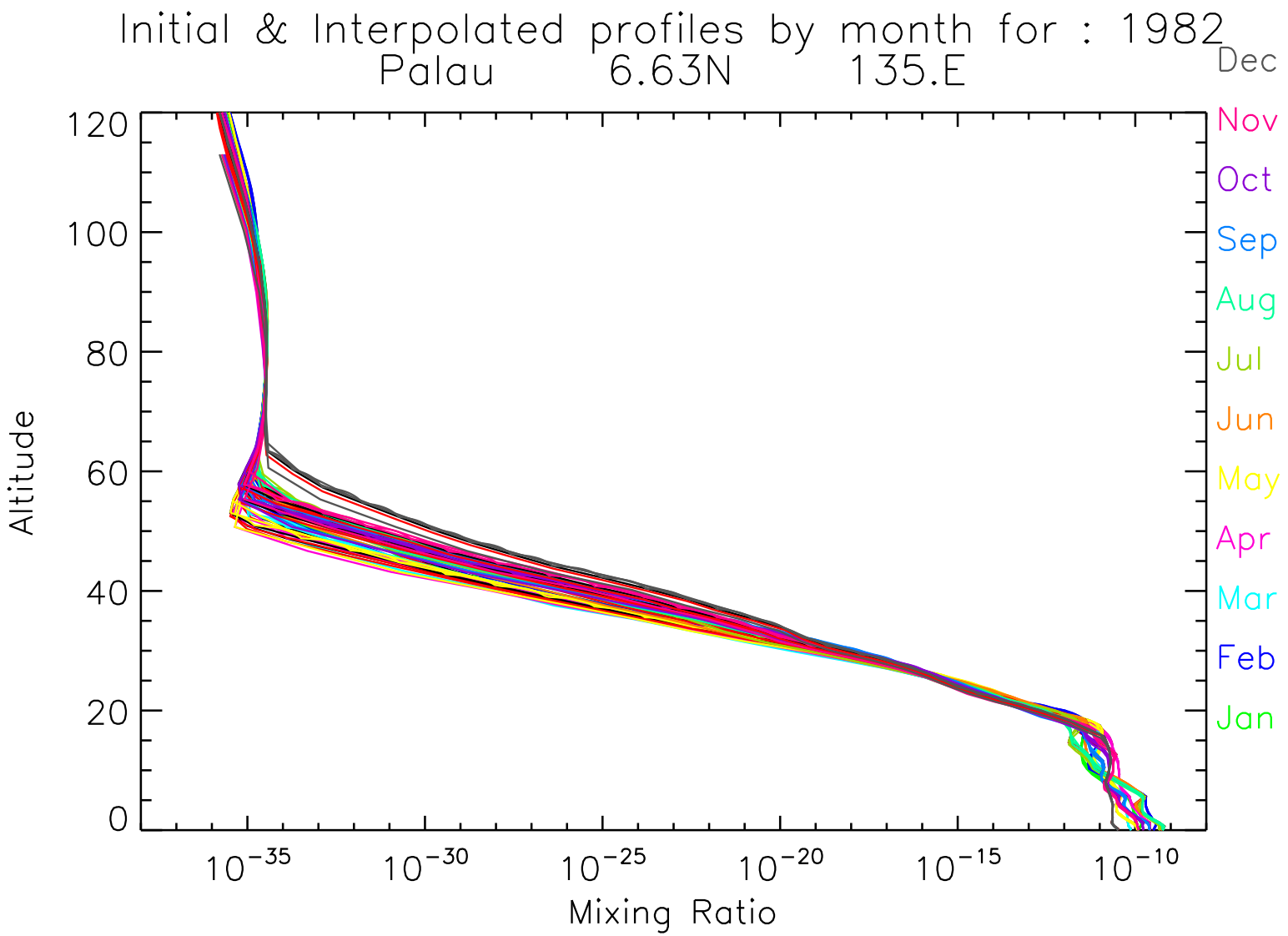
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Palau 6.63N 135.E
Dec
Nov
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Aug
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May
Apr
Mar
Feb
Jan
Altitude
120
100
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$10^{-20}$
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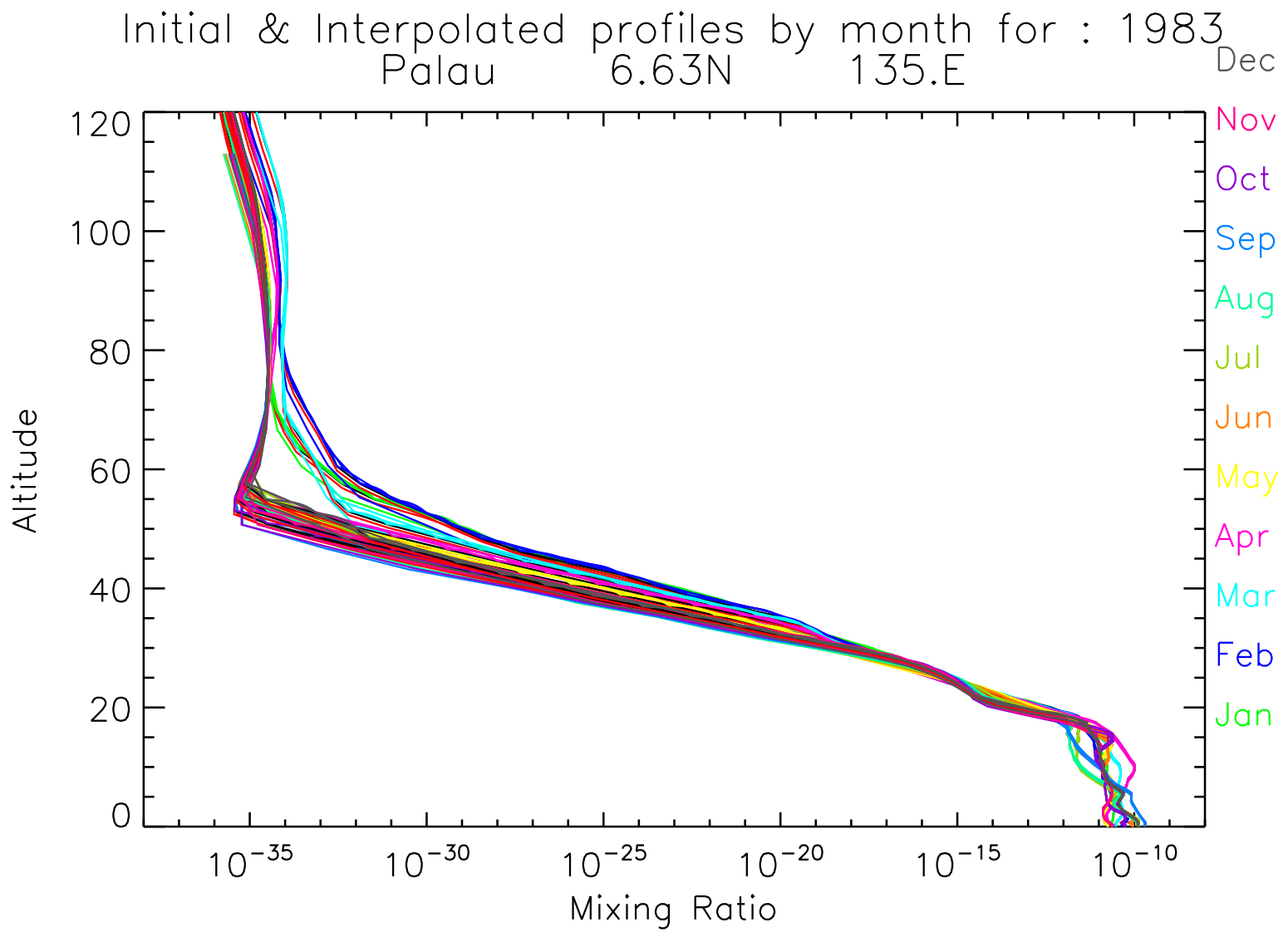
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Palau 6.63N 135.E
Dec
Nov
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Apr
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Jan
Altitude
120
100
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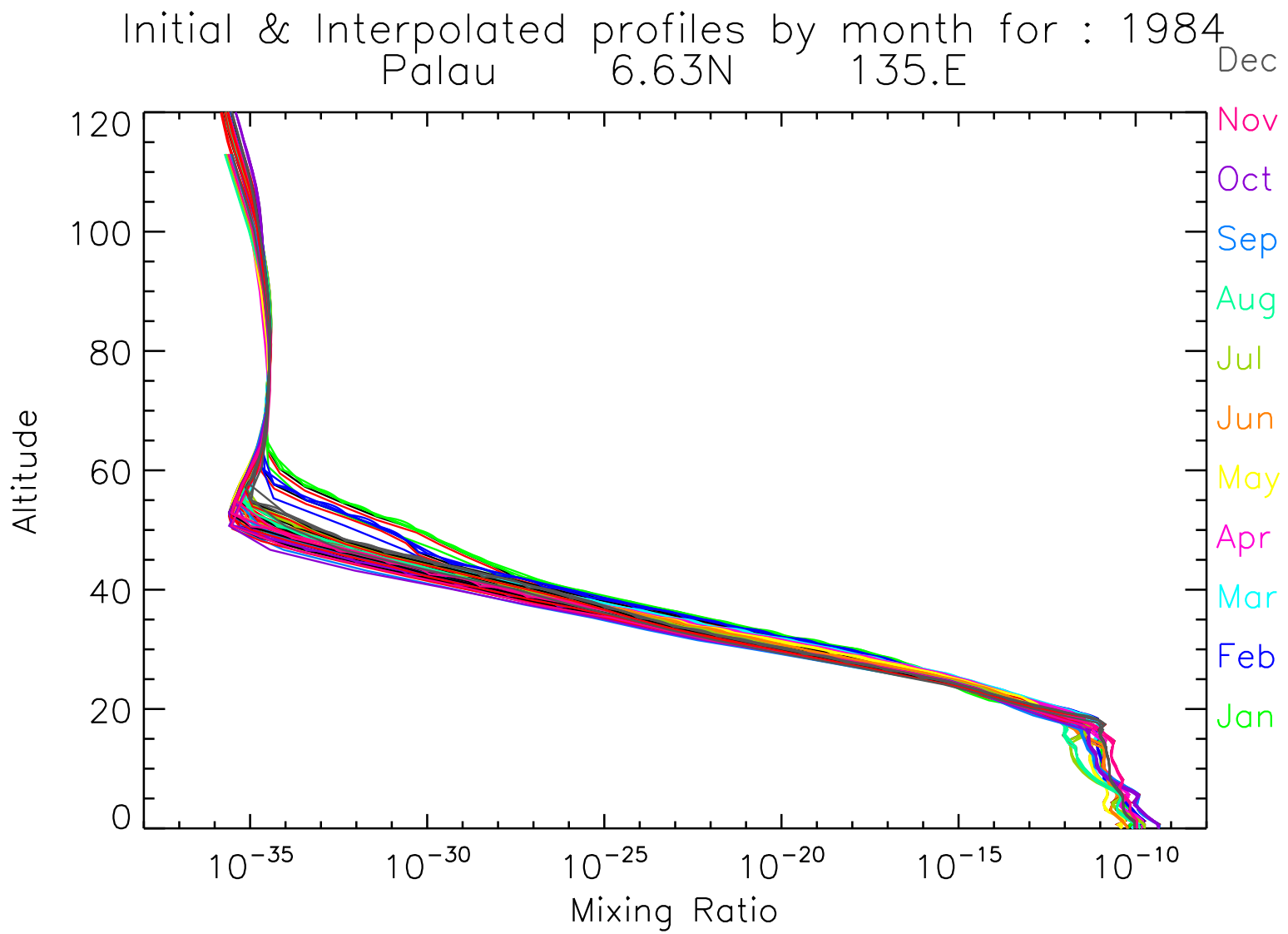
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Palau 6.63N 135.E
Dec
Nov
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Feb
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Altitude
120
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$10^{-15}$
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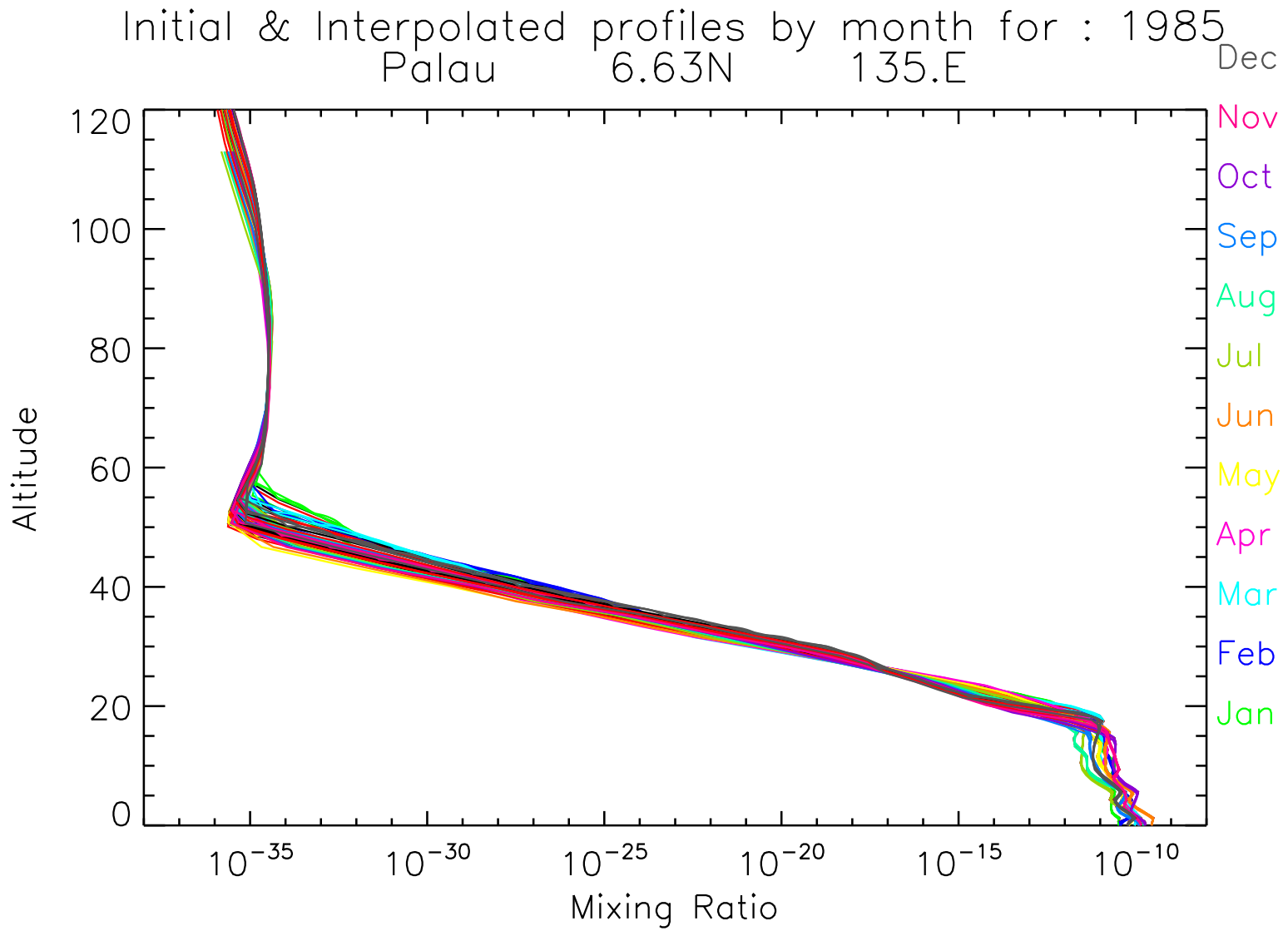
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Palau 6.63N 135.E
Dec
Nov
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Feb
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Altitude
120
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$10^{-20}$
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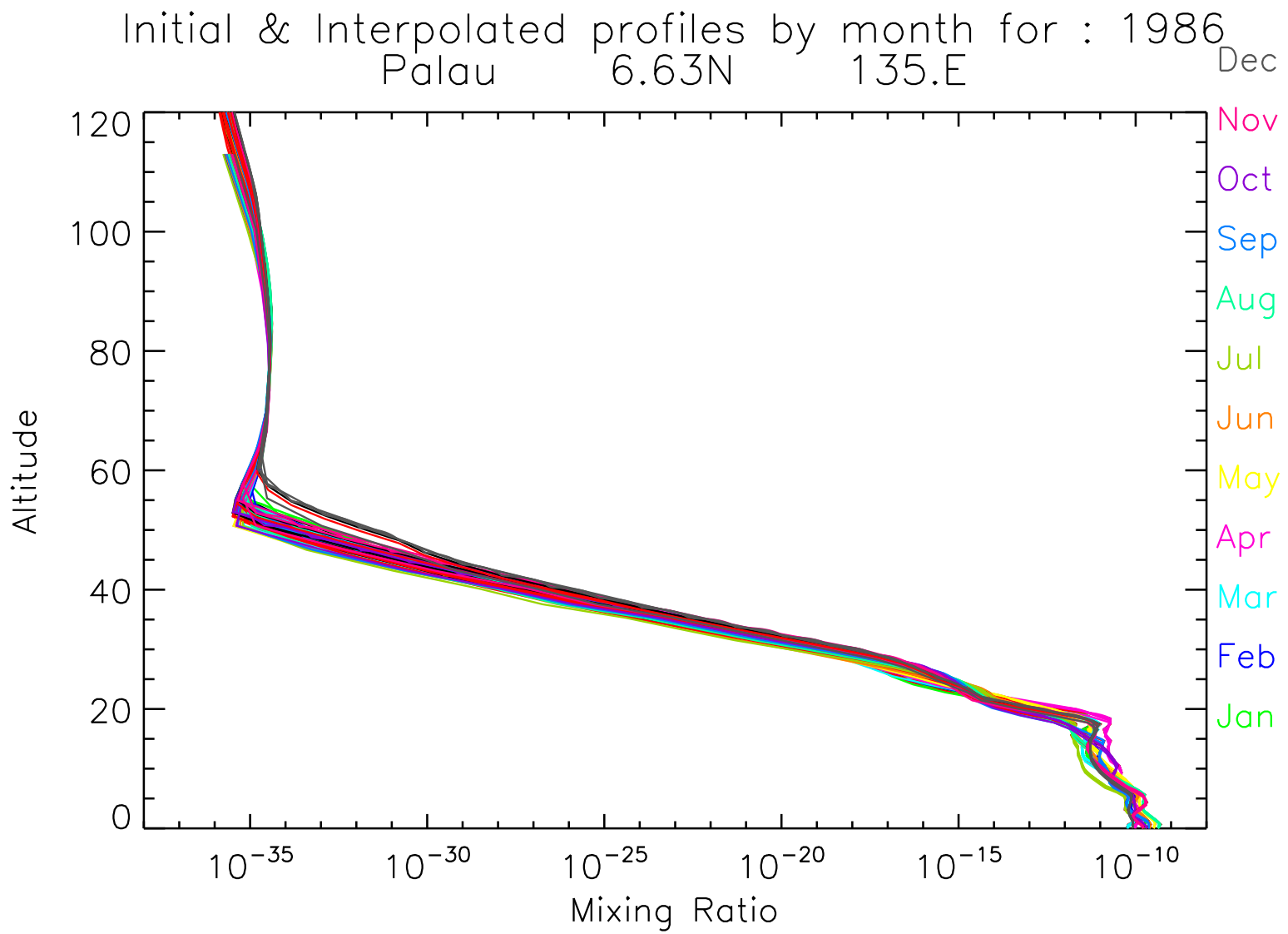
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Palau 6.63N 135.E
Dec
Nov
Oct
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Feb
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Altitude
120
100
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$10^{-25}$
$10^{-20}$
$10^{-15}$
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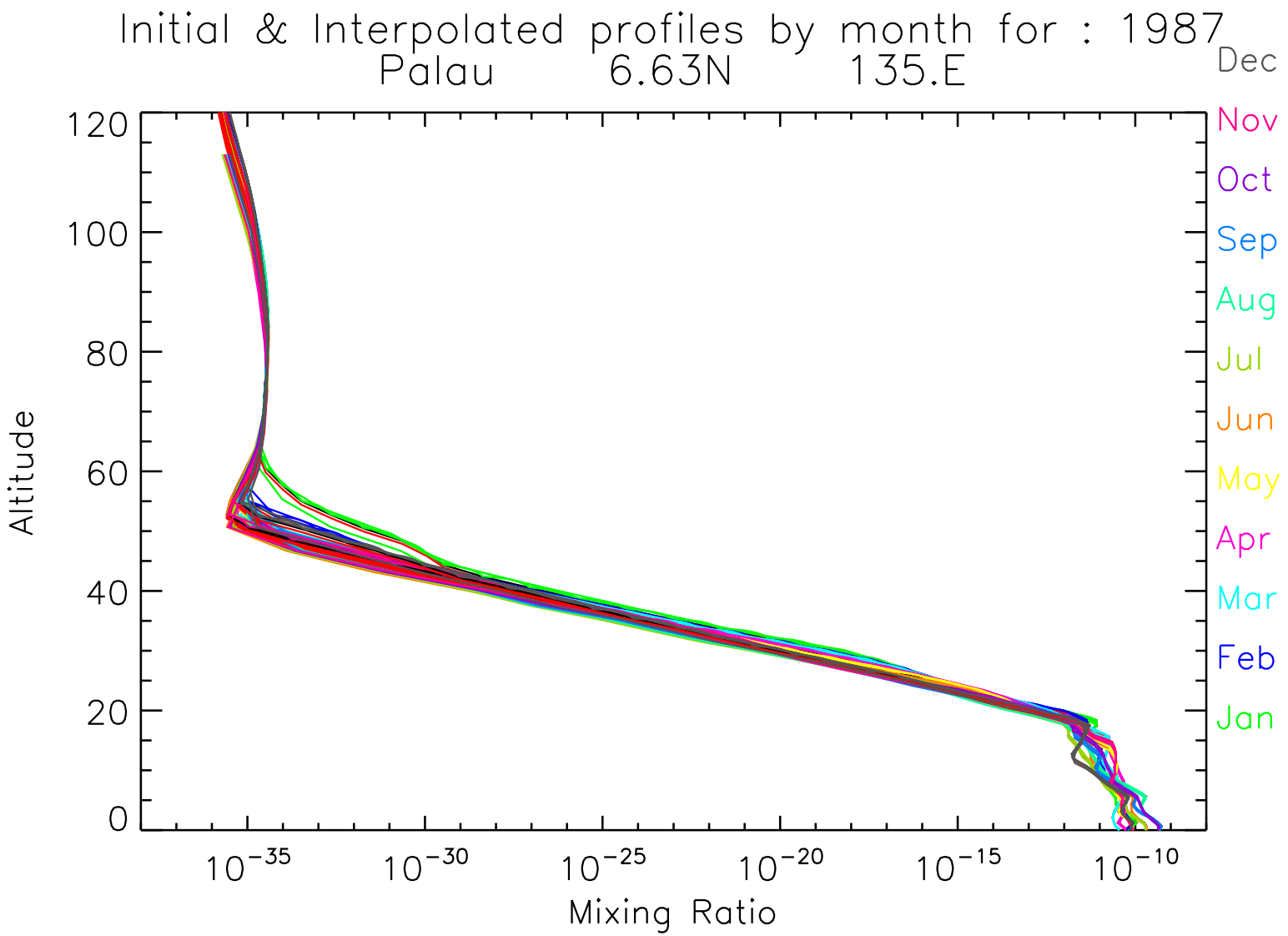
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Palau 6.63N 135.E
Dec
Nov
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Altitude
120
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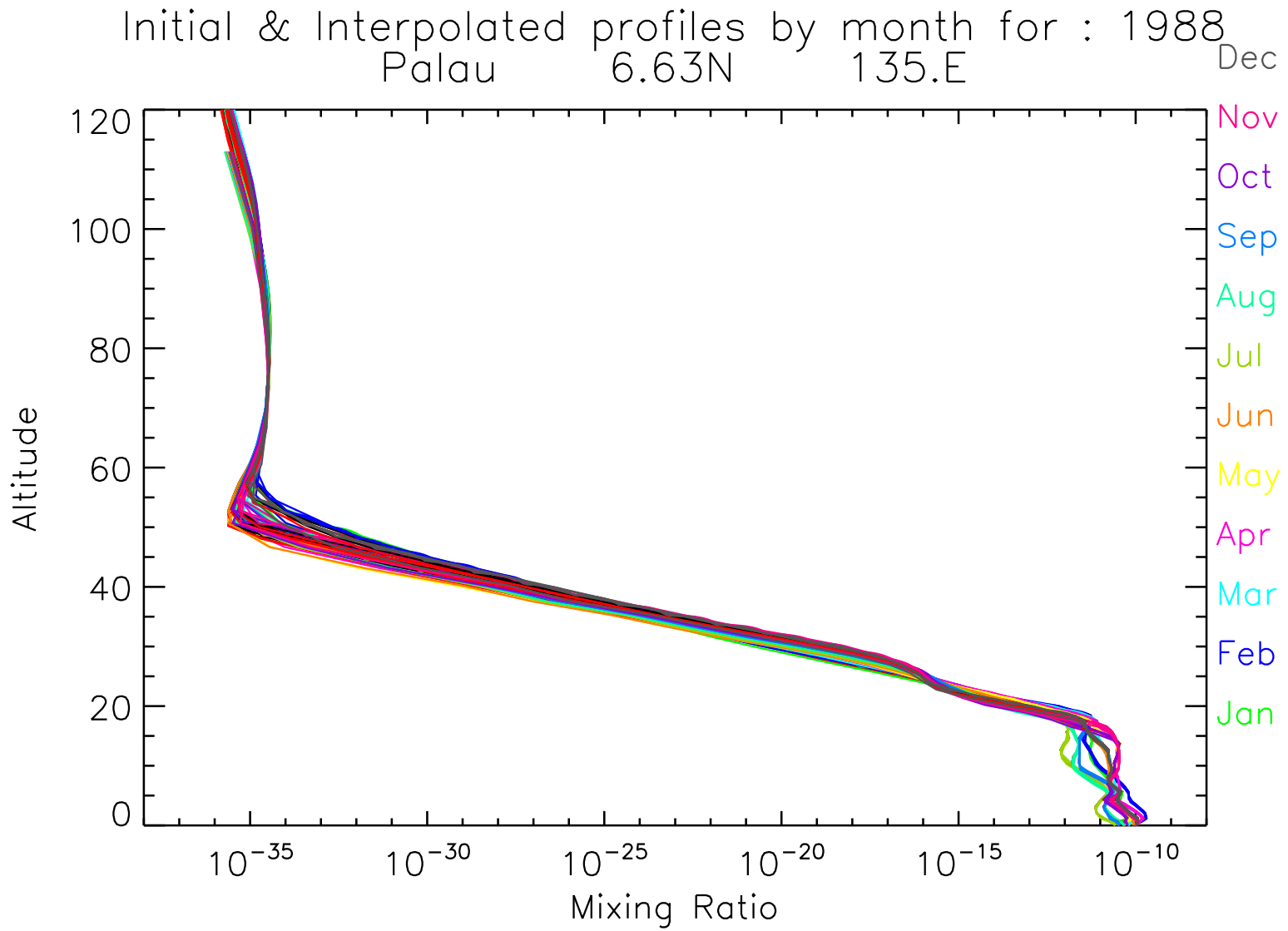
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Palau 6.63N 135.E
Dec
Nov
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Altitude
120
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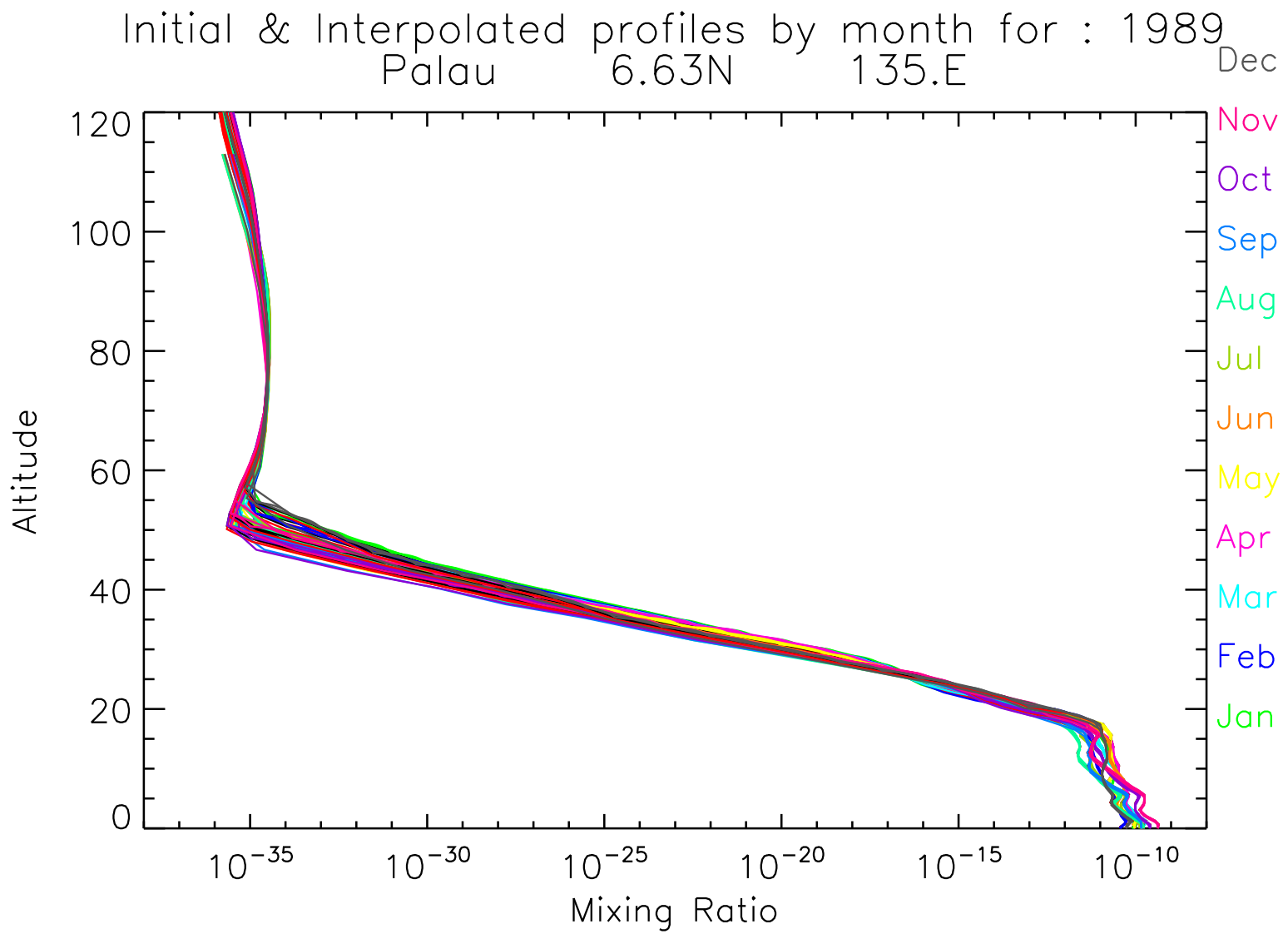
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Palau 6.63N 135.E
Dec
Nov
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Altitude
120
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$10^{-35}$
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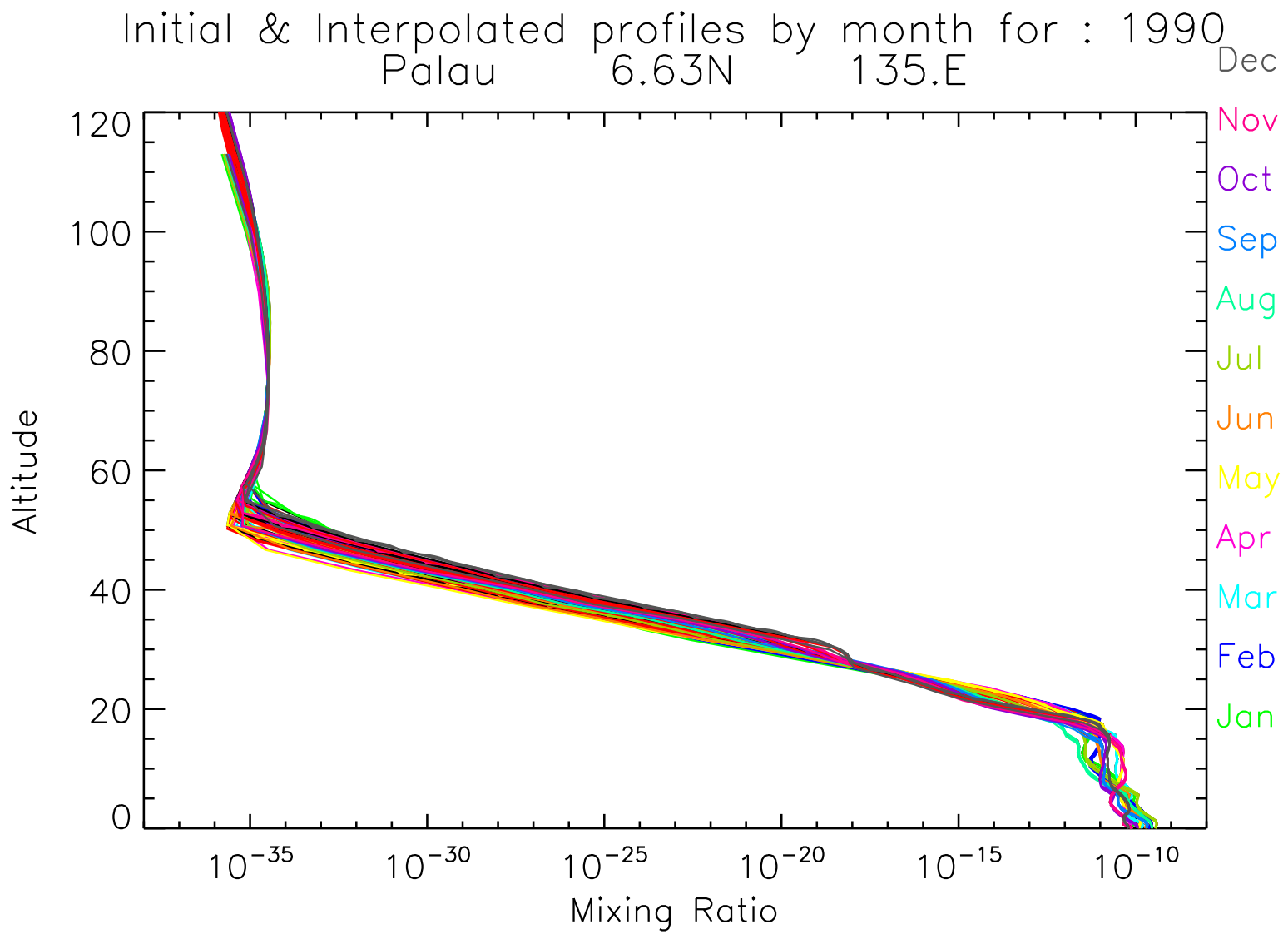
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Palau 6.63N 135.E
Dec
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Altitude
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$10^{-35}$
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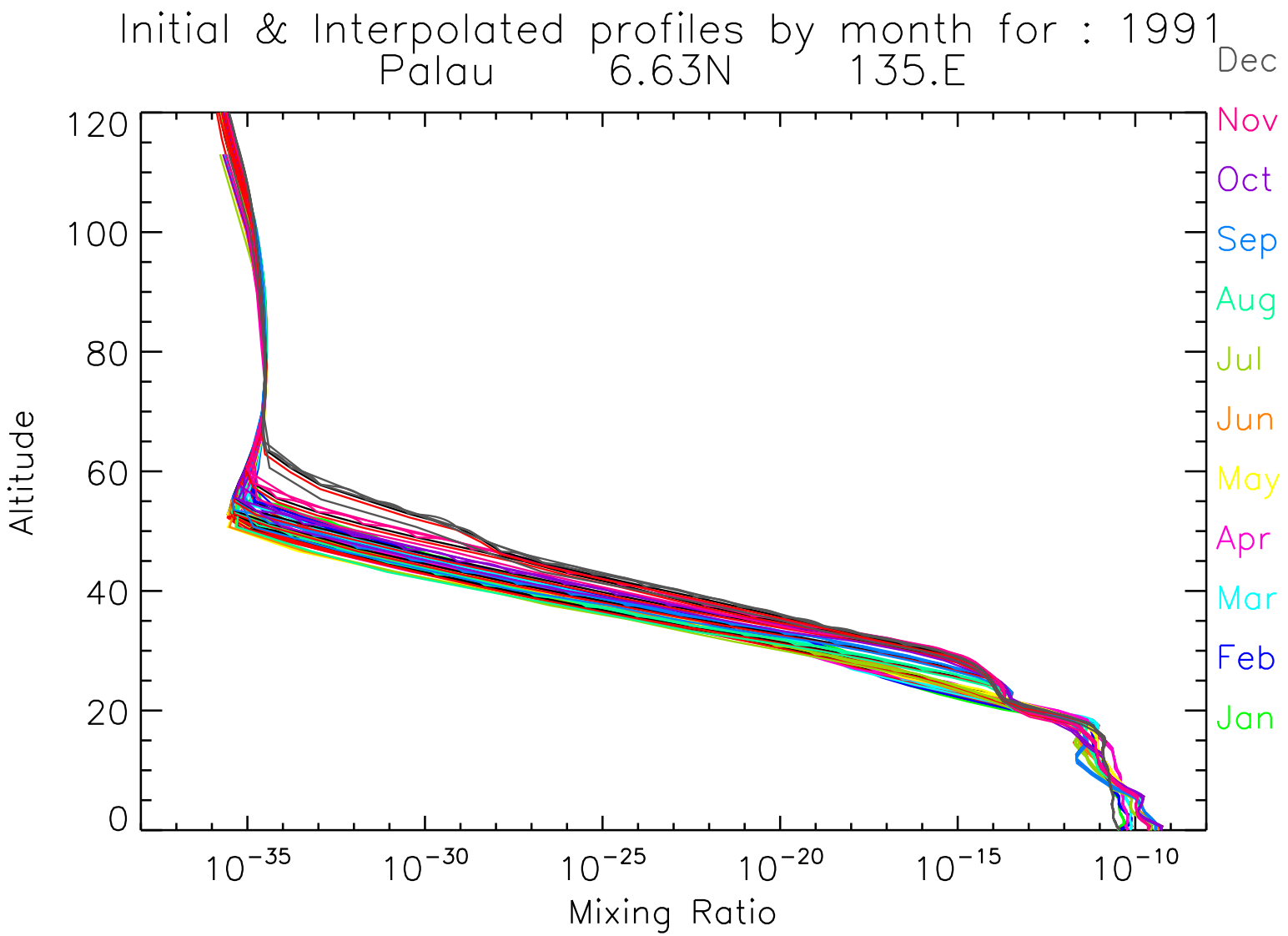
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Palau 6.63N 135.E
Dec
Nov
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Jan
Altitude
120
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$10^{-35}$
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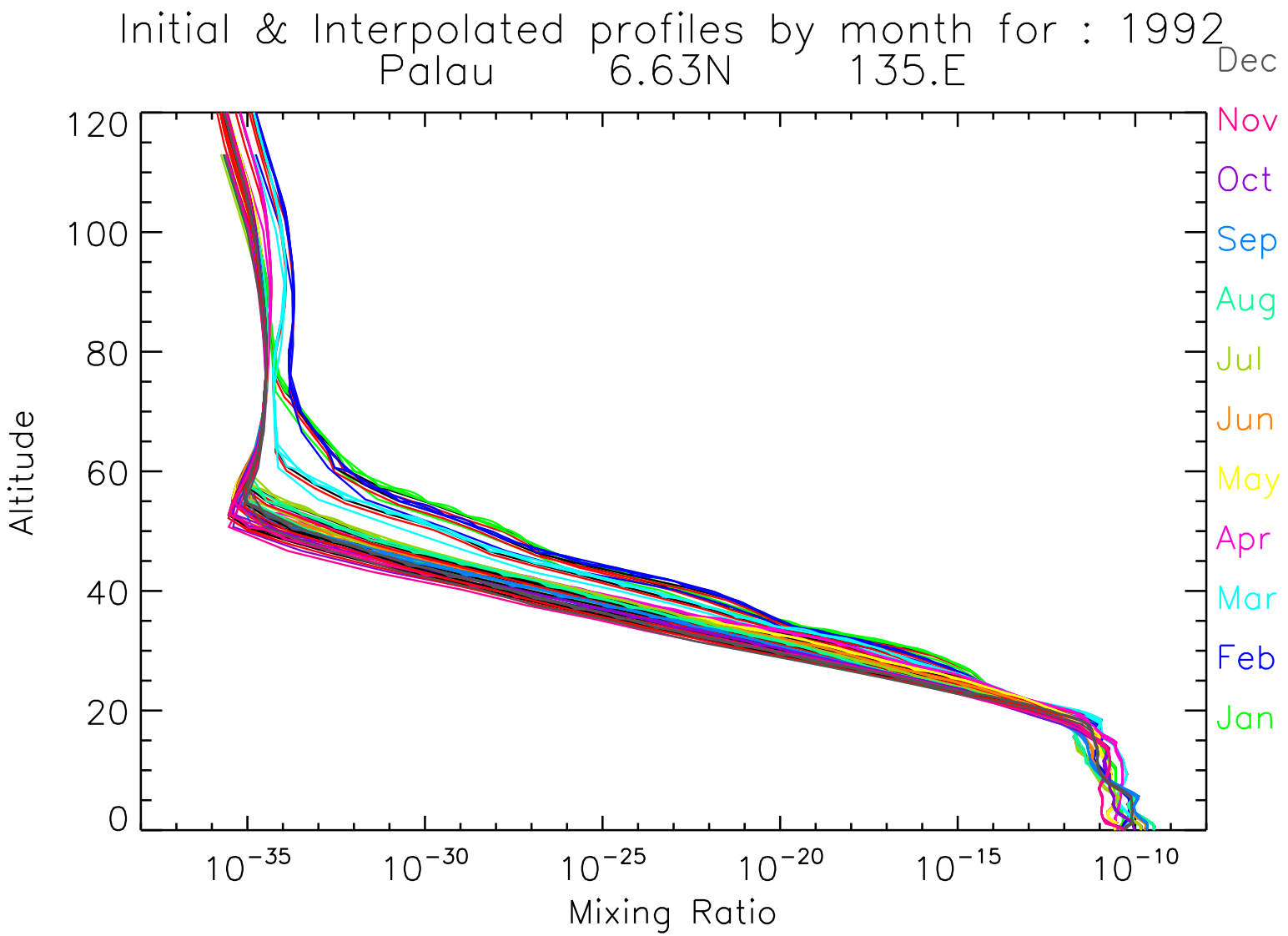
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Palau 6.63N 135.E
Dec
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Altitude
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$10^{-25}$
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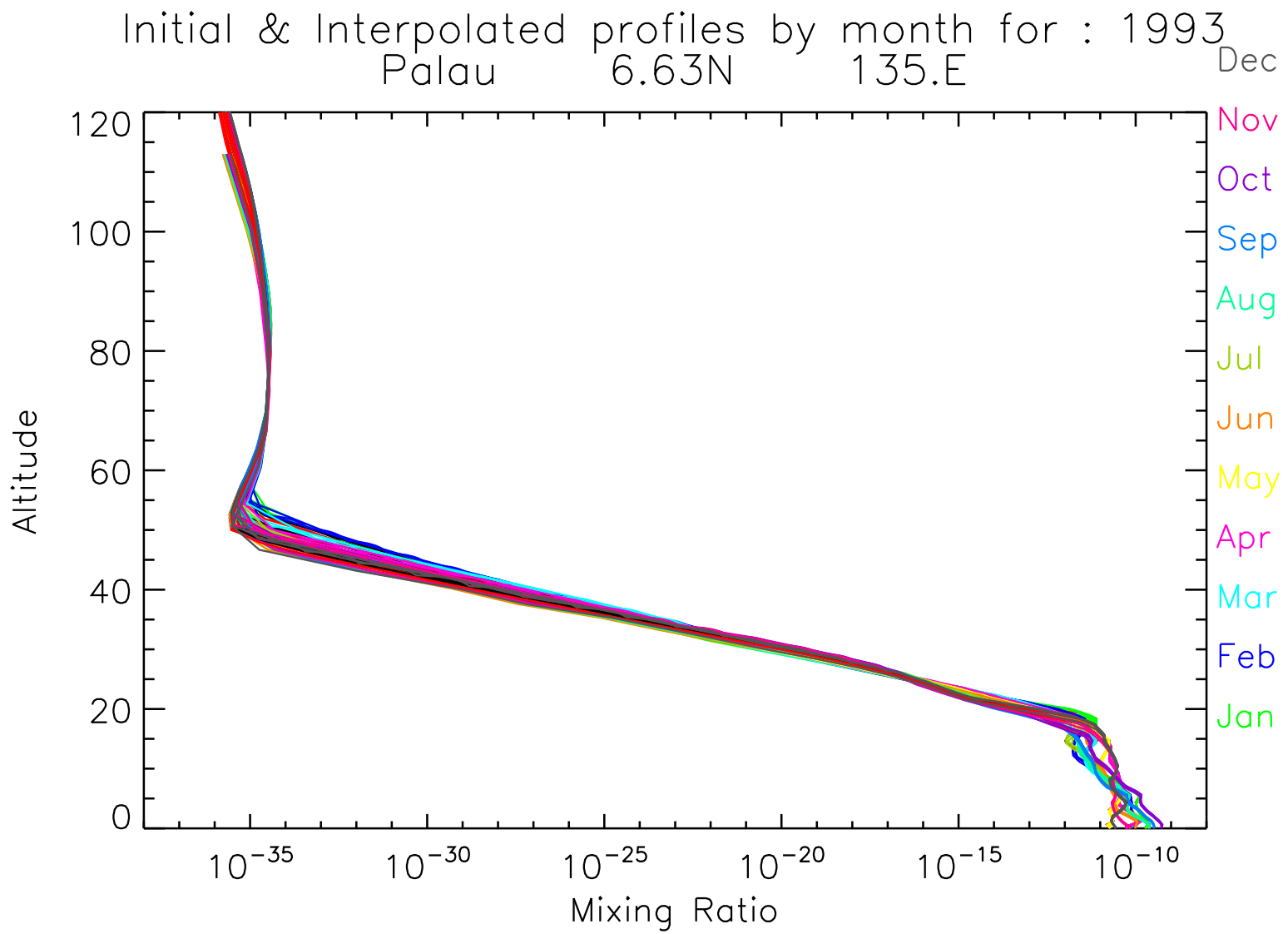
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Palau 6.63N 135.E
Dec
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Altitude
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$10^{-35}$
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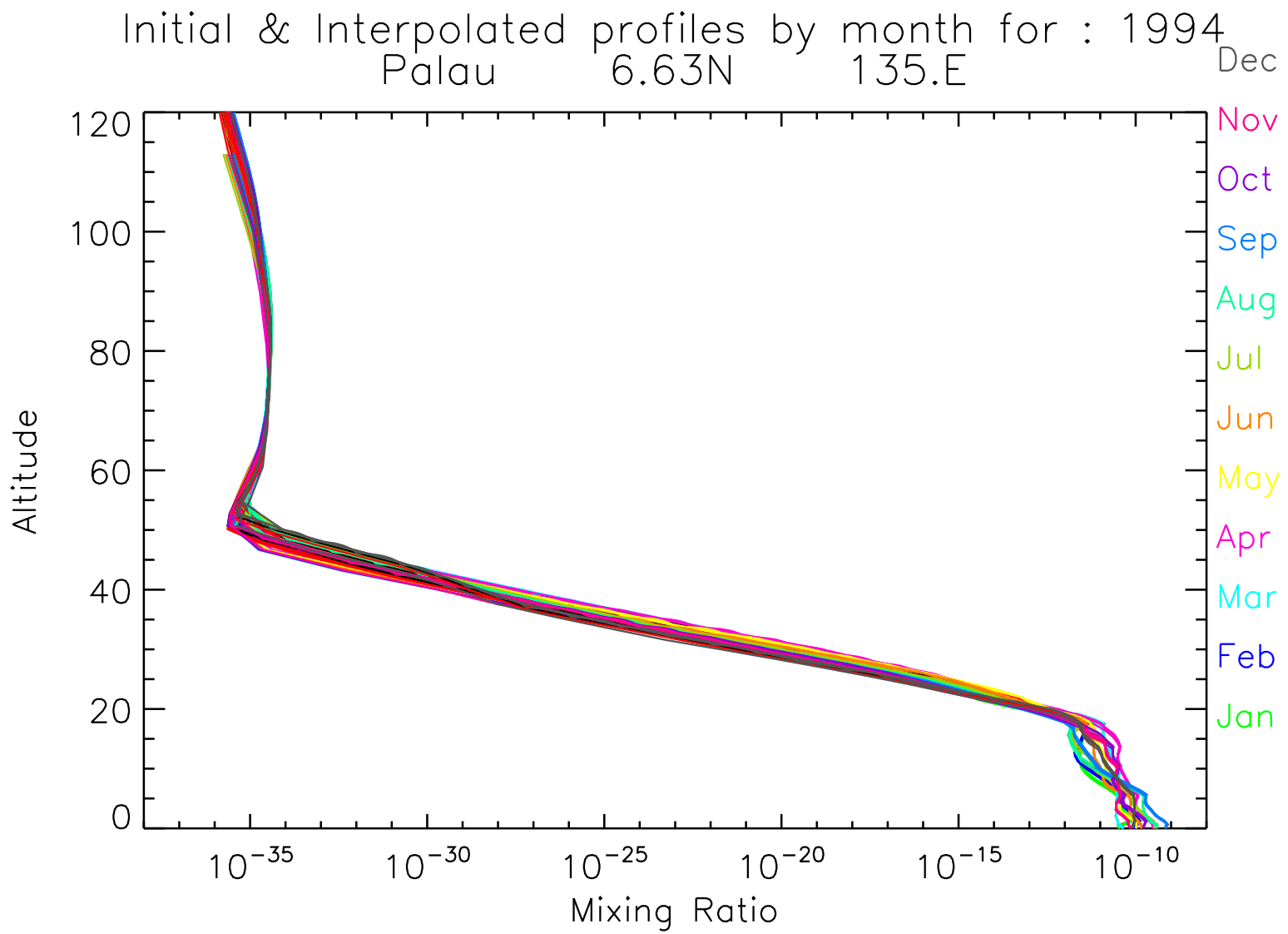
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Palau 6.63N 135.E
Dec
Nov
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Altitude
120
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$10^{-35}$
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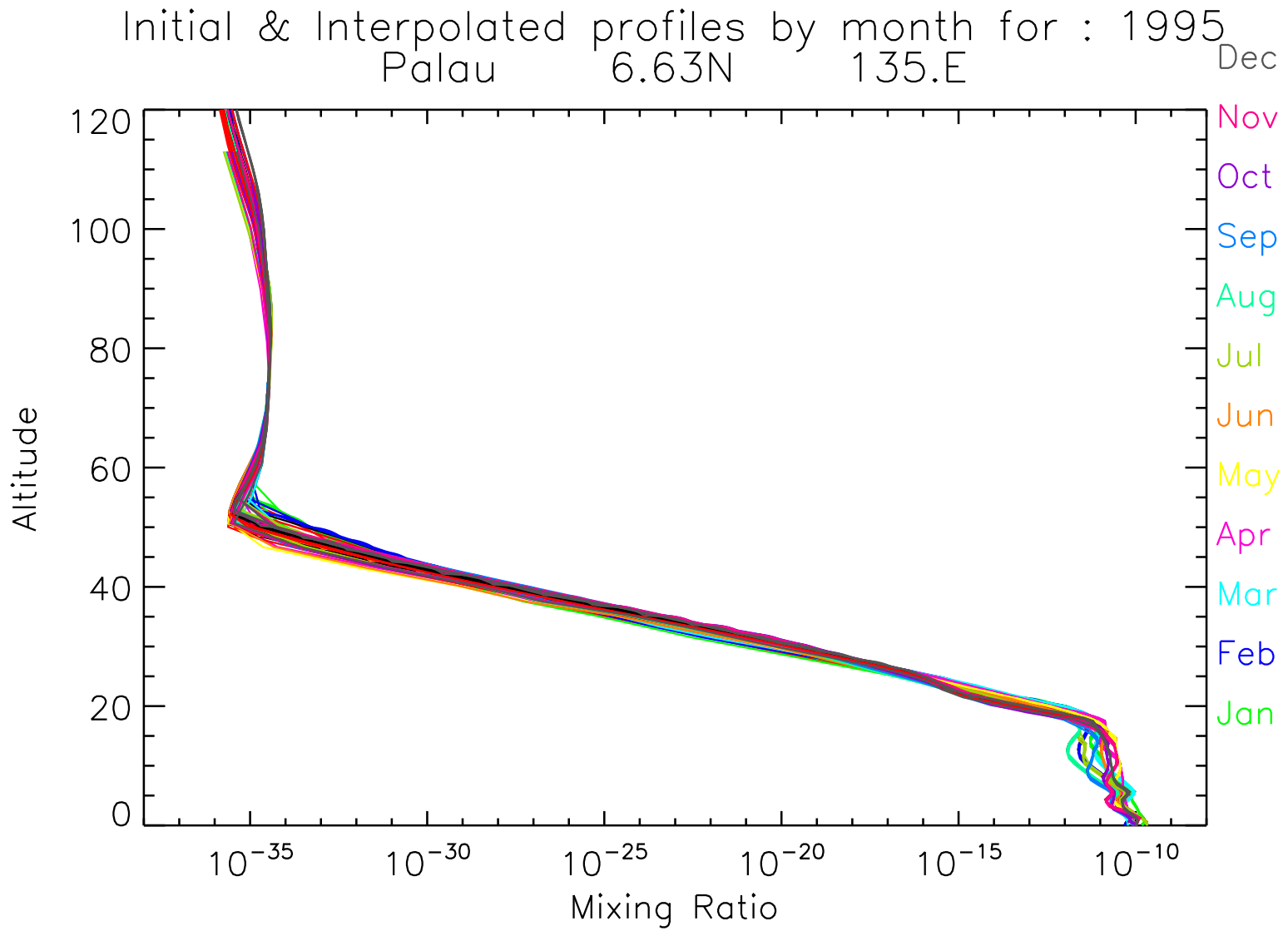
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Palau 6.63N 135.E
Dec
Nov
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Feb
Jan
Altitude
120
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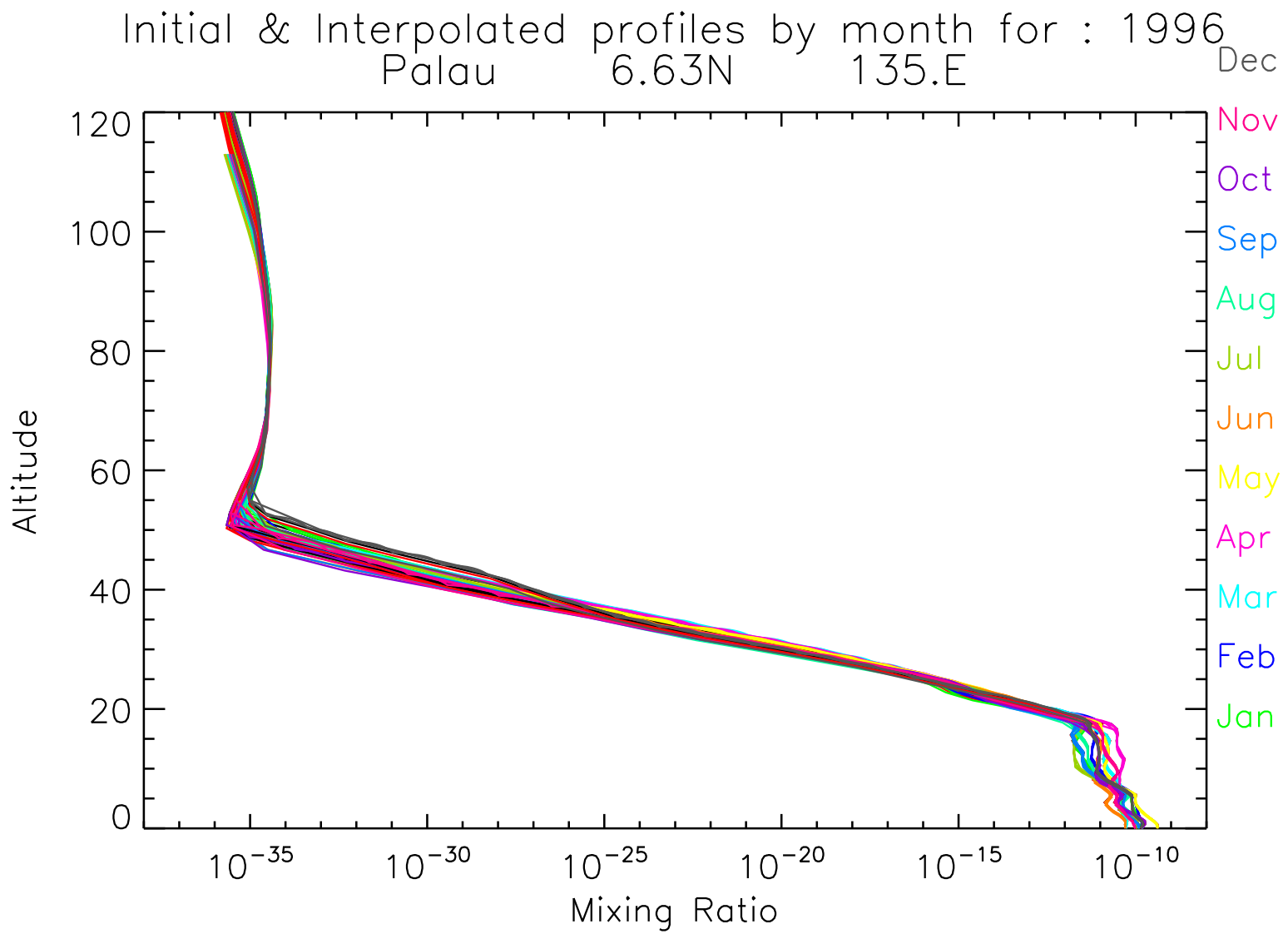
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Palau 6.63N 135.E
Dec
Nov
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Altitude
120
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$10^{-35}$
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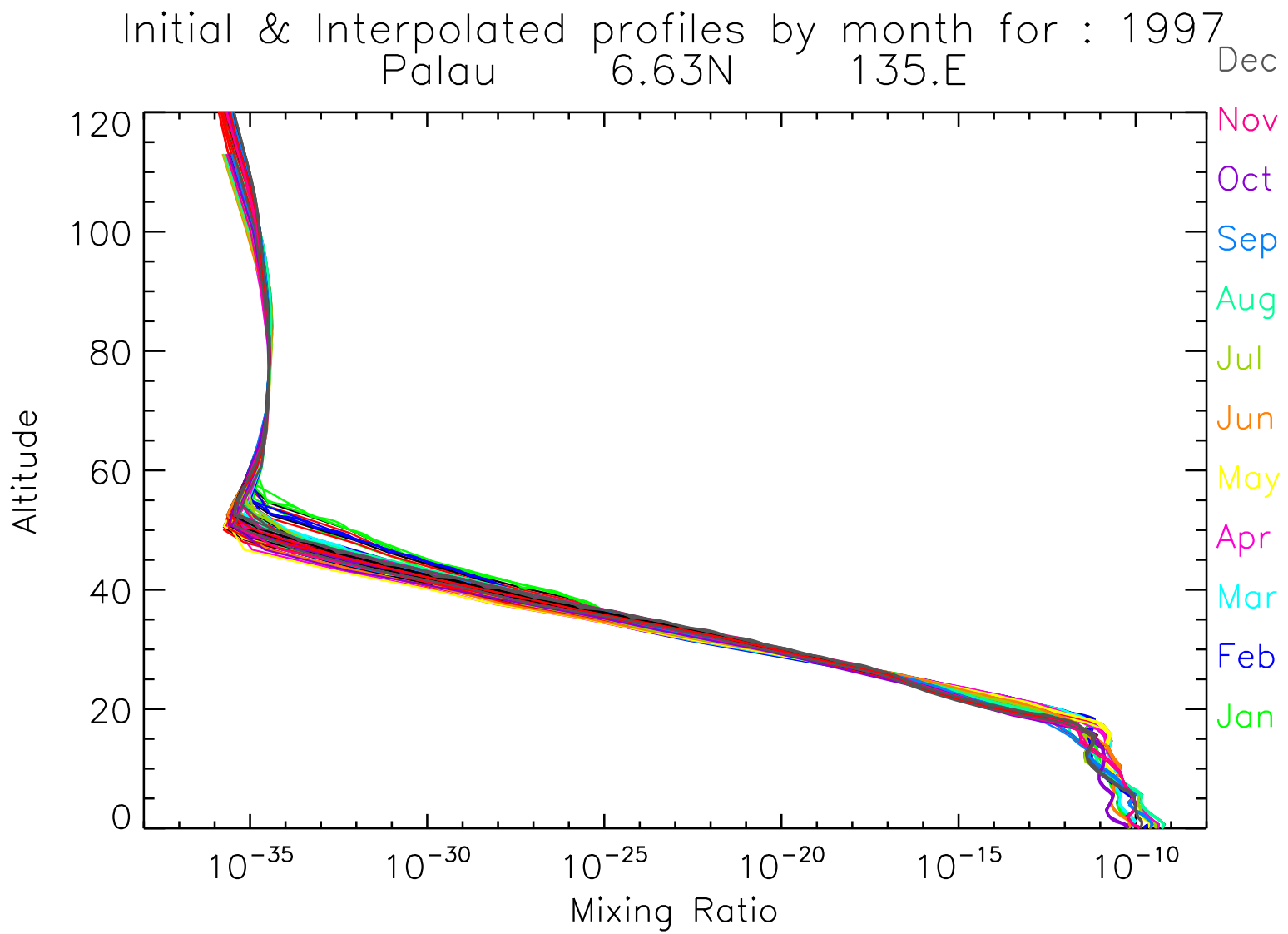
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Palau 6.63N 135.E
Dec
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Feb
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Altitude
120
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$10^{-35}$
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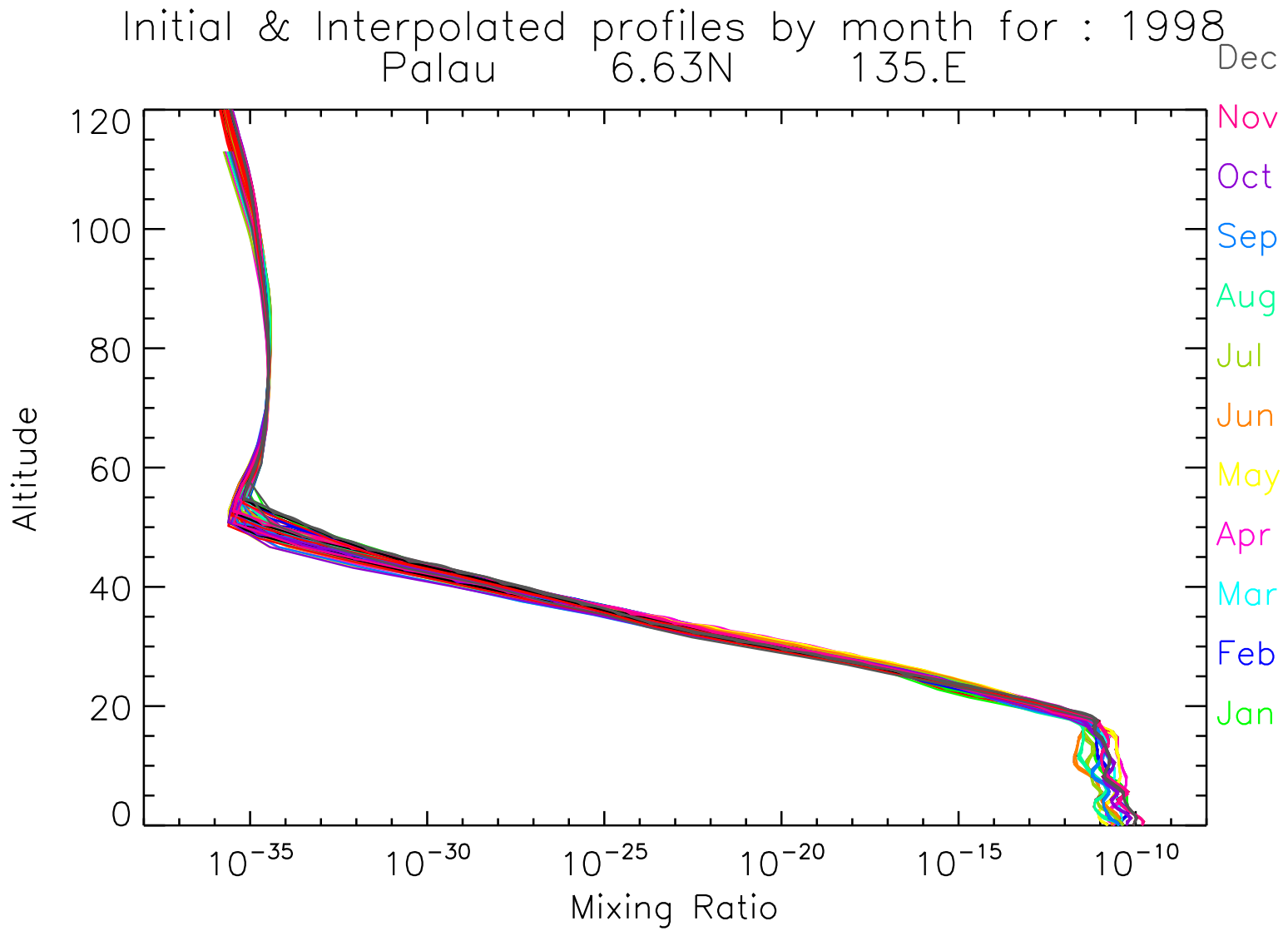
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Palau 6.63N 135.E
Dec
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Apr
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Feb
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Altitude
120
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$10^{-35}$
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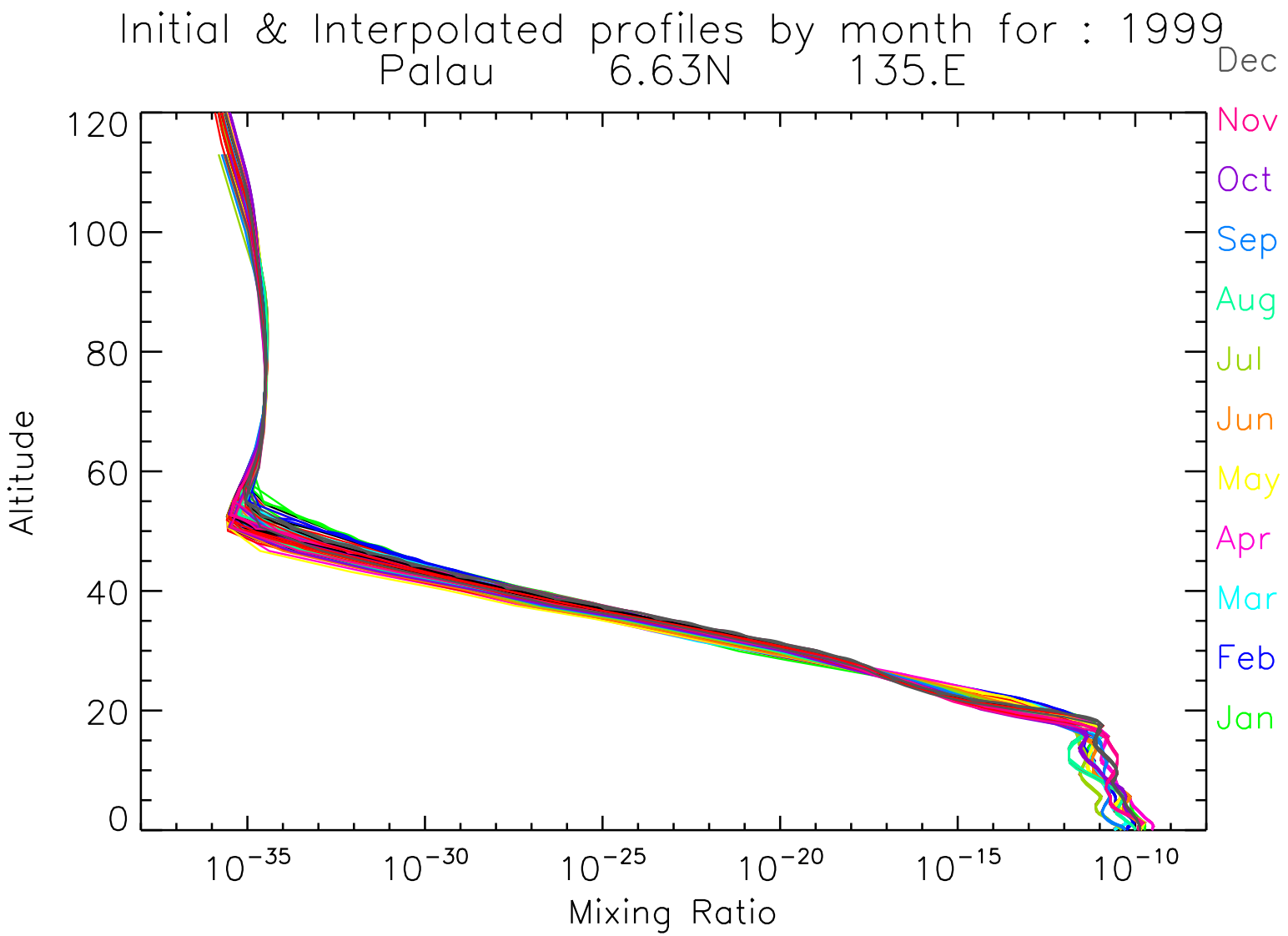
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Palau 6.63N 135.E
Dec
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Feb
Jan
Altitude
120
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$10^{-35}$
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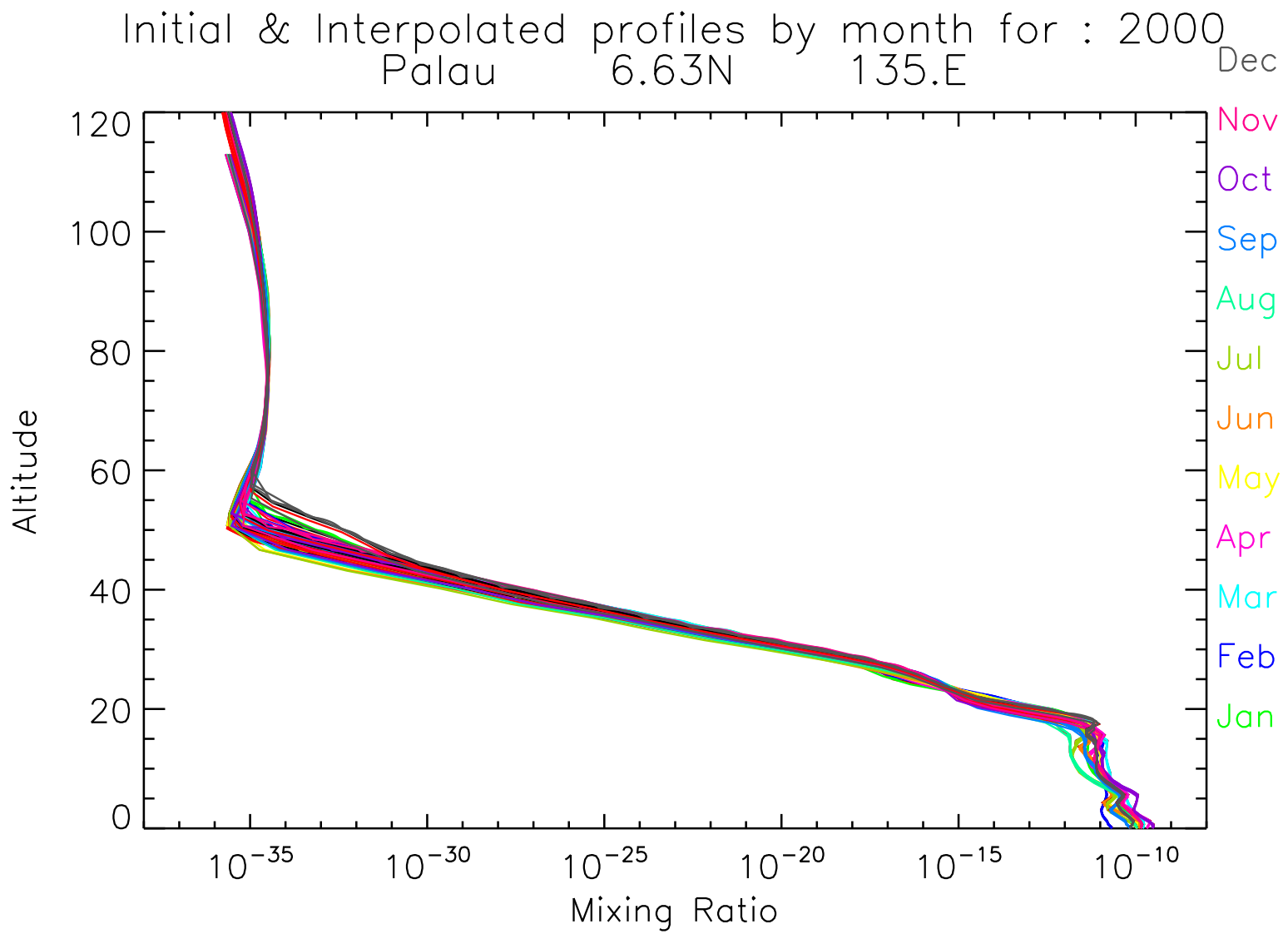
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Palau 6.63N 135.E
Dec
Nov
Oct
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Aug
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Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
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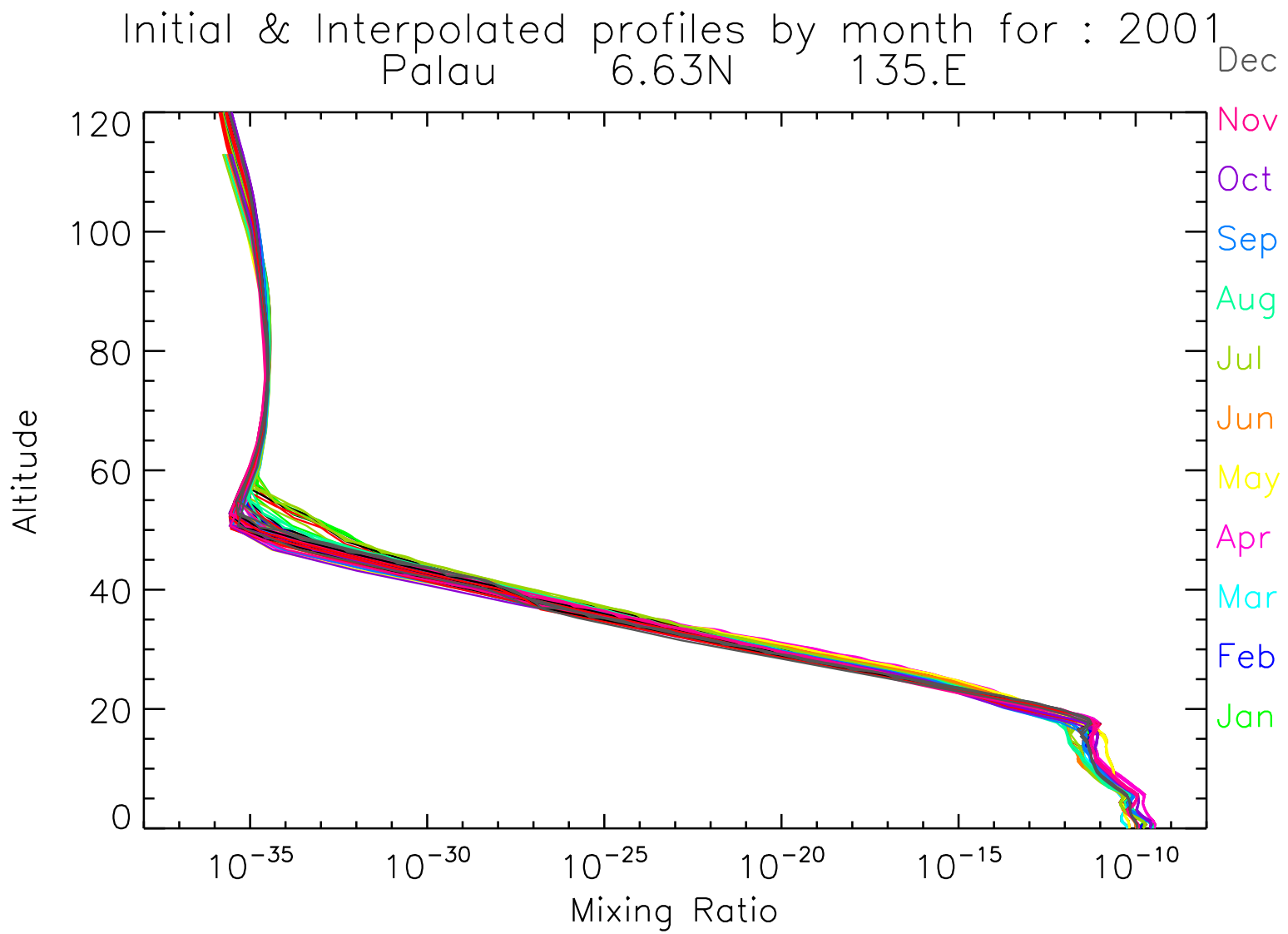
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Palau 6.63N 135.E
Dec
Nov
Oct
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Aug
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May
Apr
Mar
Feb
Jan
Altitude
120
100
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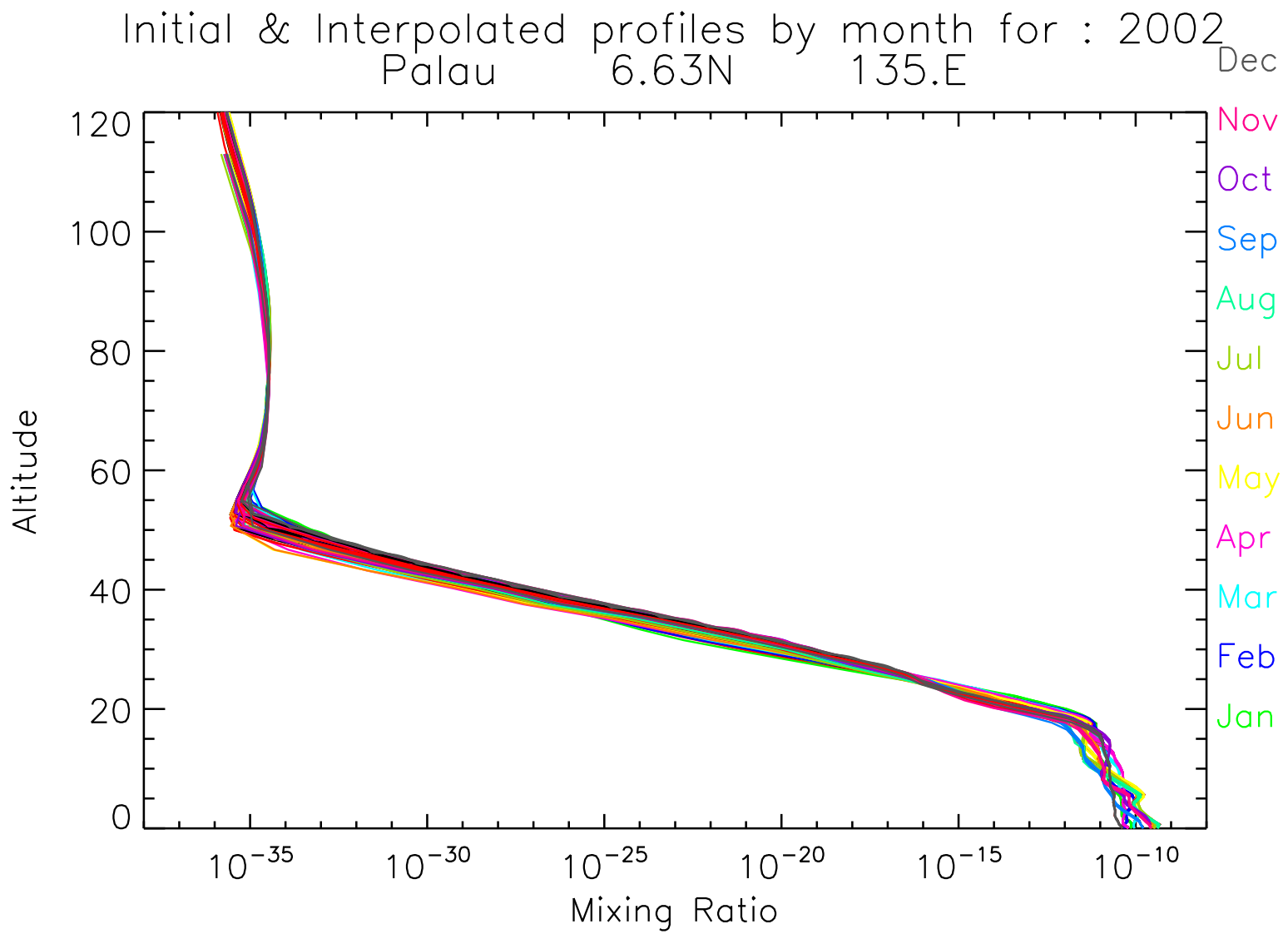
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
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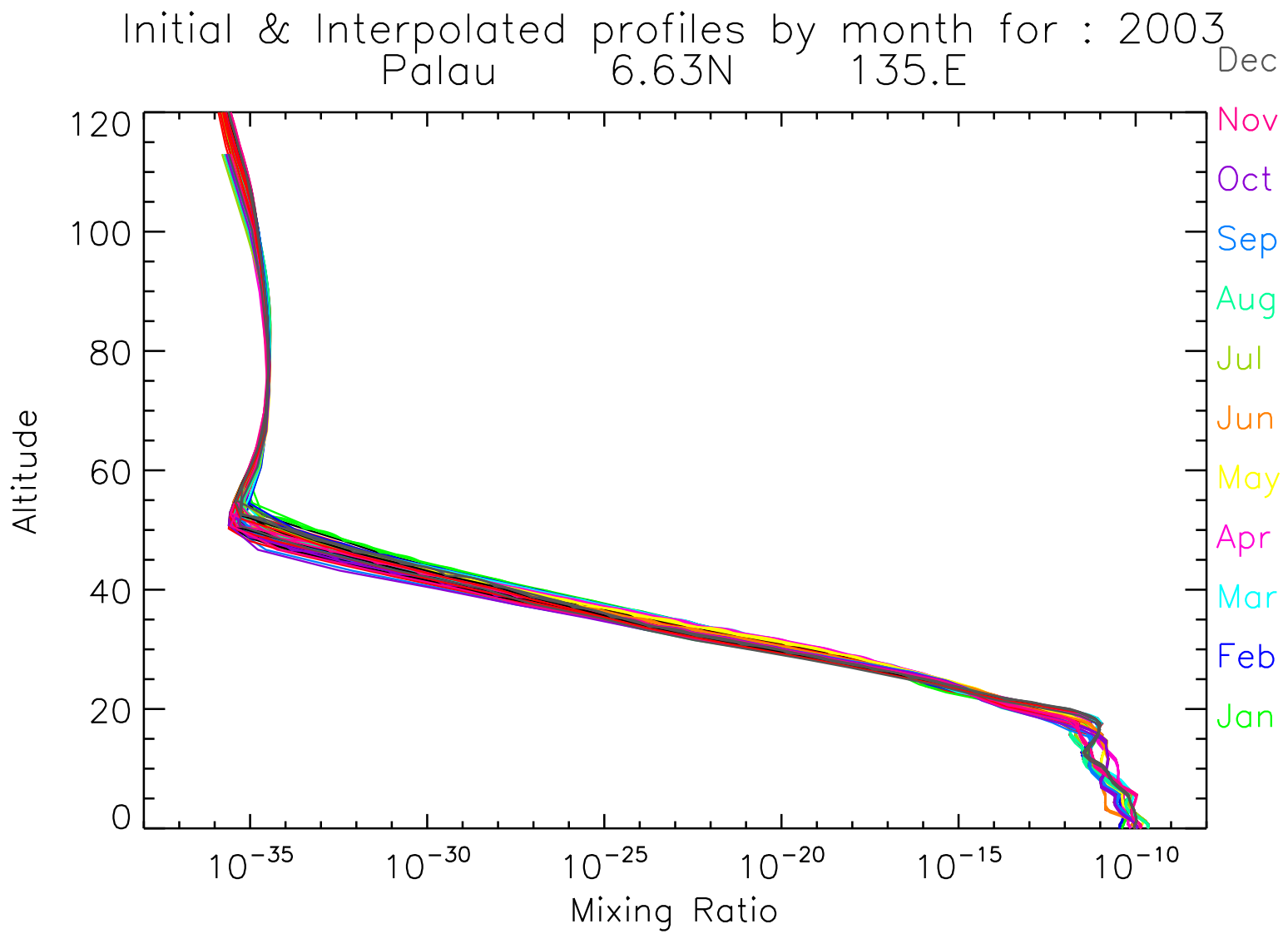
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
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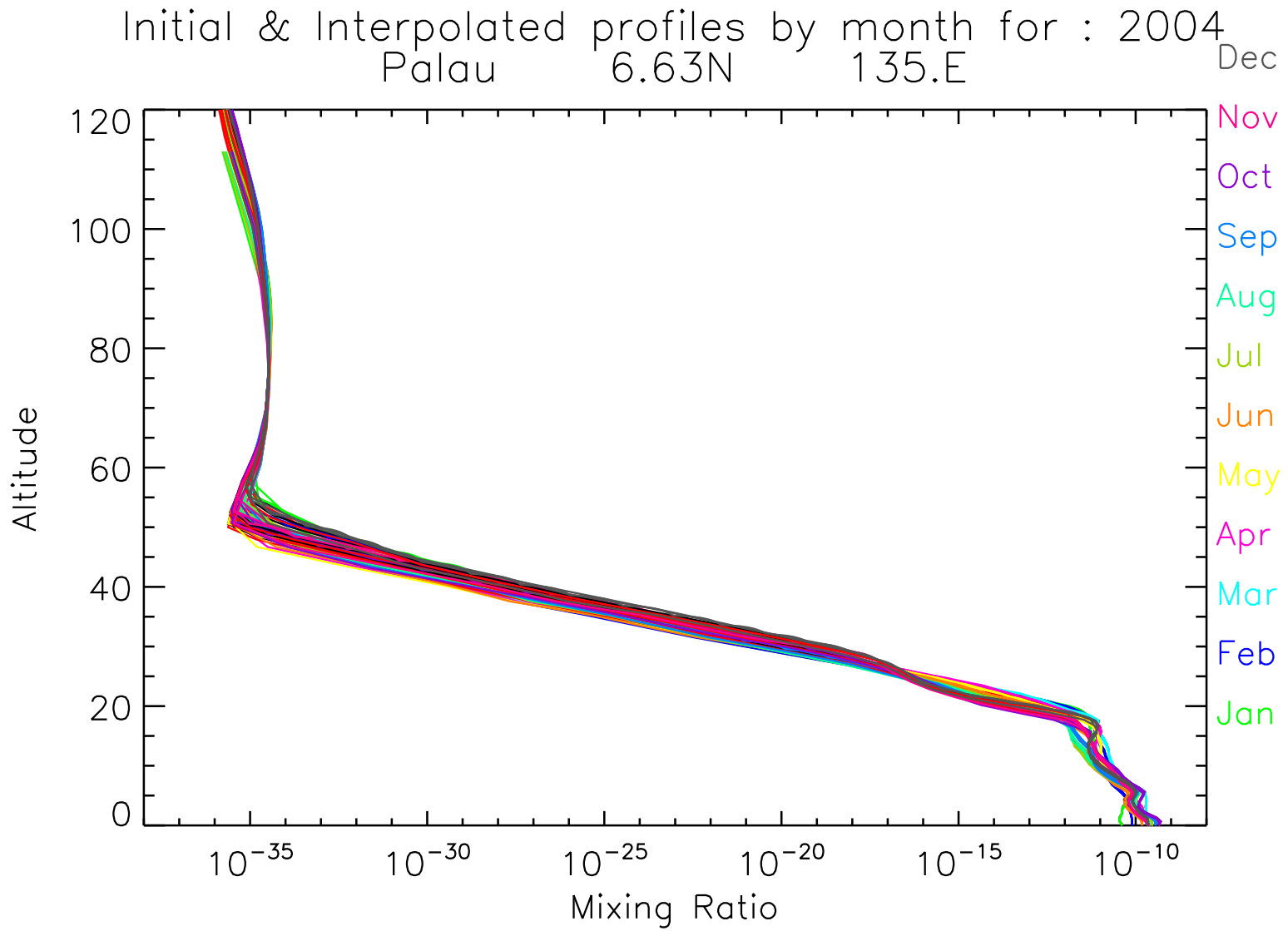
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Palau 6.63N 135.E
Dec
Nov
Oct
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Aug
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May
Apr
Mar
Feb
Jan
Altitude
120
100
80
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40
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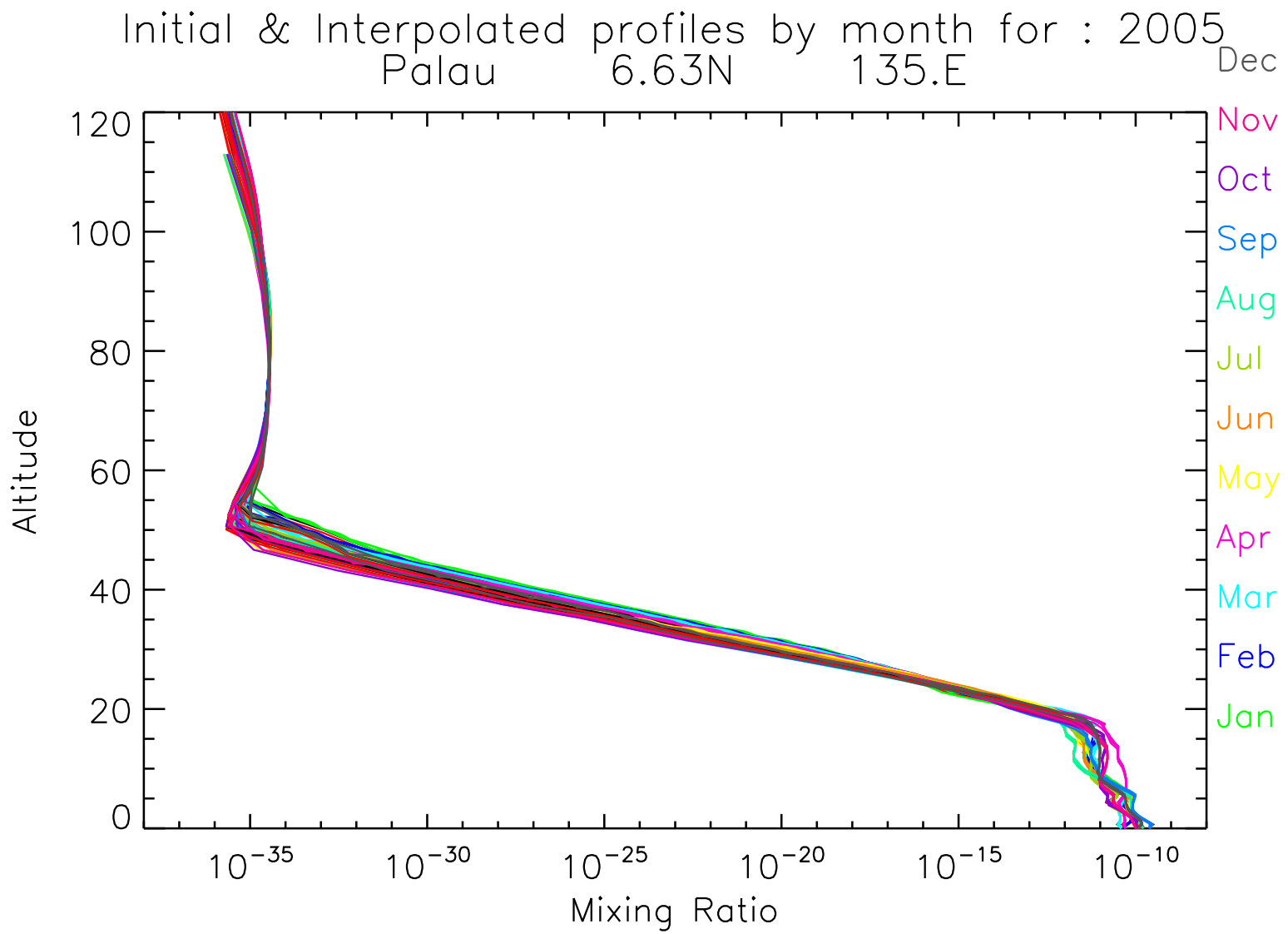
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
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$10^{-30}$
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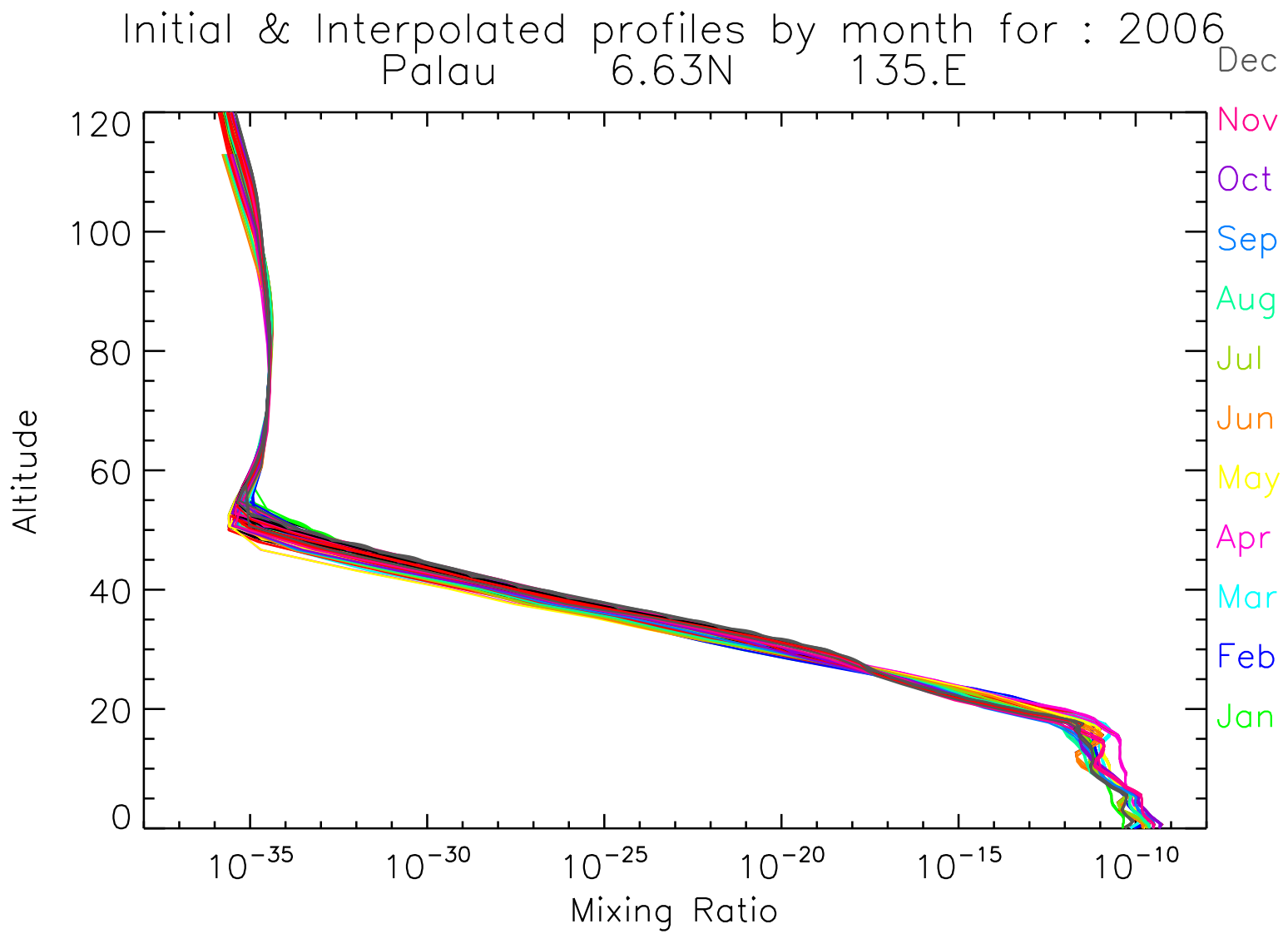
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
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Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
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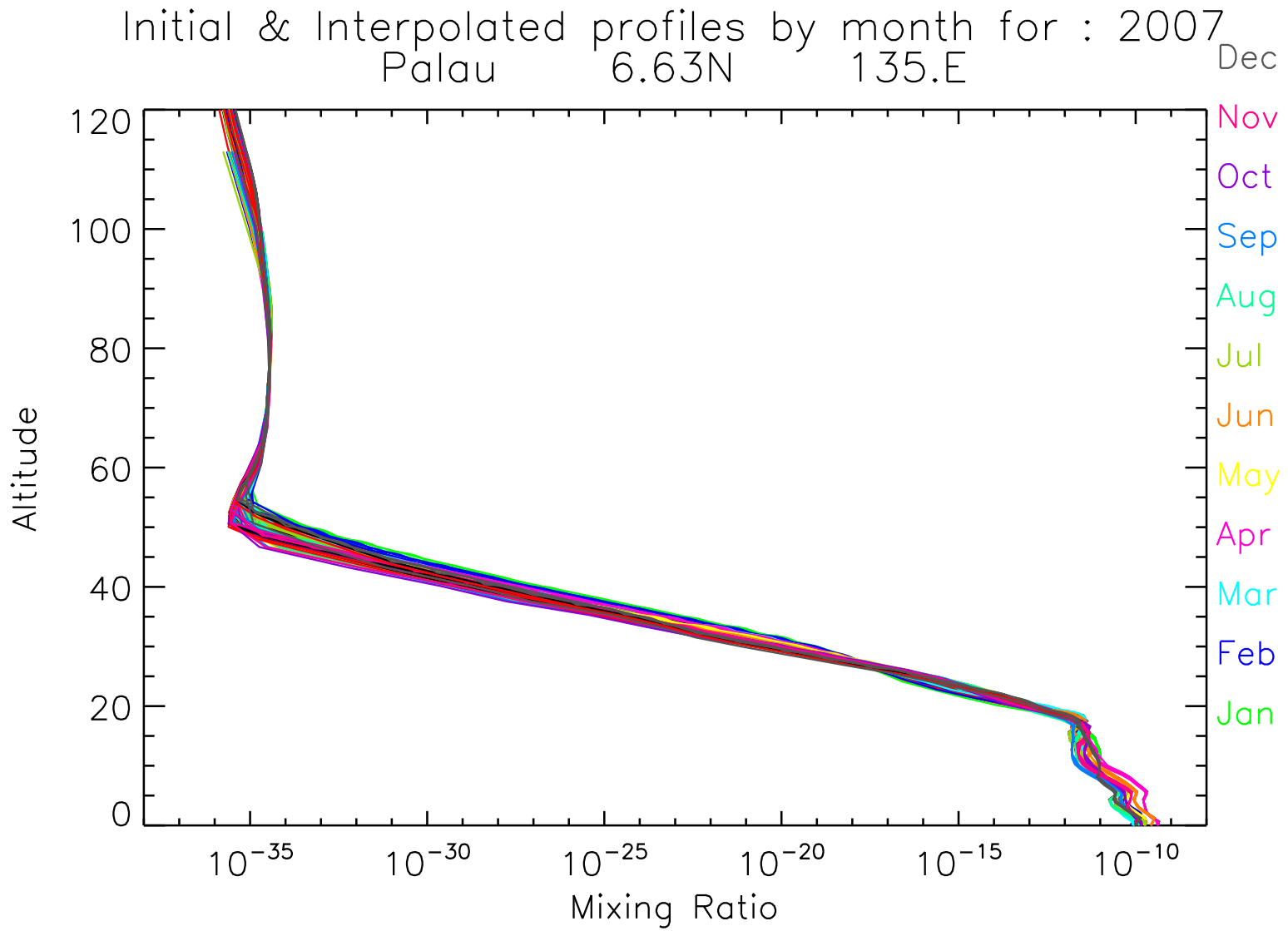
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Palau 6.63N 135.E
Dec
Nov
Oct
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Aug
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Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
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40
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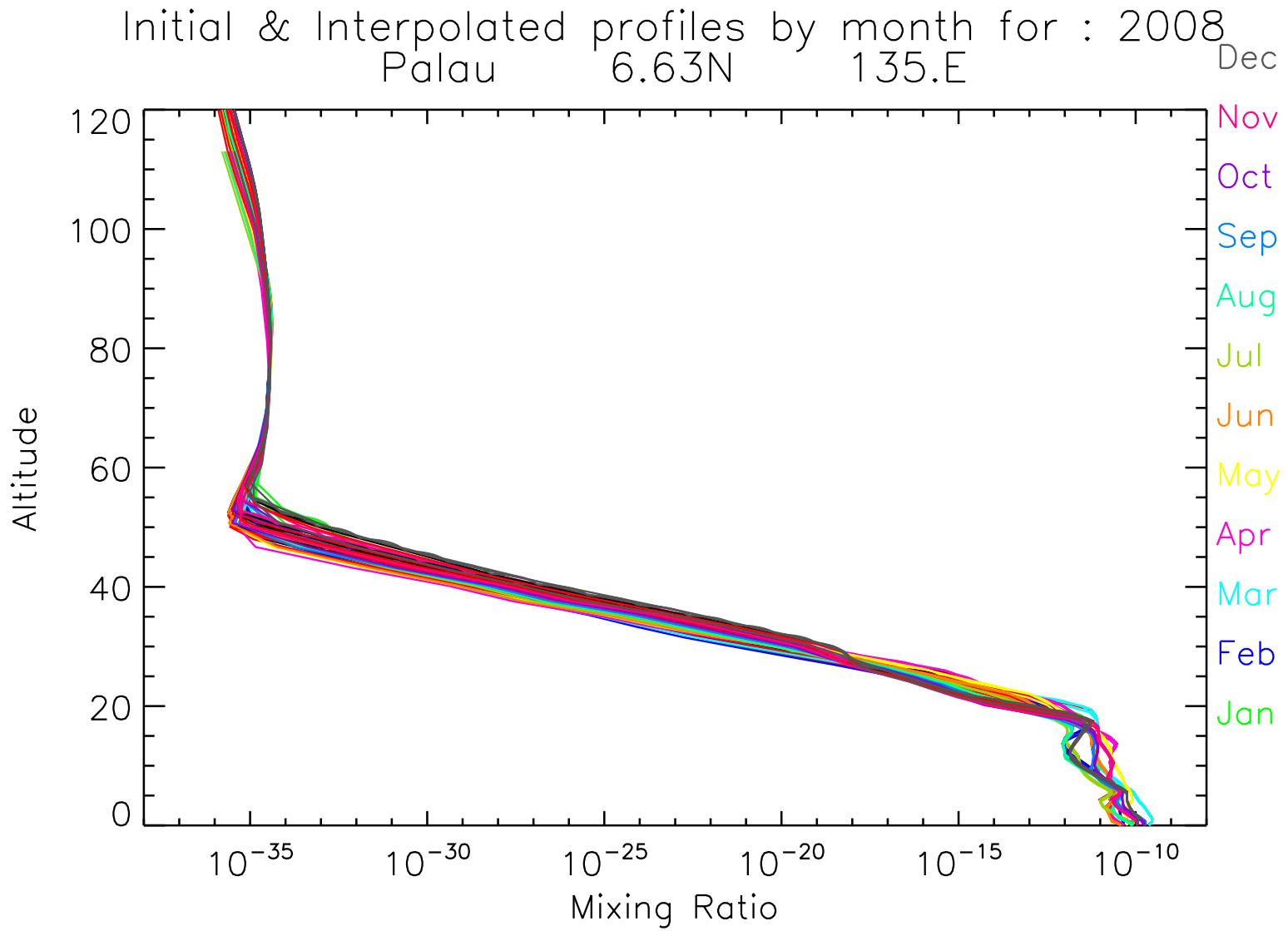
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Palau 6.63N 135.E
Dec
Nov
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May
Apr
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Feb
Jan
Altitude
120
100
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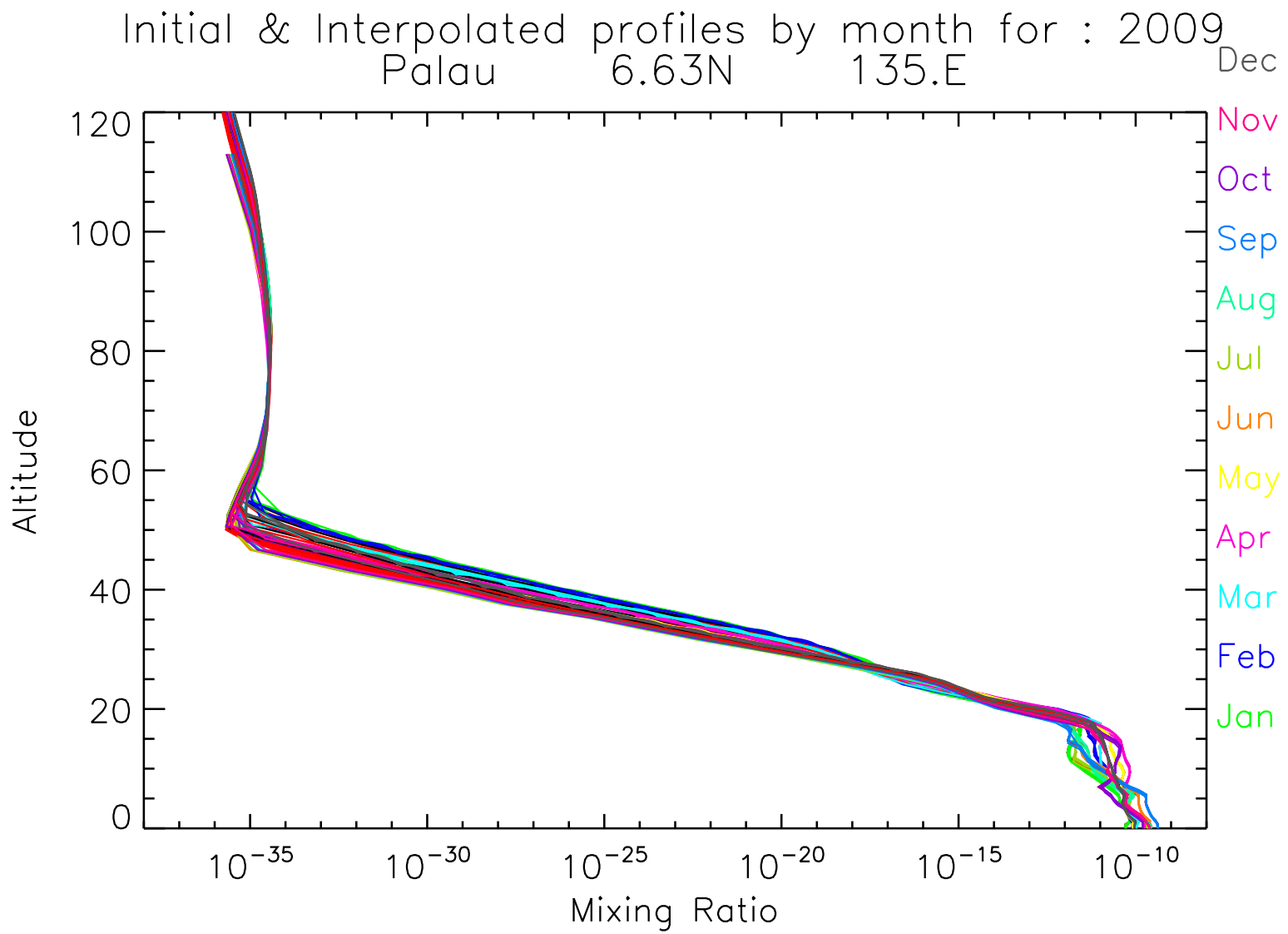
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Palau 6.63N 135.E
Dec
Nov
Oct
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May
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Mar
Feb
Jan
Altitude
120
100
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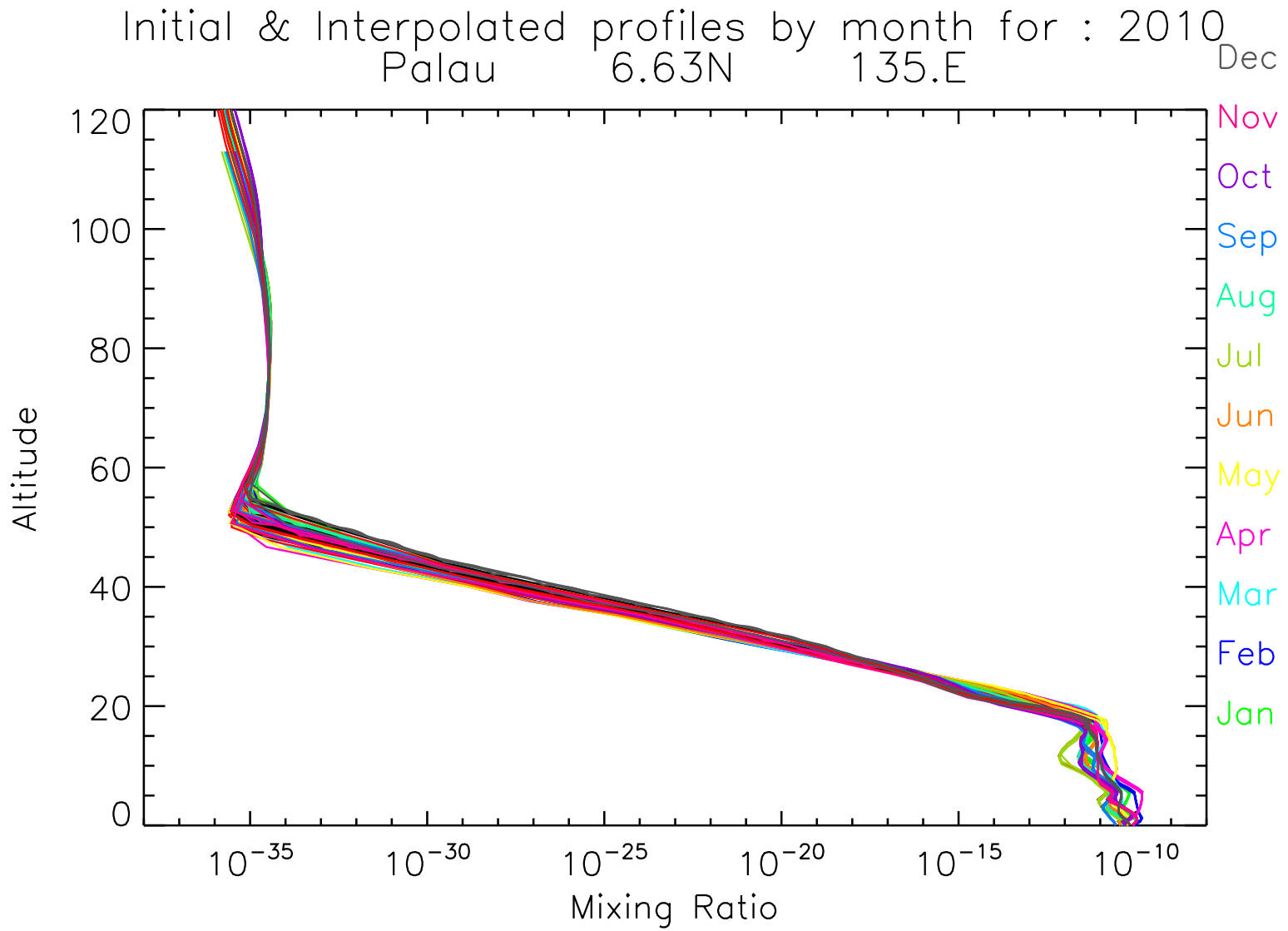
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Palau 6.63N 135.E
Dec
Nov
Oct
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Feb
Jan
Altitude
120
100
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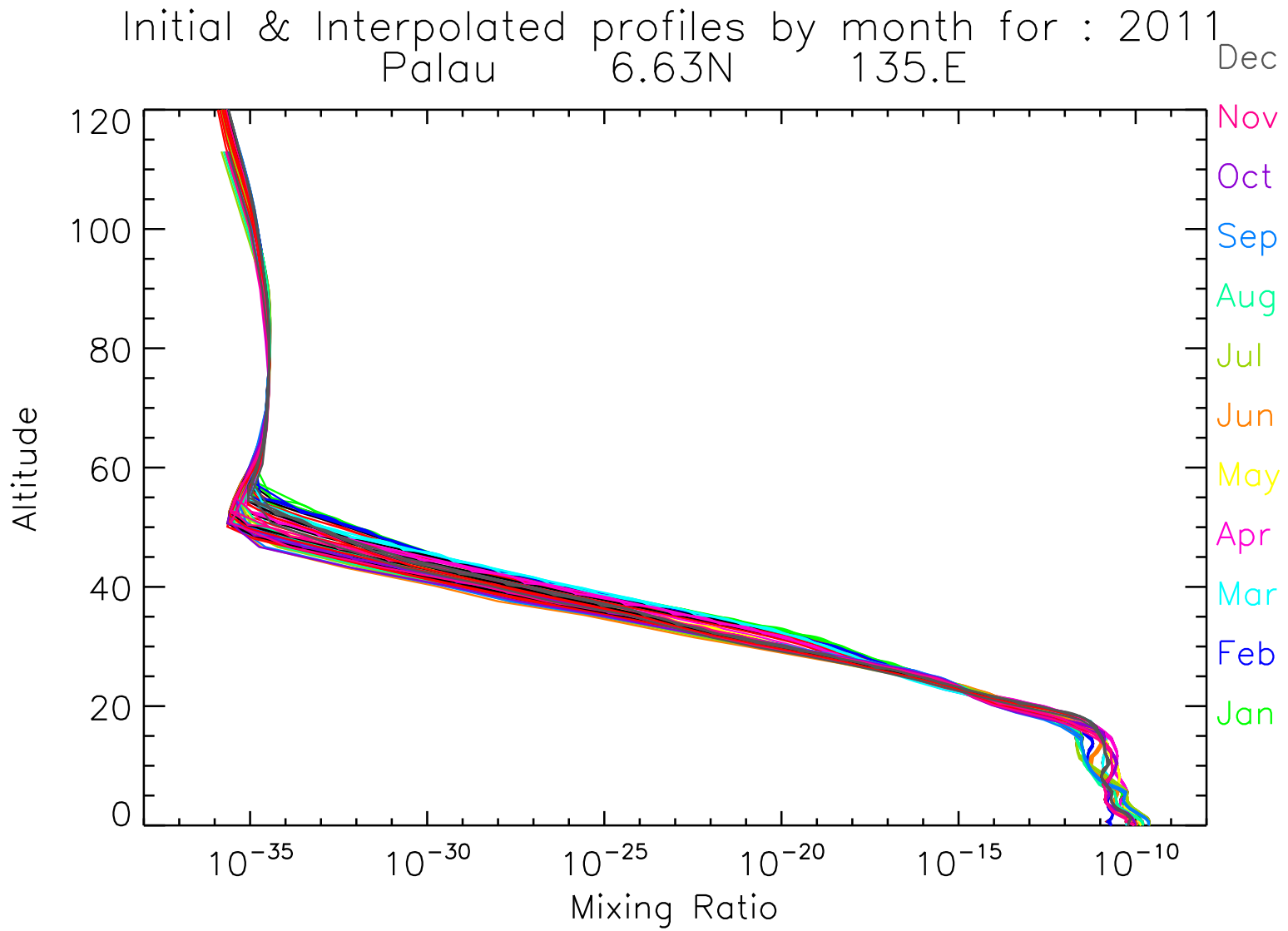
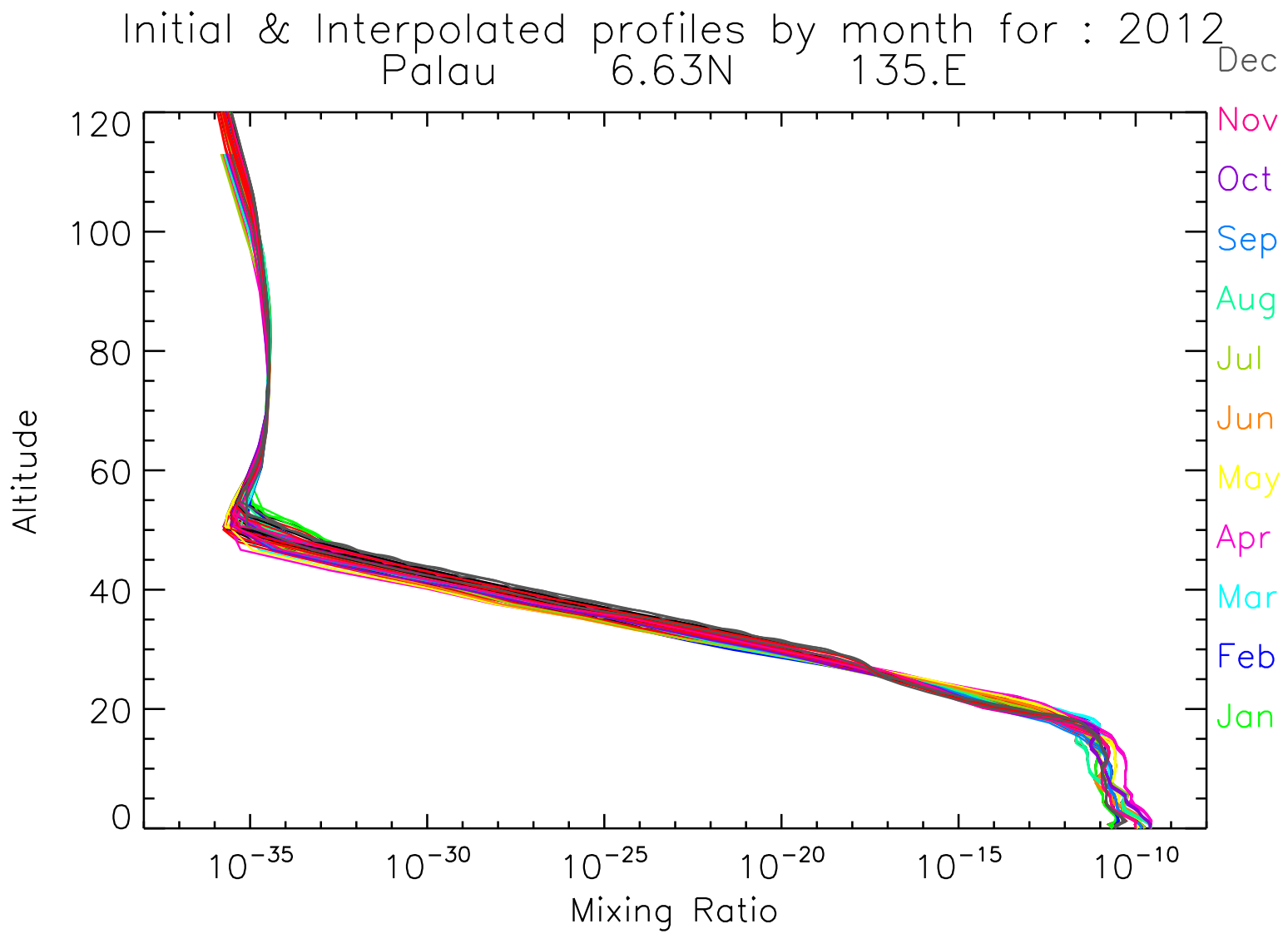
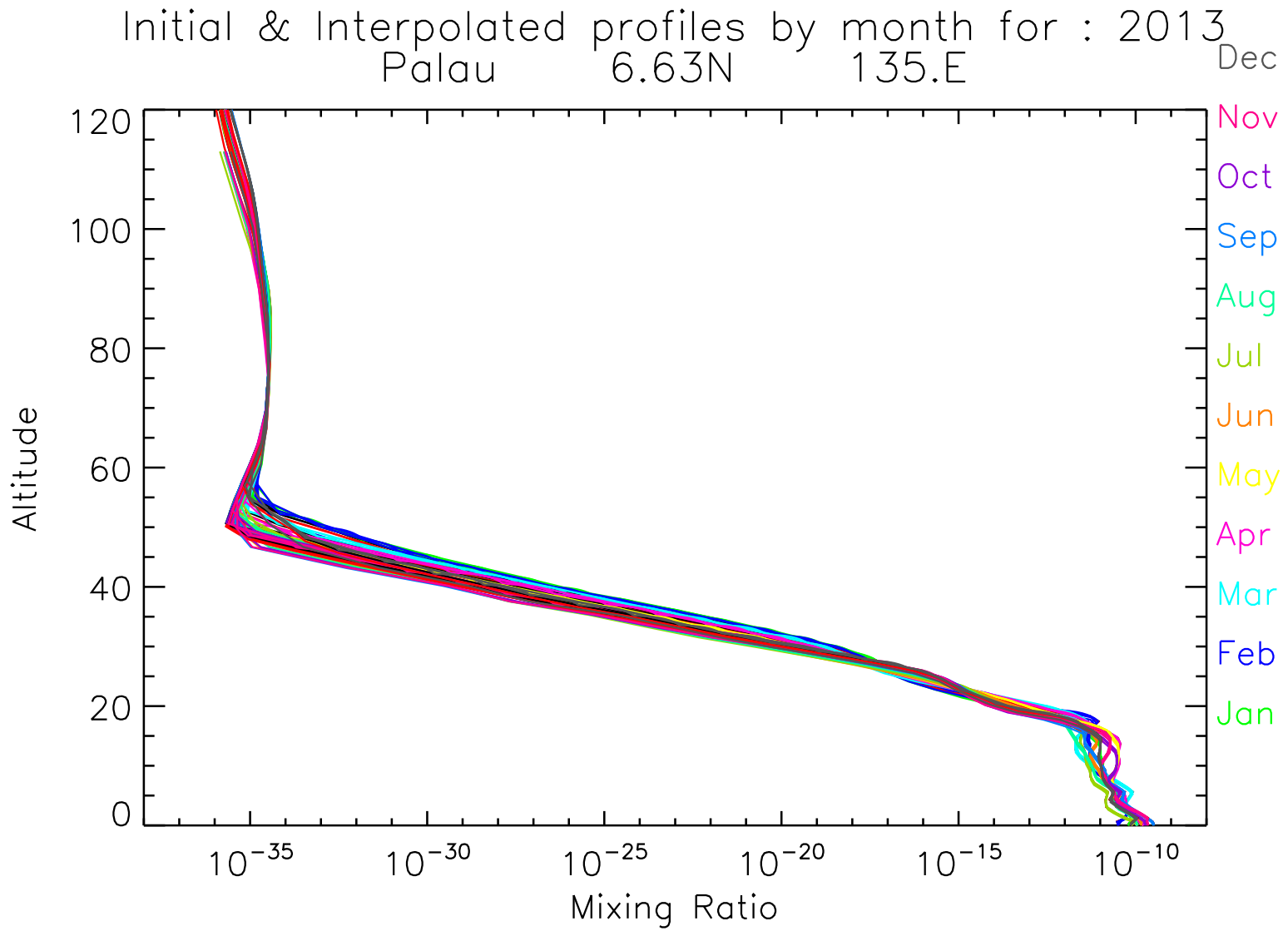
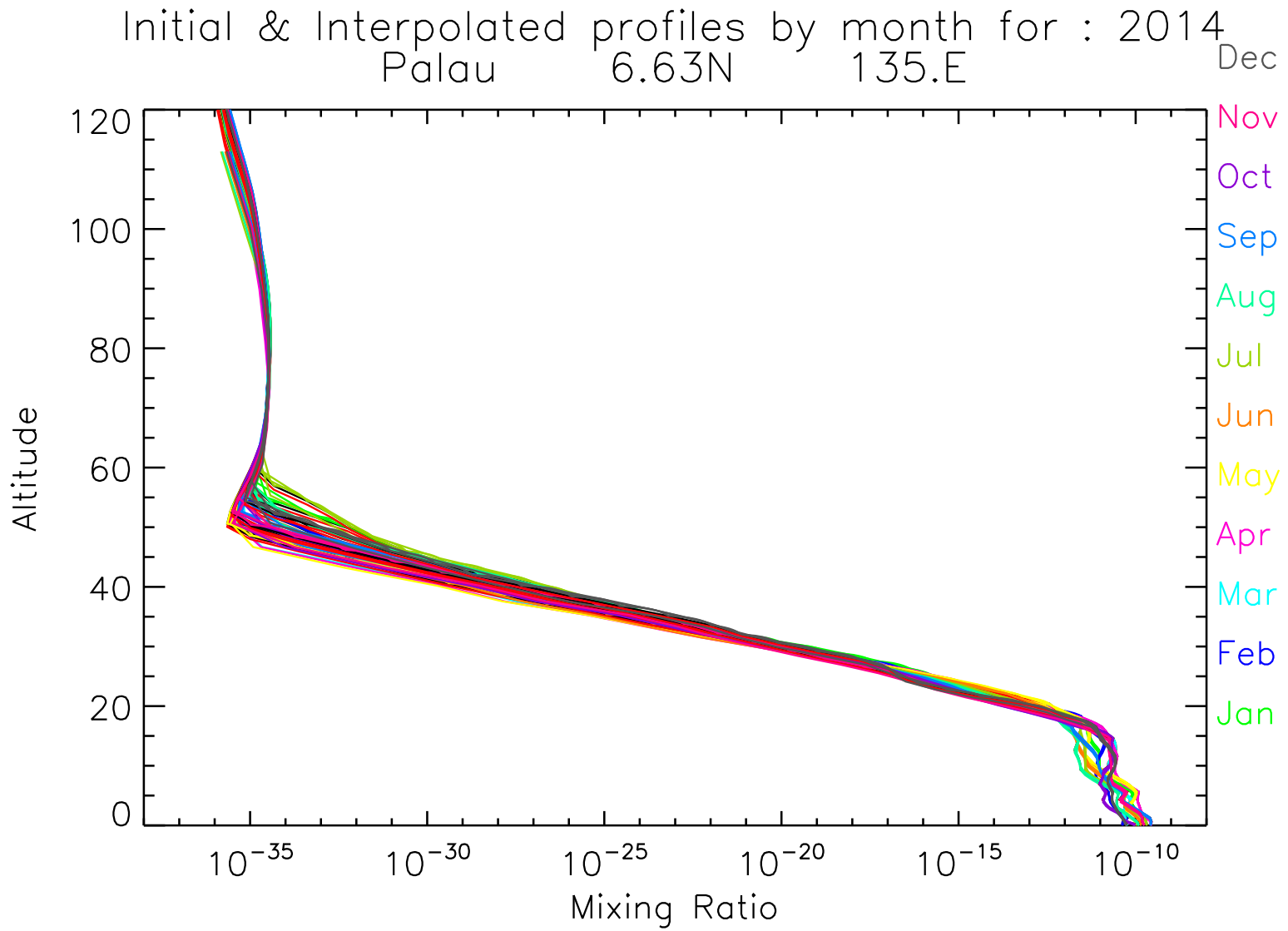
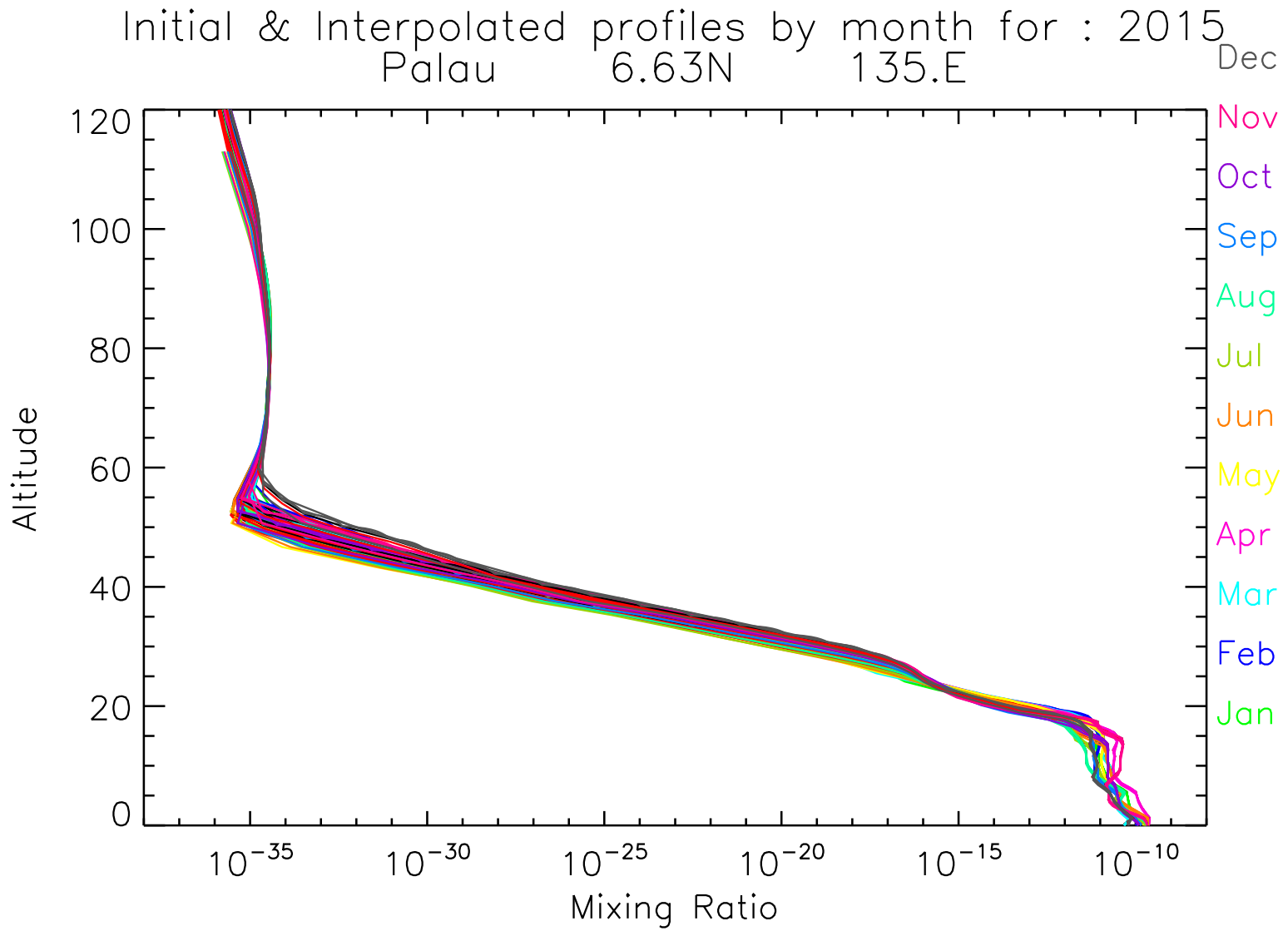
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

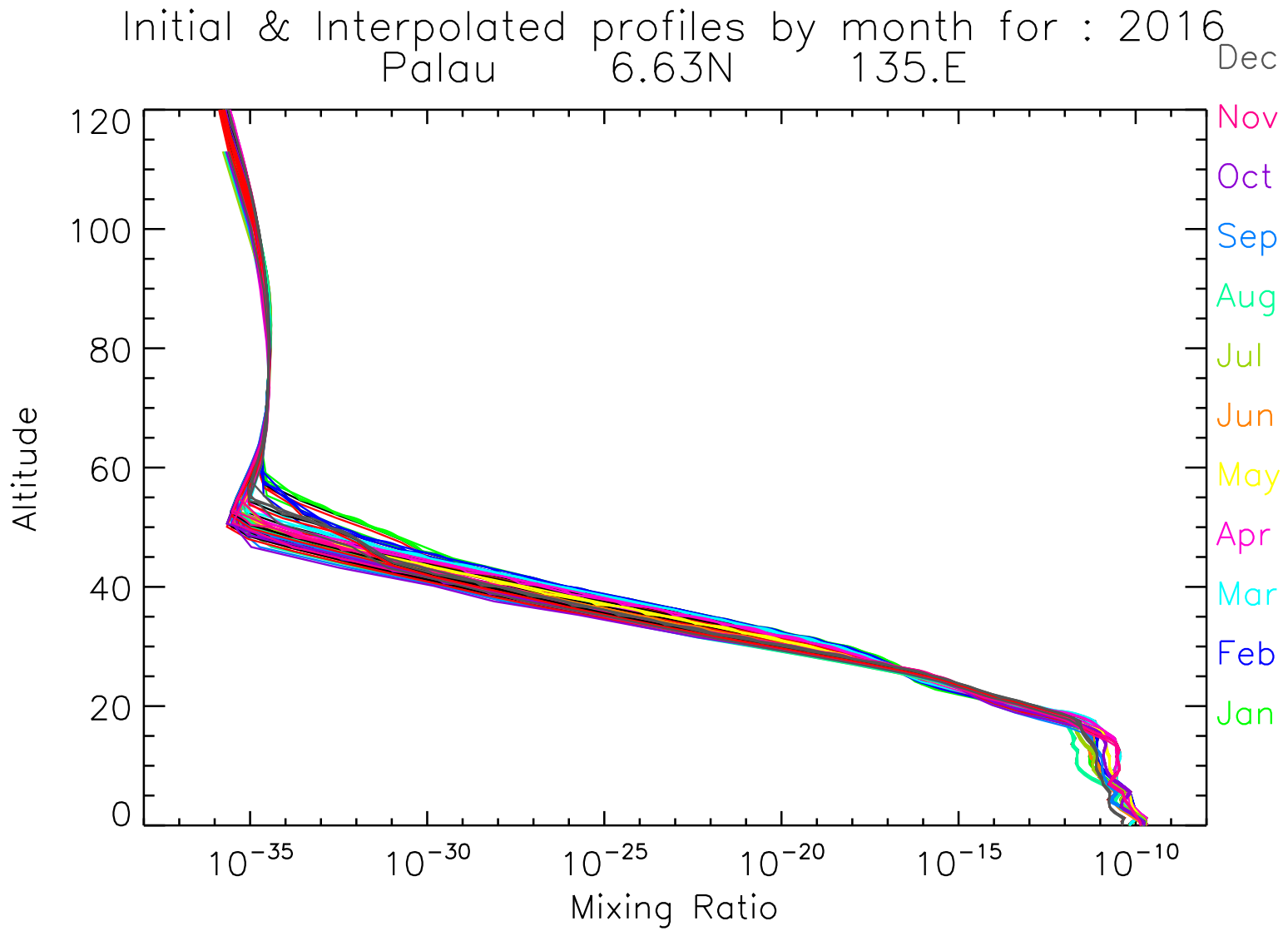

Initial & Interpolated profiles by month for : 2011
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

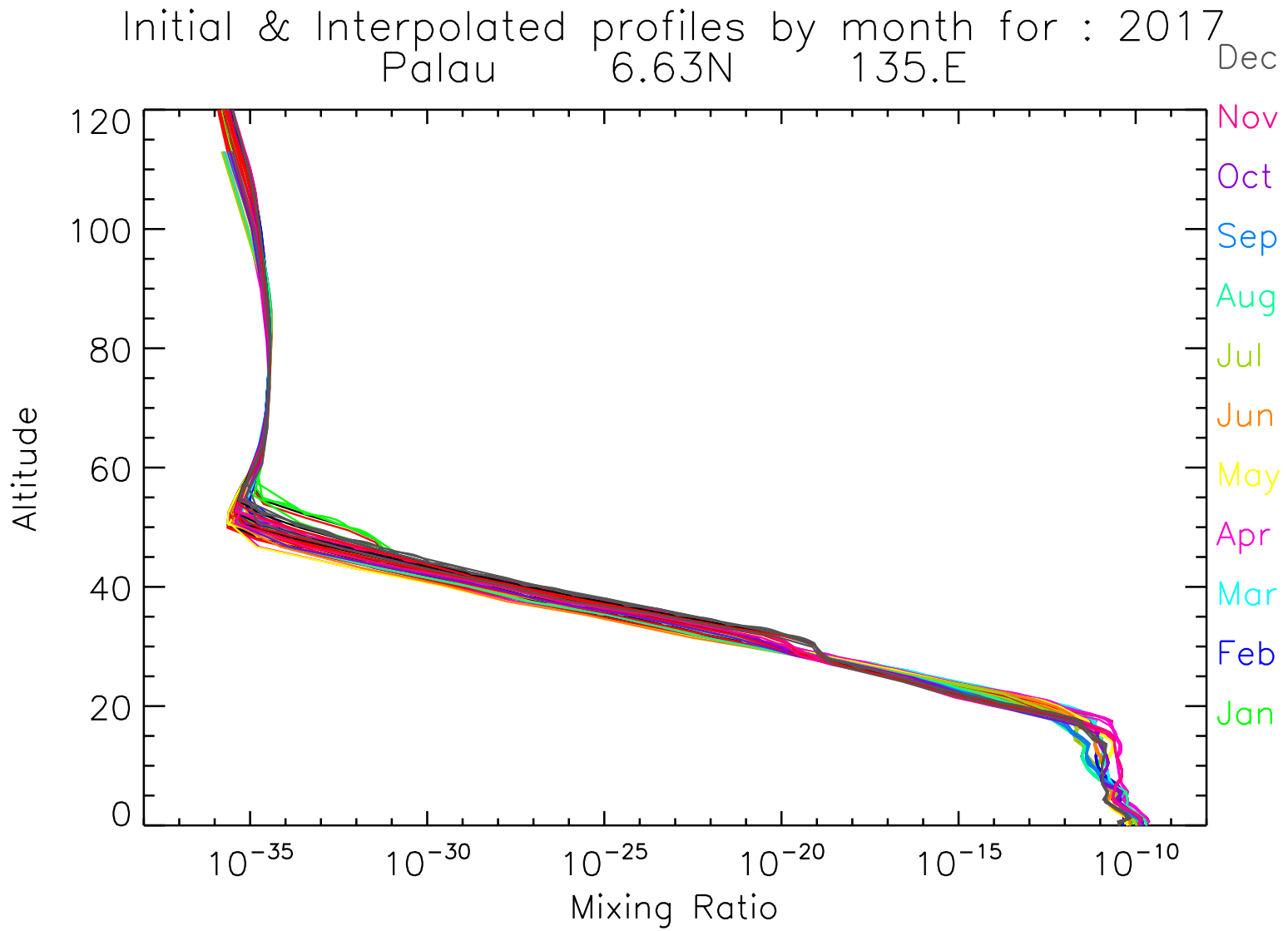

Initial & Interpolated profiles by month for : 2012
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

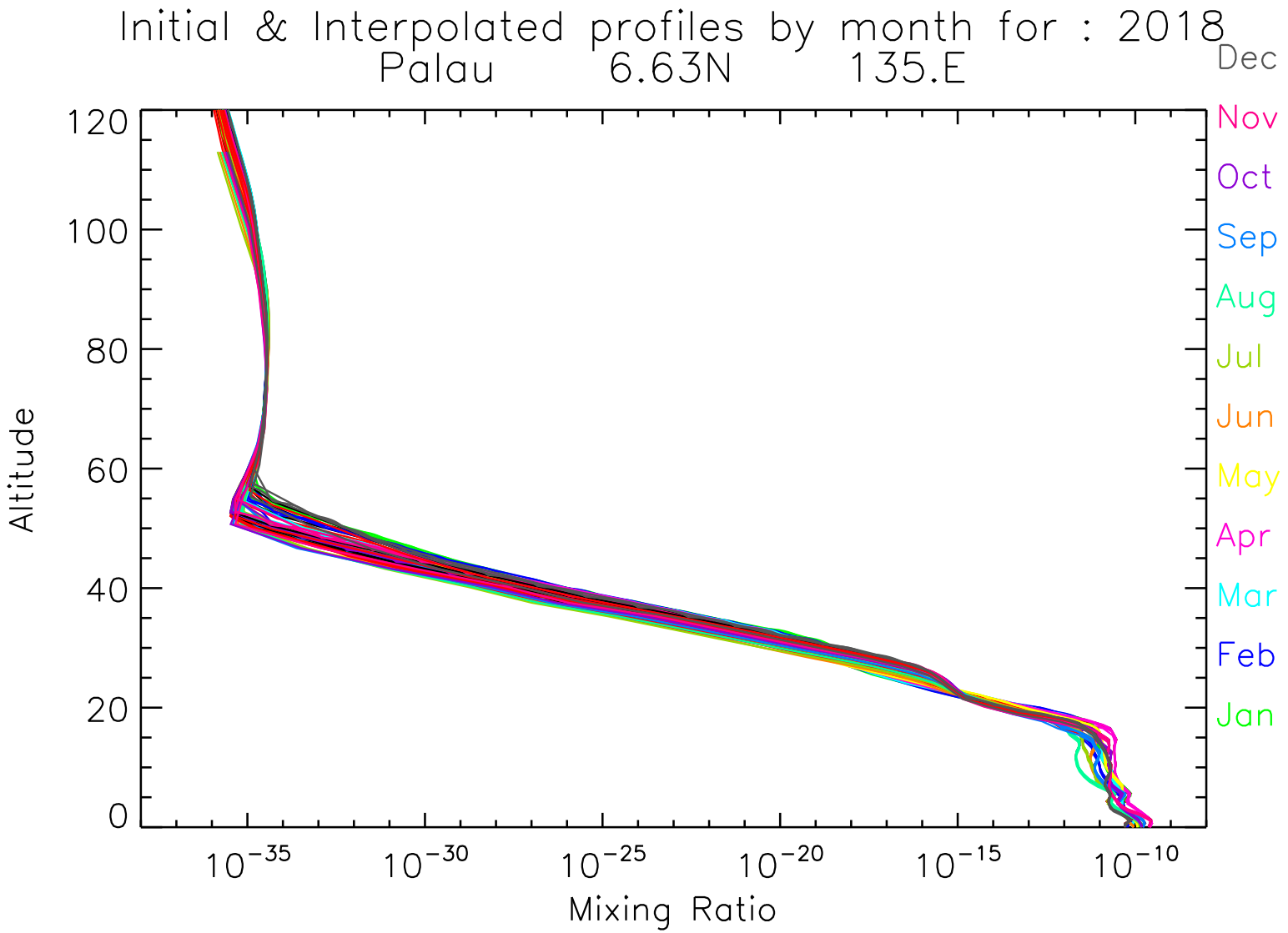

Initial & Interpolated profiles by month for : 2013
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

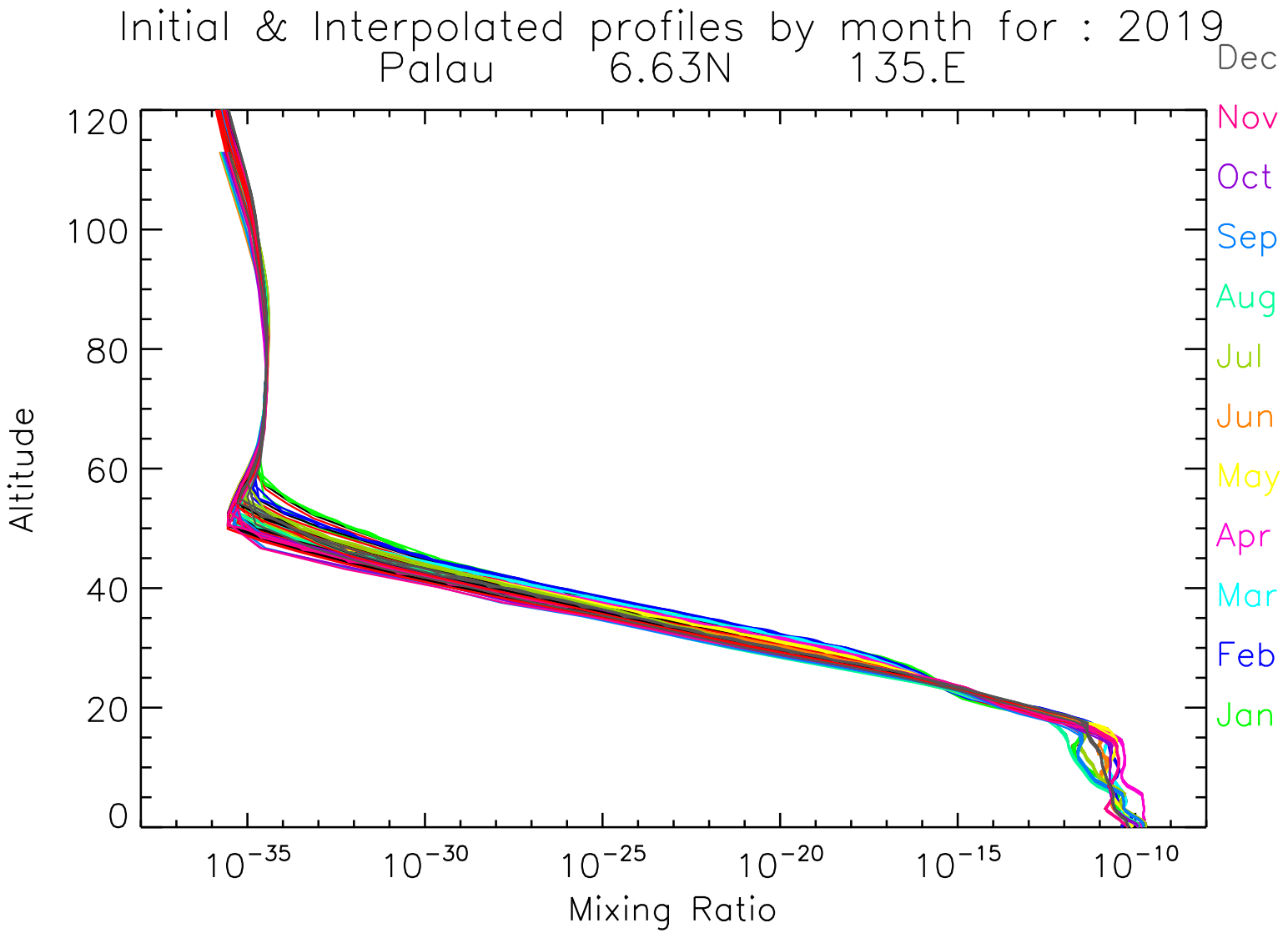

Initial & Interpolated profiles by month for : 2014
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

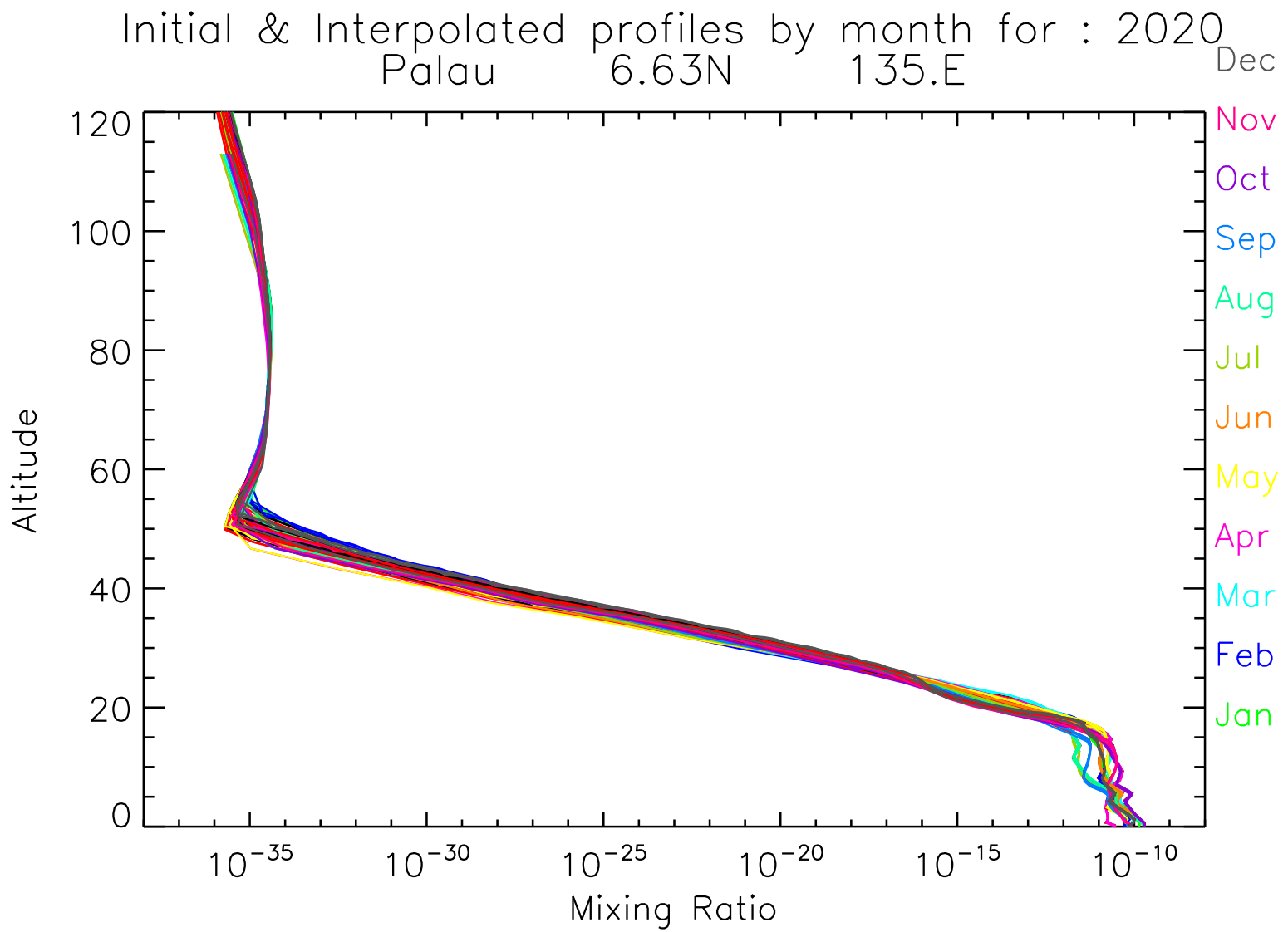

Initial & Interpolated profiles by month for : 2015
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

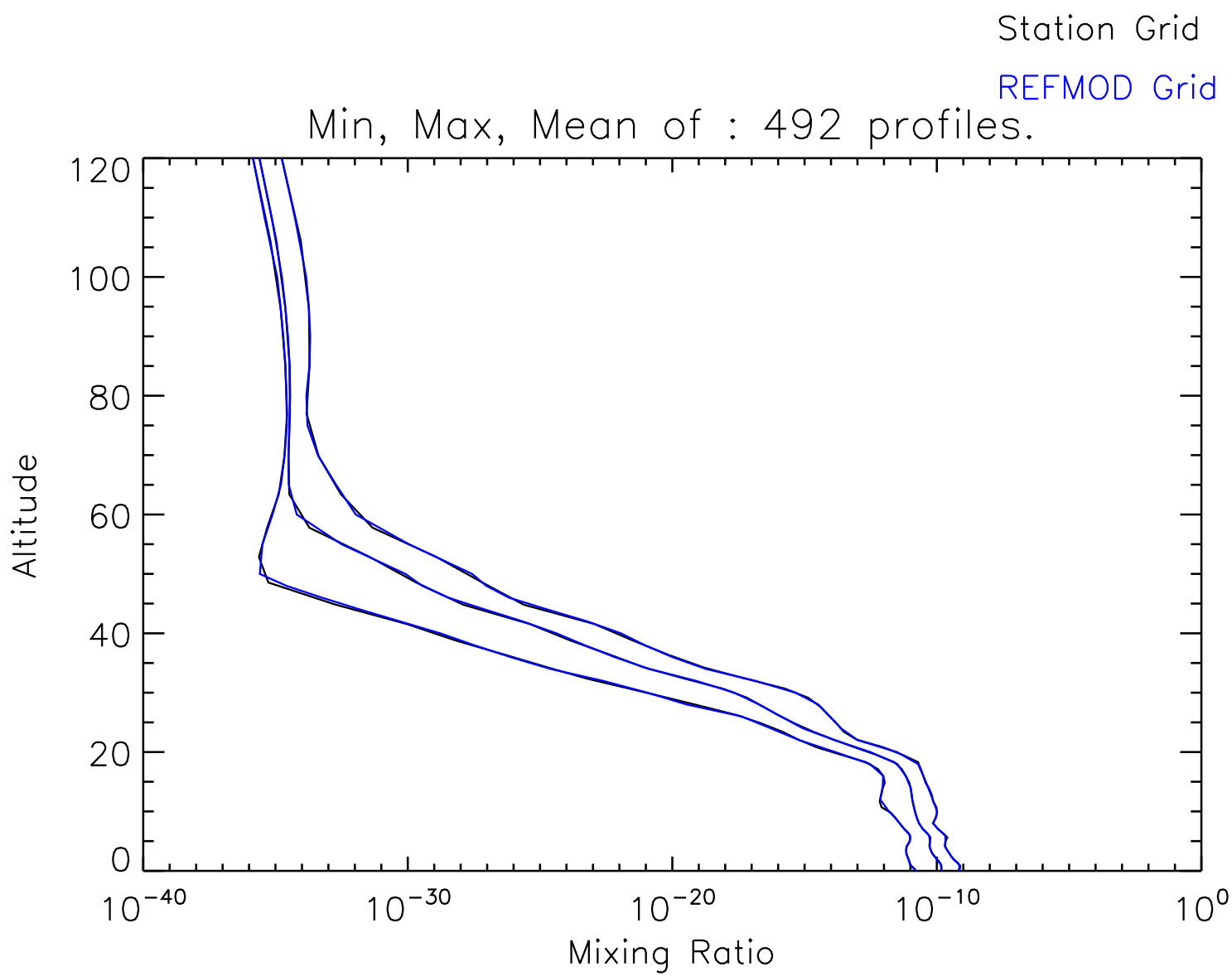

Initial & Interpolated profiles by month for : 2016
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

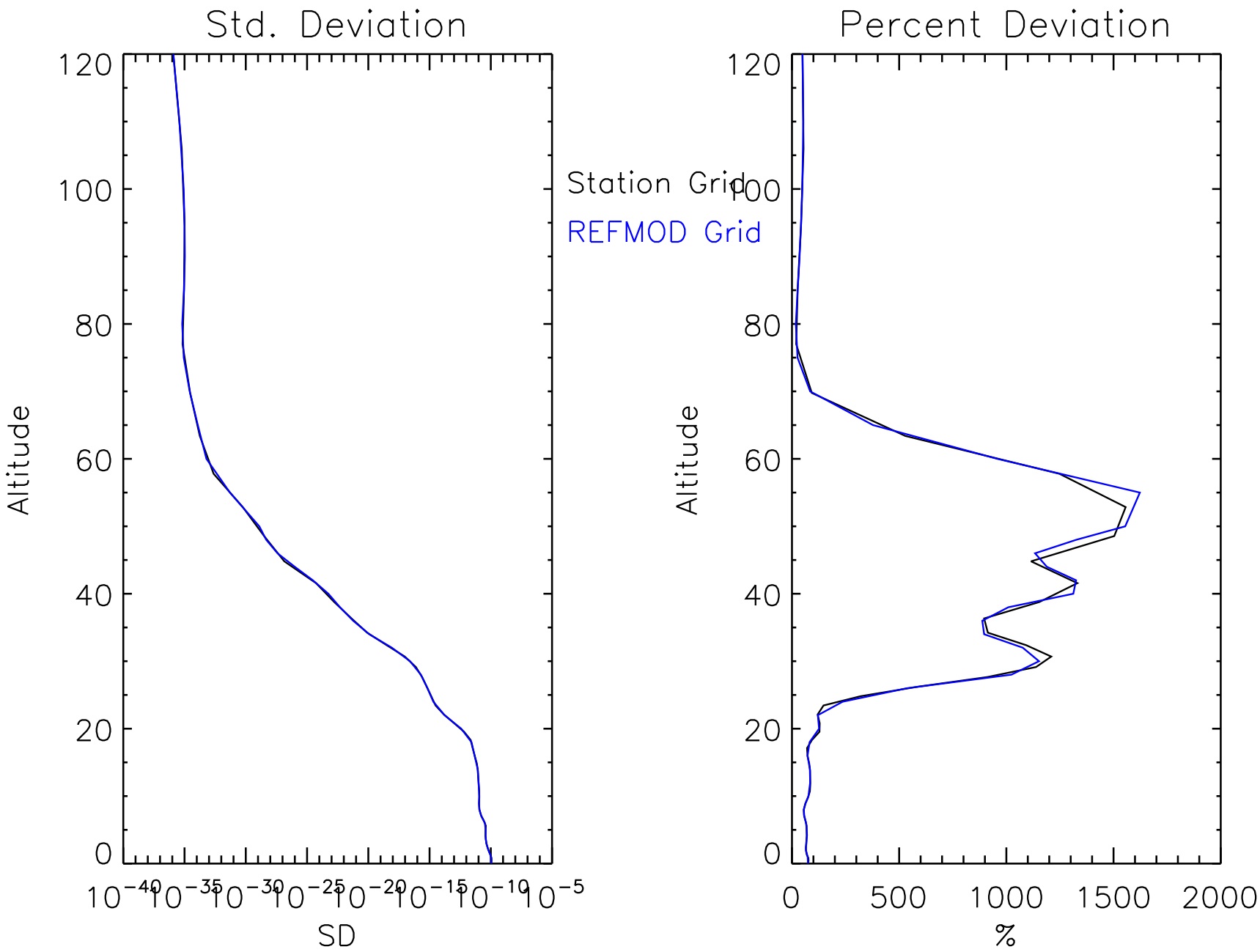

Initial & Interpolated profiles by month for : 2017
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

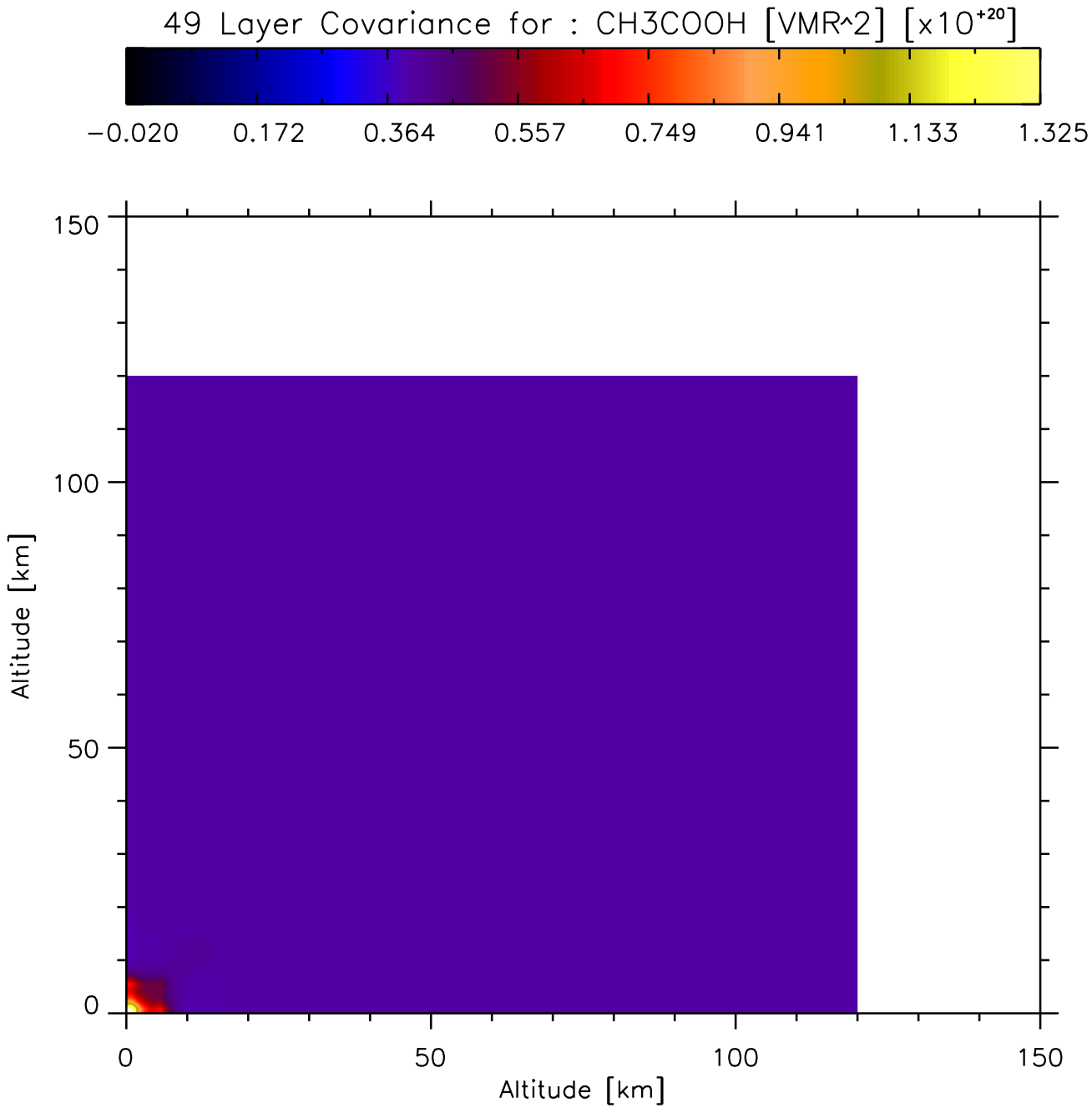

Initial & Interpolated profiles by month for : 2018
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2019
Palau 6.63N 135.E
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

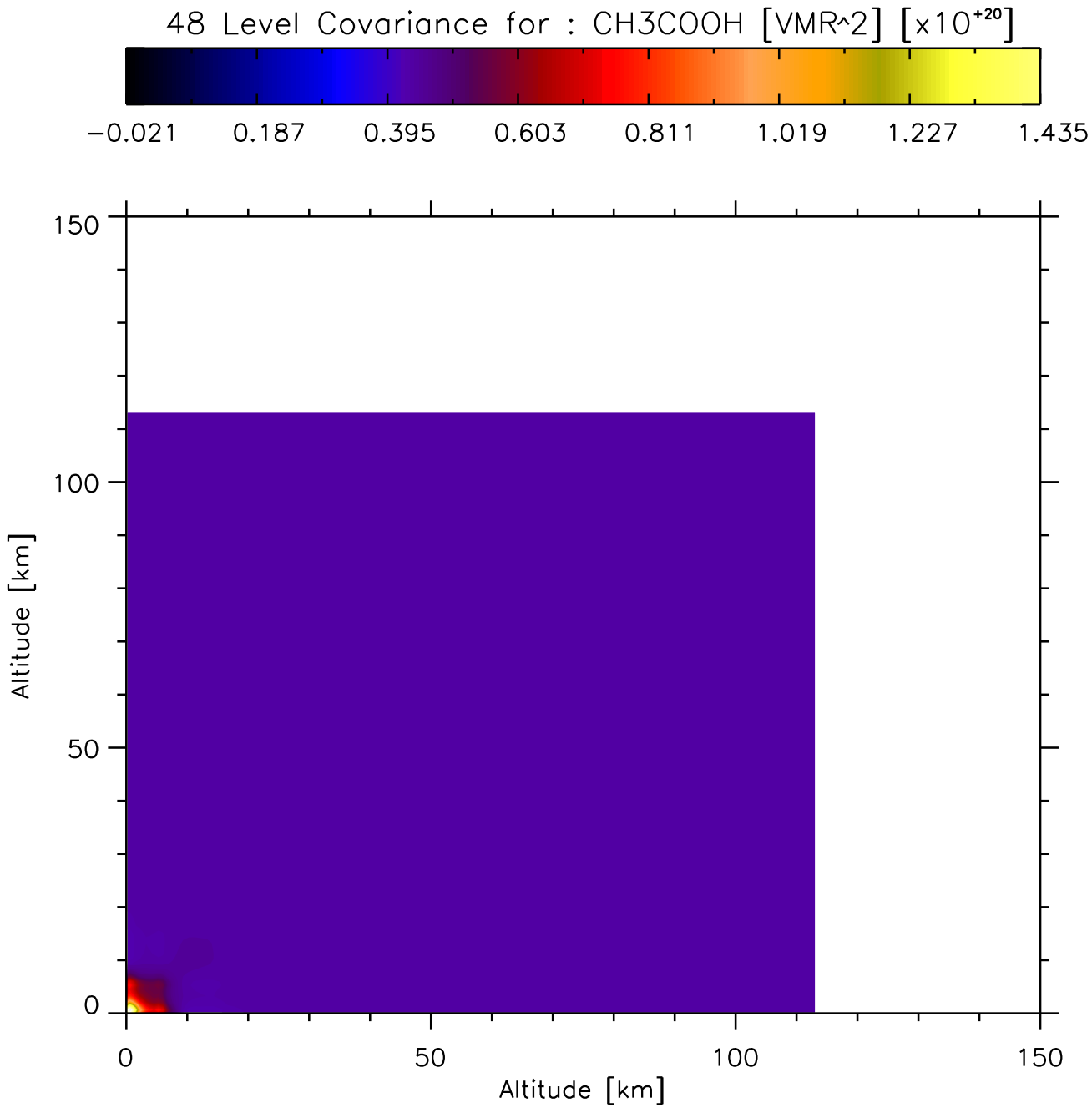

Initial & Interpolated profiles by month for : 2020
Palau 6.63N 135.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio


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
$10^{-40}$ $10^{-35}$ $10^{-30}$ $10^{-25}$ $10^{-20}$ $10^{-15}$ $10^{-10}$ $10^{-5}$
SD
0 500 1000 1500 2000
%


49 Layer Covariance for : CH3COOH [VMR^2] [x10^+20]
−0.020
0.172
0.364
0.557
0.749
0.941
1.133
1.325
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : CH3COOH [VMR^2] [x10^20]
1.5
1.0
0.5
0.0
Y Altitude
0
20
40
60
0
50
100
150
X Altitude


48 Level Covariance for : CH3COOH [VMR^2] [x10^+20]
−0.021
0.187
0.395
0.603
0.811
1.019
1.227
1.435
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : CH3COOH [VMR^2] [x10^-20]
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Y Altitude
0
20
40
60
80
100
120
140
160
X Altitude
0
50
100
150