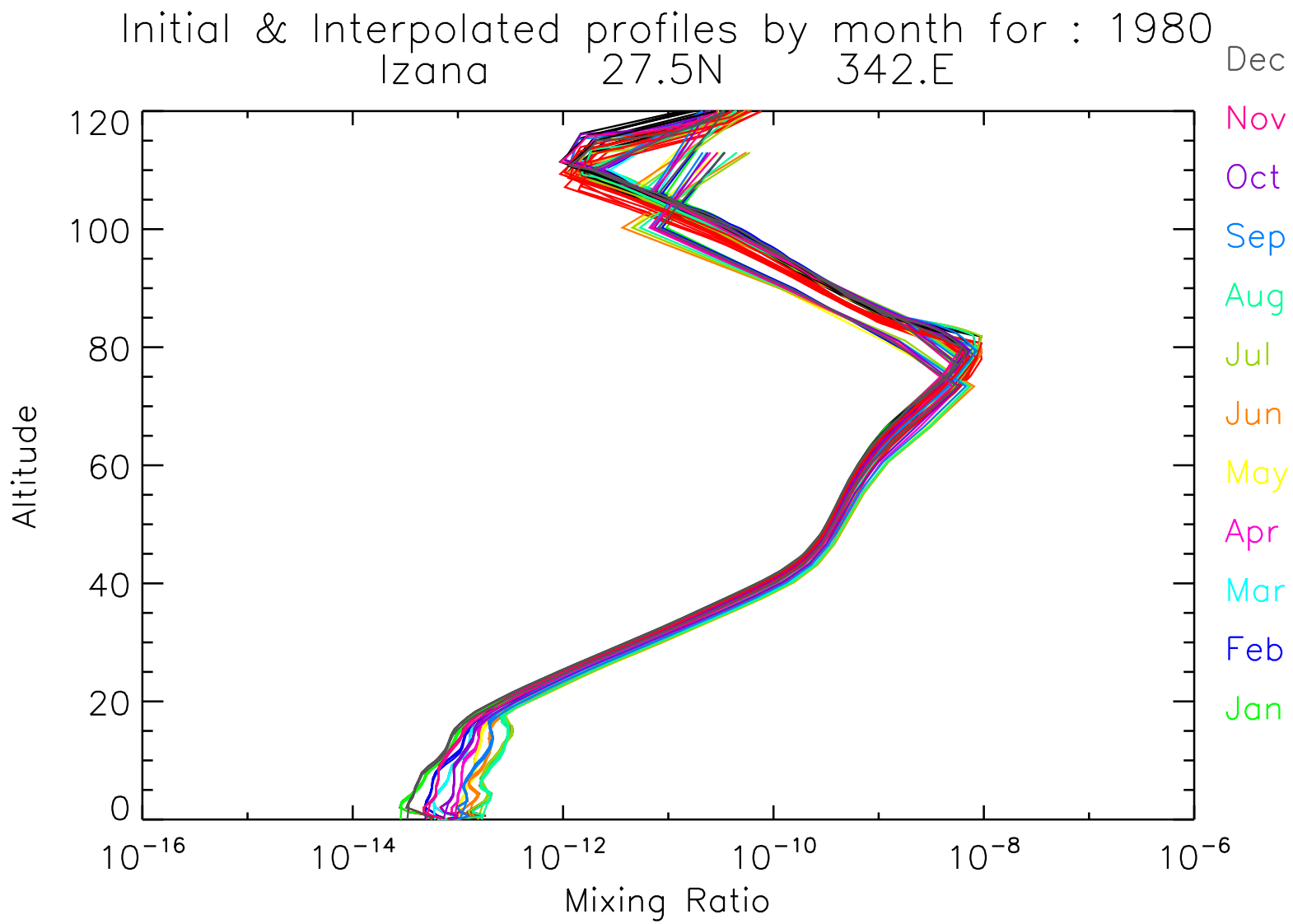
Initial & Interpolated profiles by month for : 1980
Izana 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
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10^{-6}
Mixing Ratio
Dec
Nov
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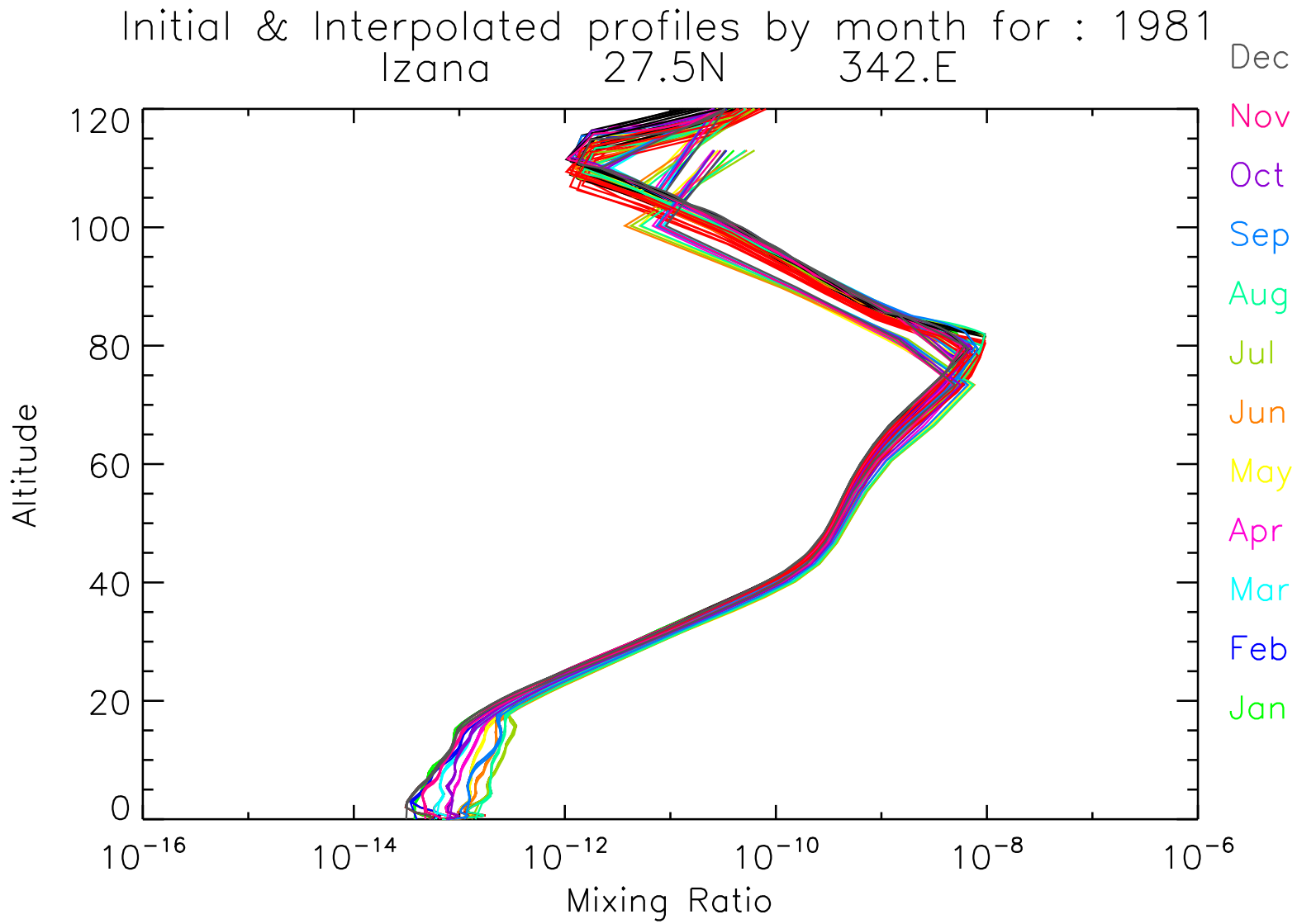
Initial & Interpolated profiles by month for : 1981
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
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Feb
Jan
120
100
80
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40
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0
Altitude
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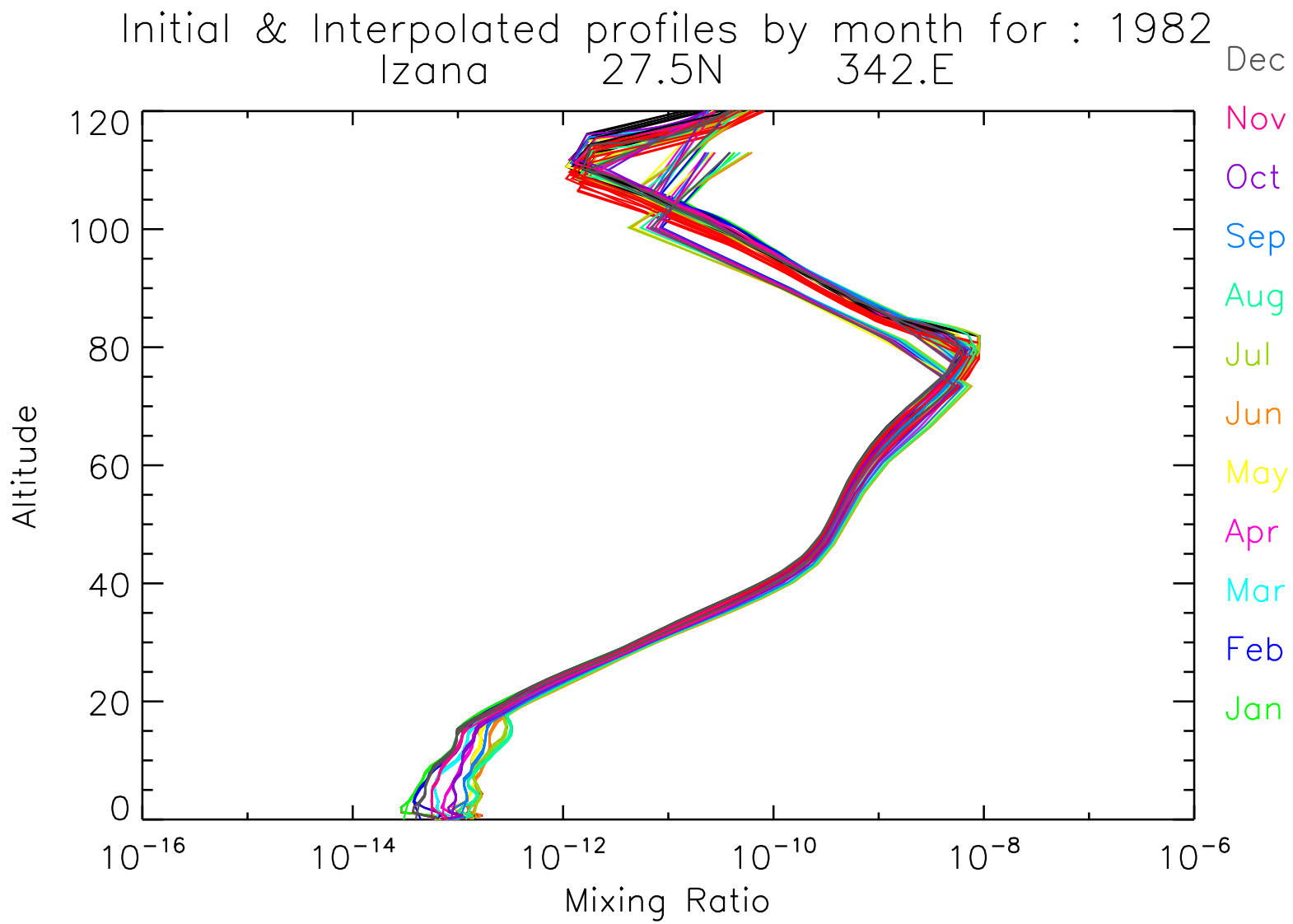
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Izana 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
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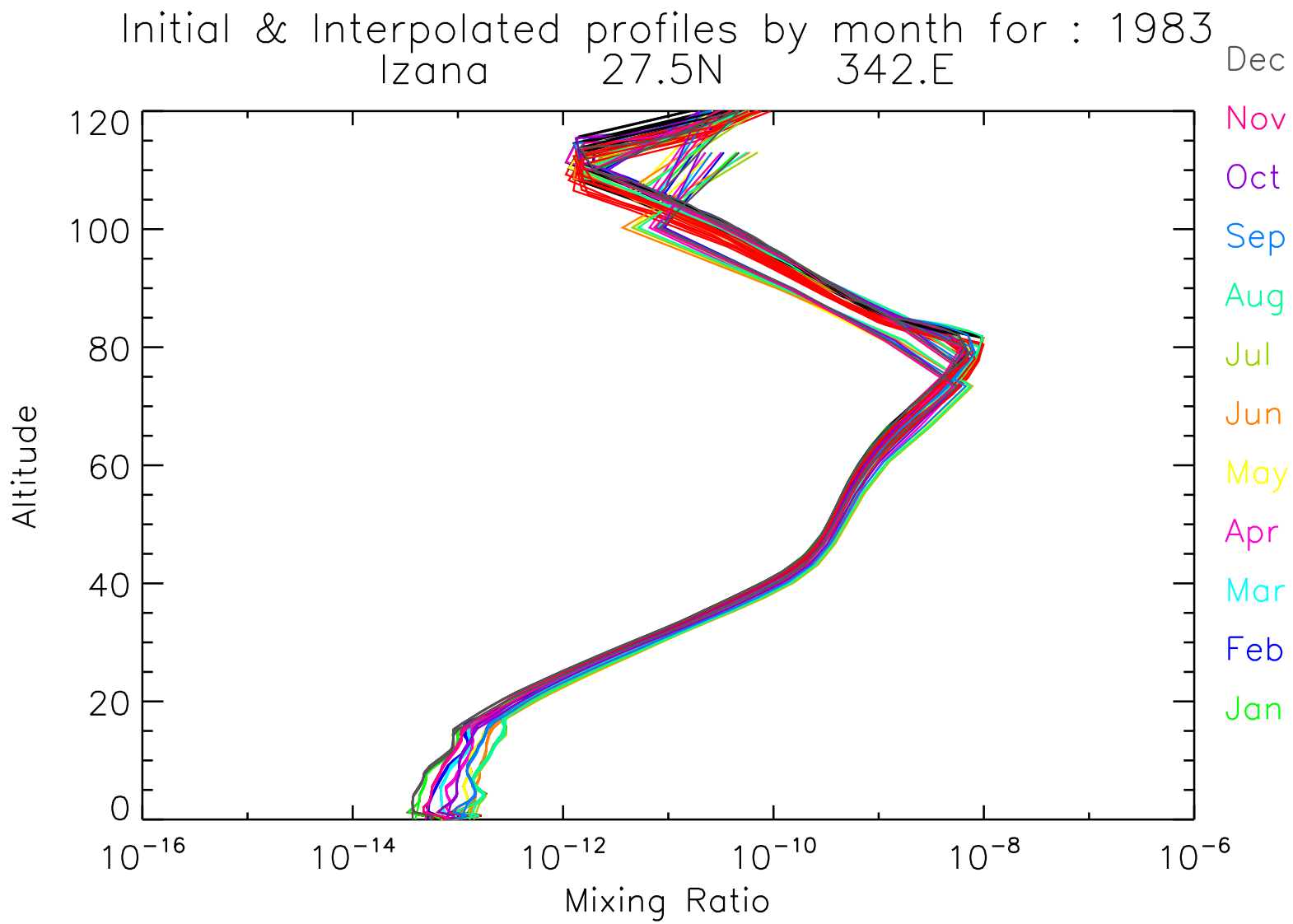
Feb
Jan


Initial & Interpolated profiles by month for : 1983
Izana 27.5N 342.E
Dec
Nov
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120
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Altitude
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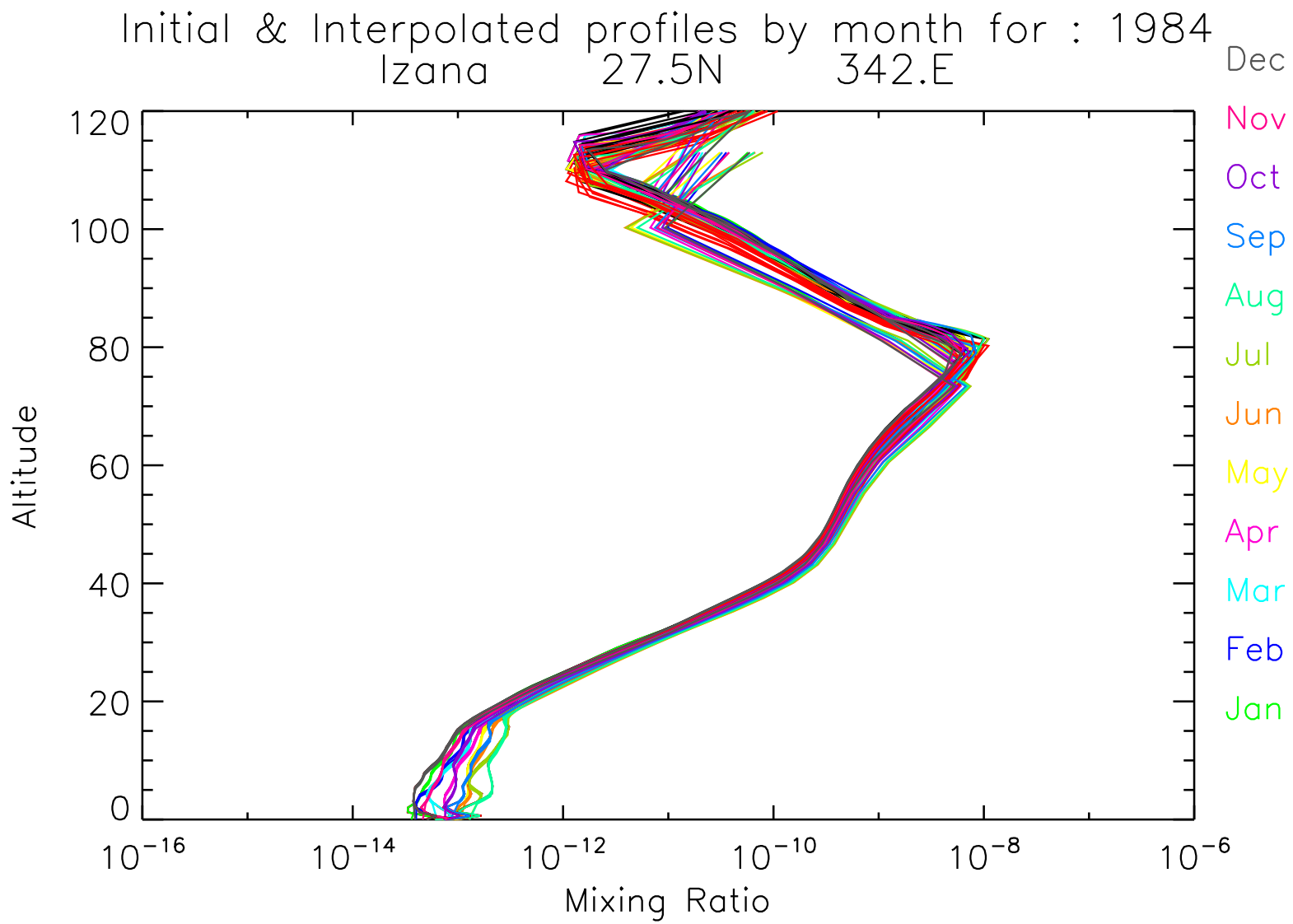
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
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Feb
Jan
120
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Altitude
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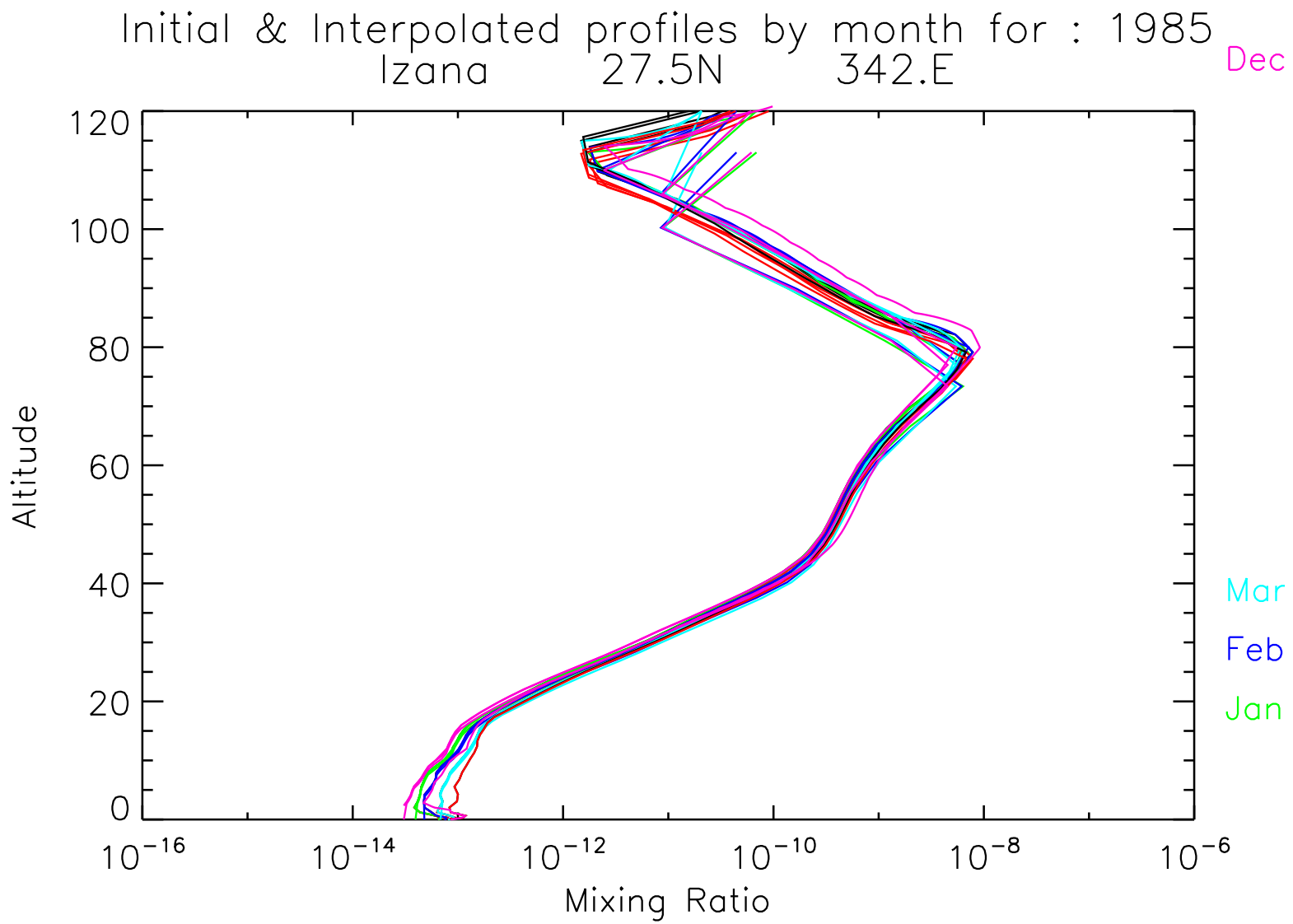
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Izana 27.5N 342.E
Dec
Mar
Feb
Jan
Altitude
120
100
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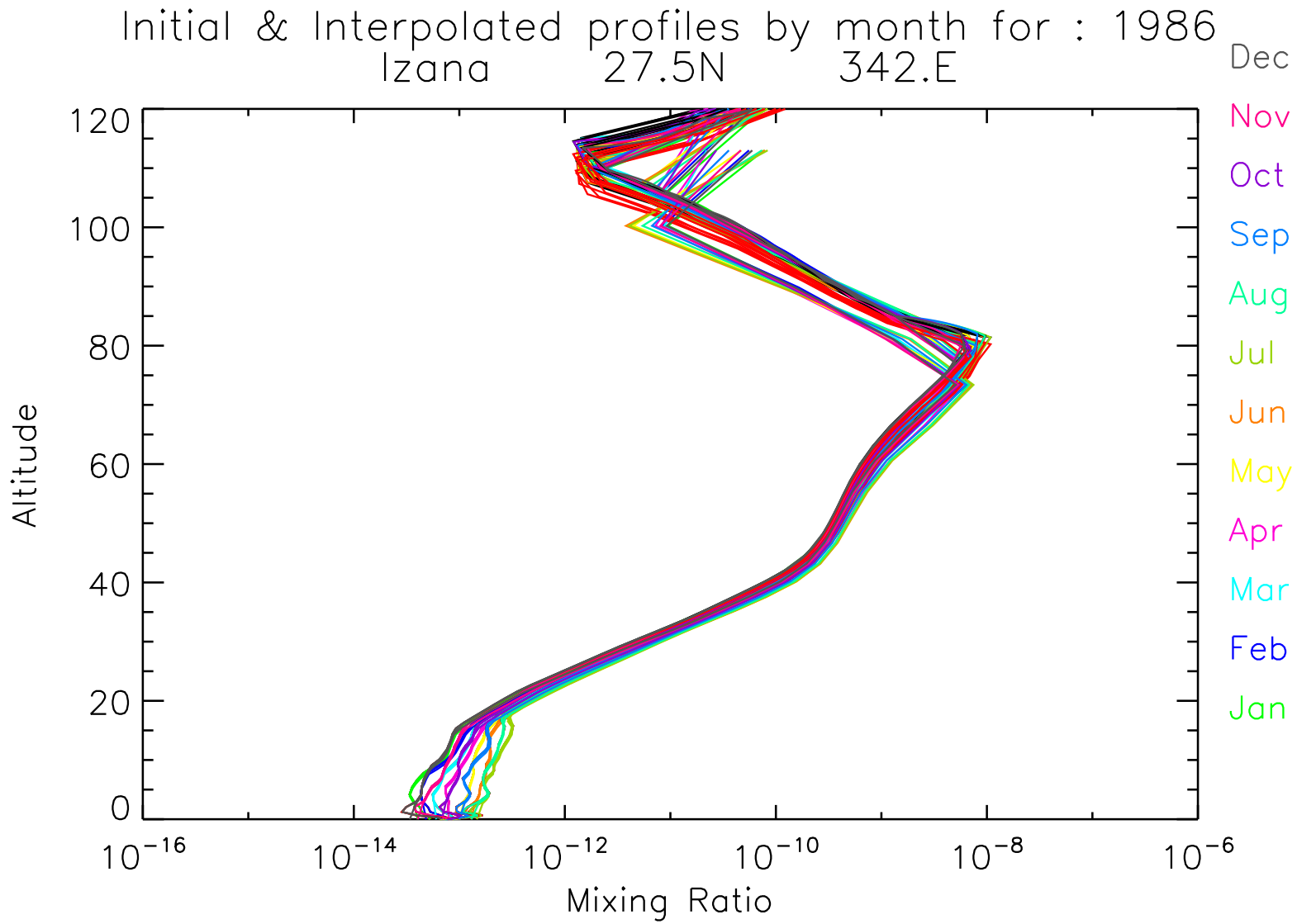
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Izana 27.5N 342.E
Dec
Nov
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Jan
120
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Altitude
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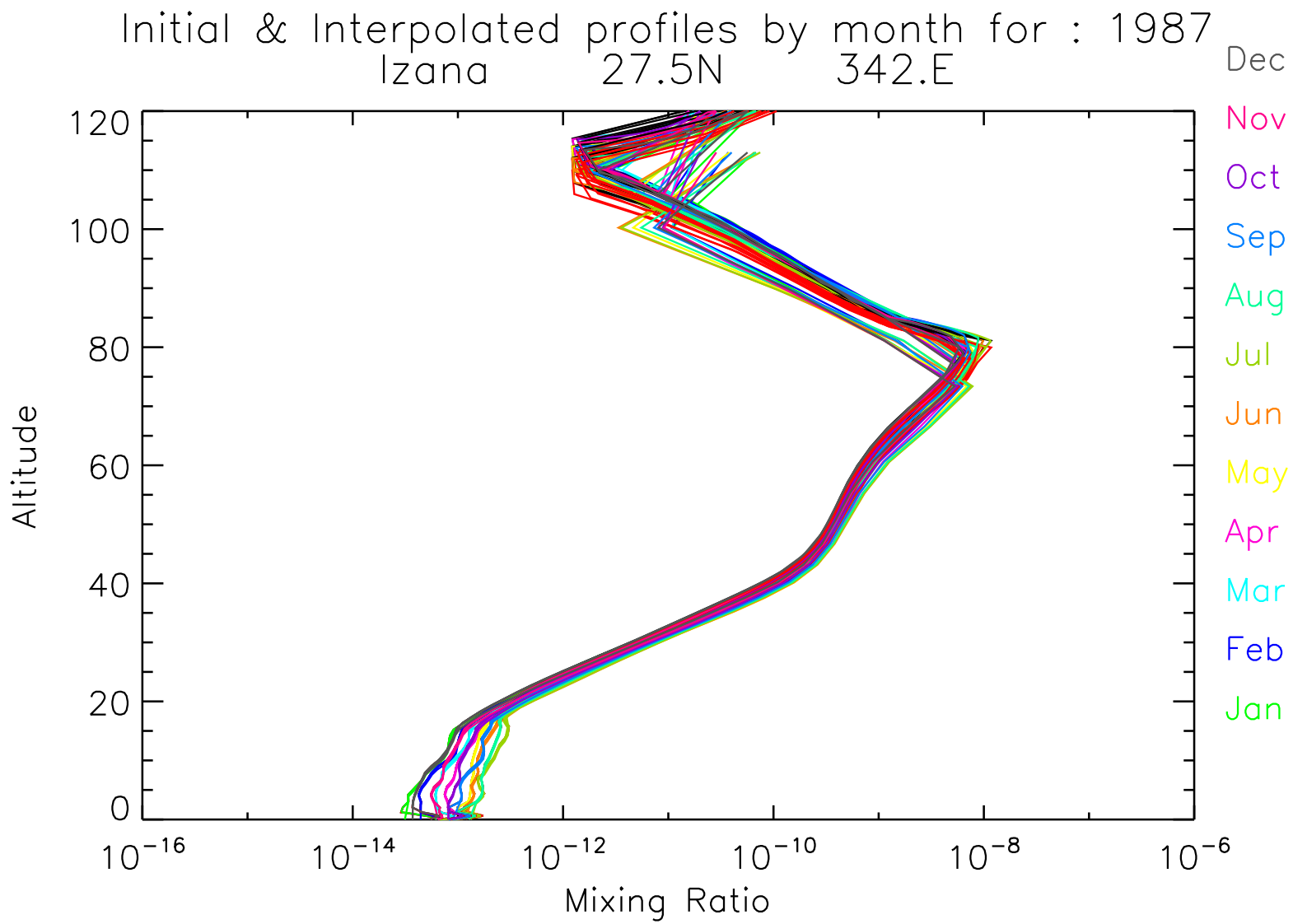
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Izana 27.5N 342.E
Altitude
120
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20
0
10^{-16}
10^{-14}
10^{-12}
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10^{-6}
Mixing Ratio
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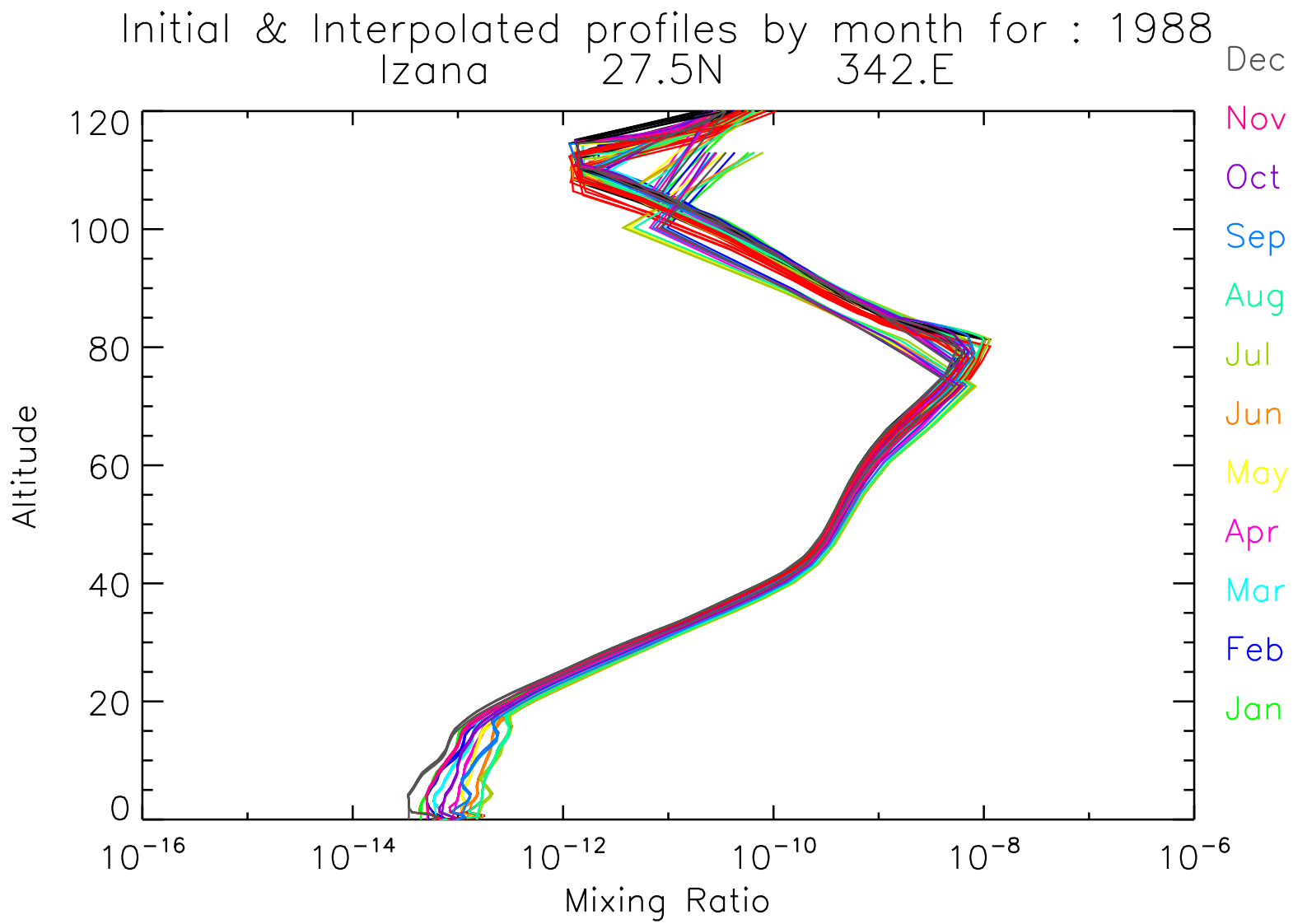
Initial & Interpolated profiles by month for : 1988
Izana 27.5N 342.E
Altitude
120
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10^{-16}
10^{-14}
10^{-12}
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10^{-6}
Mixing Ratio
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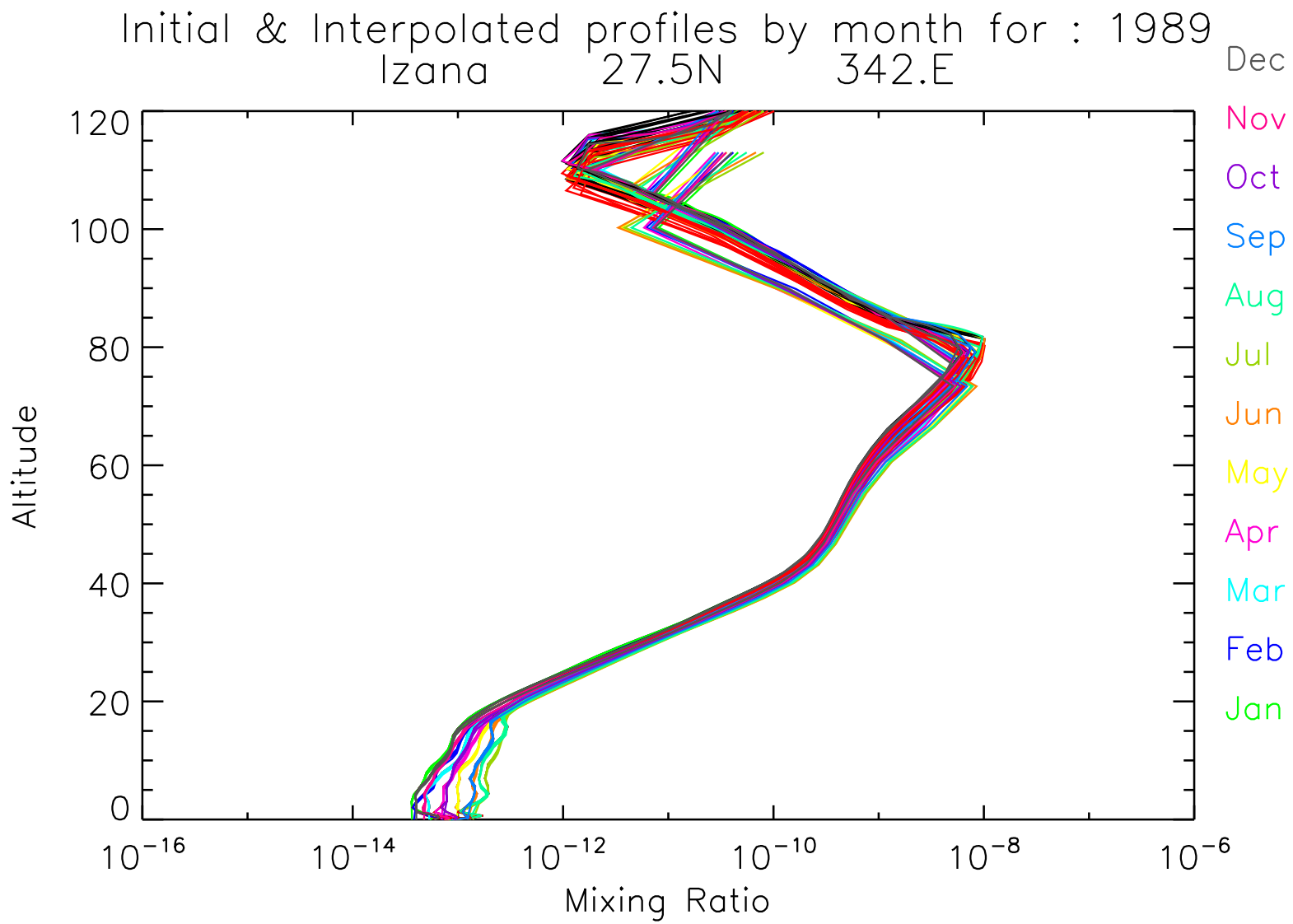
Jan


Initial & Interpolated profiles by month for : 1989
Izana 27.5N 342.E
Dec
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120
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Altitude
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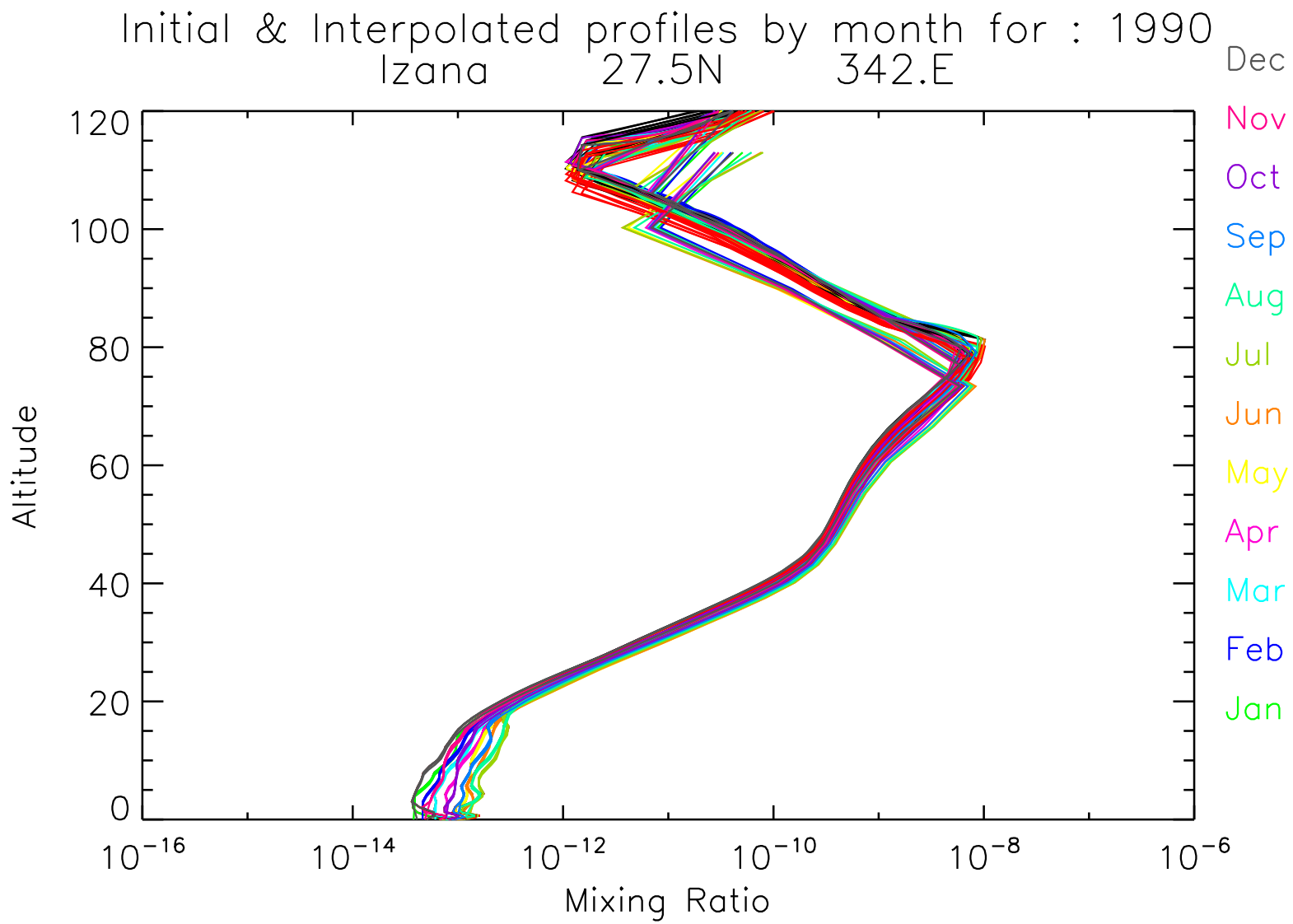
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Izana 27.5N 342.E
Dec
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Altitude
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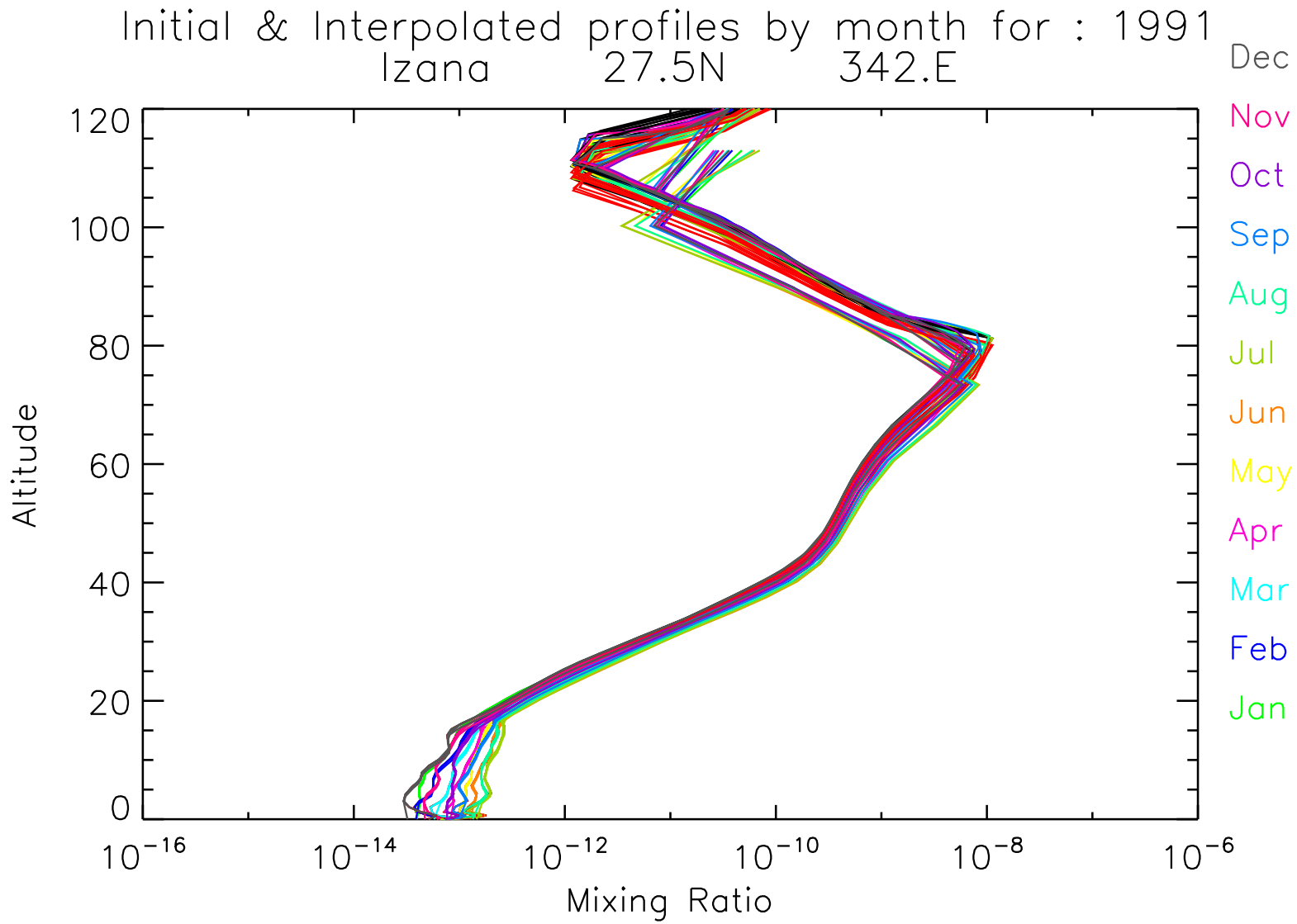
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Izana 27.5N 342.E
Dec
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Apr
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Feb
Jan
120
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Altitude
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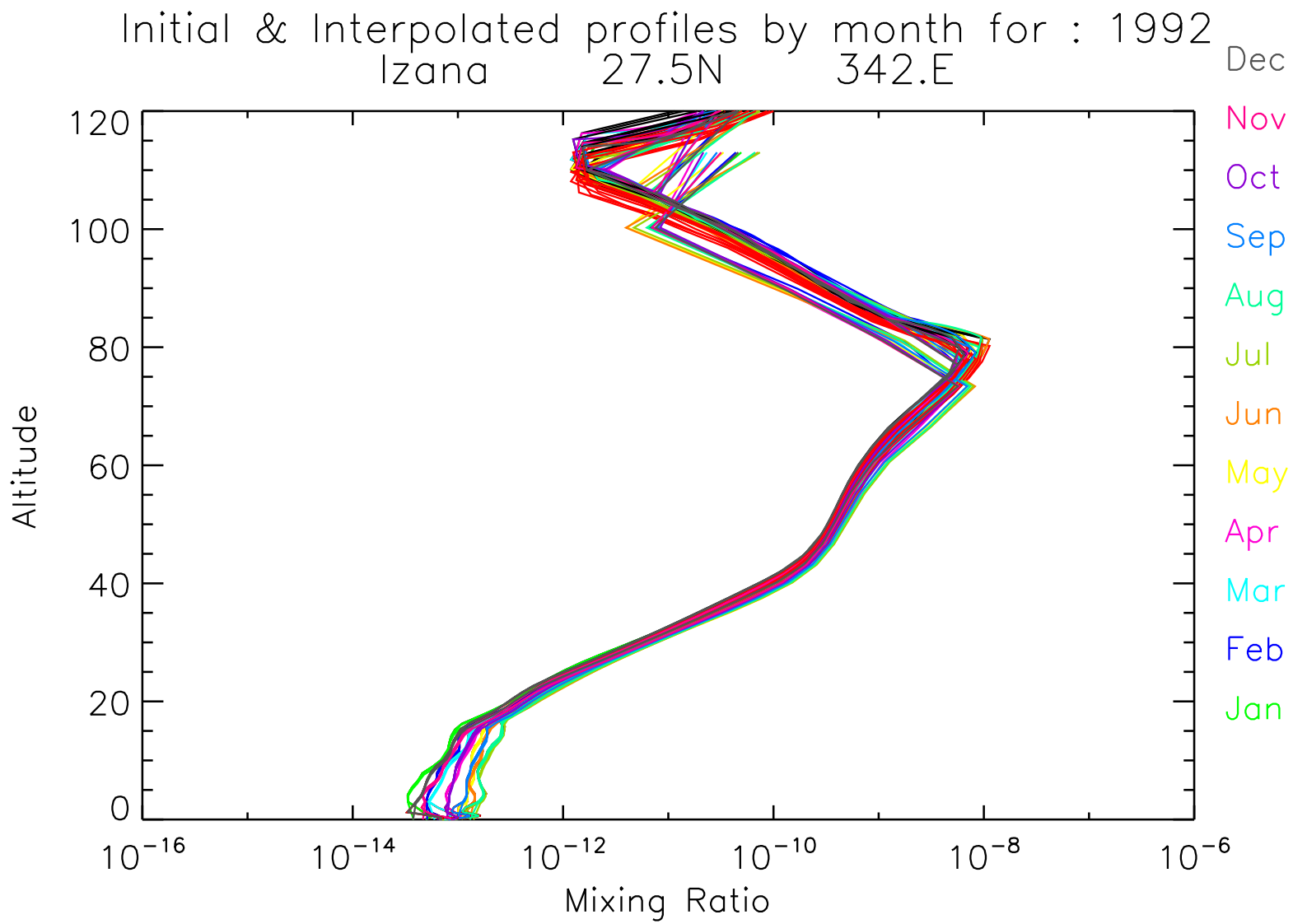
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Izana 27.5N 342.E
Altitude
120
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10^{-16}
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10^{-6}
Mixing Ratio
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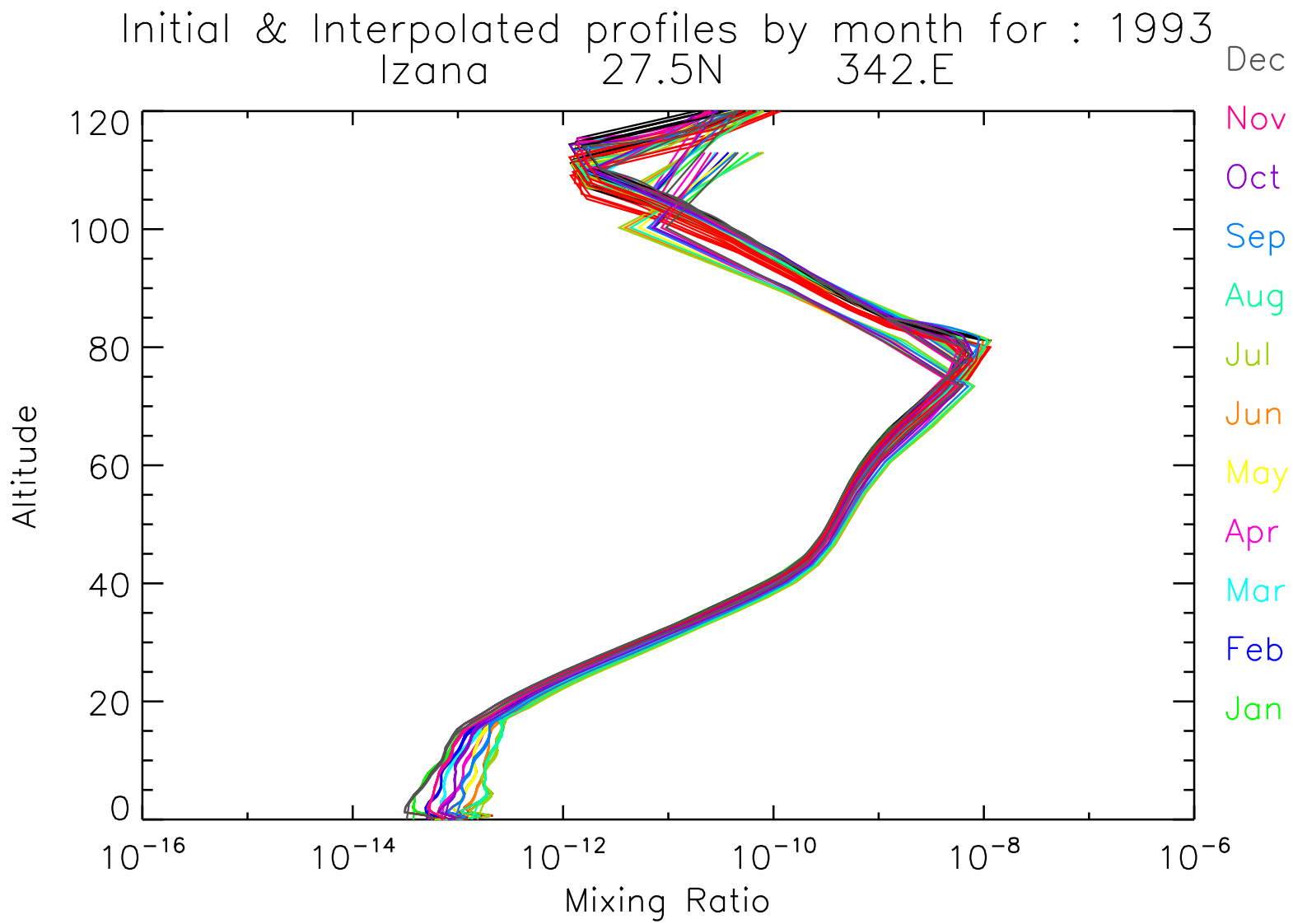
Initial & Interpolated profiles by month for : 1993
Izana 27.5N 342.E
Dec
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120
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Altitude
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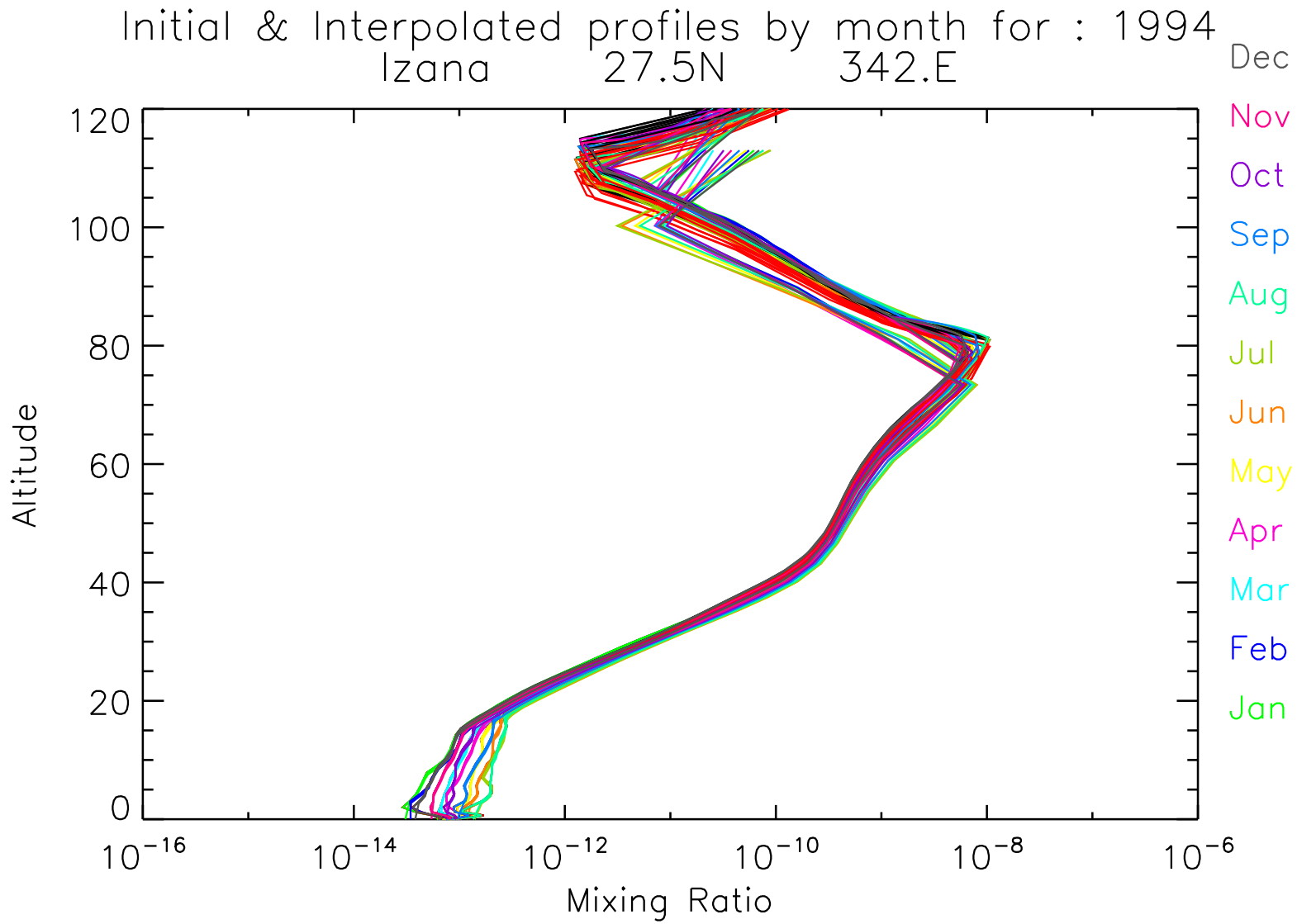
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Izana 27.5N 342.E
Altitude
120
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10^{-16}
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10^{-6}
Mixing Ratio
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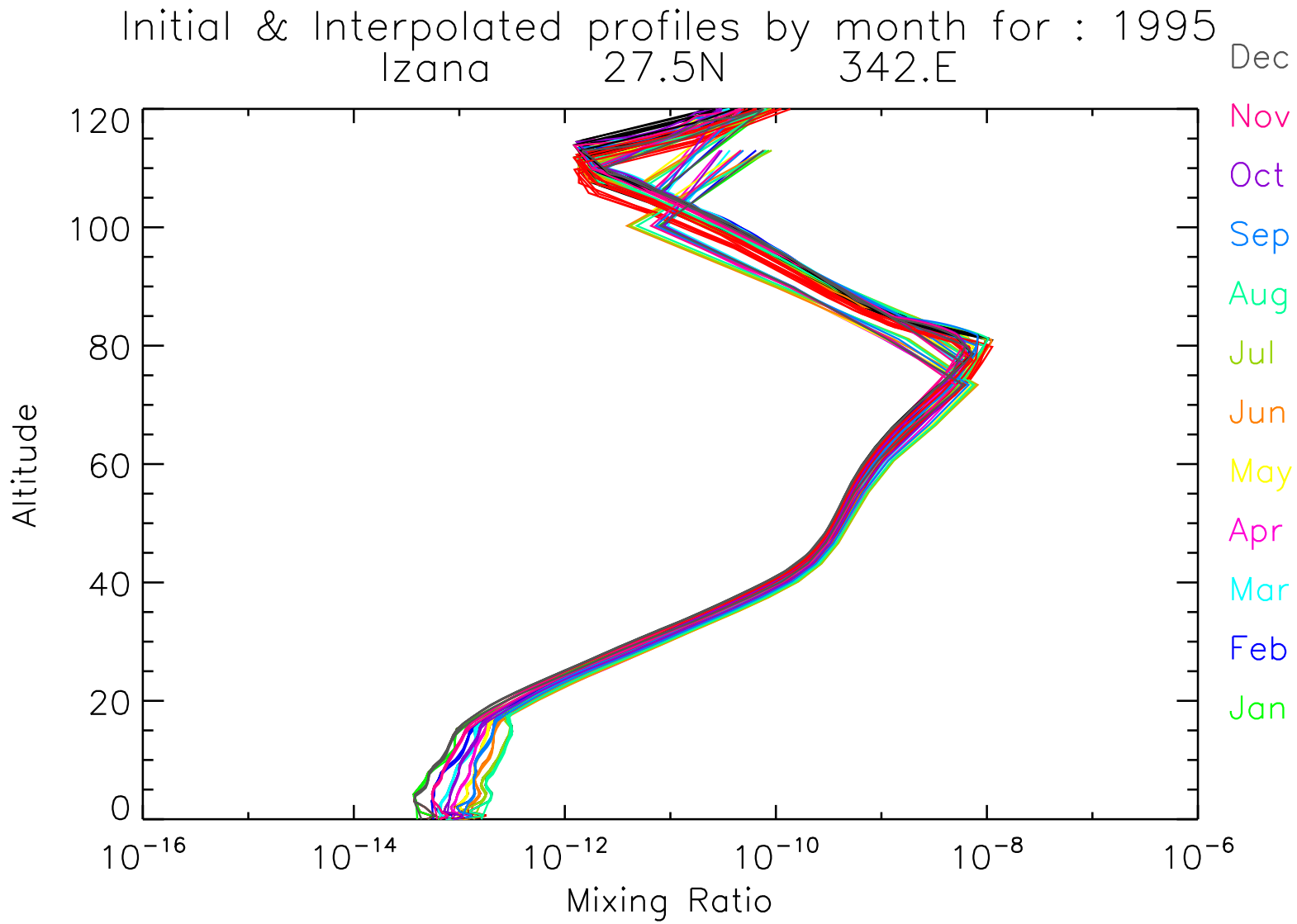
Initial & Interpolated profiles by month for : 1995
Izana 27.5N 342.E
Altitude
120
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60
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0
10^{-16}
10^{-14}
10^{-12}
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10^{-6}
Mixing Ratio
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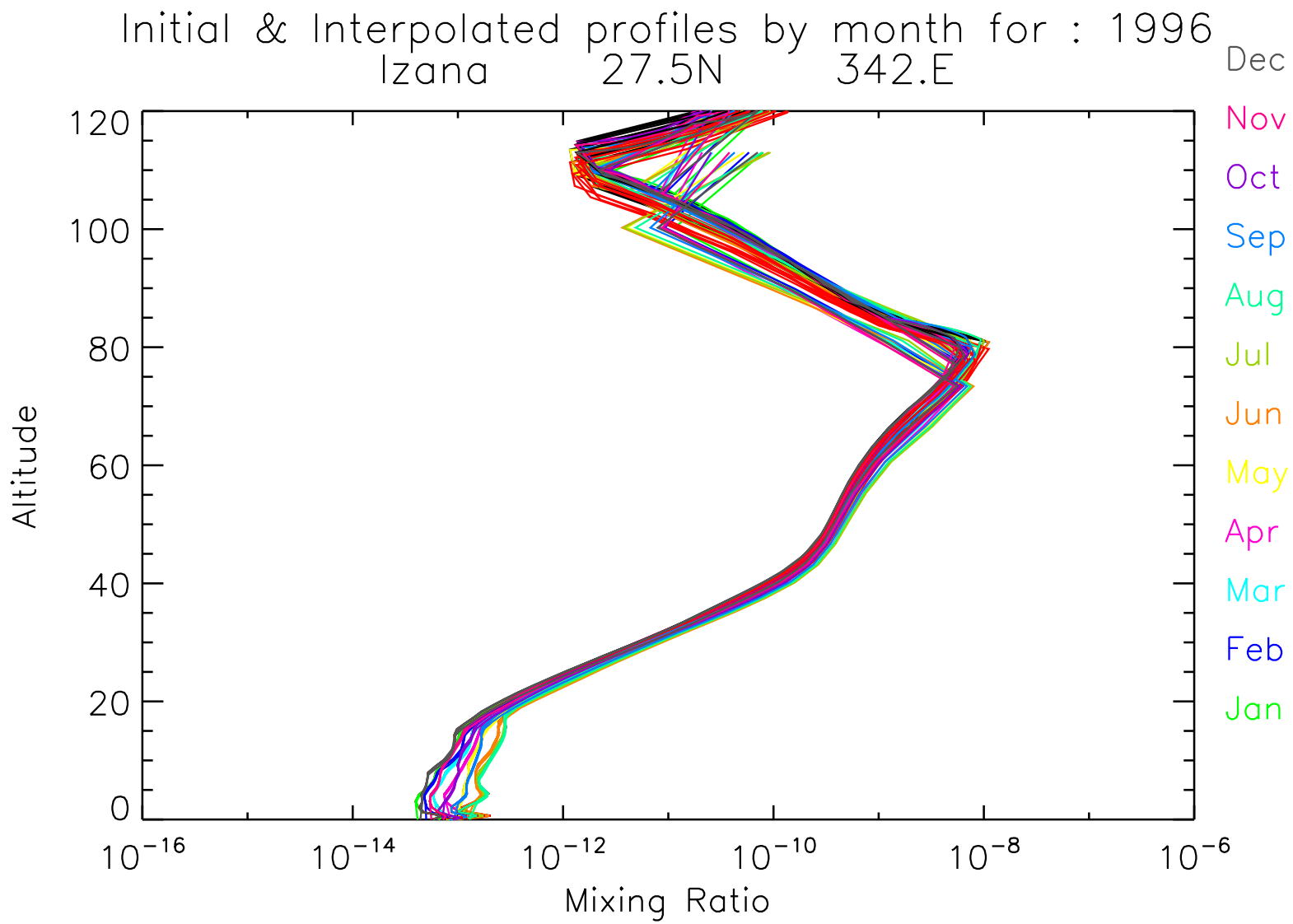
Initial & Interpolated profiles by month for : 1996
Izana 27.5N 342.E
Altitude
120
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10^{-16}
10^{-14}
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10^{-6}
Mixing Ratio
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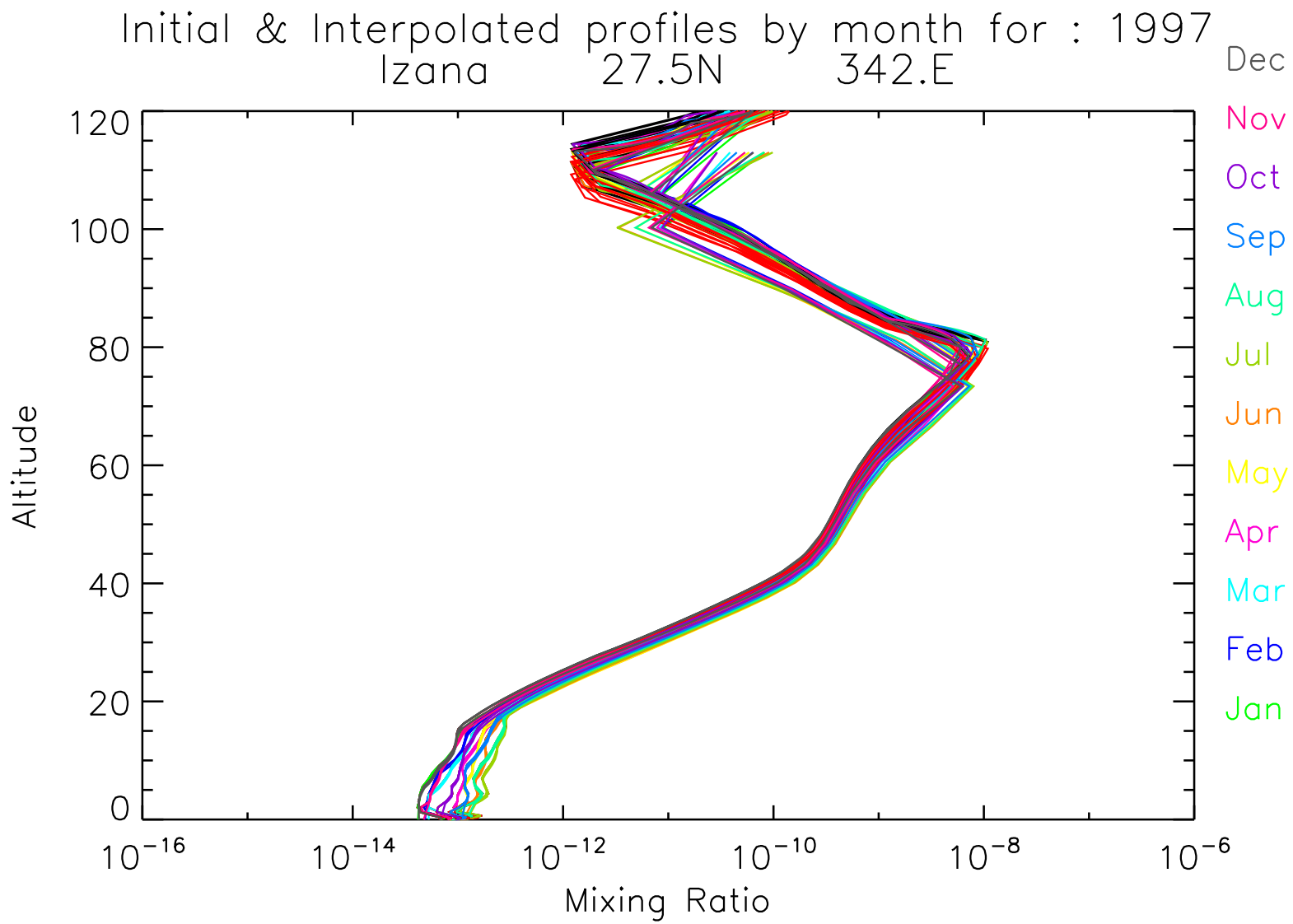
Initial & Interpolated profiles by month for : 1997
Izana 27.5N 342.E
Dec
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120
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Altitude
10^{-16}
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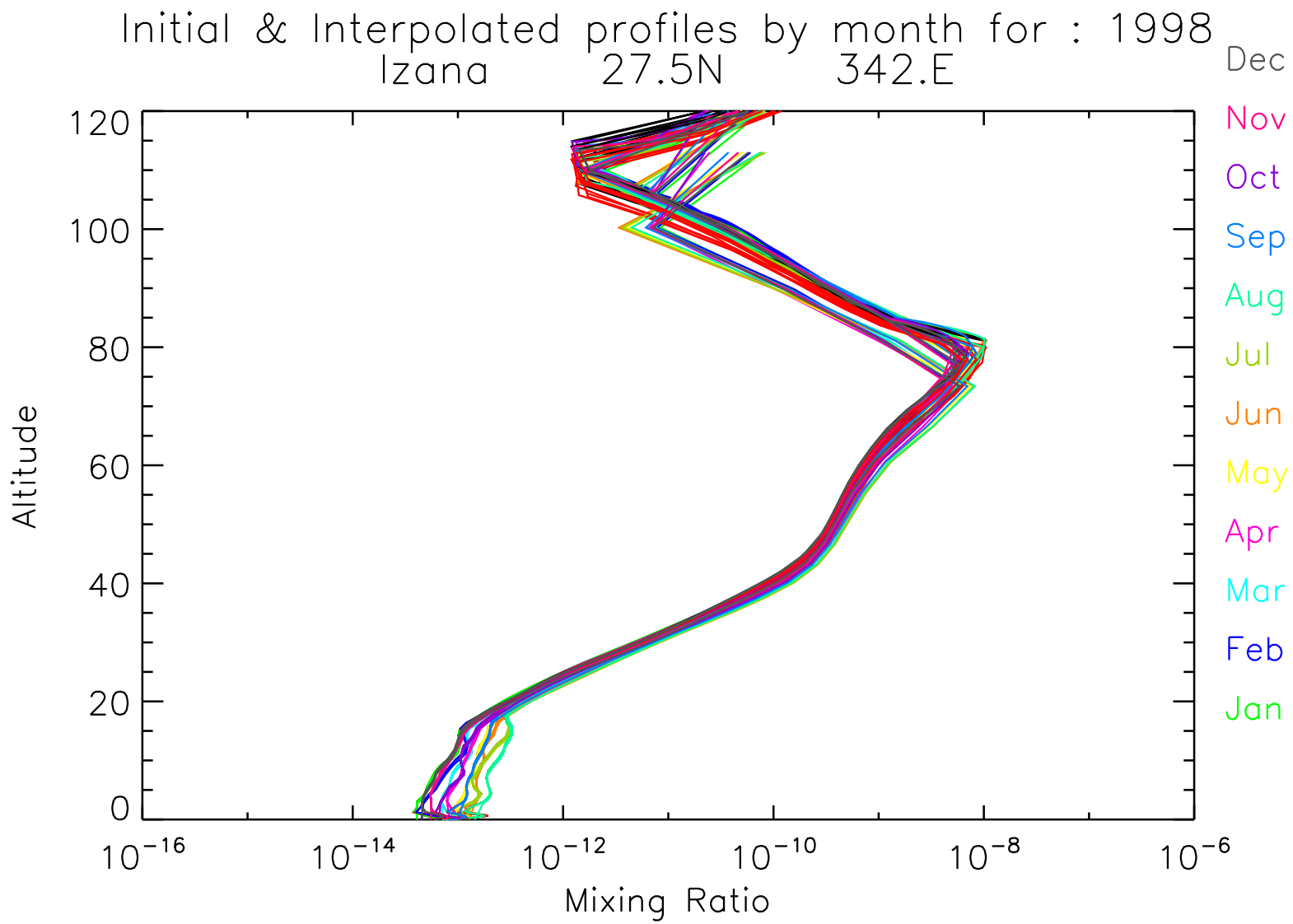
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Izana 27.5N 342.E
Dec
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120
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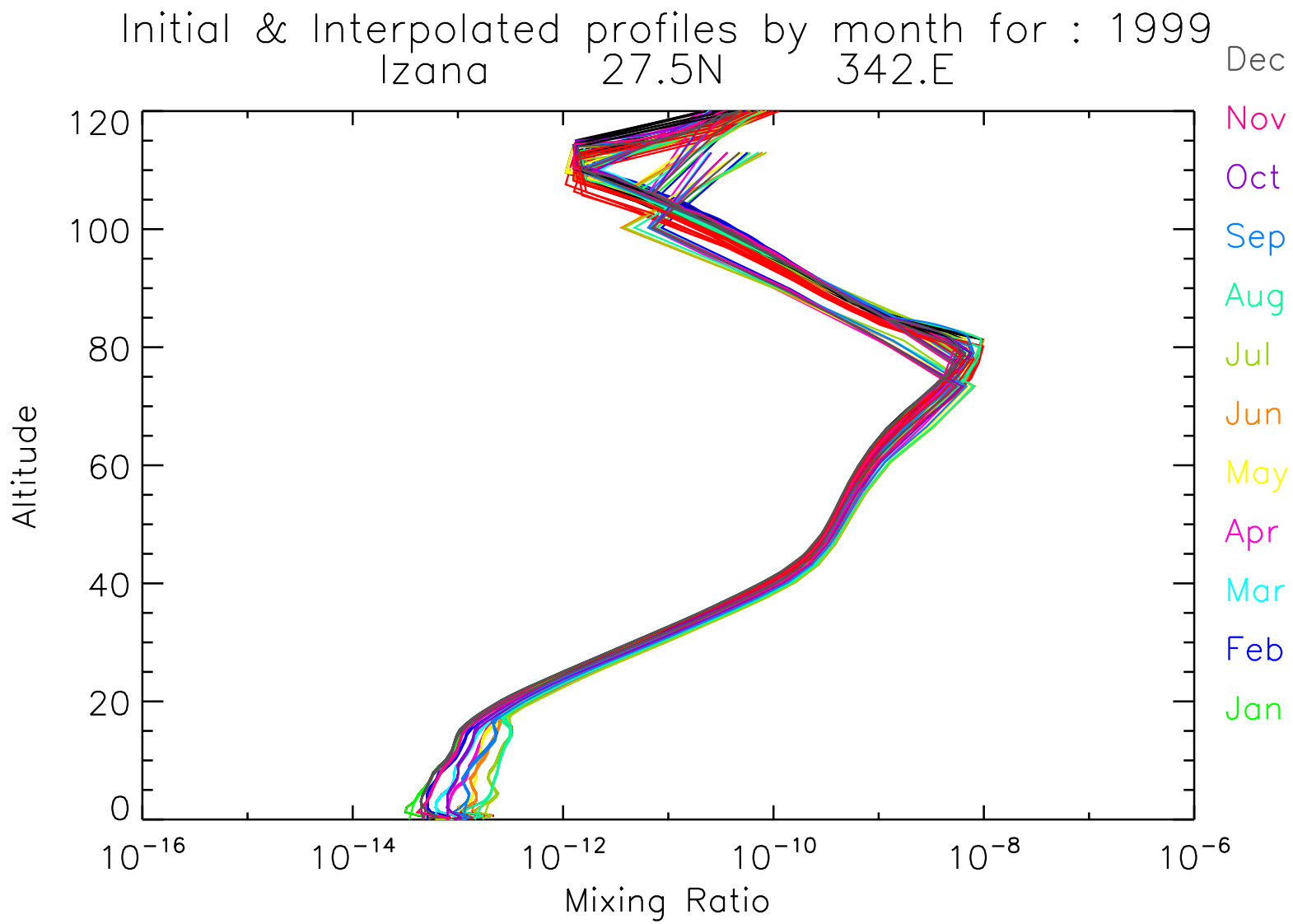
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Izana 27.5N 342.E
Dec
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Feb
Jan
120
100
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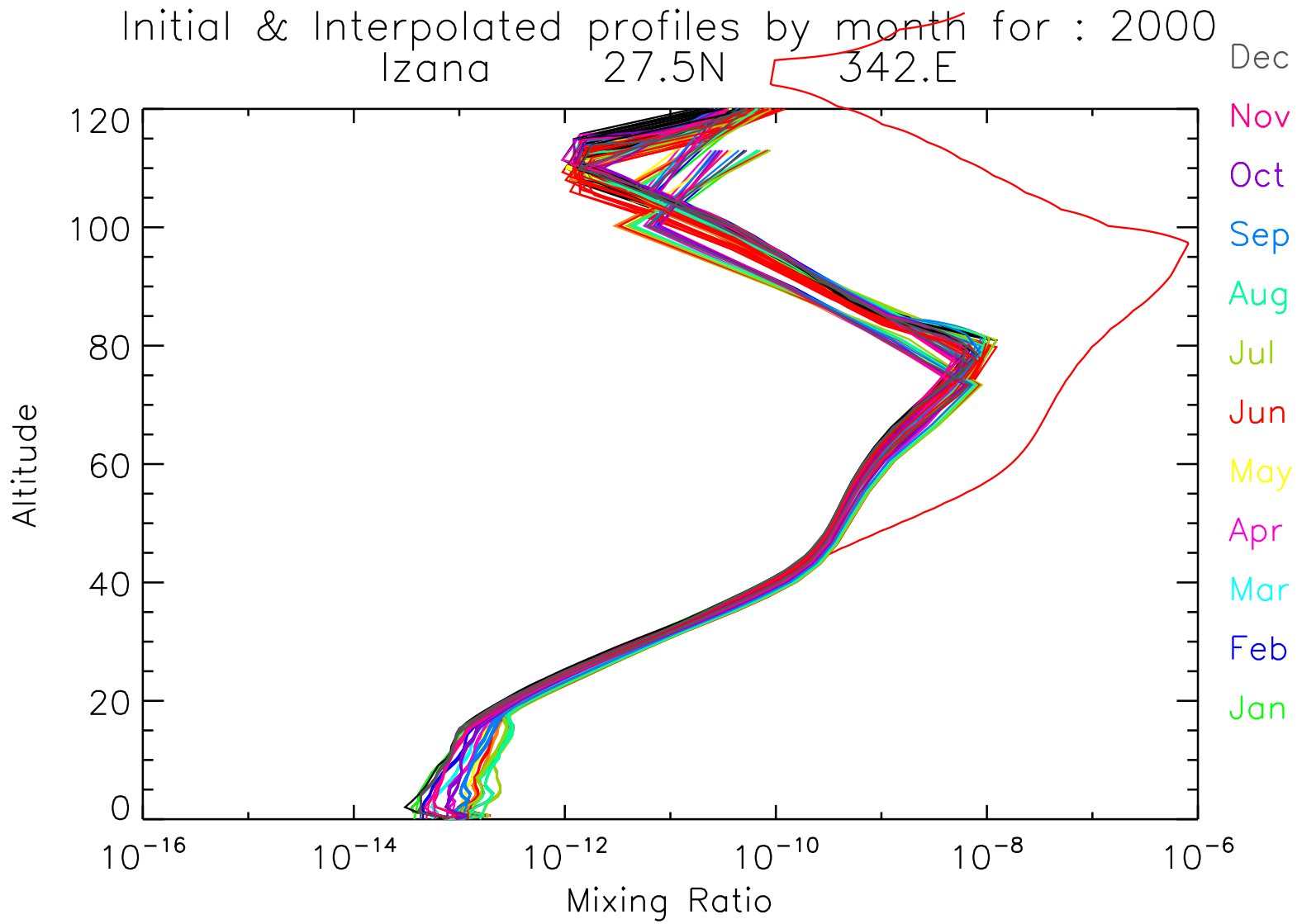
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Izana 27.5N 342.E
Dec
Nov
Oct
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May
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Feb
Jan
120
100
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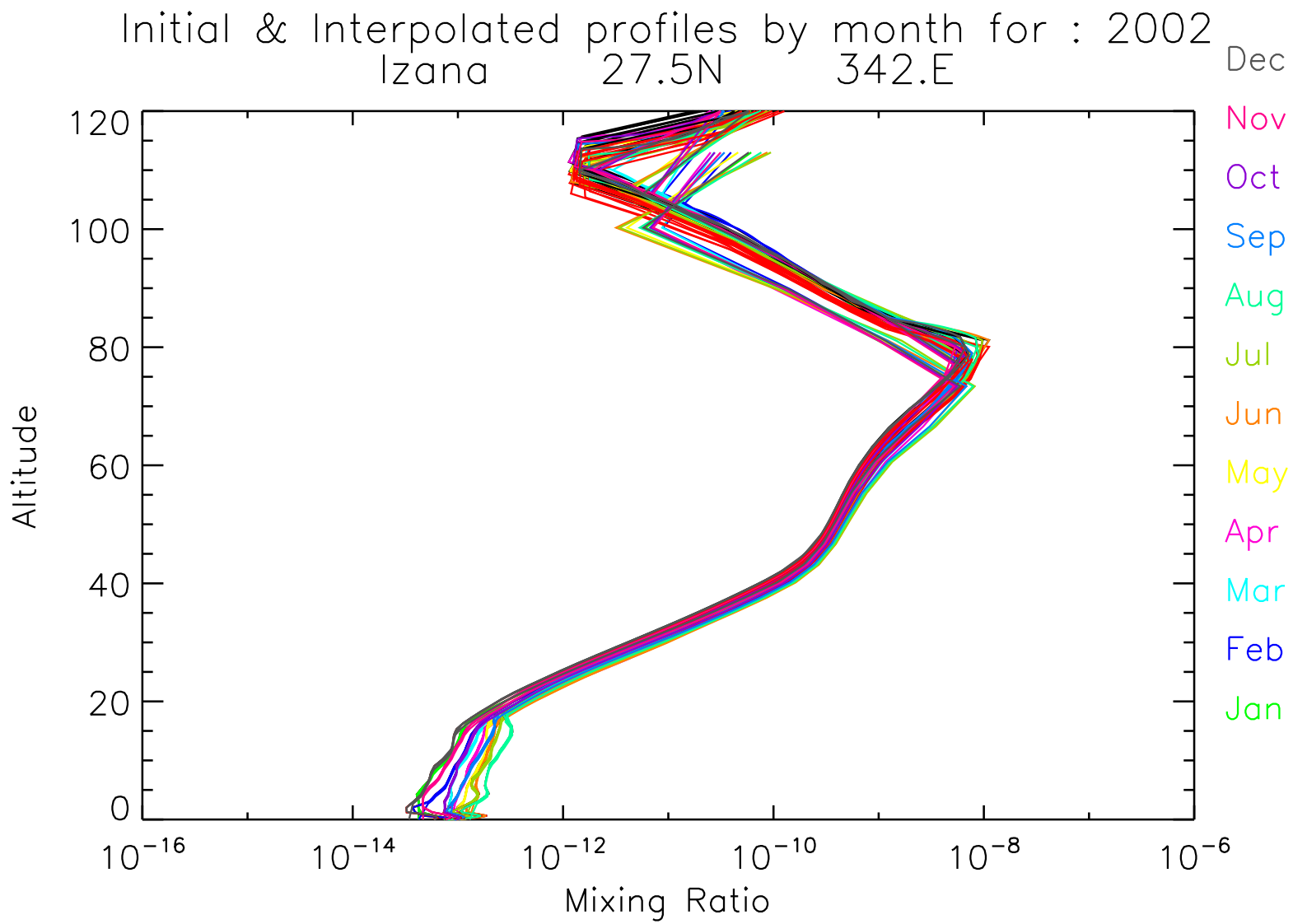
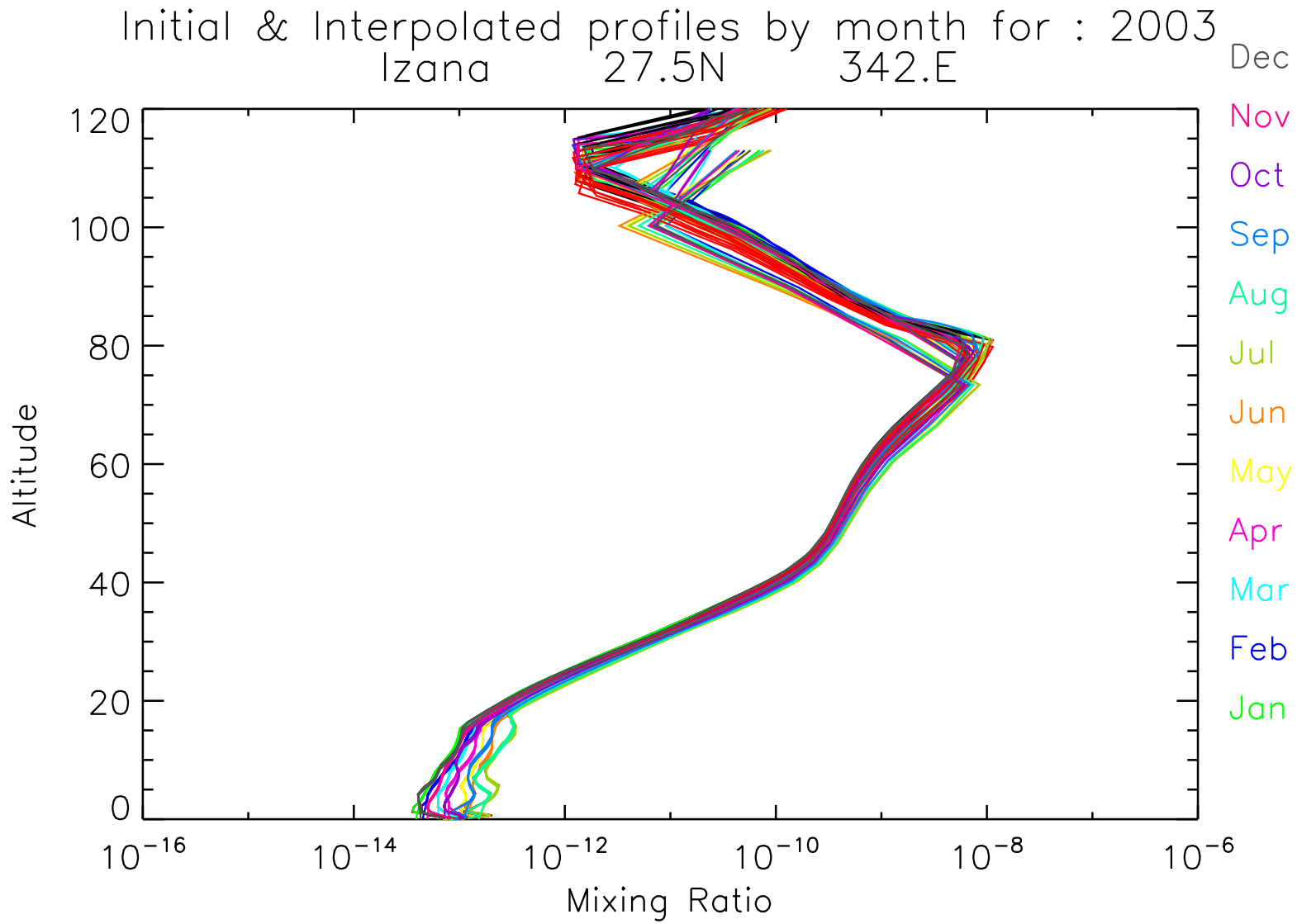
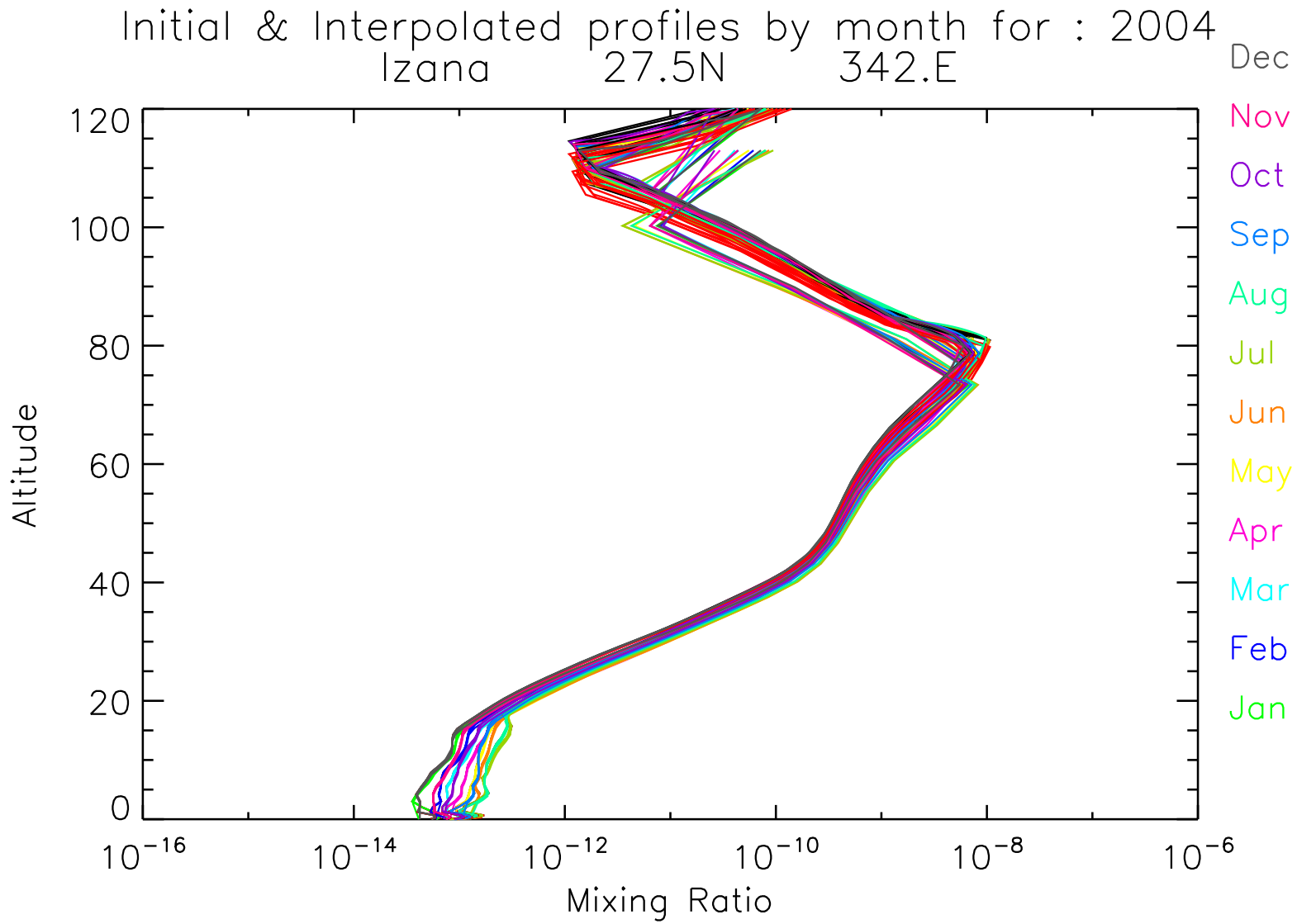
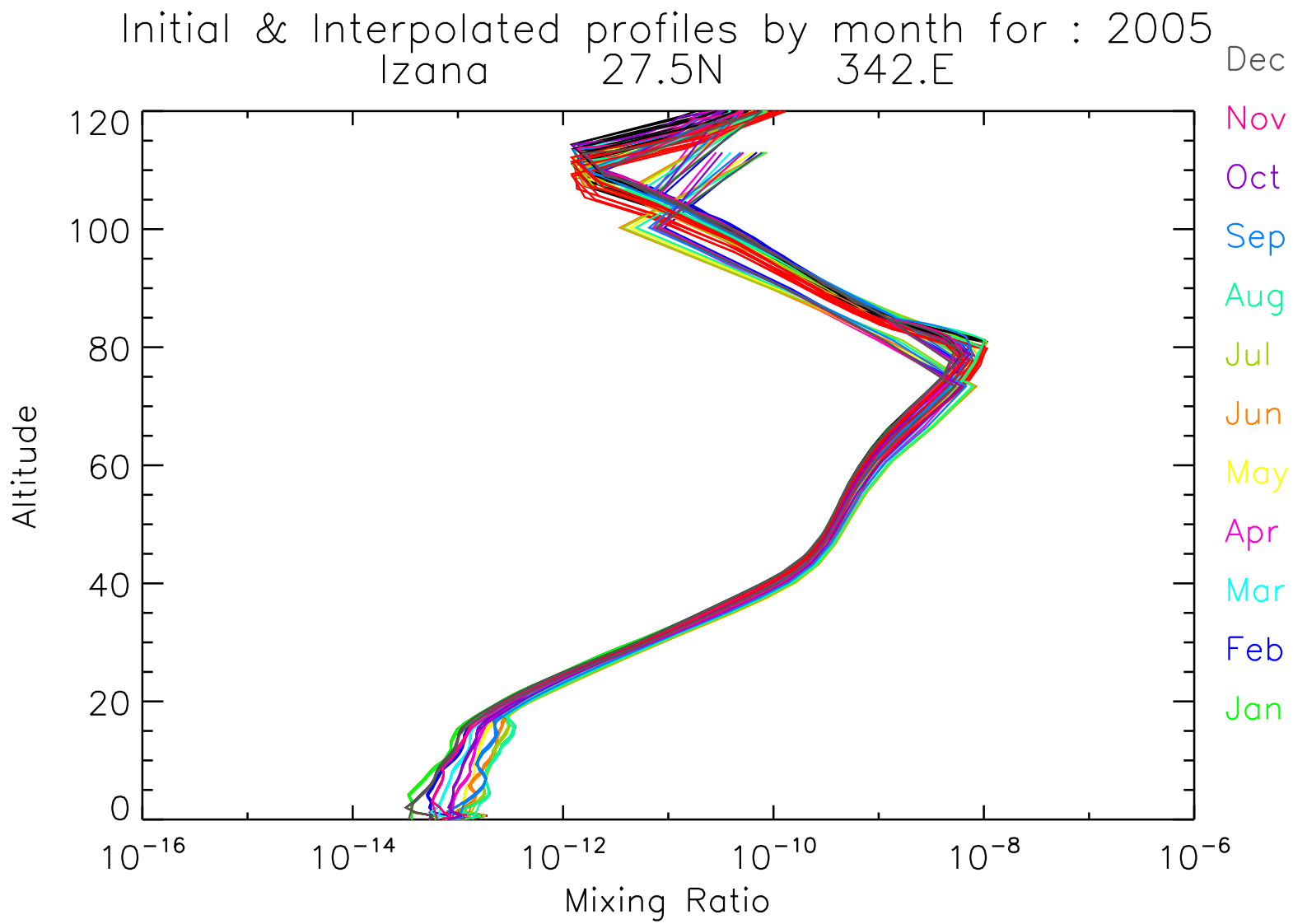
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Izana 27.5N 342.E
Dec
Nov
Oct
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Jun
May
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Feb
Jan
120
100
80
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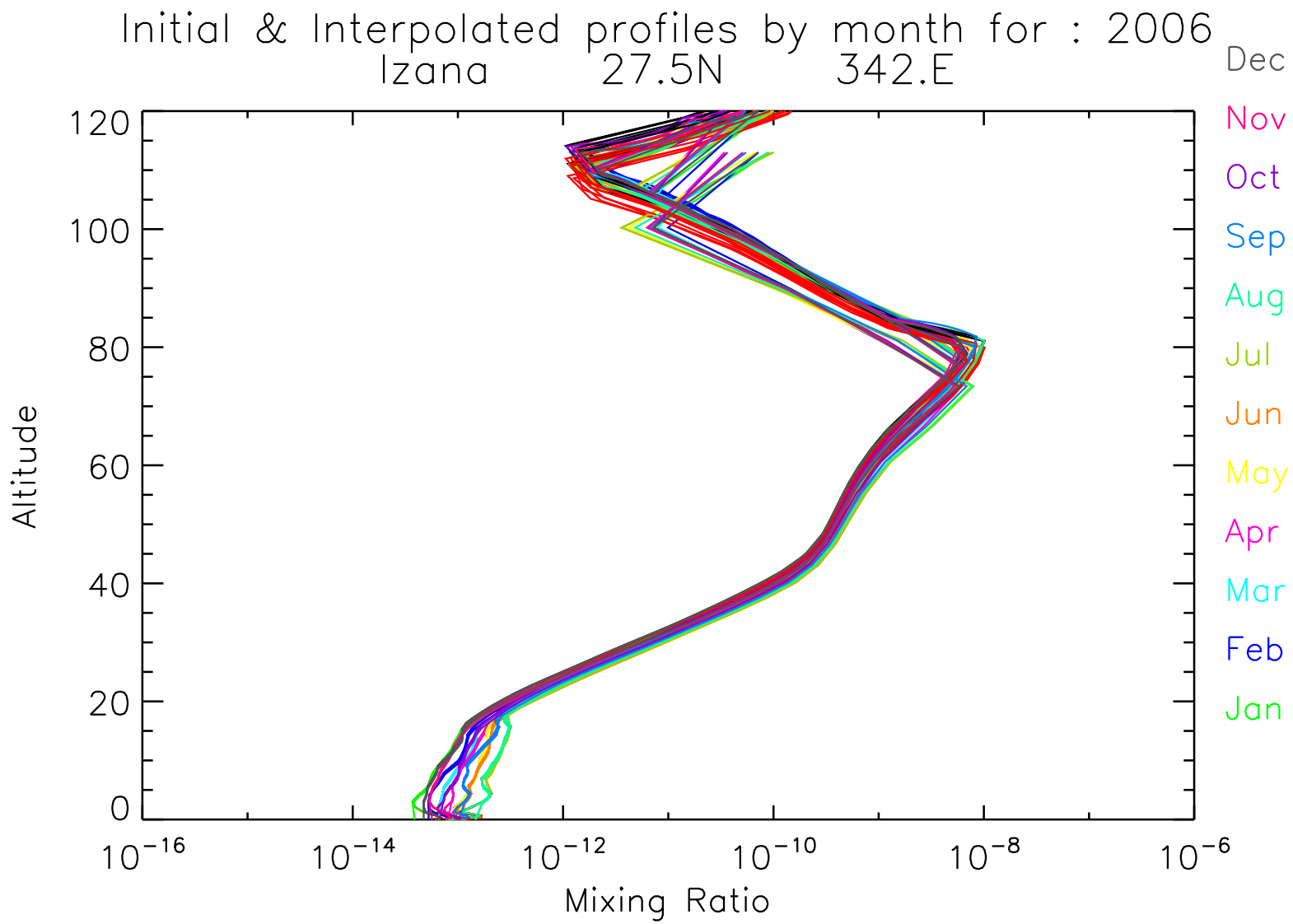
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Izana 27.5N 342.E
Altitude
120
100
80
60
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20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
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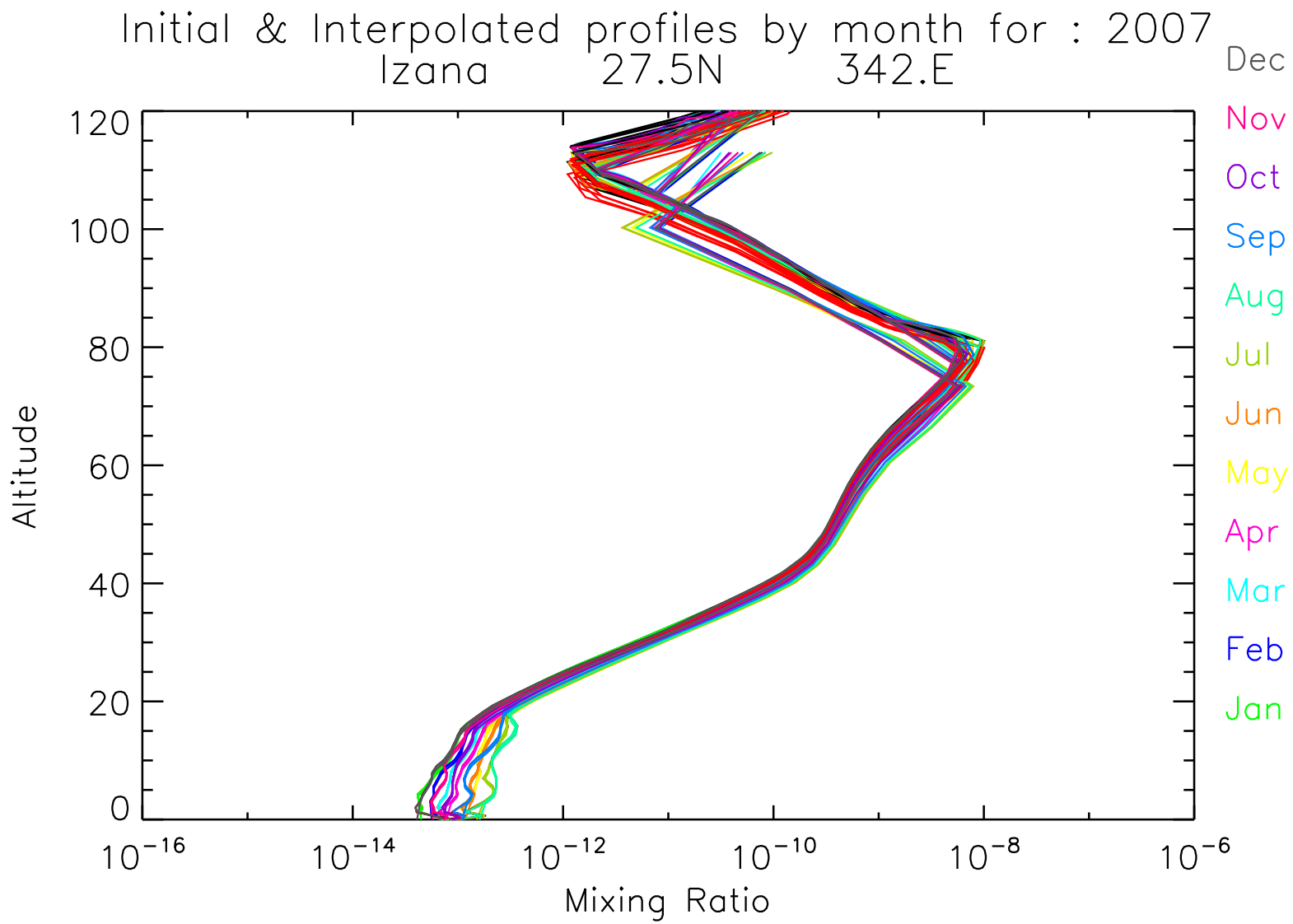
Initial & Interpolated profiles by month for : 2007
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
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May
Apr
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Feb
Jan
120
100
80
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40
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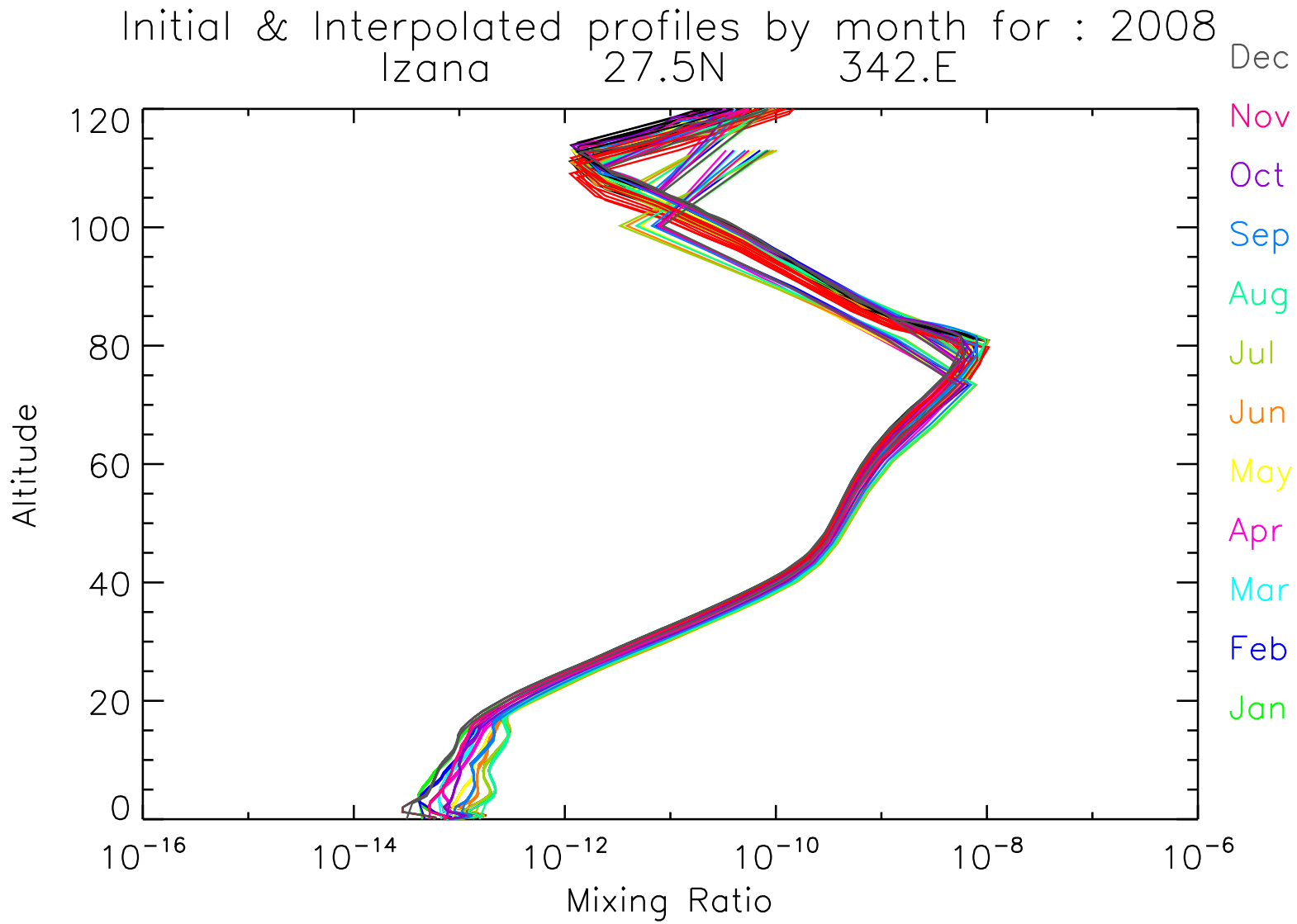
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Izana 27.5N 342.E
Dec
Nov
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Jun
May
Apr
Mar
Feb
Jan
120
100
80
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40
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0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

Initial
Dec
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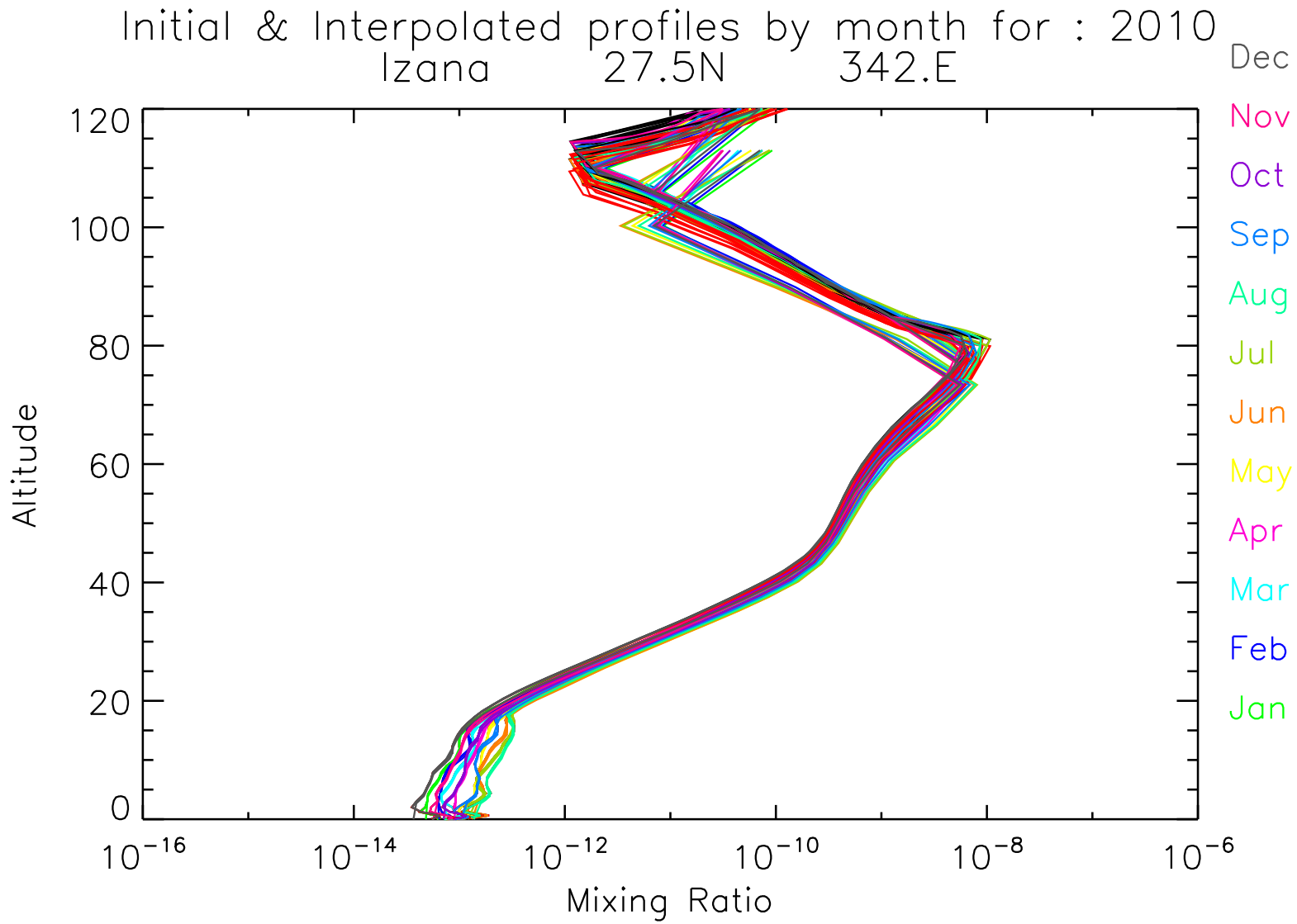
Sep
Aug
Jul


Initial & Interpolated profiles by month for : 2010
Izana 27.5N 342.E
Altitude
120
100
80
60
40
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0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
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Feb
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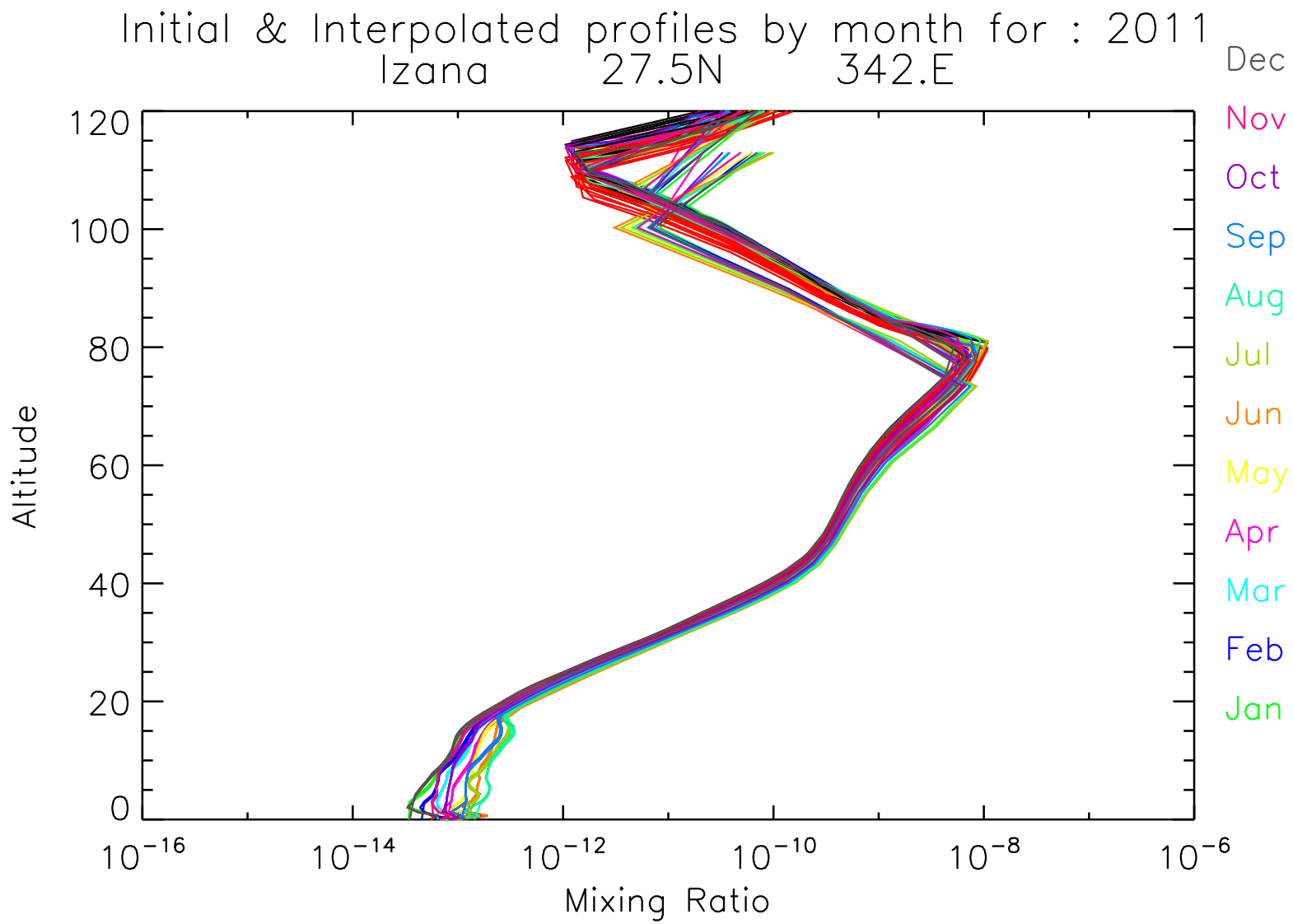
Initial & Interpolated profiles by month for : 2011
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
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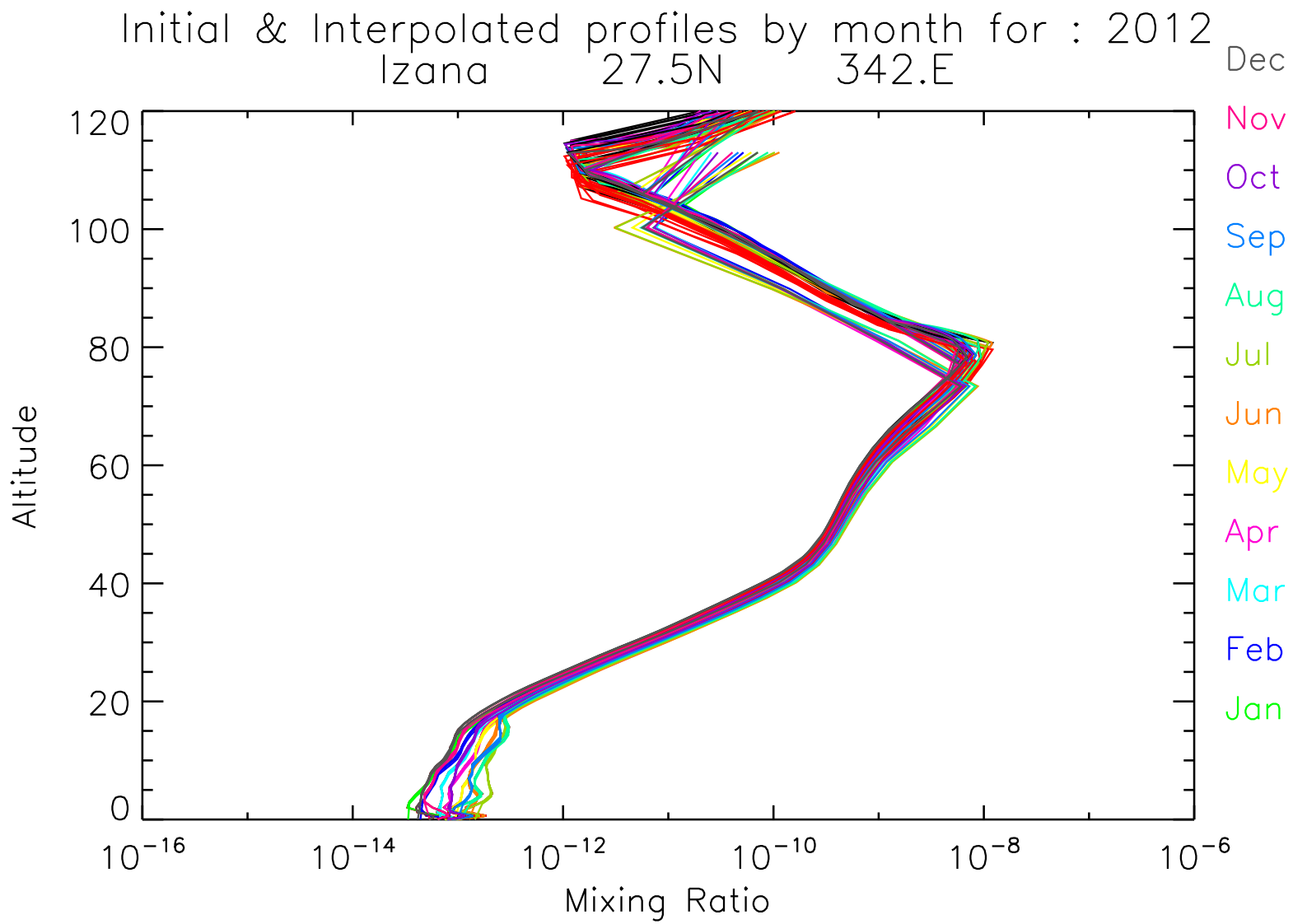
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2012
Izana 27.5N 342.E
Dec
Nov
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Apr
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Jan
120
100
80
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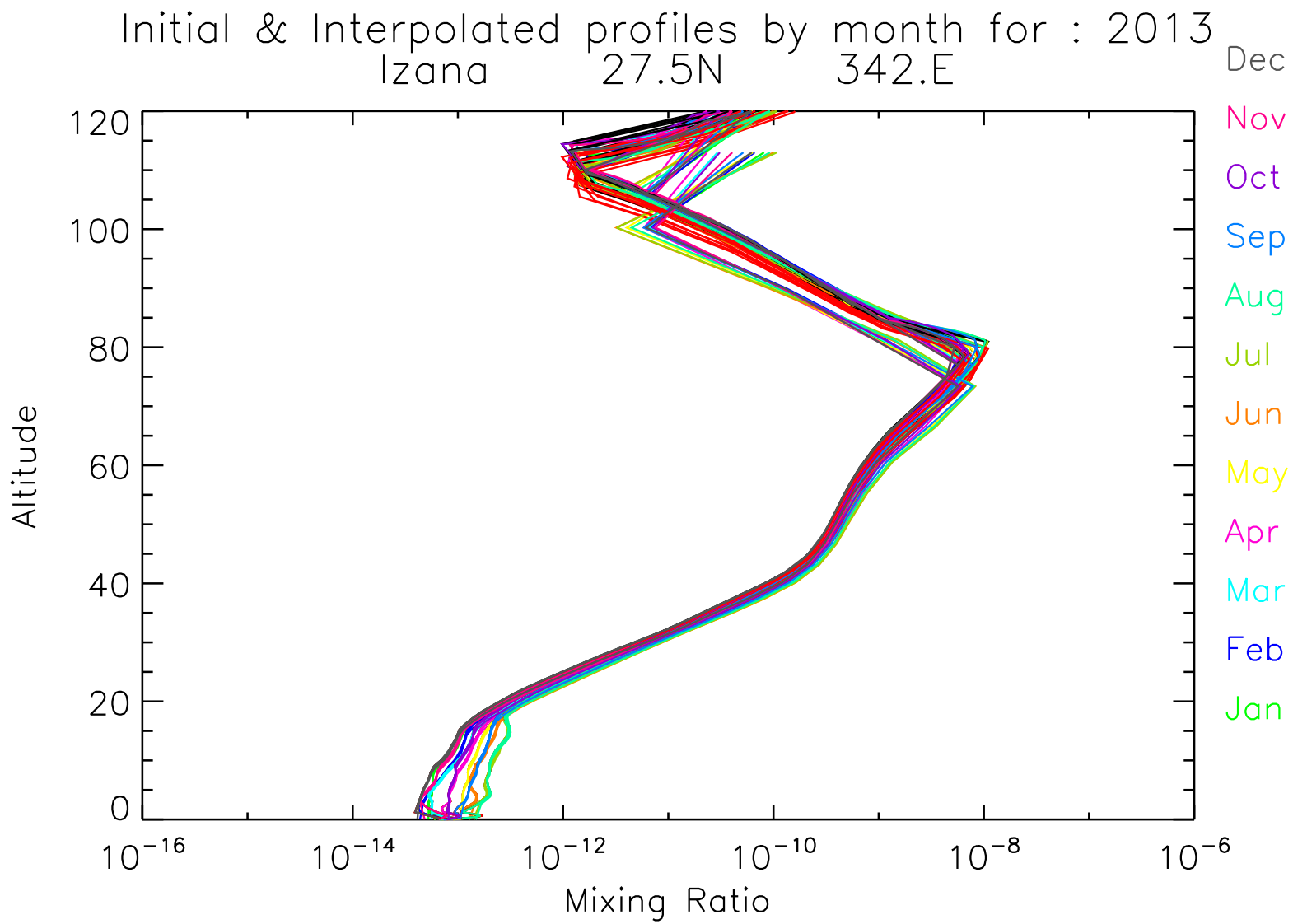
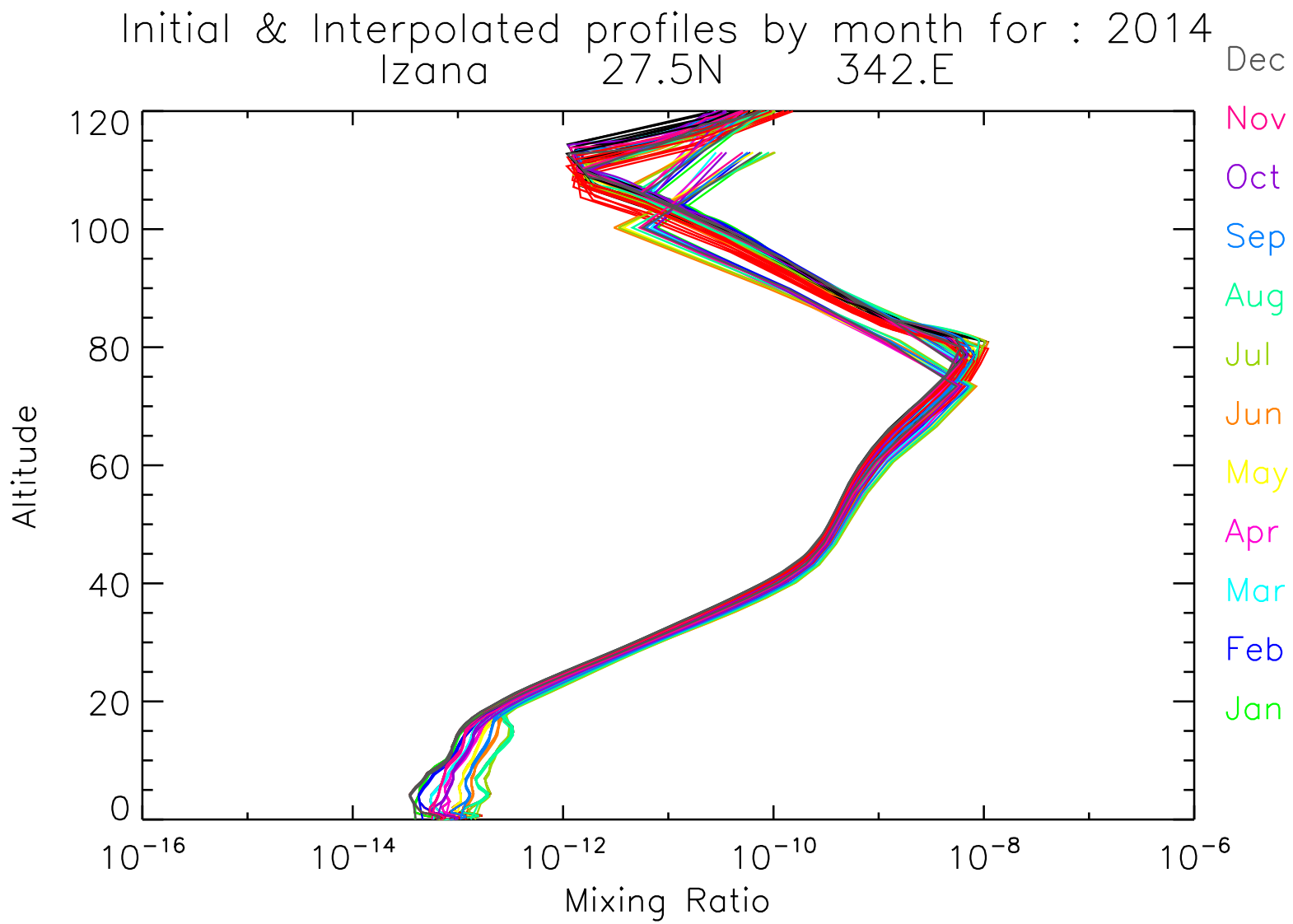
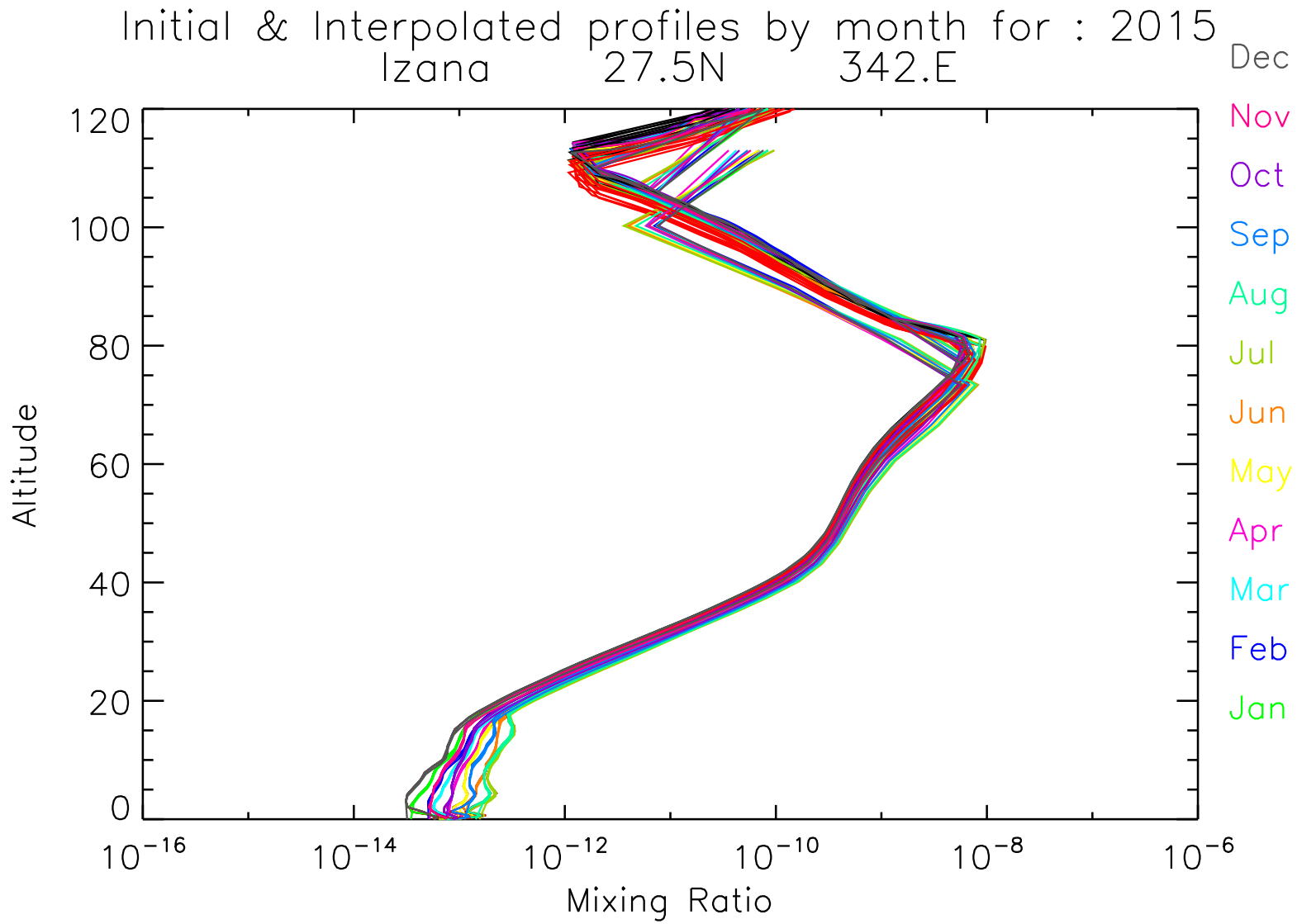
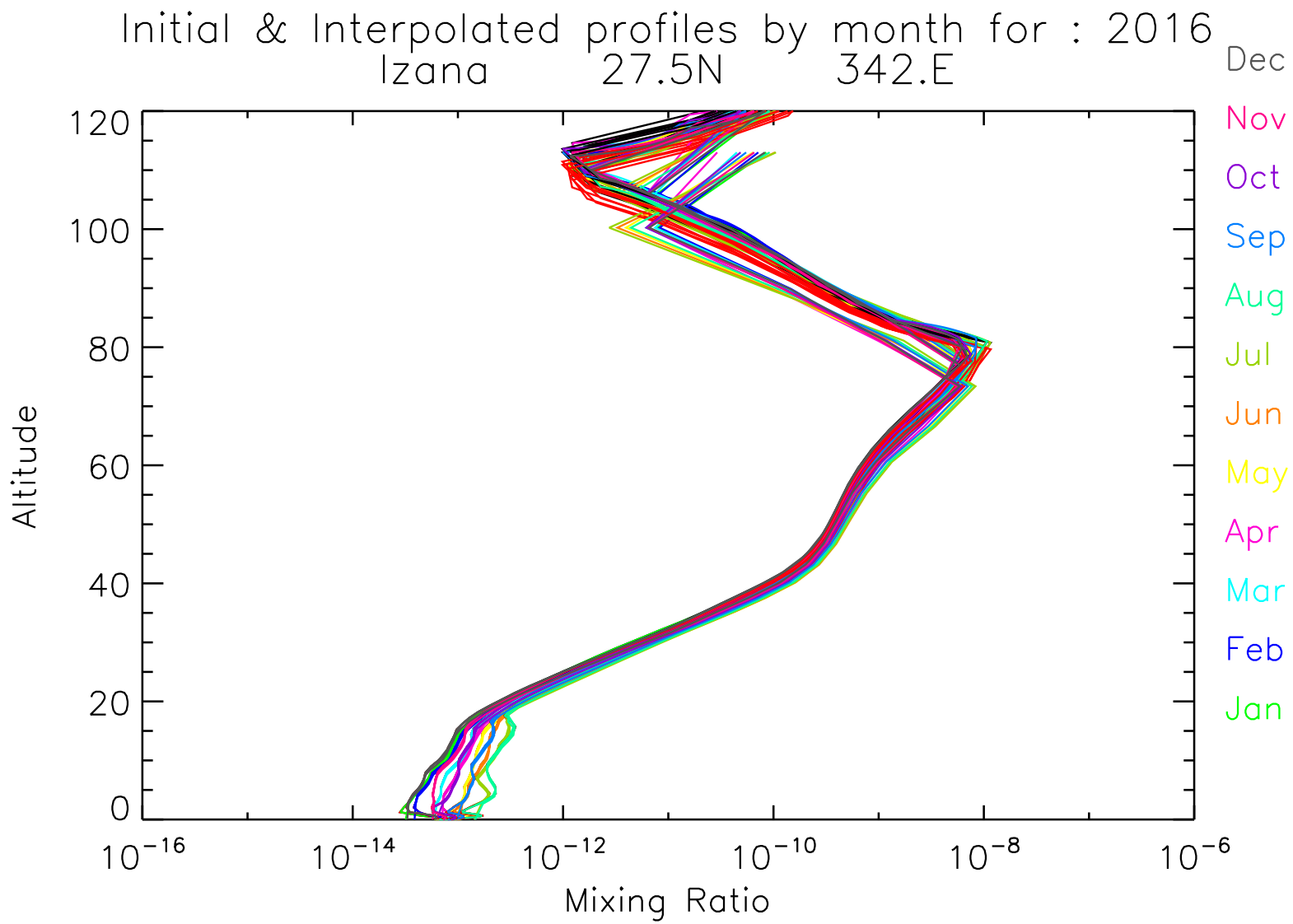
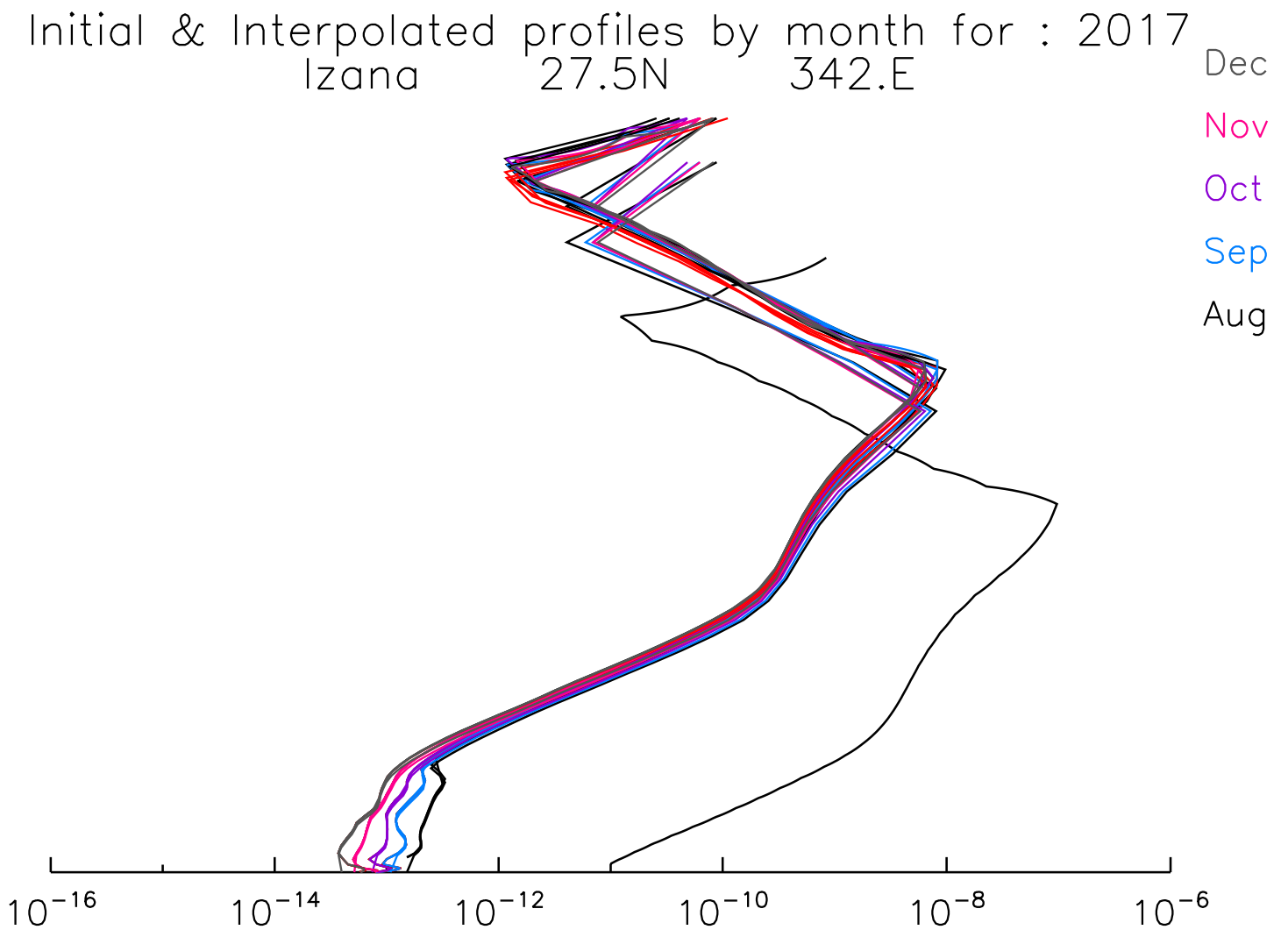
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

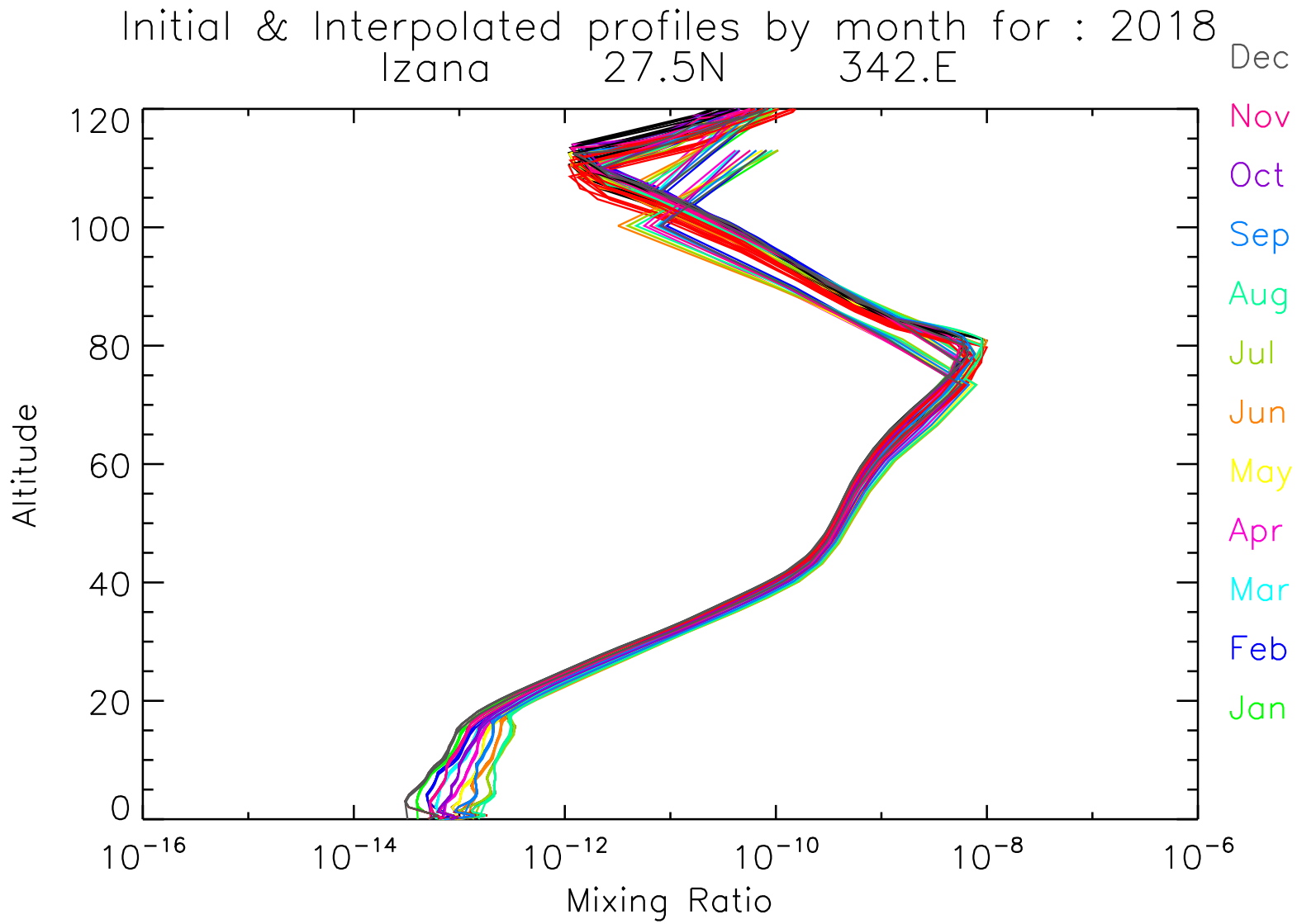

Initial & Interpolated profiles by month for : 2013
Izana 27.5N 342.E
Altitude
Mixing Ratio
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

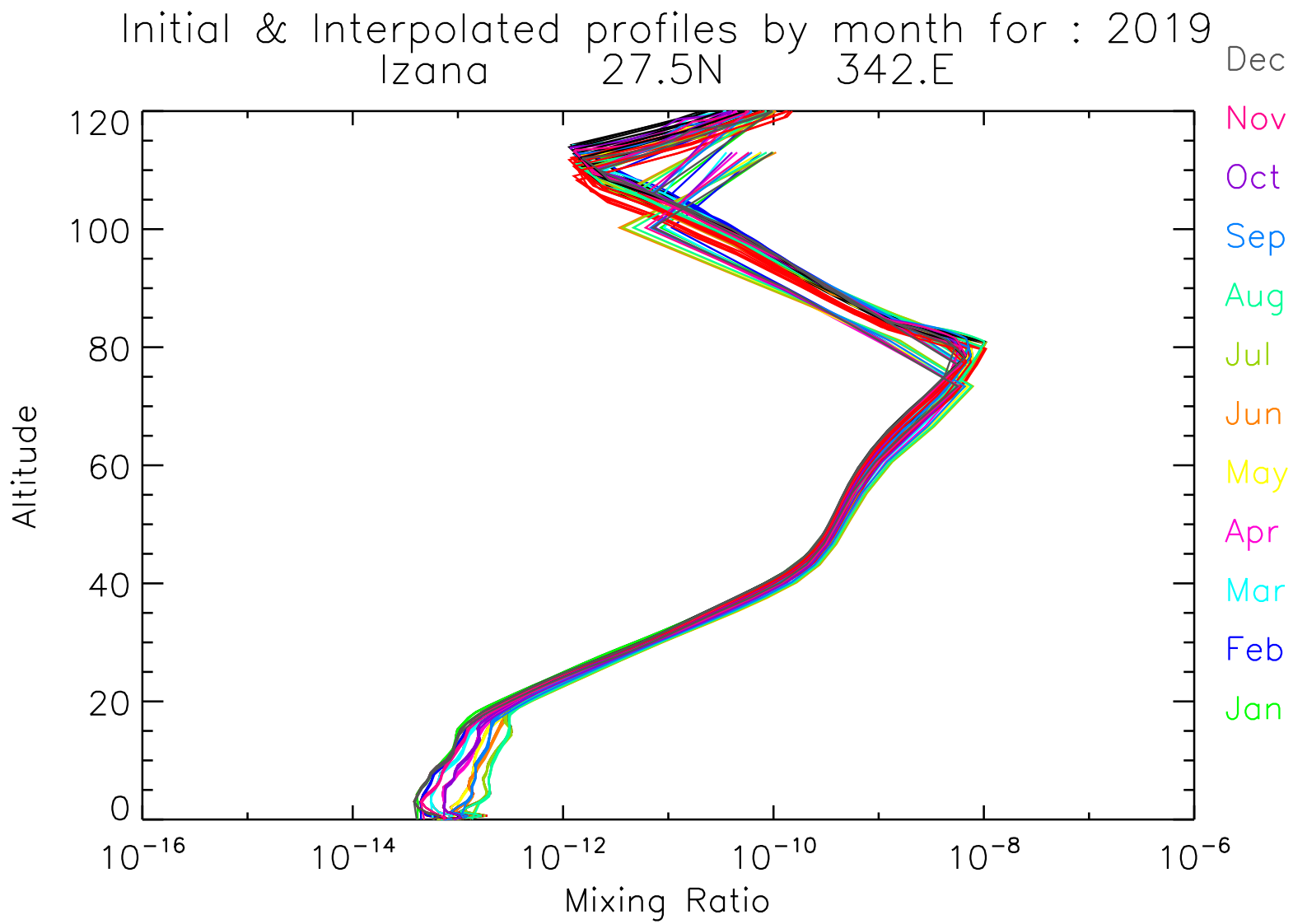

Initial & Interpolated profiles by month for : 2014
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

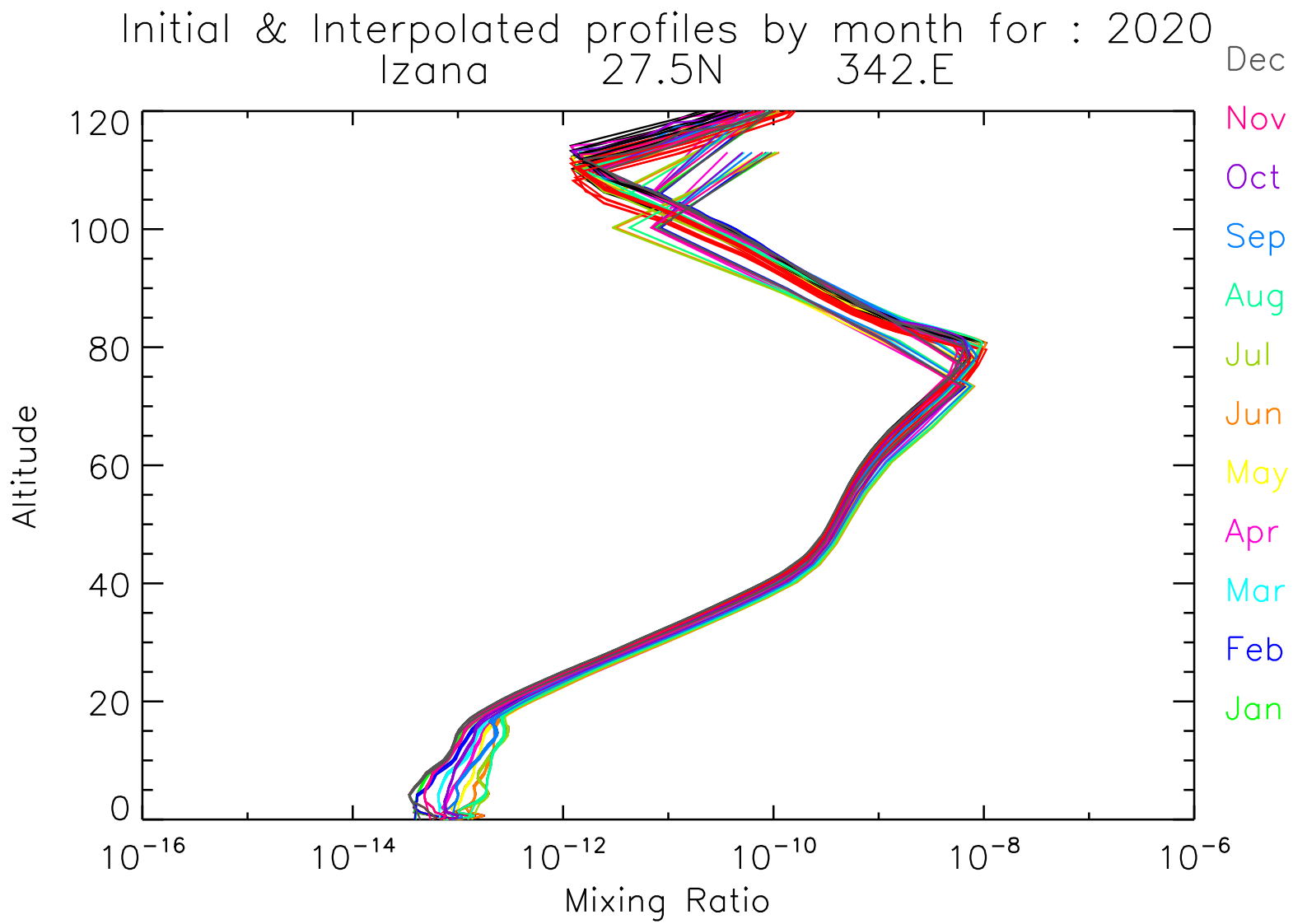

Initial & Interpolated profiles by month for : 2015
Izana 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

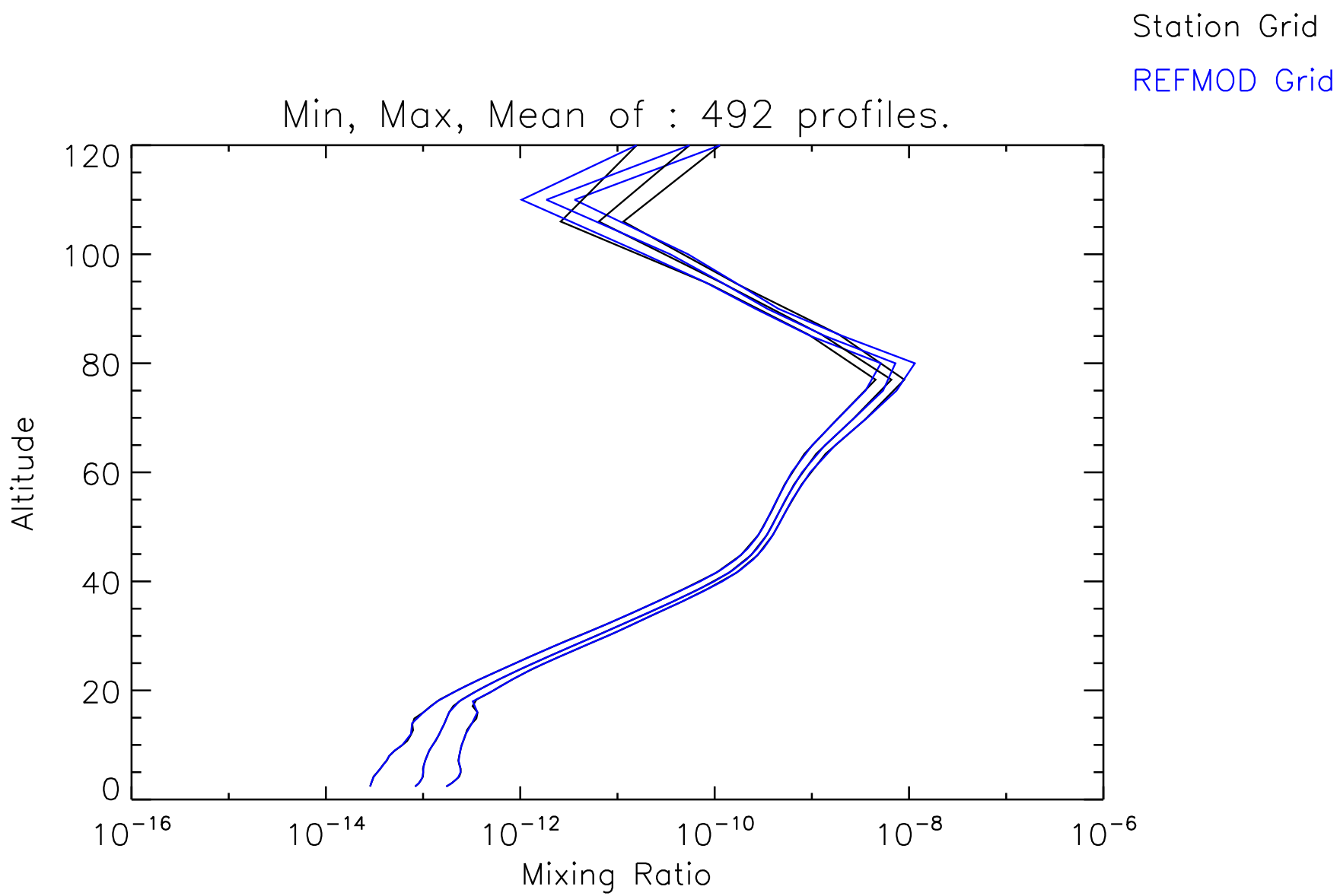

Initial & Interpolated profiles by month for : 2016
Izana 27.5N 342.E
Altitude
Mixing Ratio
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

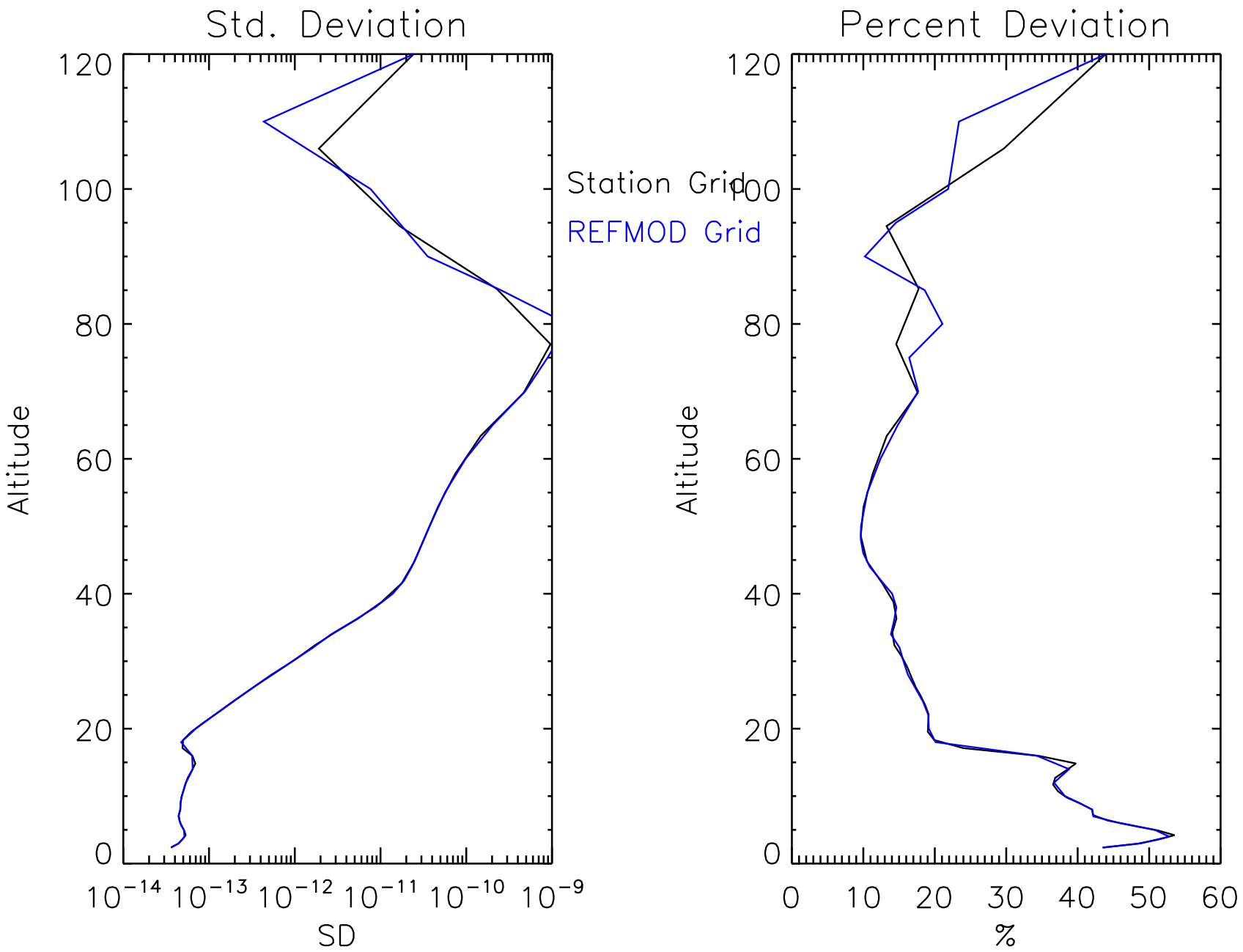

Initial & Interpolated profiles by month for : 2017
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}

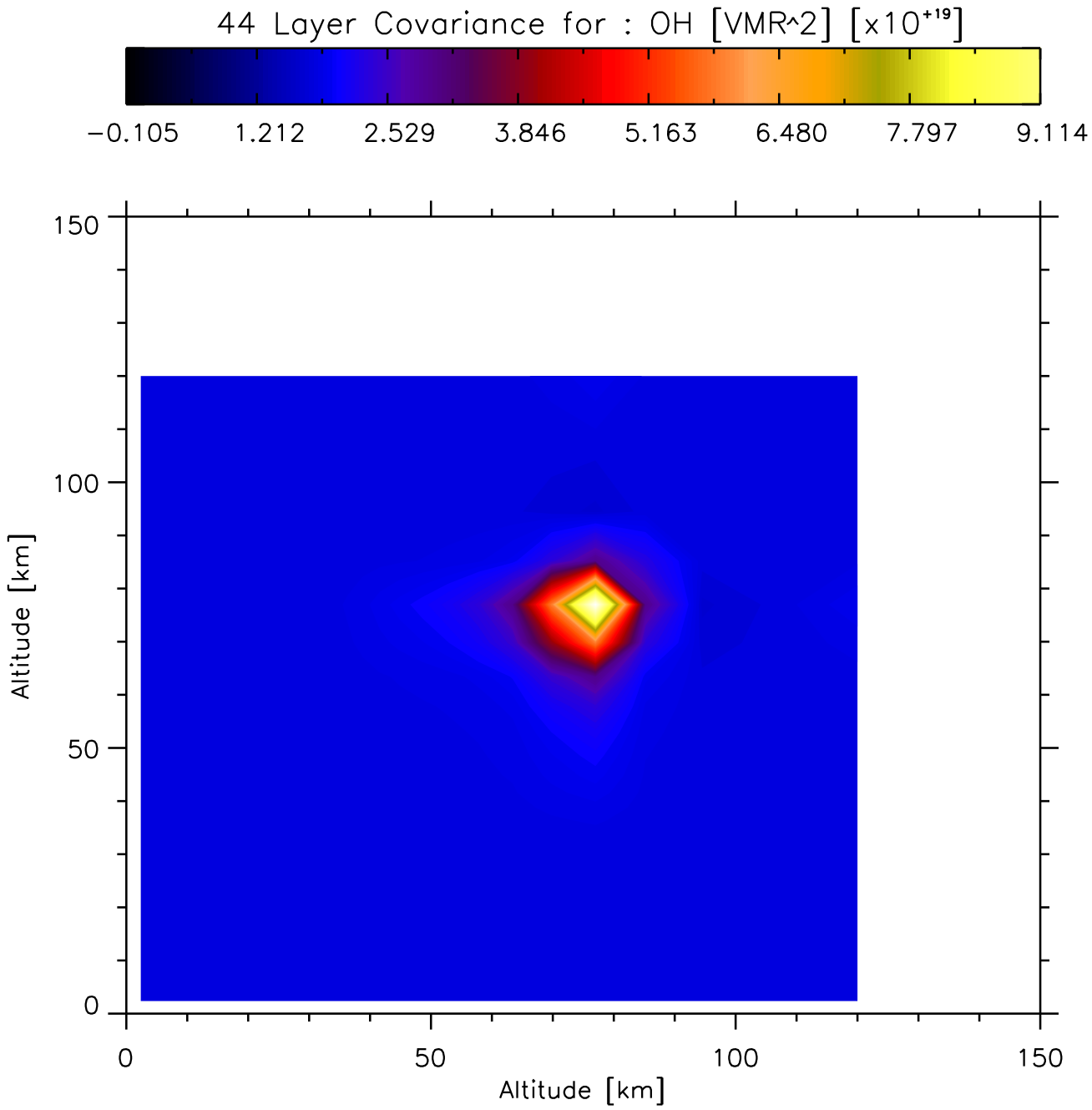

Initial & Interpolated profiles by month for : 2018
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2019
Izana 27.5N 342.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

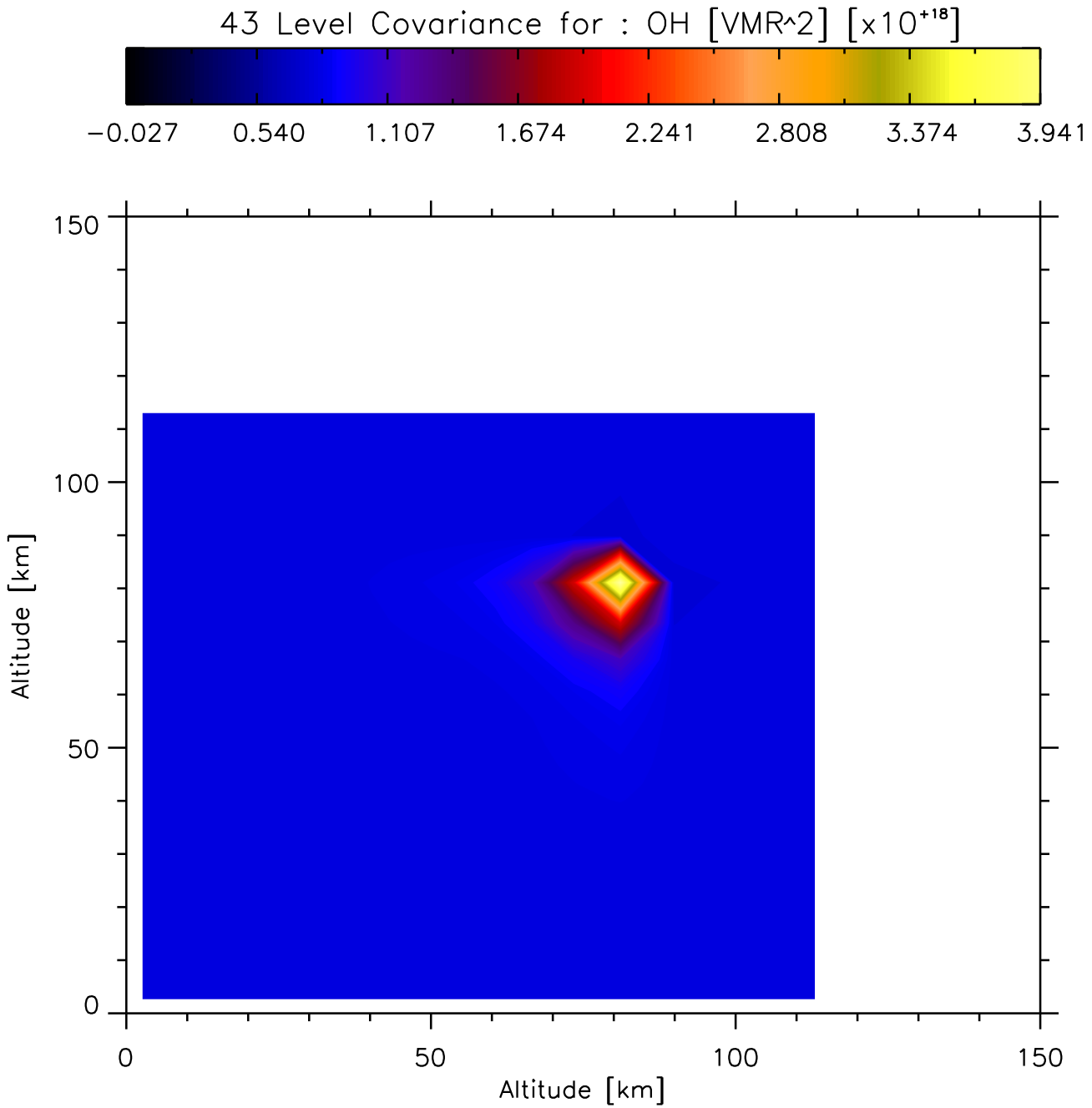
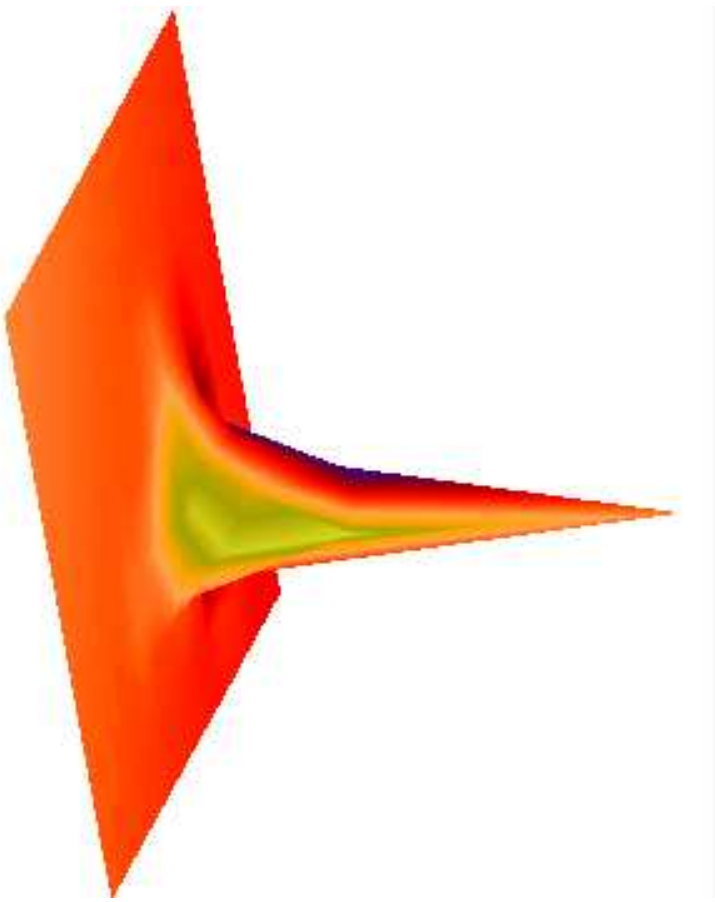

Initial & Interpolated profiles by month for : 2020
Izana 27.5N 342.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-14} 10^{-13} 10^{-12} 10^{-11} 10^{-10} 10^{-9}
SD
0 10 20 30 40 50 60
%


44 Layer Covariance for : OH [VMR^2] [x10^+19]
−0.105
1.212
2.529
3.846
5.163
6.480
7.797
9.114
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

44 Layer Covariance for : OH [VMR^2] [x10^+19]
150
0
2
4
6
8
10
Y Altitude
100
50
0
0
50
X Altitude
100
150


43 Level Covariance for : OH [VMR^2] [x10^+18]
−0.027
0.540
1.107
1.674
2.241
2.808
3.374
3.941
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]