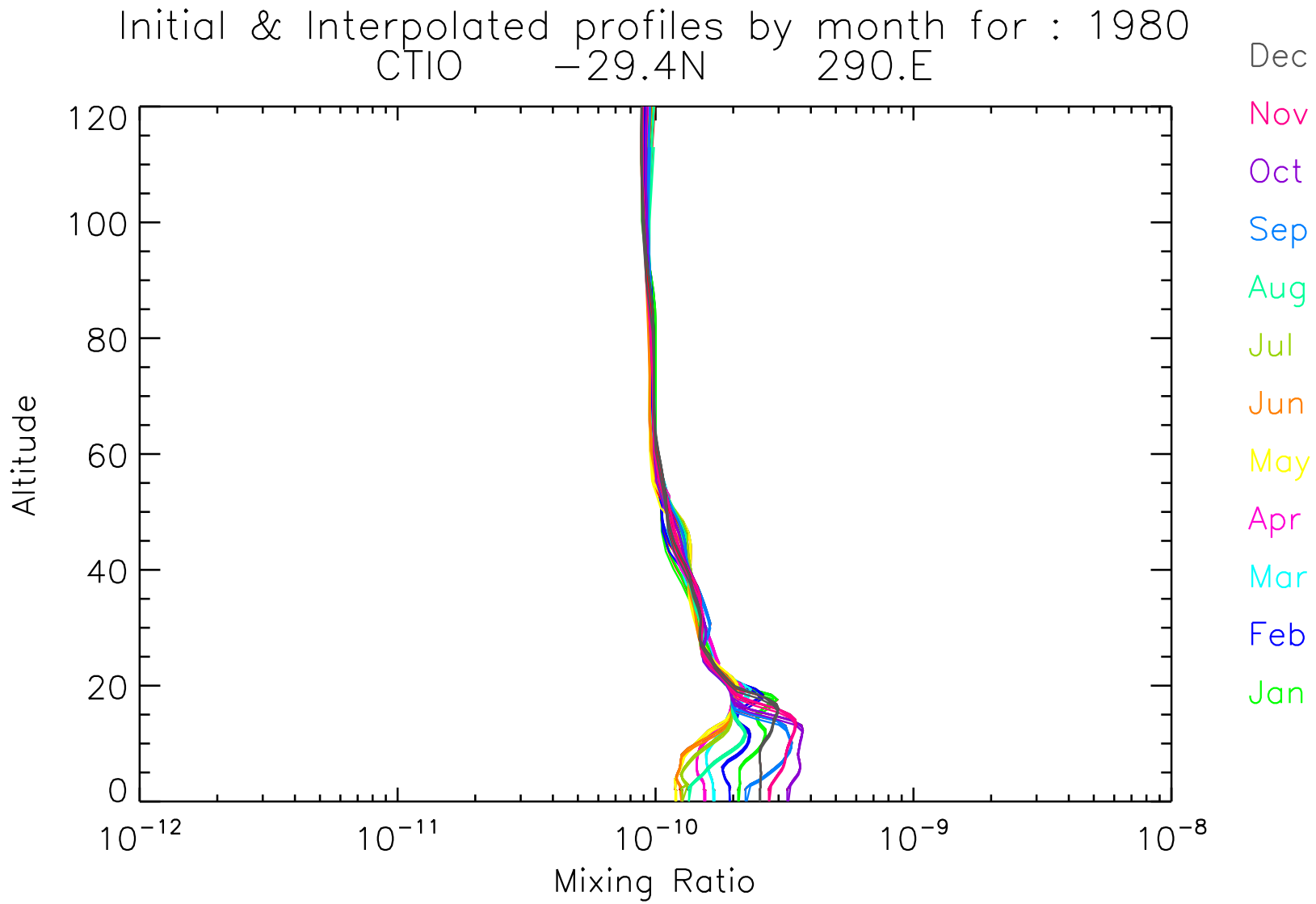
Initial & Interpolated profiles by month for : 1980
CTIO −29.4N 290.E
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Altitude
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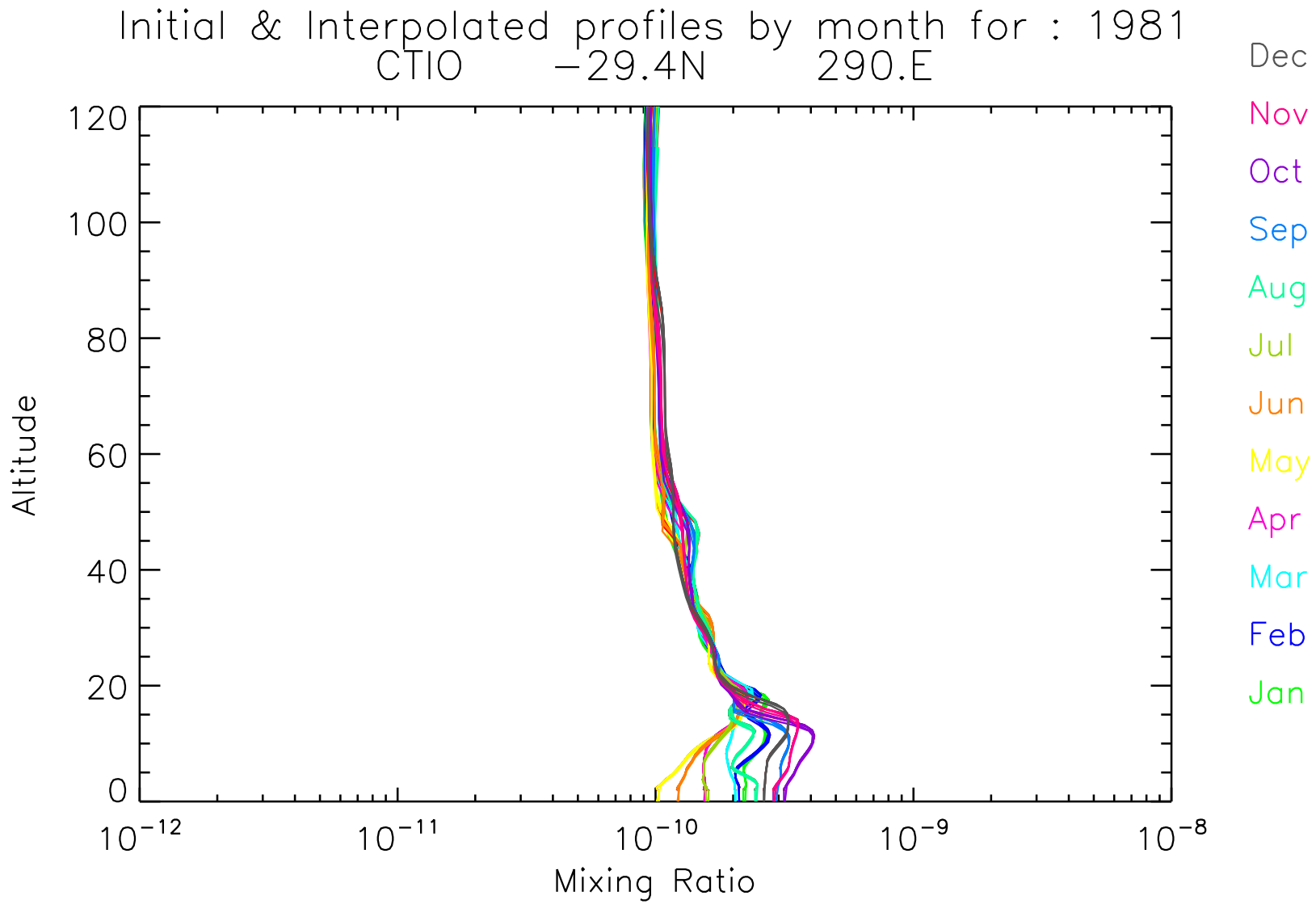
Mixing Ratio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CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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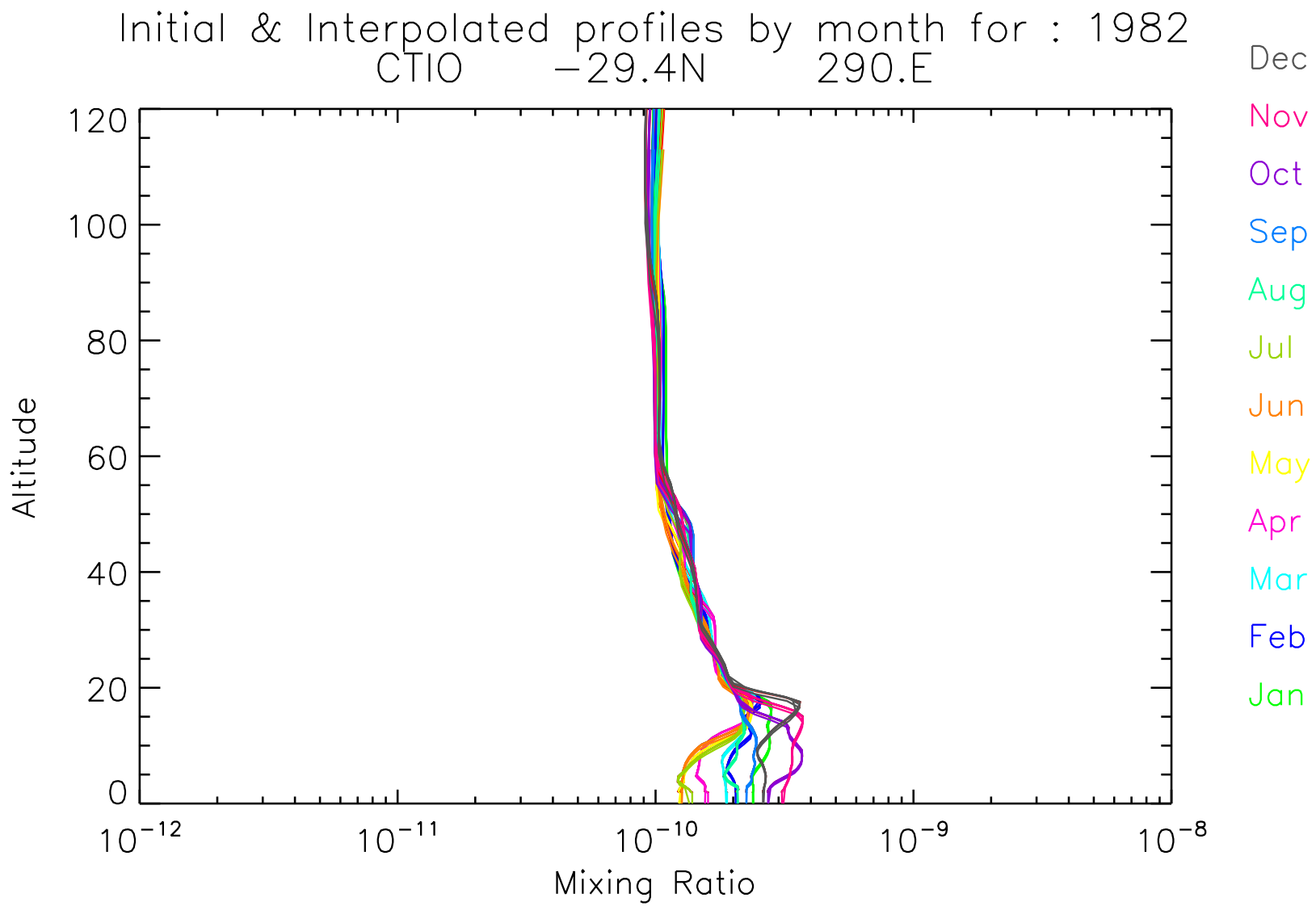
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Altitude
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Mixing Ratio
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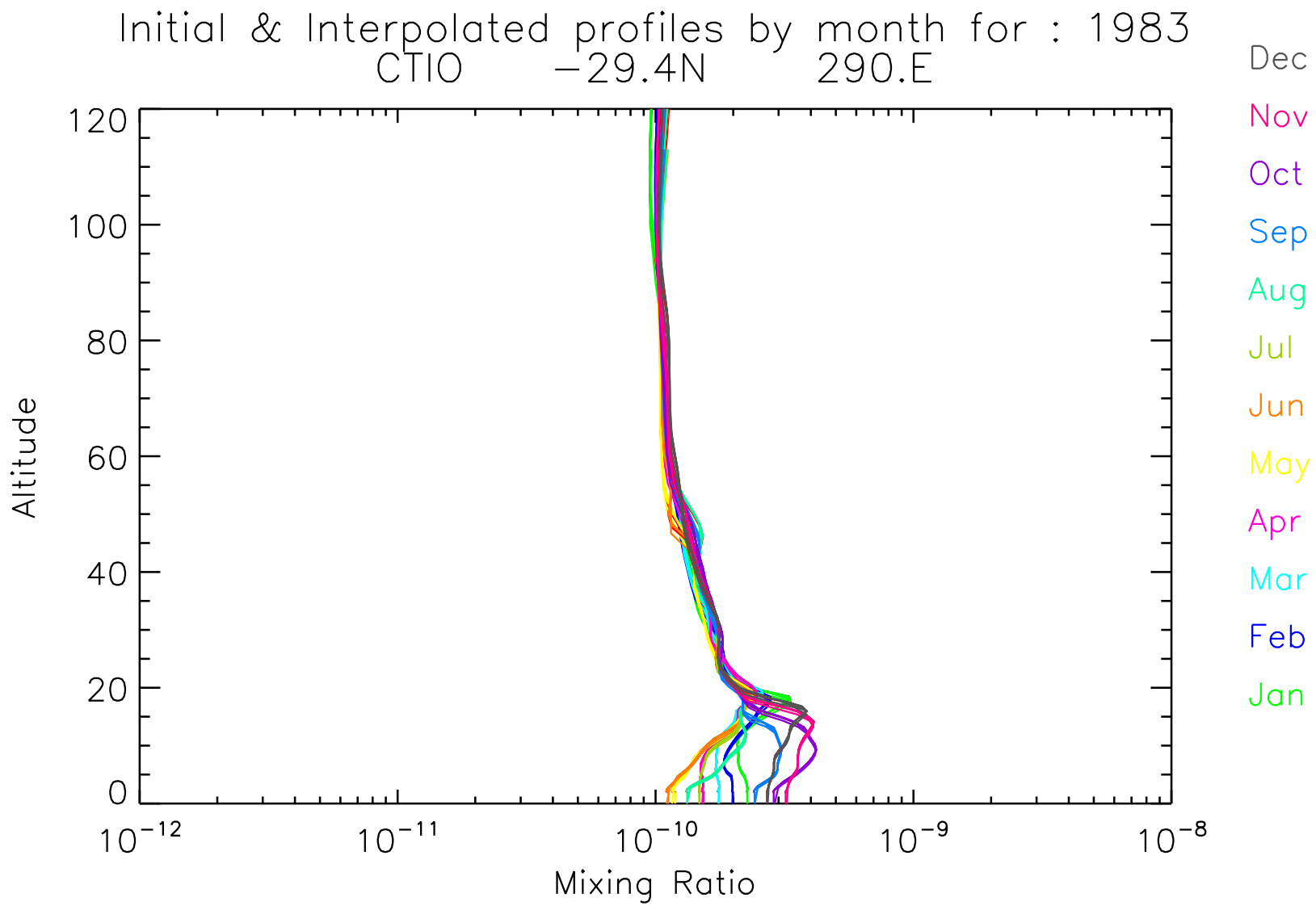
Initial & Interpolated profiles by month for : 1983
CTIO −29.4N 290.E
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Altitude
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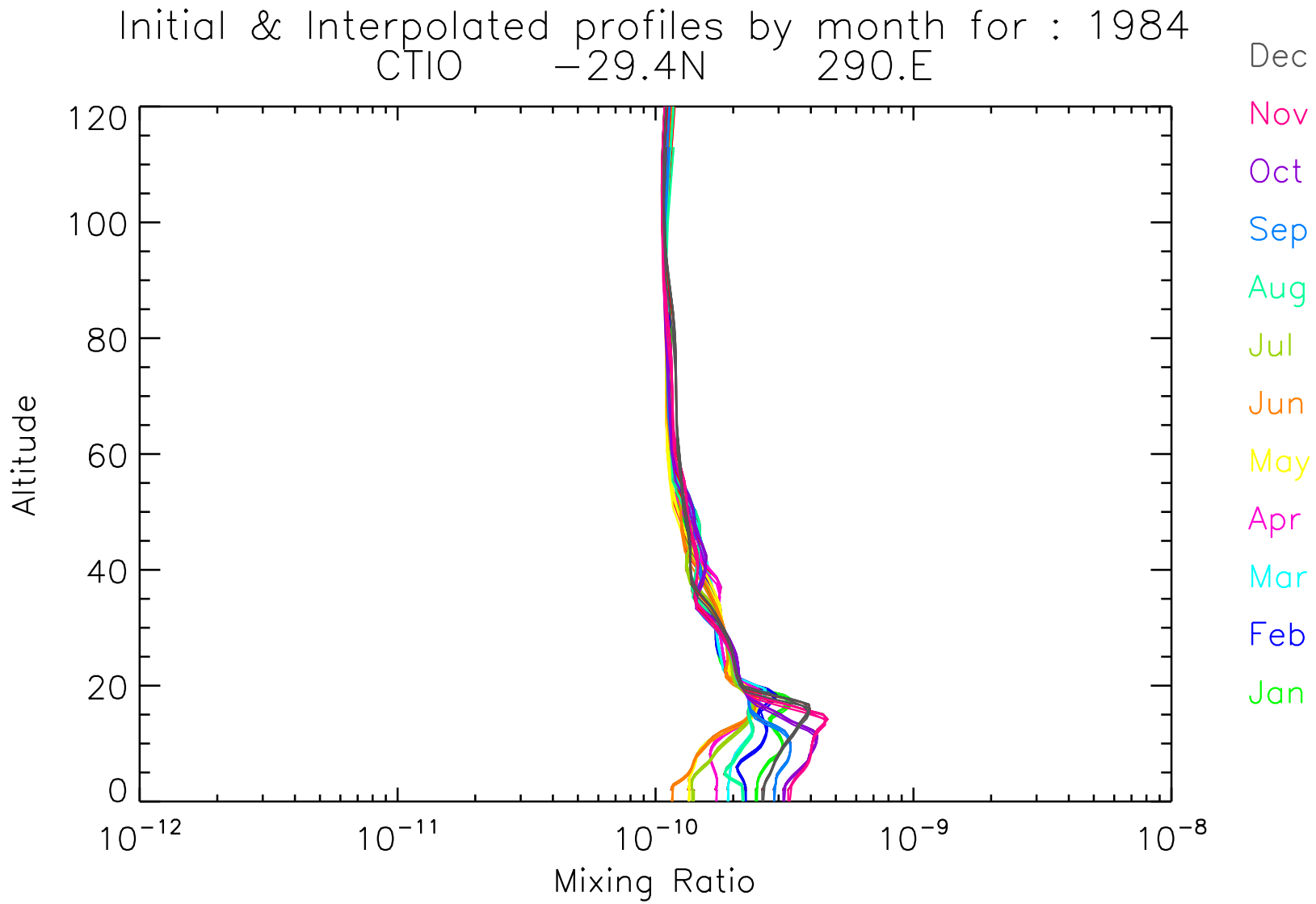
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
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Altitude
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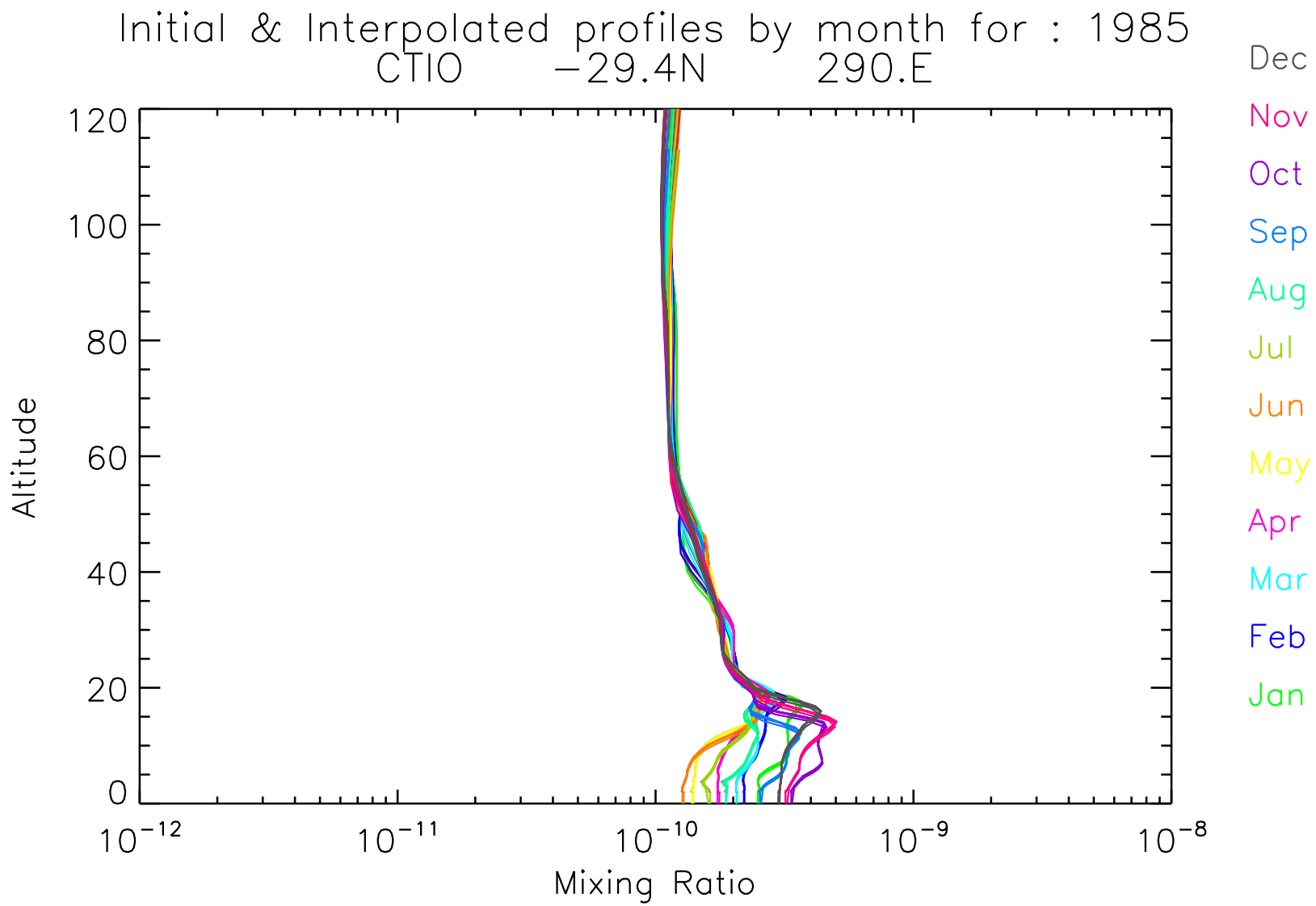
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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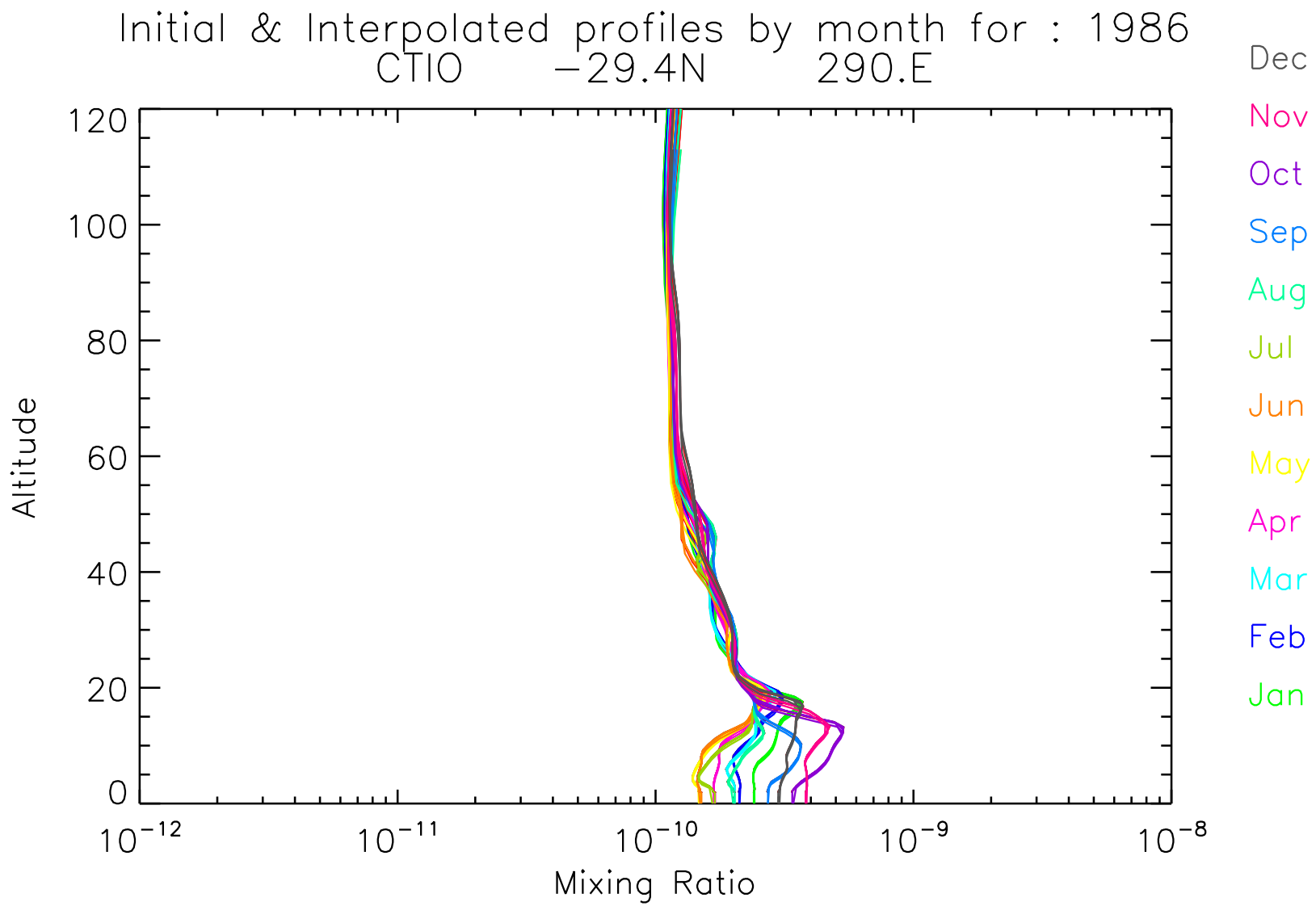
Initial & Interpolated profiles by month for : 1986
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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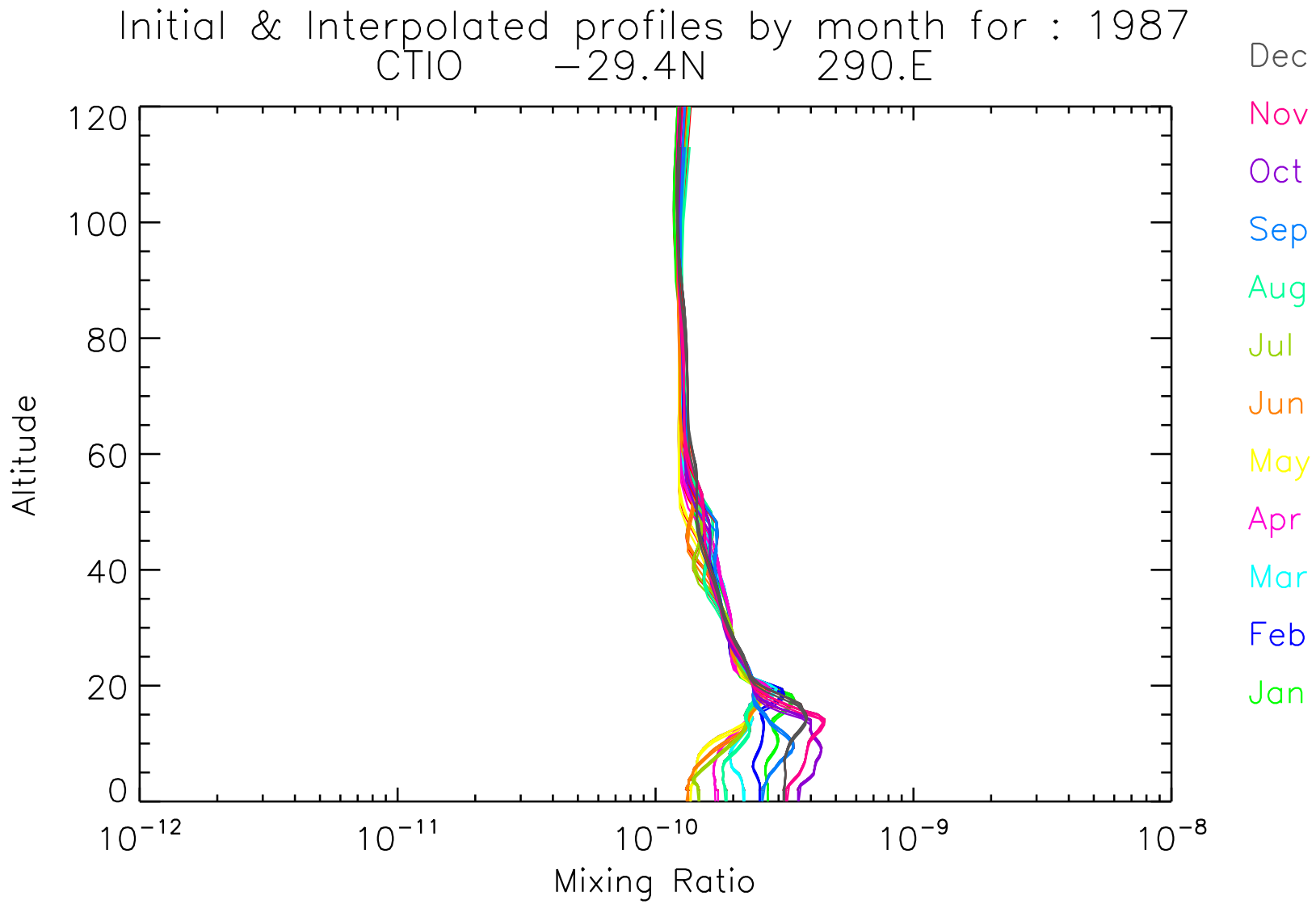
Initial & Interpolated profiles by month for : 1987
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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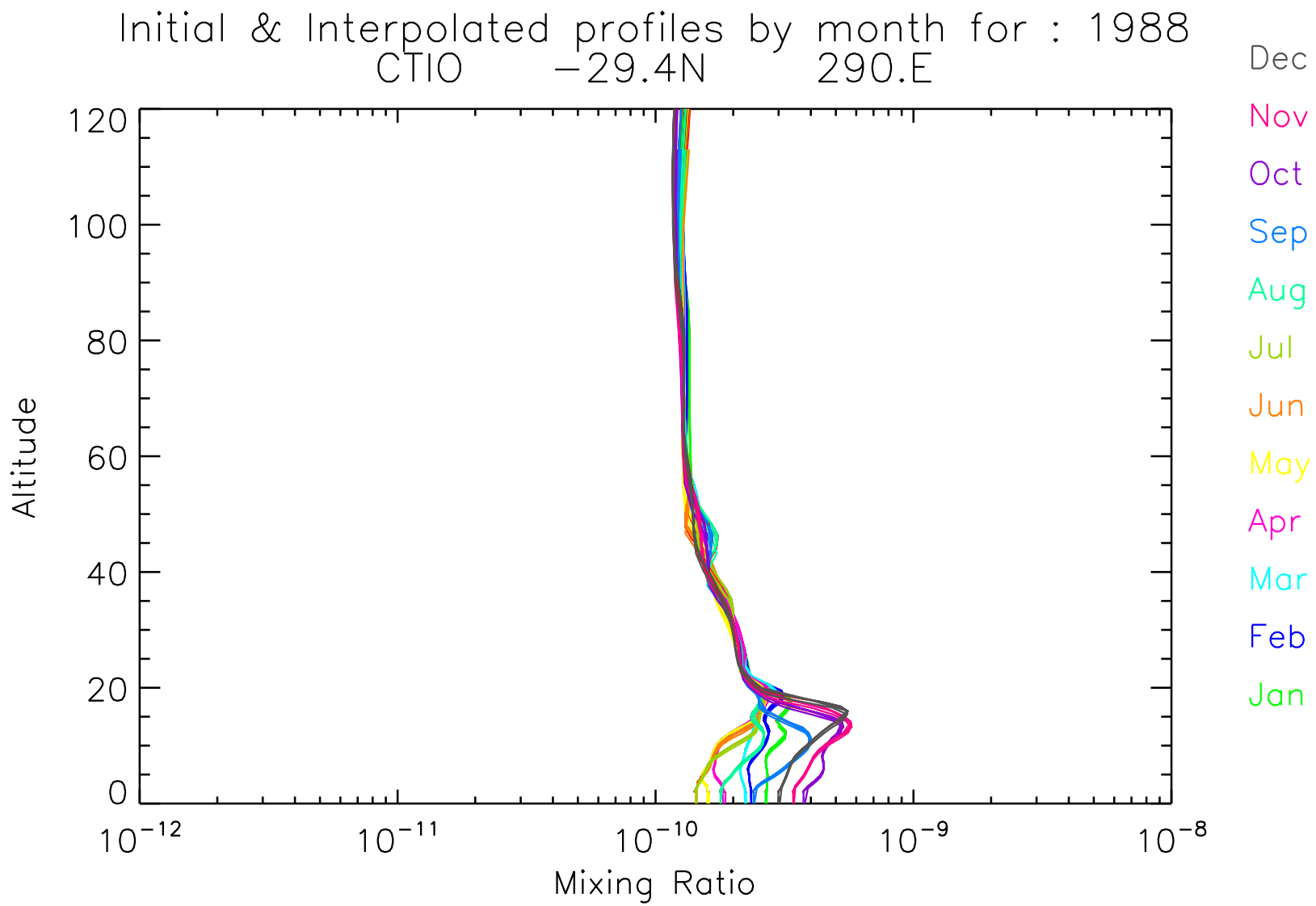
Initial & Interpolated profiles by month for : 1988
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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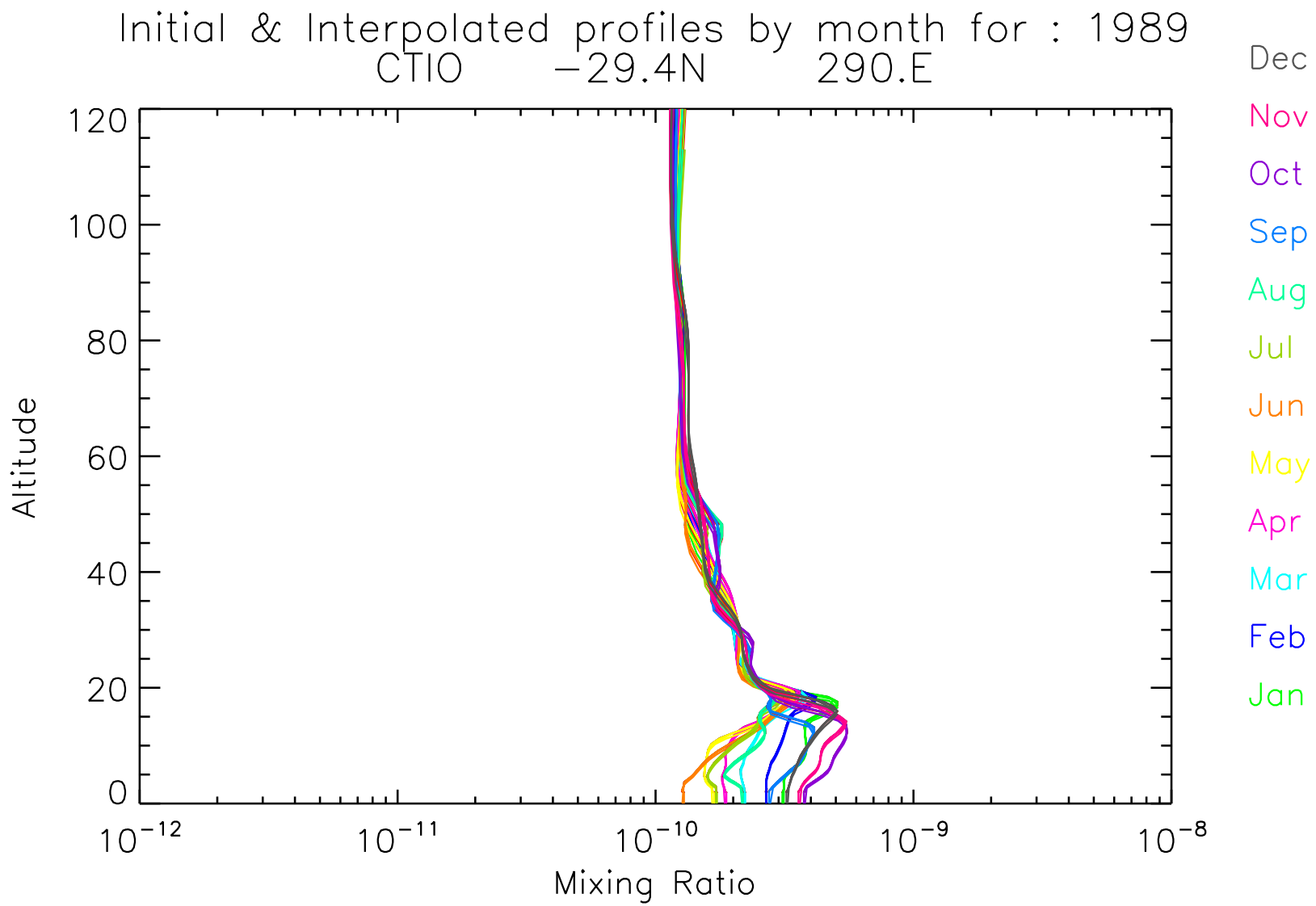
Initial & Interpolated profiles by month for : 1989
CTIO −29.4N 290.E
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Altitude
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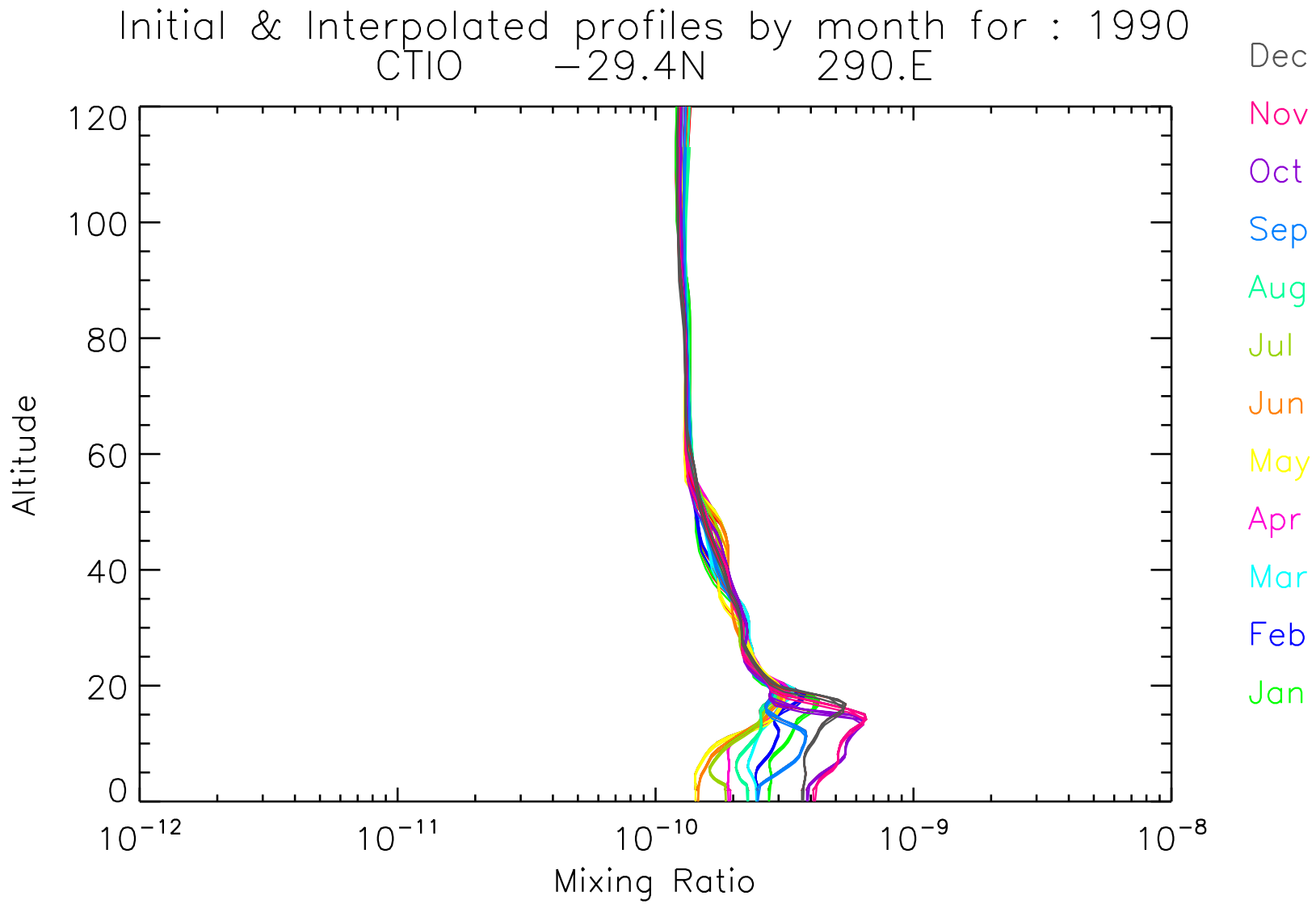
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
CTIO −29.4N 290.E
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Altitude
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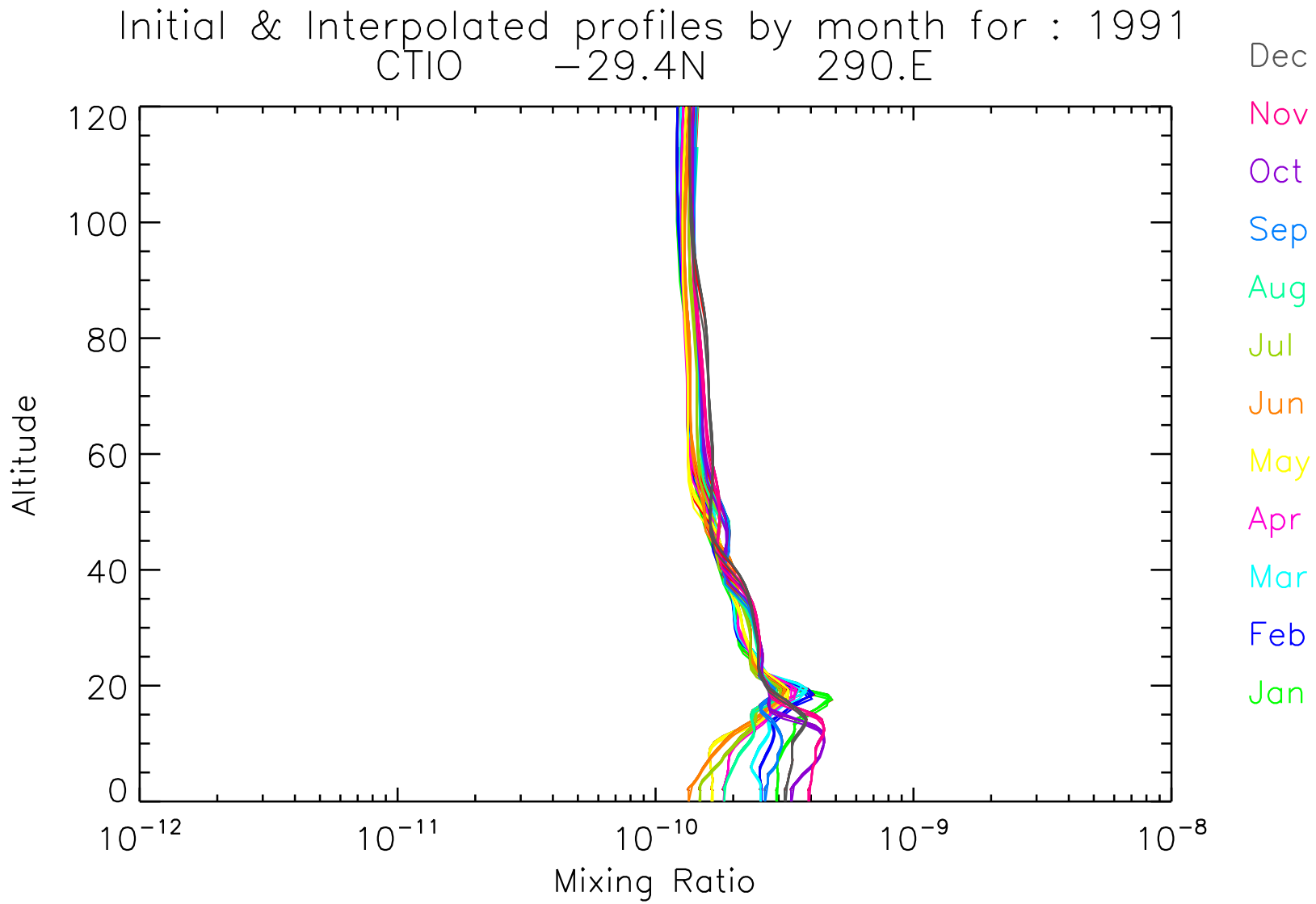
Mixing Ratio


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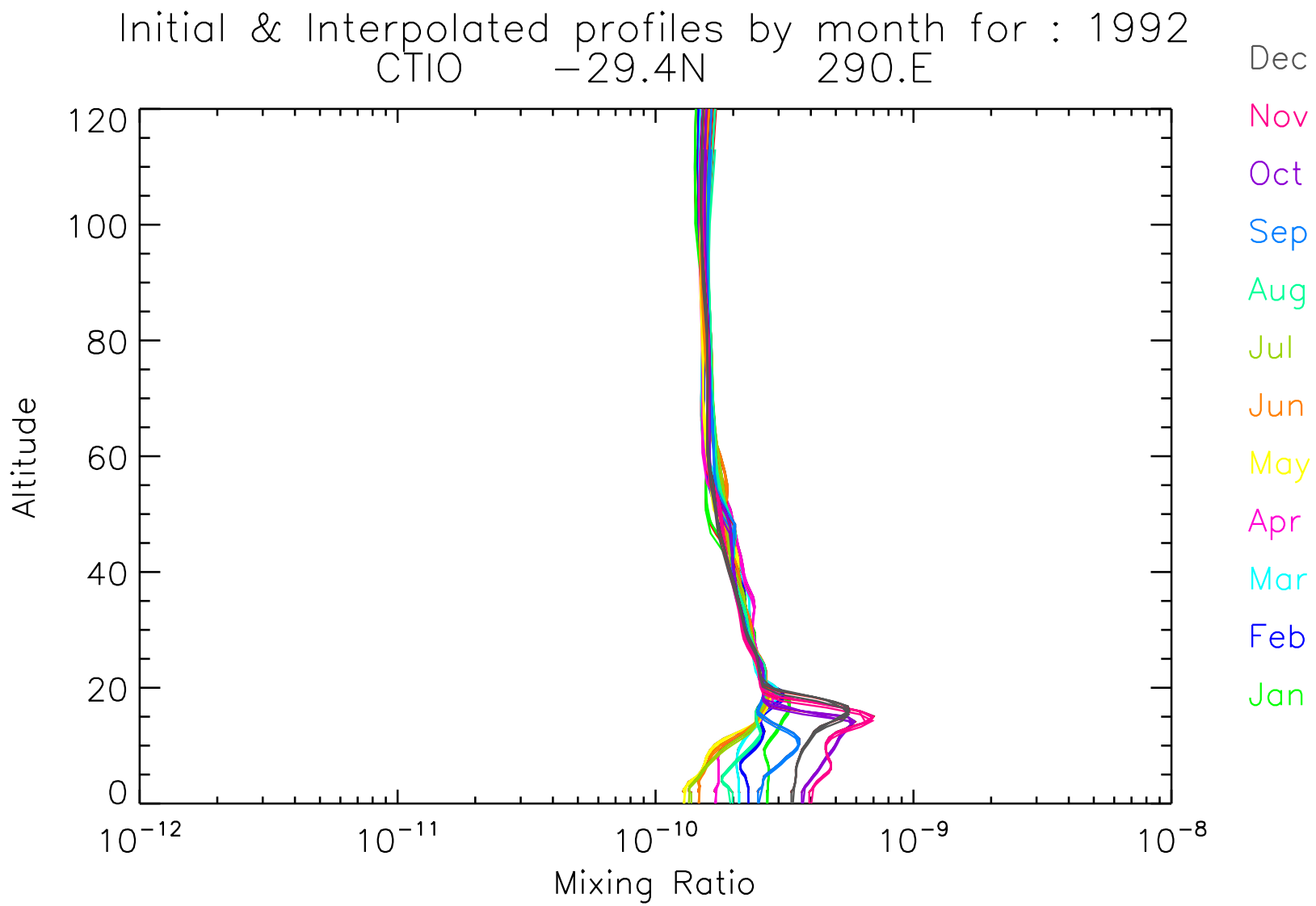
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
CTIO −29.4N 290.E
Altitude
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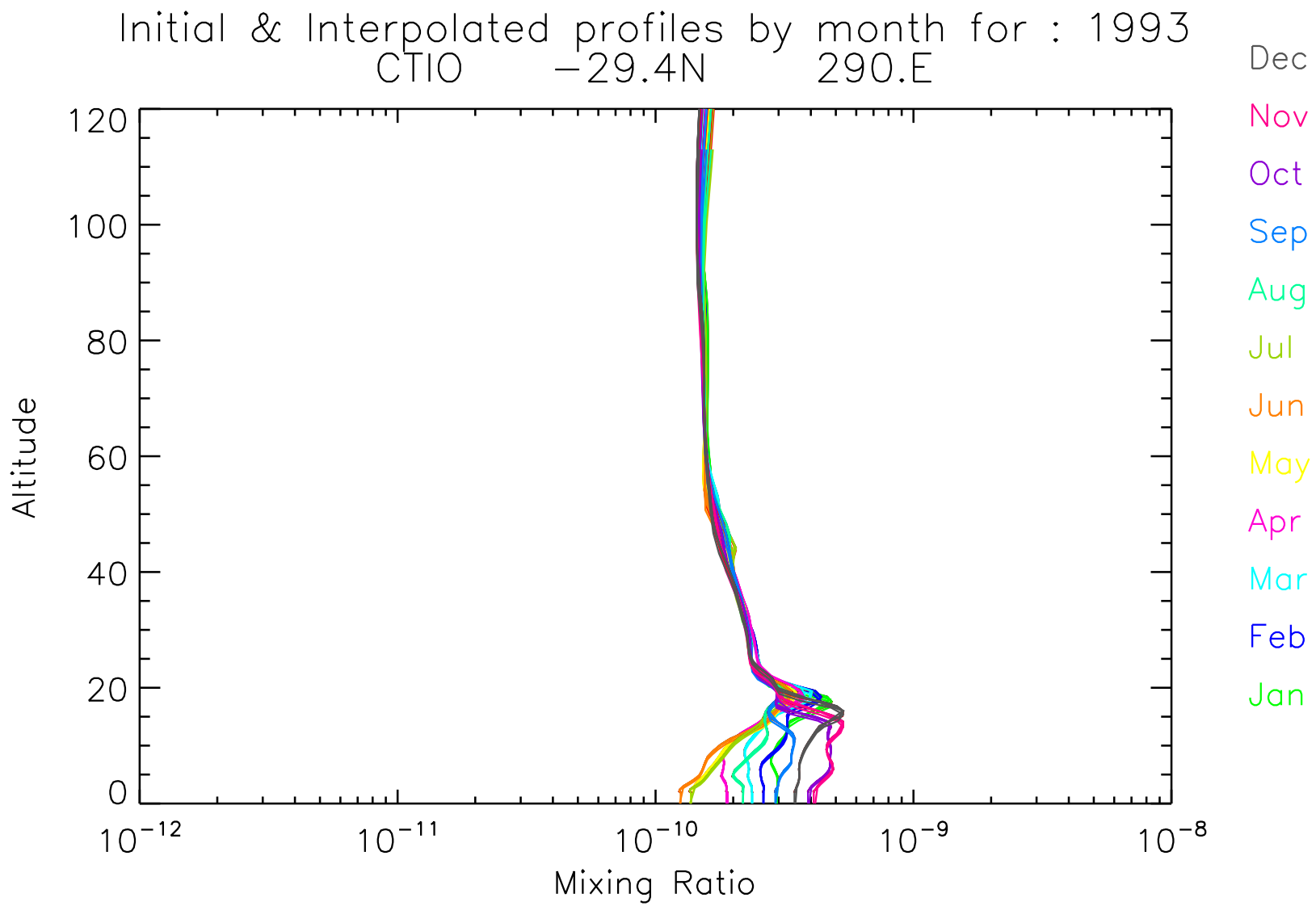
Initial & Interpolated profiles by month for : 1993
CTIO −29.4N 290.E
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Altitude
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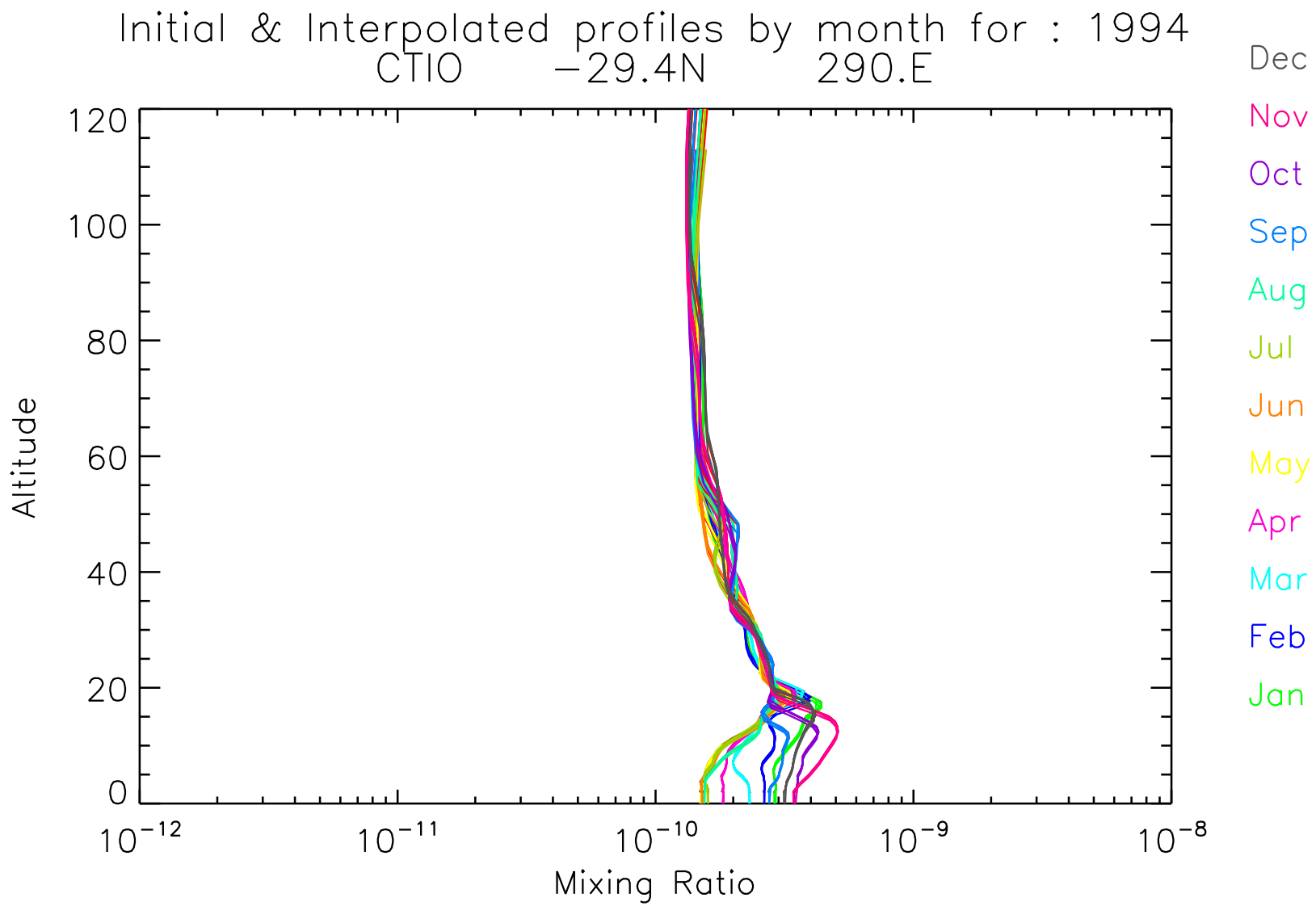
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
CTIO −29.4N 290.E
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Altitude
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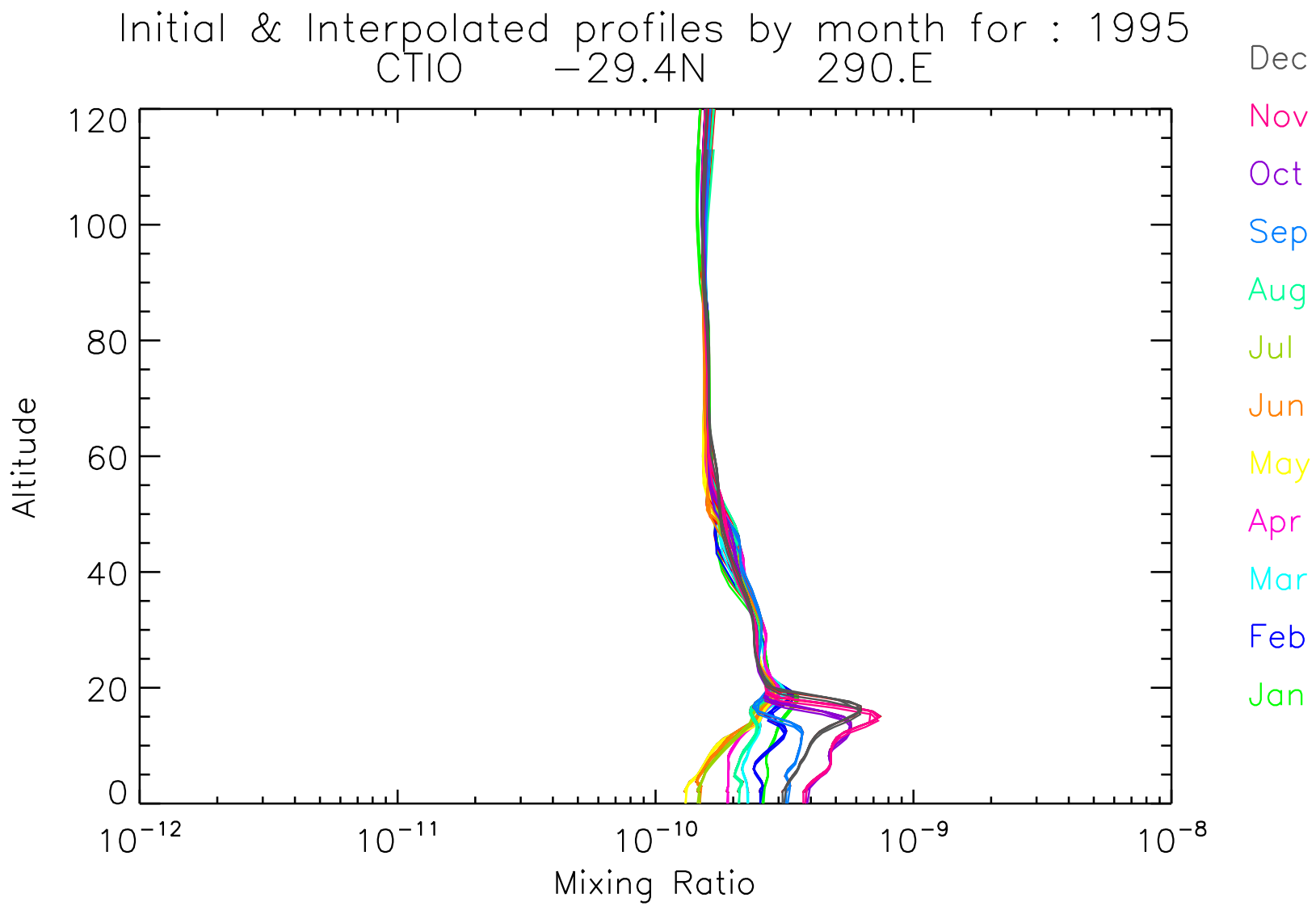
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
CTIO −29.4N 290.E
Altitude
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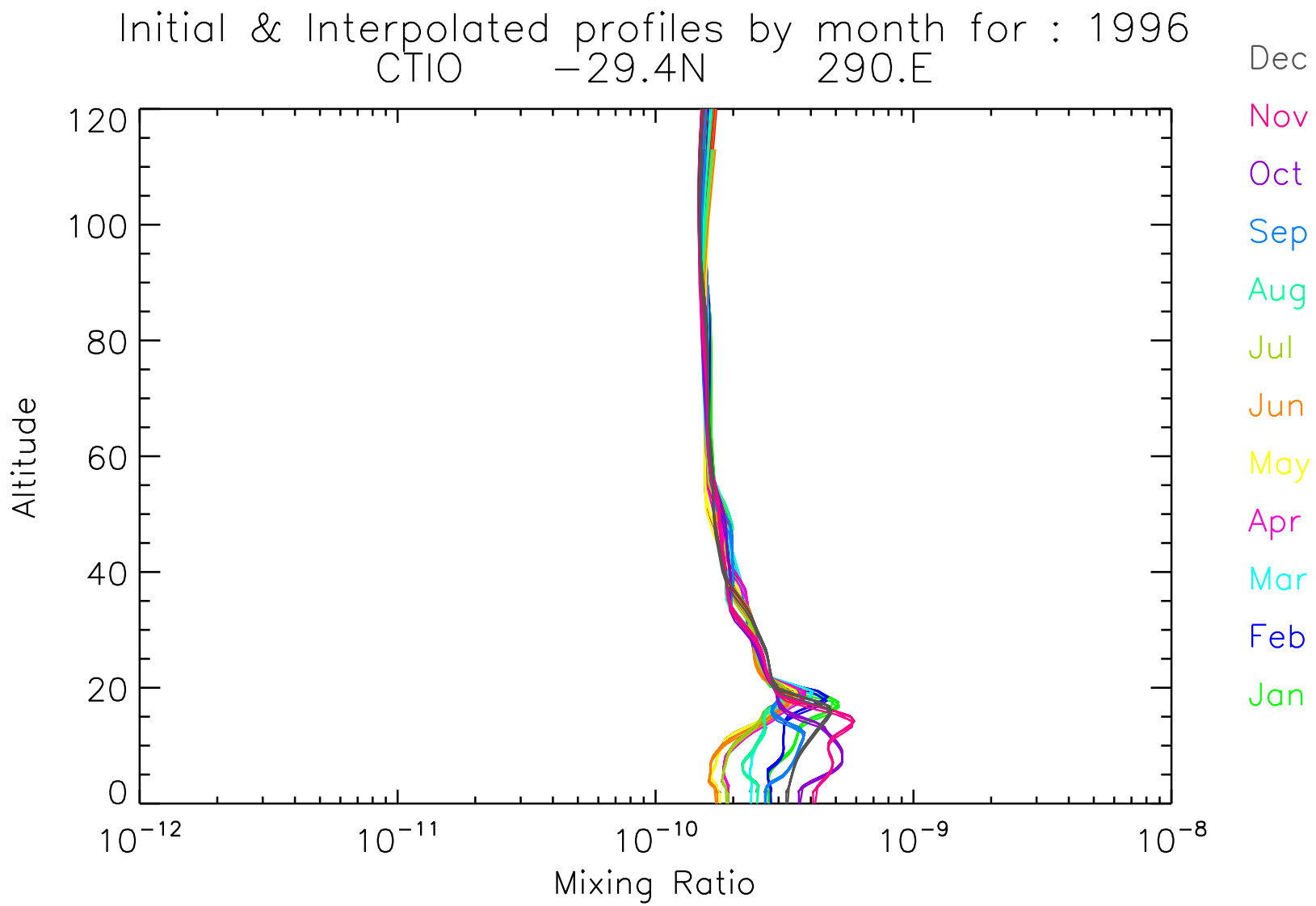
Initial & Interpolated profiles by month for : 1996
CTIO −29.4N 290.E
Altitude
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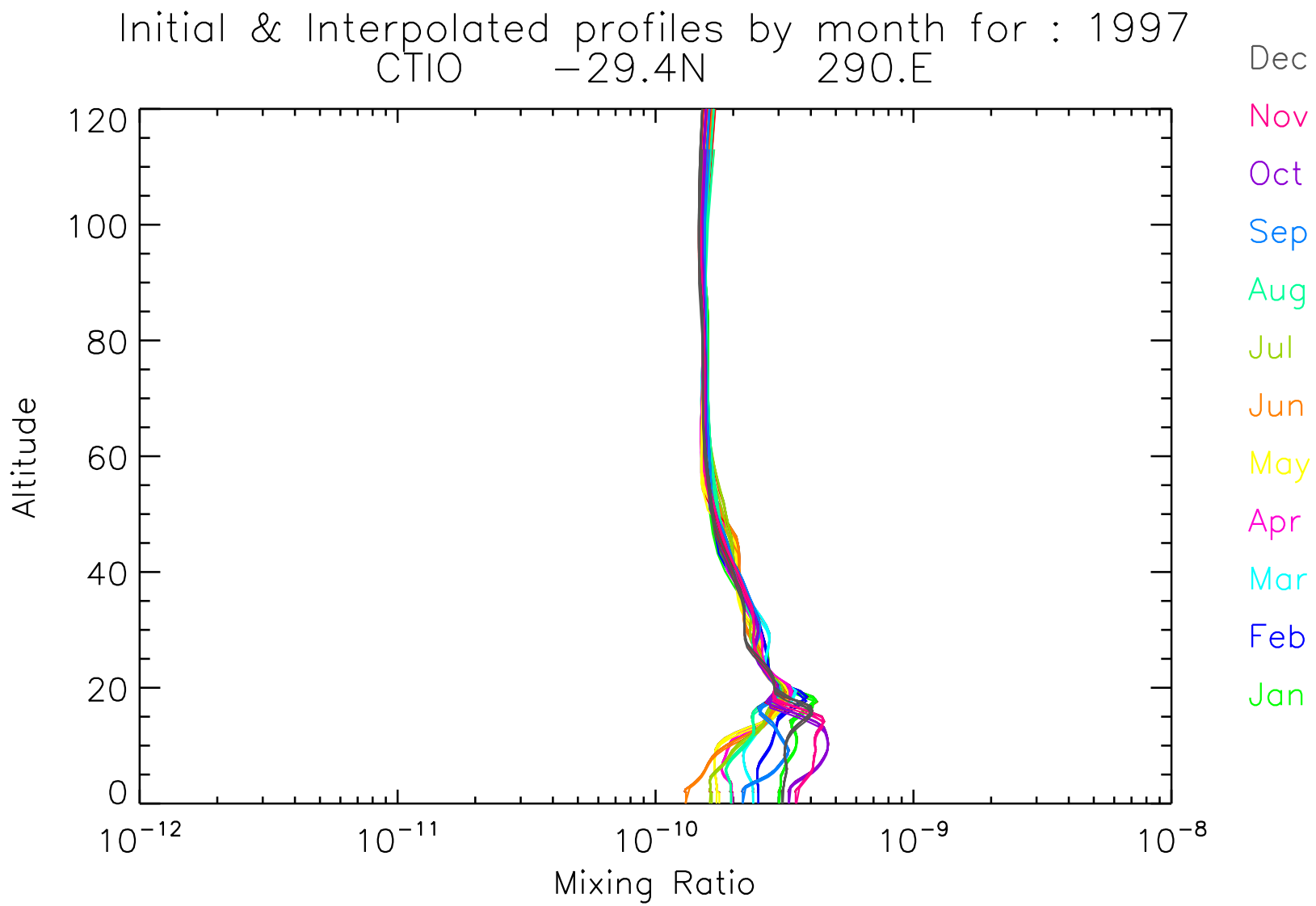
Initial & Interpolated profiles by month for : 1997
CTIO −29.4N 290.E
Altitude
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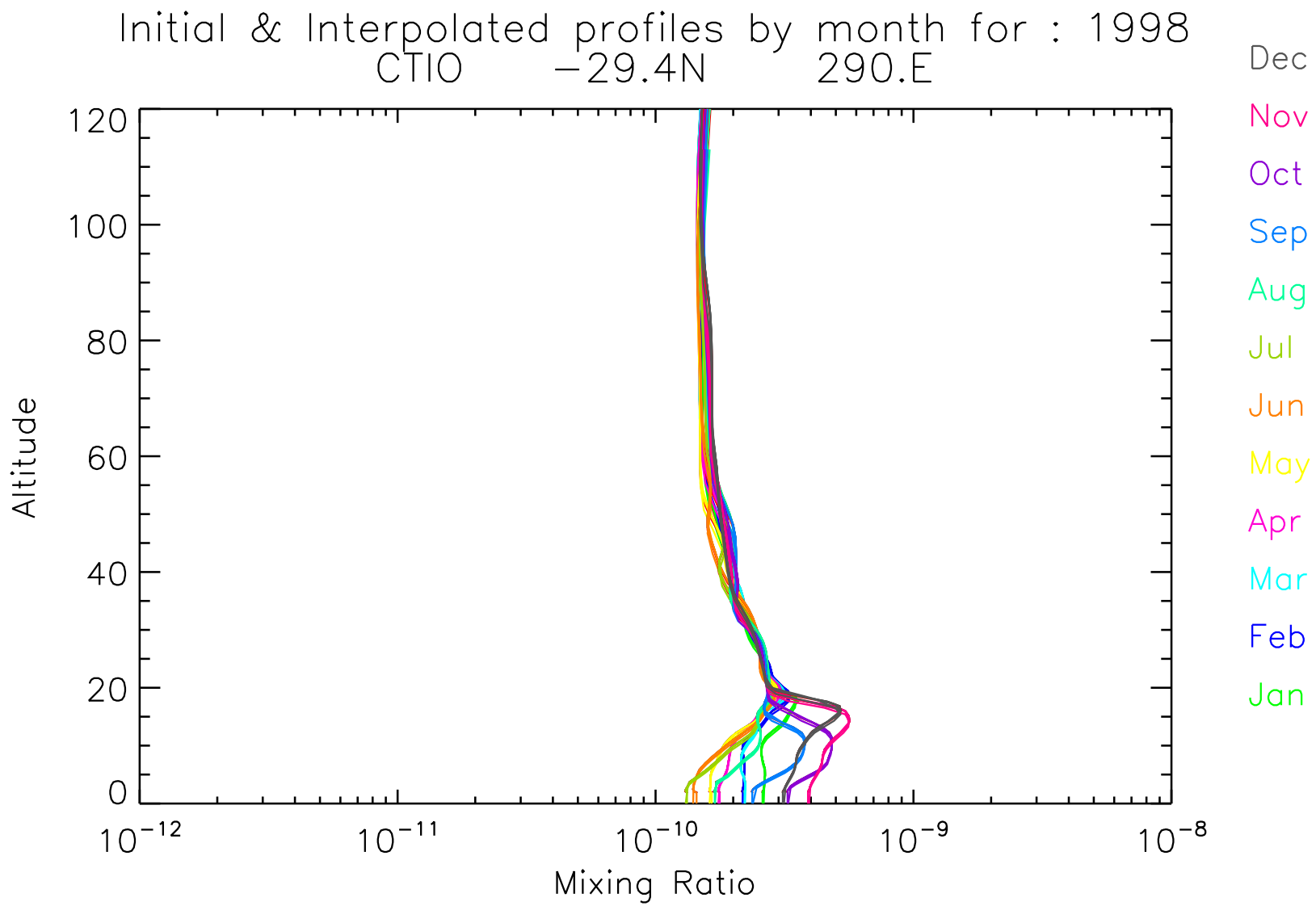
Initial & Interpolated profiles by month for : 1998
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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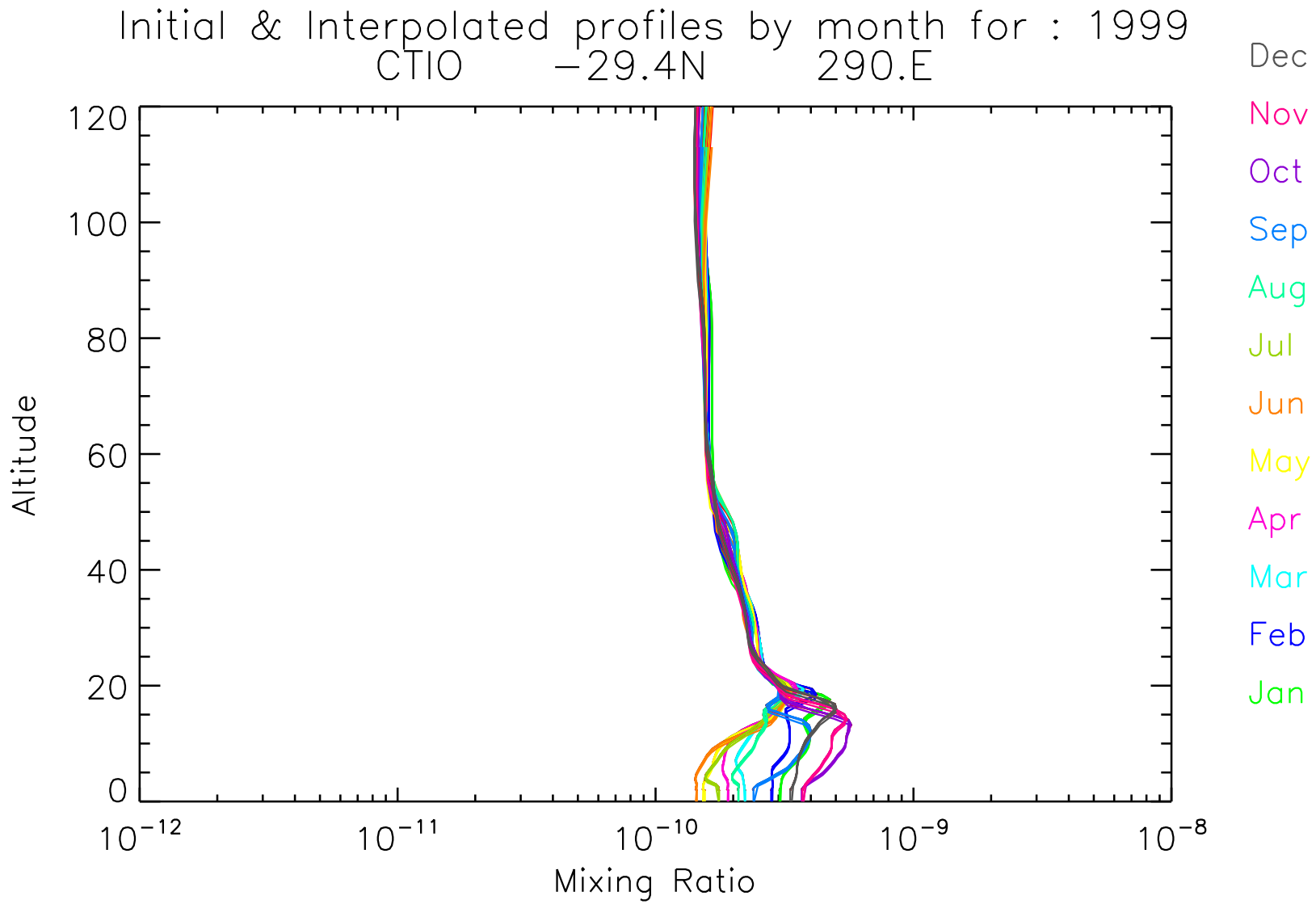
Initial & Interpolated profiles by month for : 1999
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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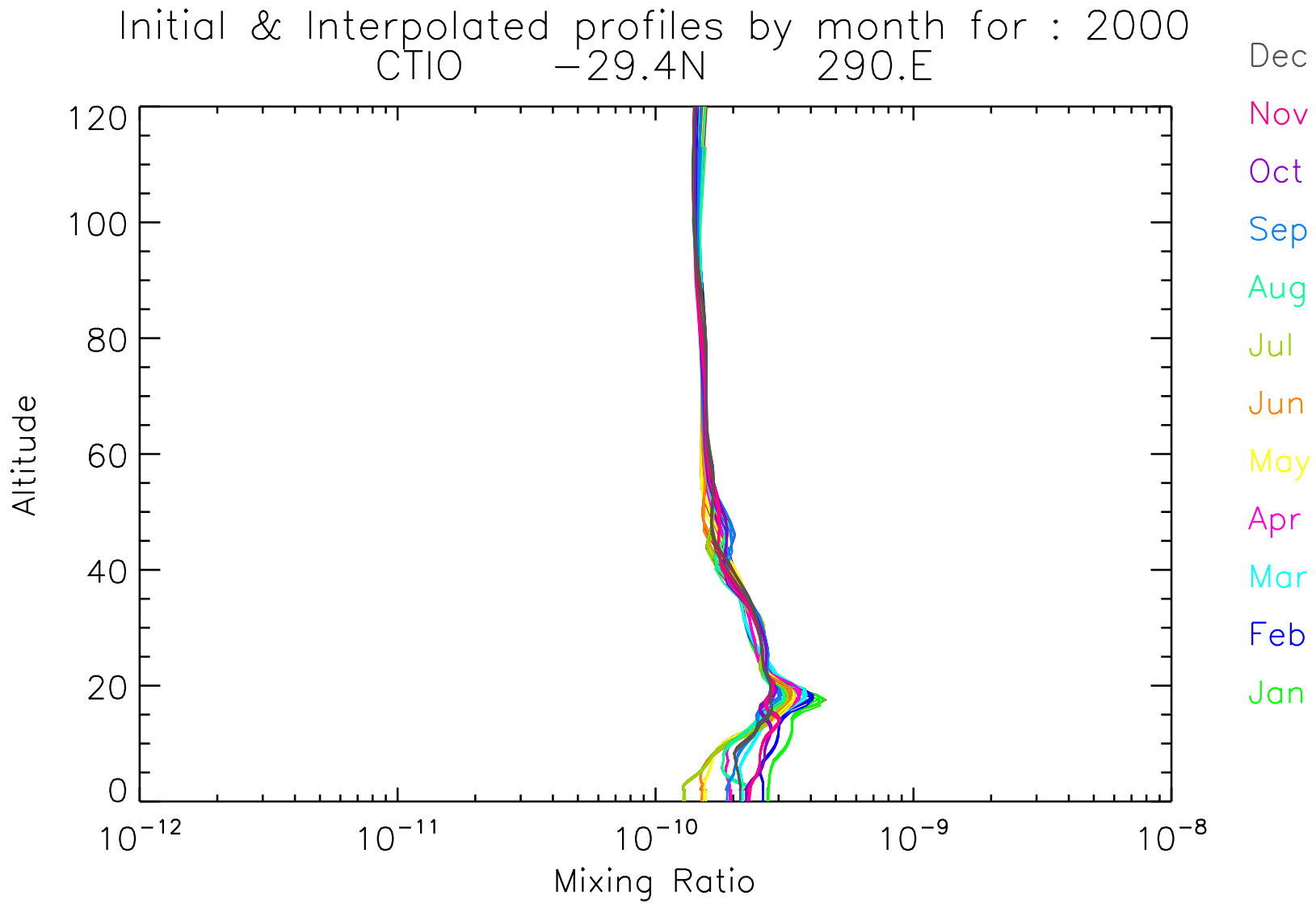
Initial & Interpolated profiles by month for : 2000
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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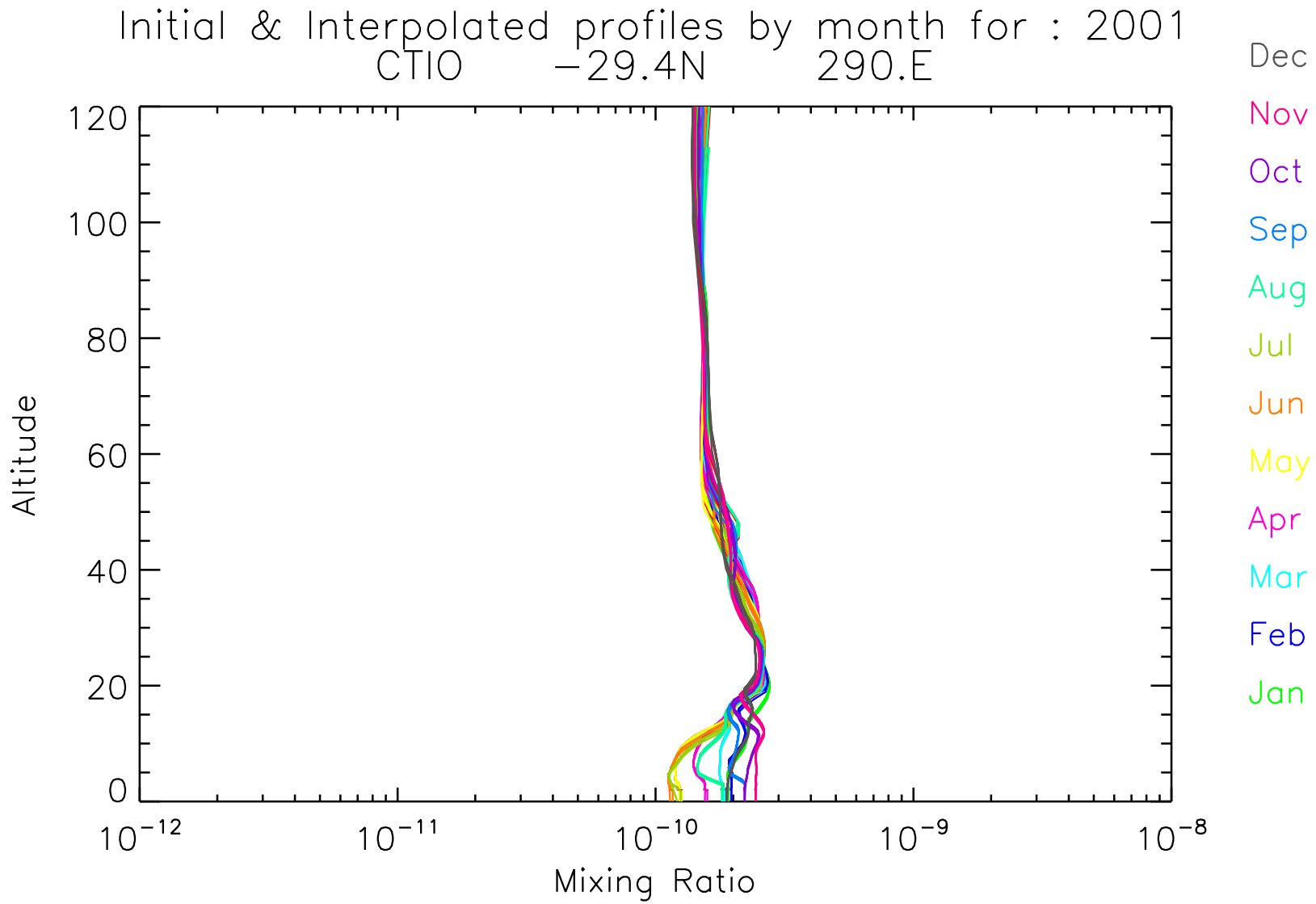
Initial & Interpolated profiles by month for : 2001
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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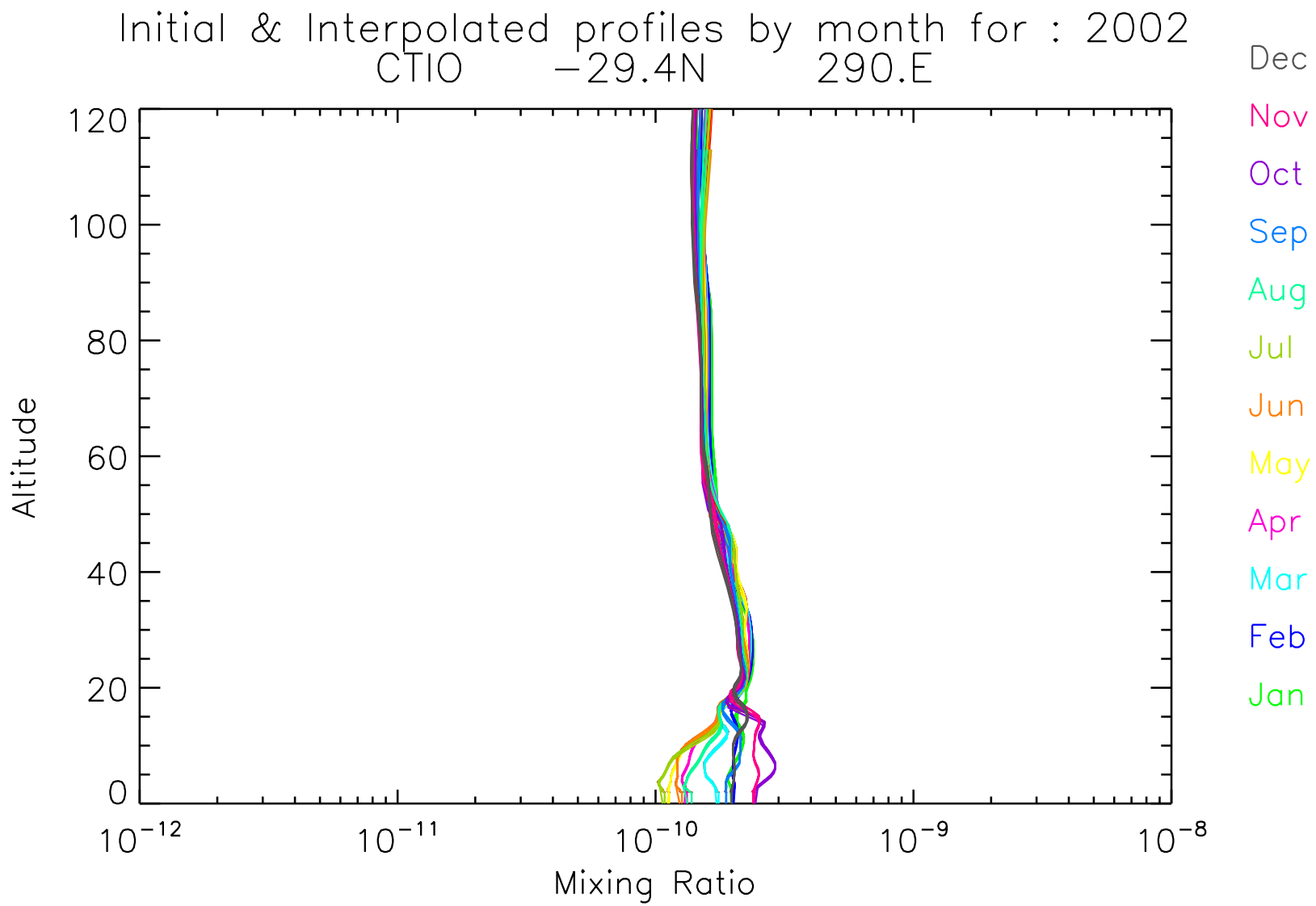
Initial & Interpolated profiles by month for : 2002
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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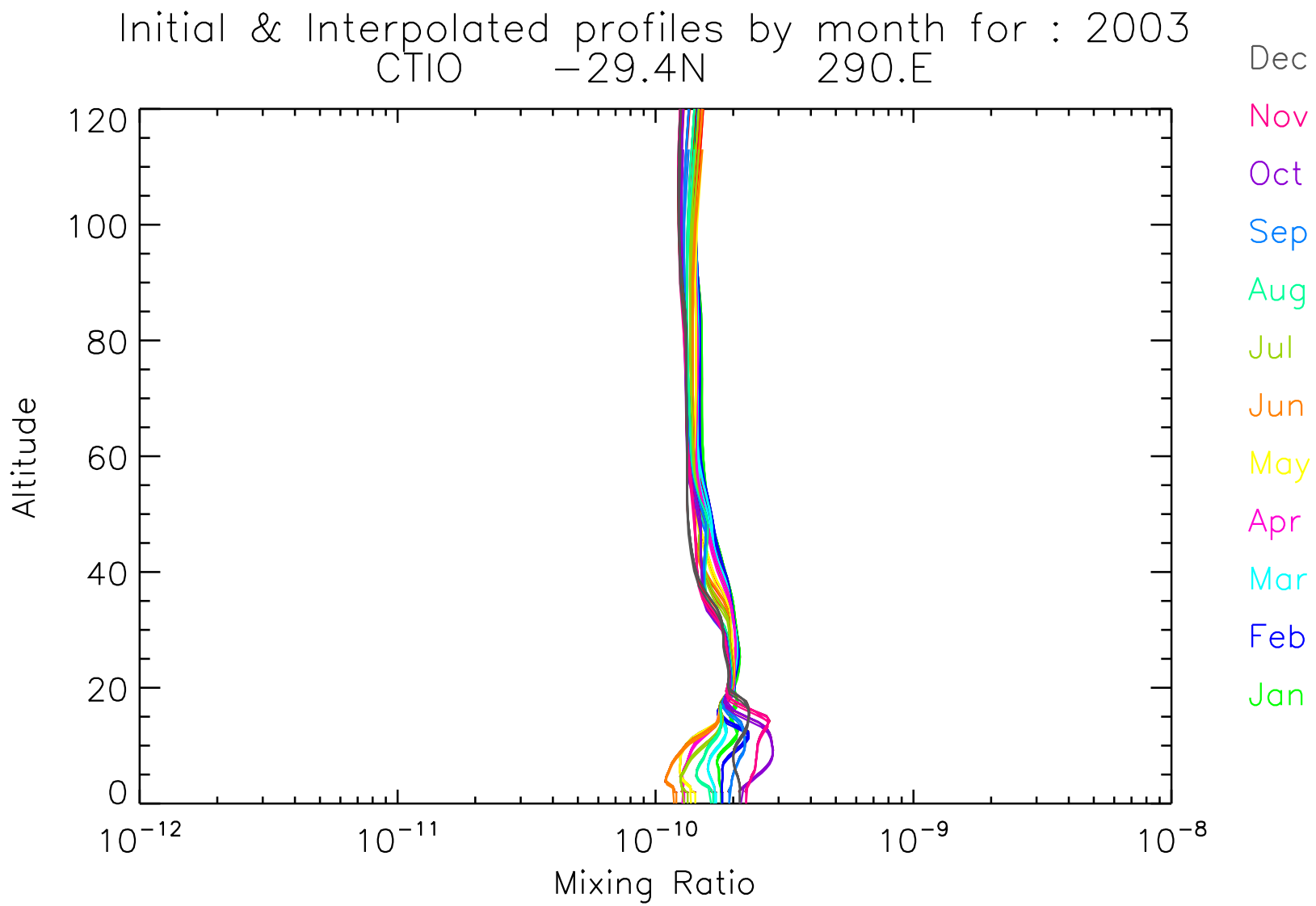
Initial & Interpolated profiles by month for : 2003
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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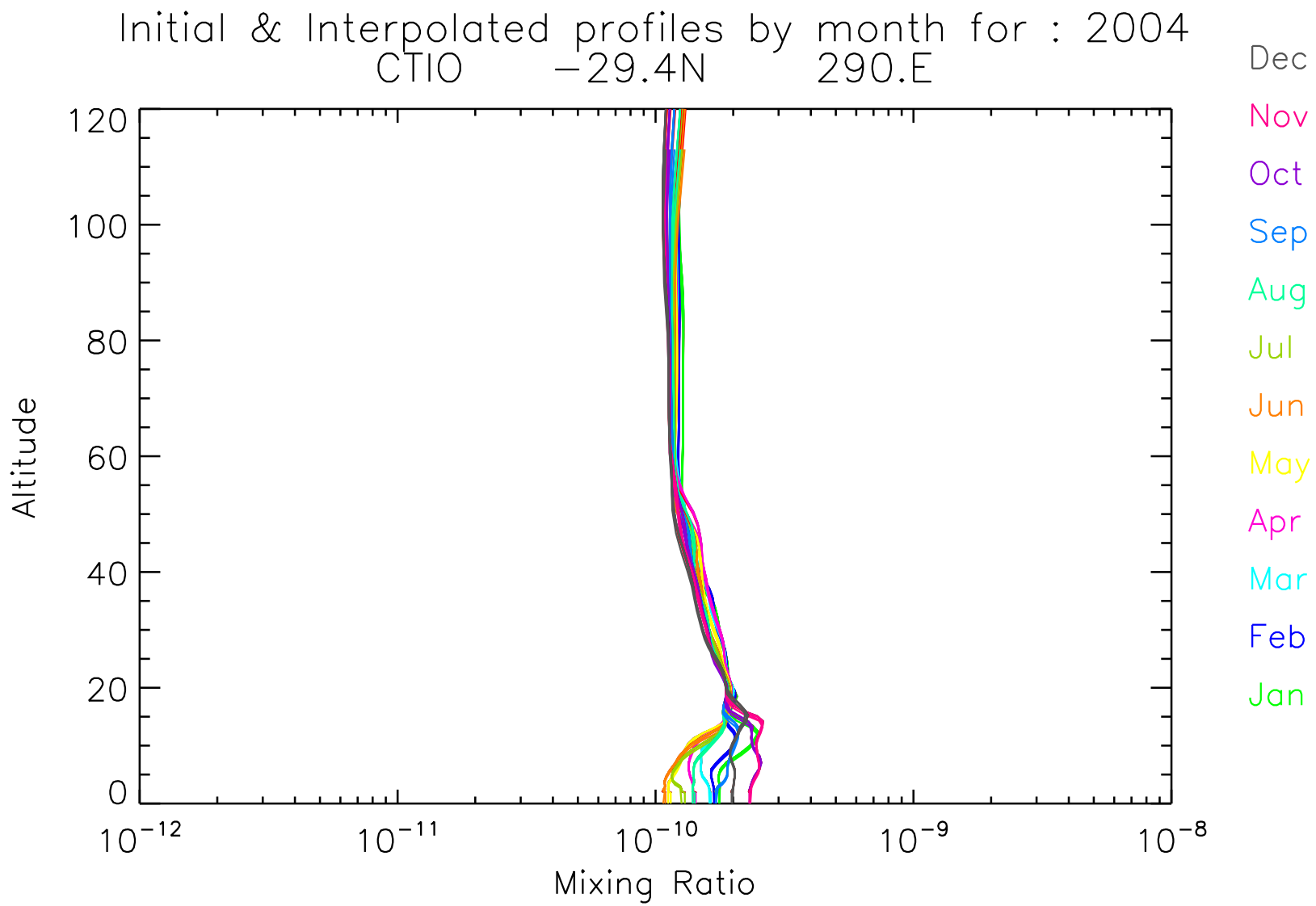
Initial & Interpolated profiles by month for : 2004
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Altitude
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Mixing Ratio
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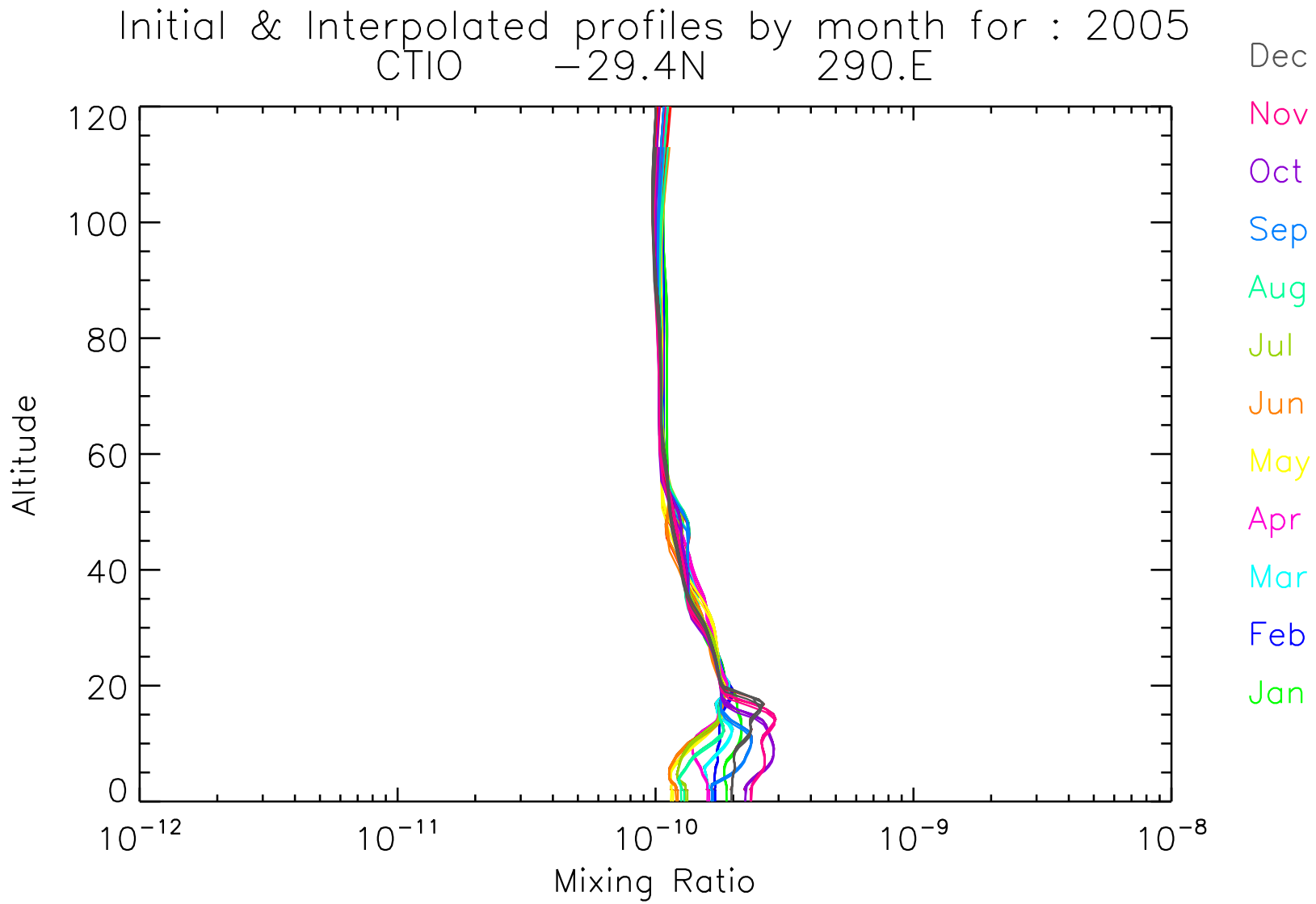
Initial & Interpolated profiles by month for : 2005
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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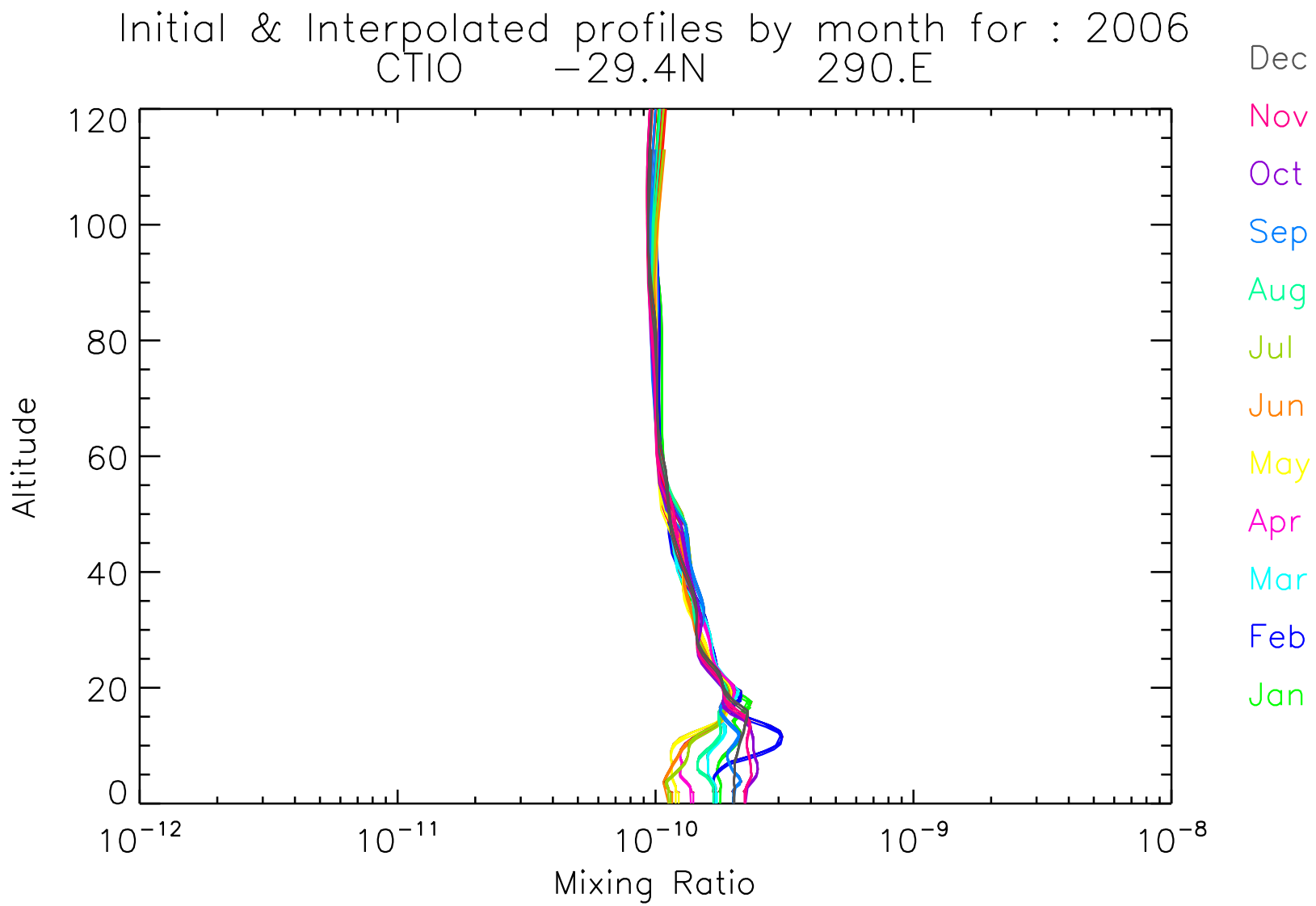
Initial & Interpolated profiles by month for : 2006
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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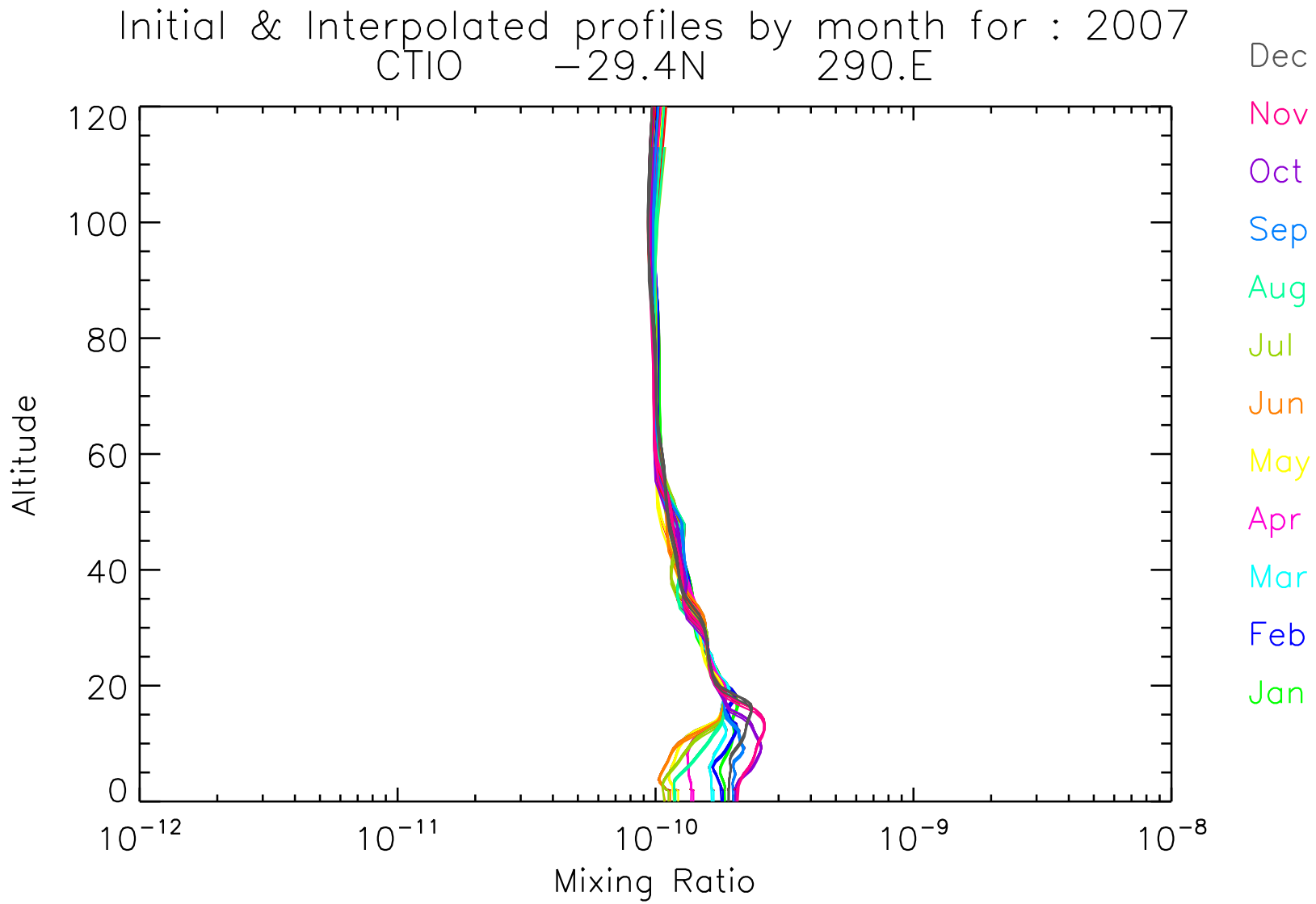
Initial & Interpolated profiles by month for : 2007
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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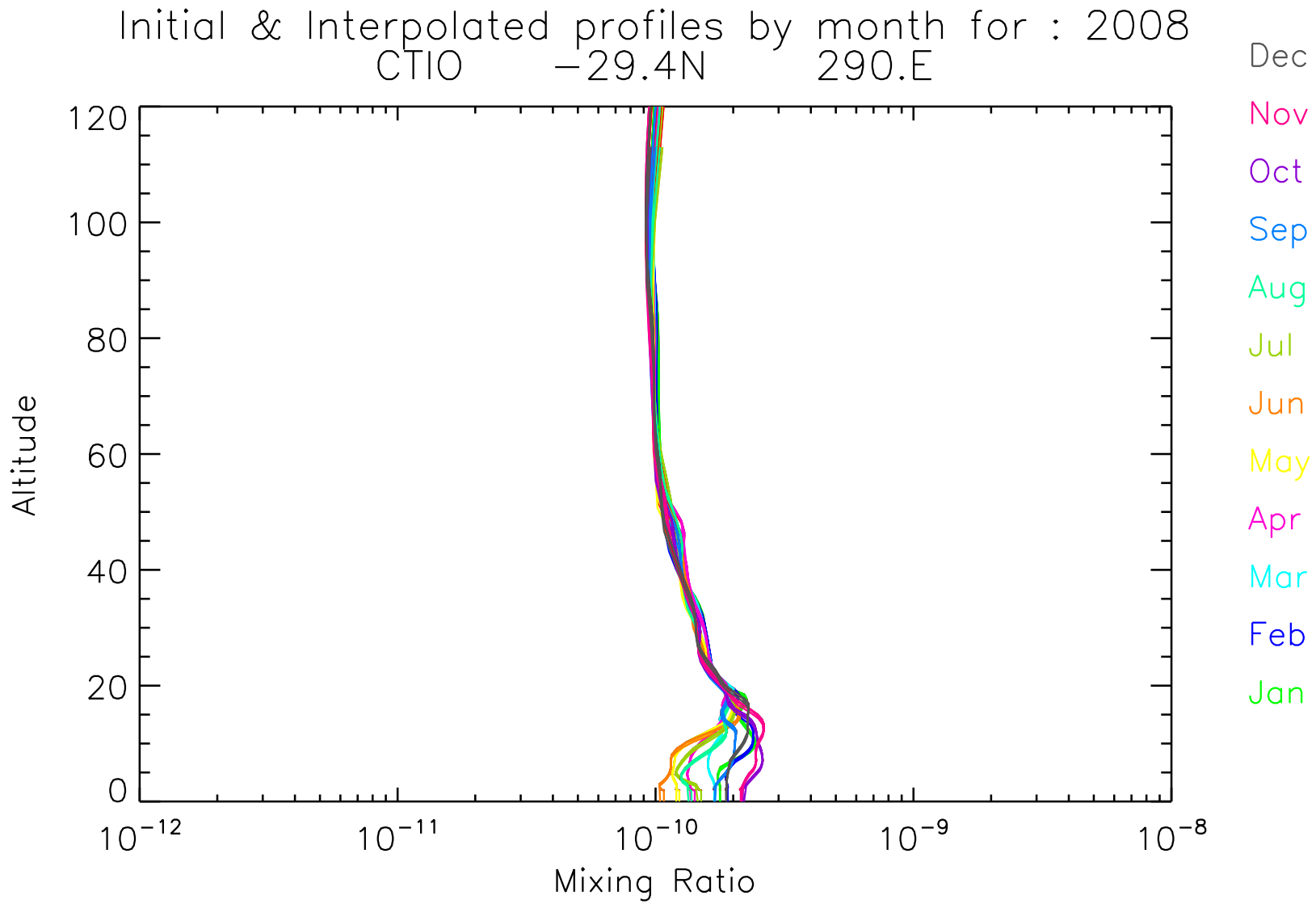
Initial & Interpolated profiles by month for : 2008
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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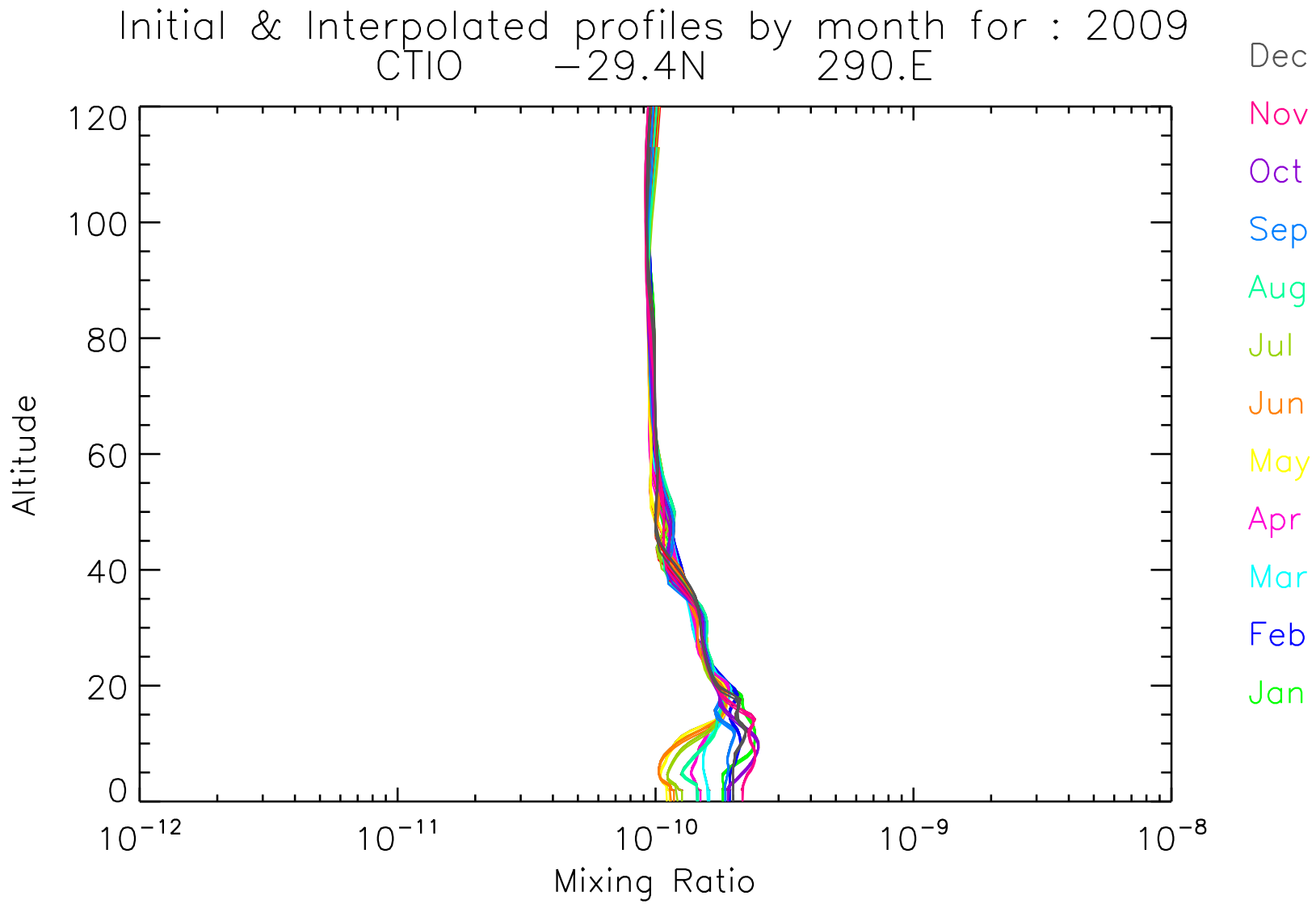
Initial & Interpolated profiles by month for : 2009
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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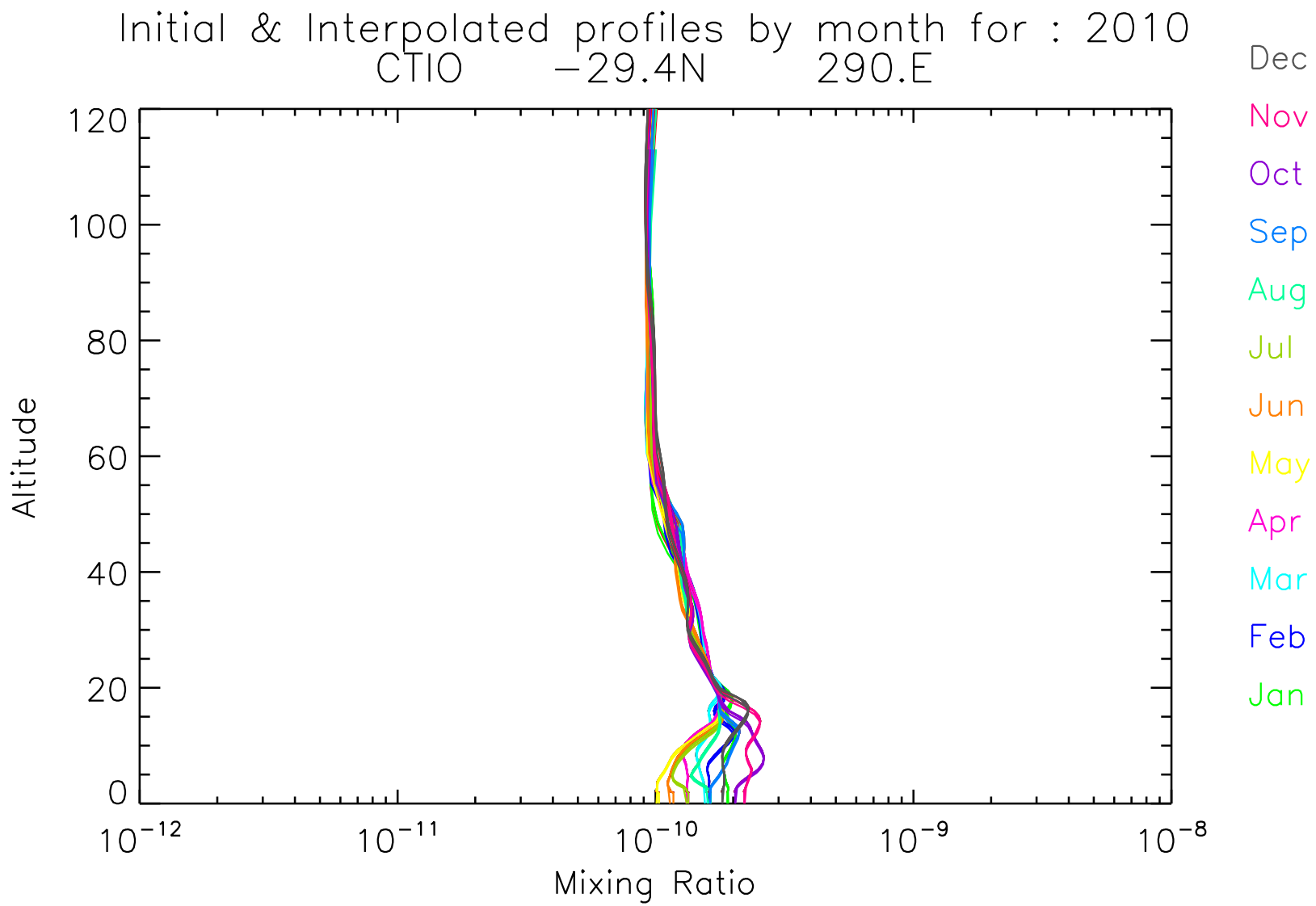
Initial & Interpolated profiles by month for : 2010
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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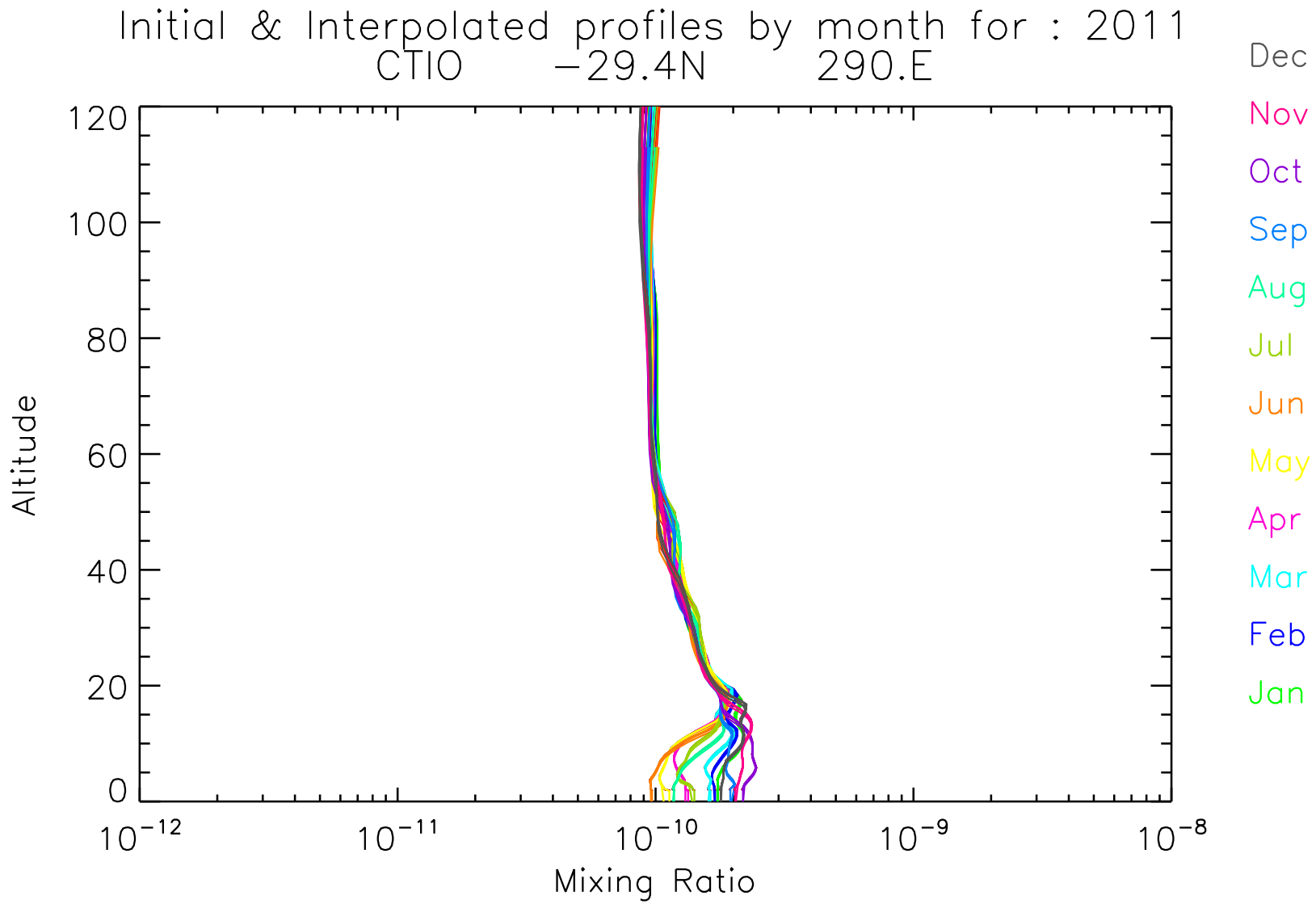
Initial & Interpolated profiles by month for : 2011
CTIO −29.4N 290.E
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Altitude
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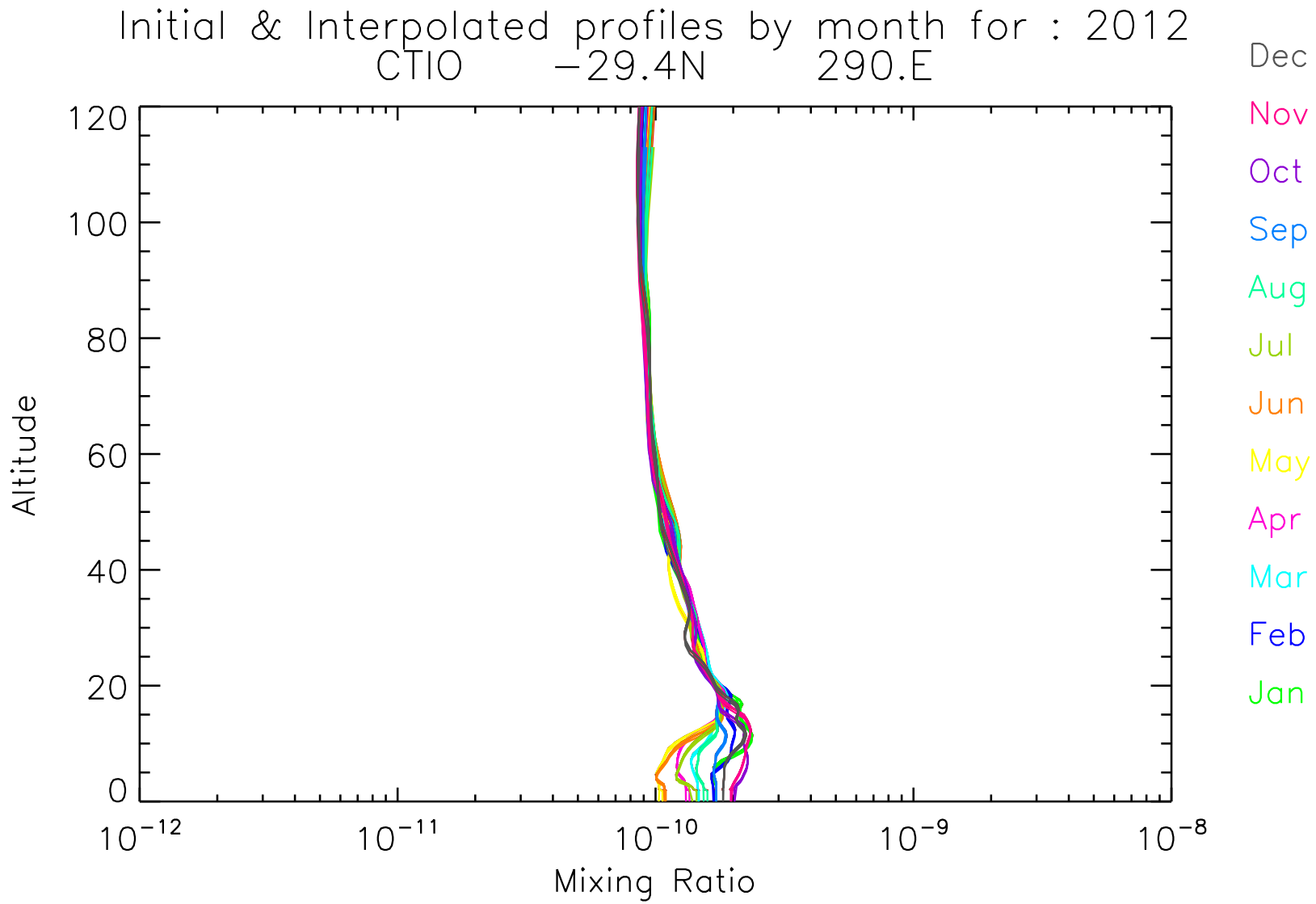
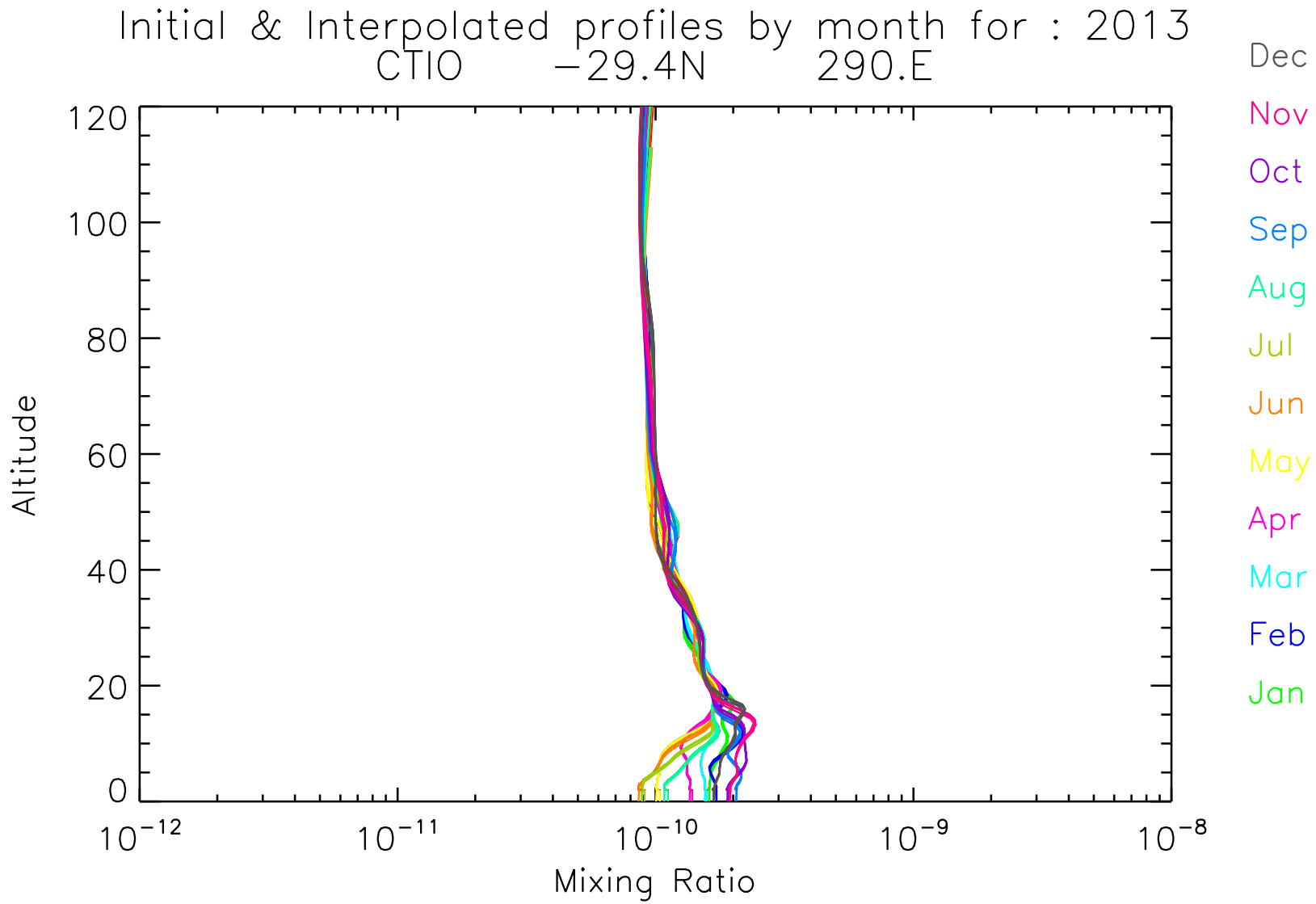
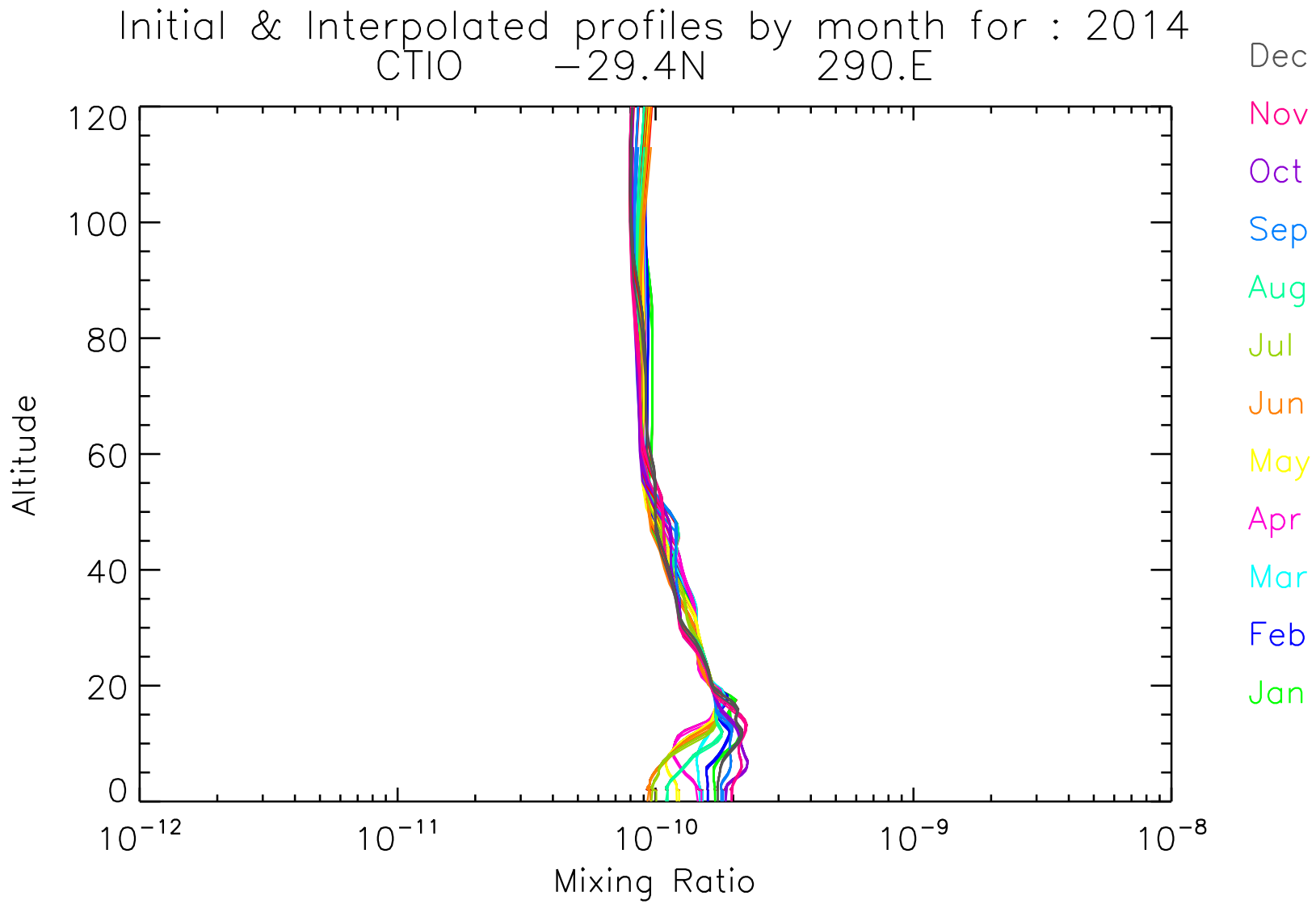
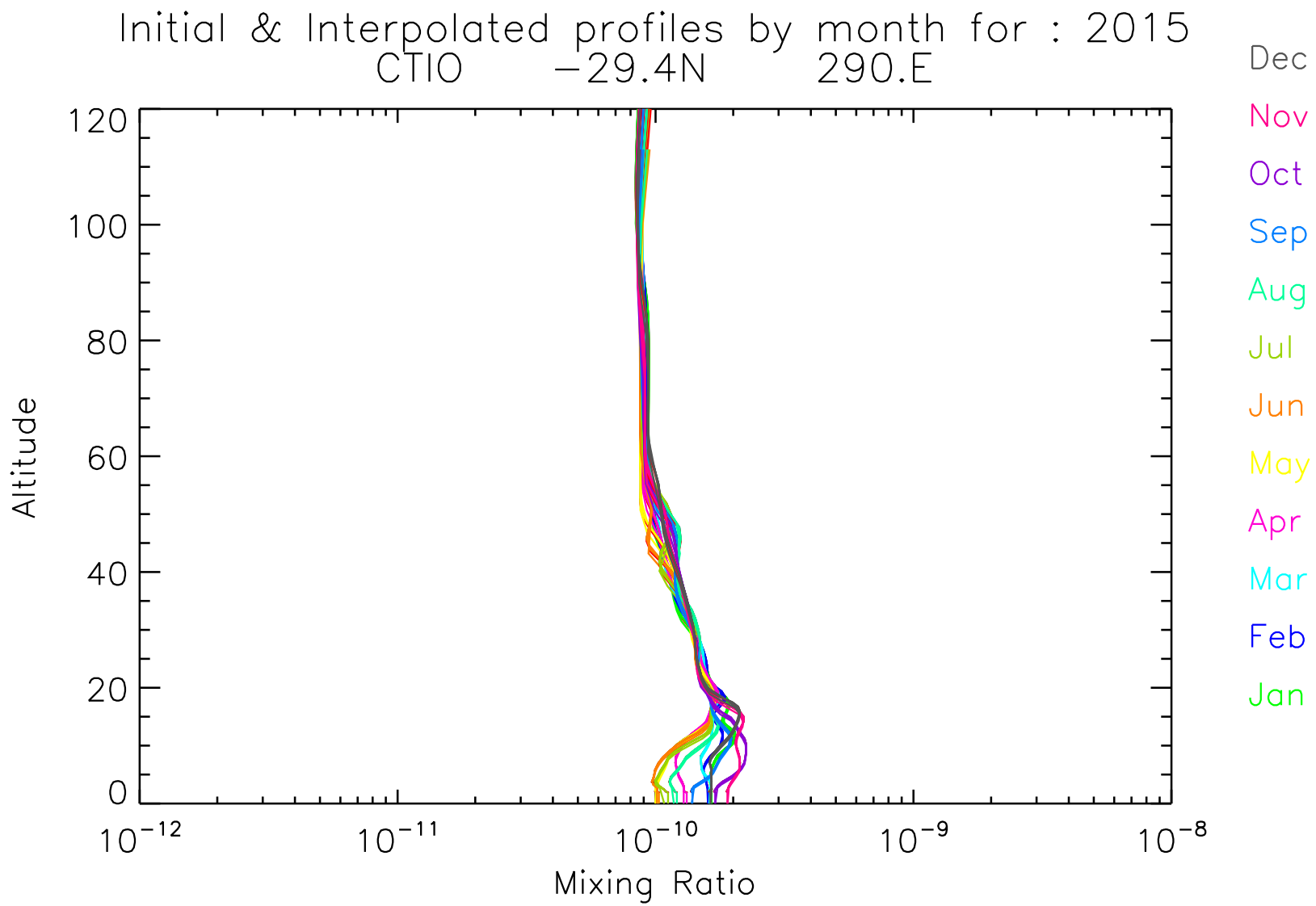
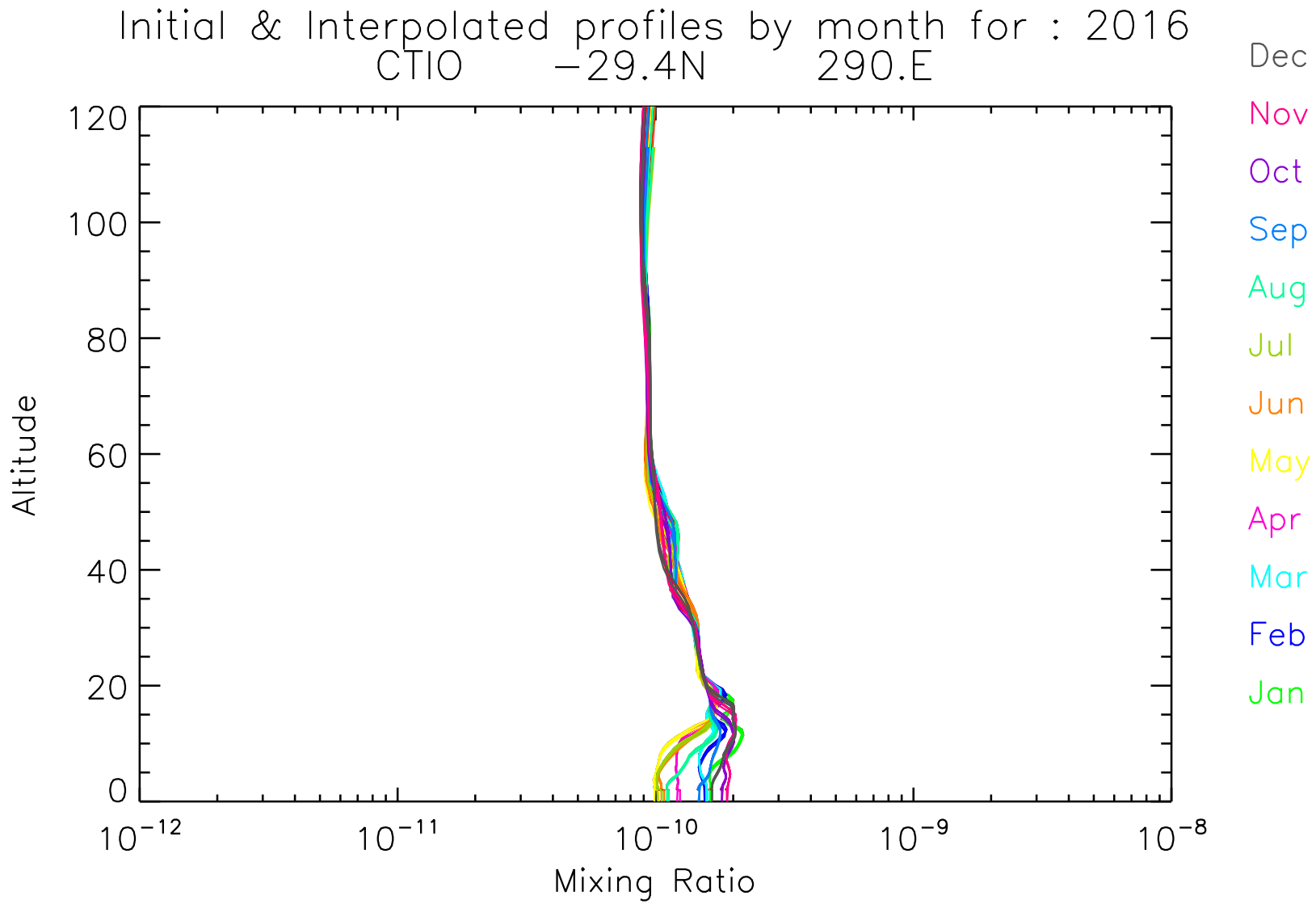
10^{-8}
Mixing Ratio

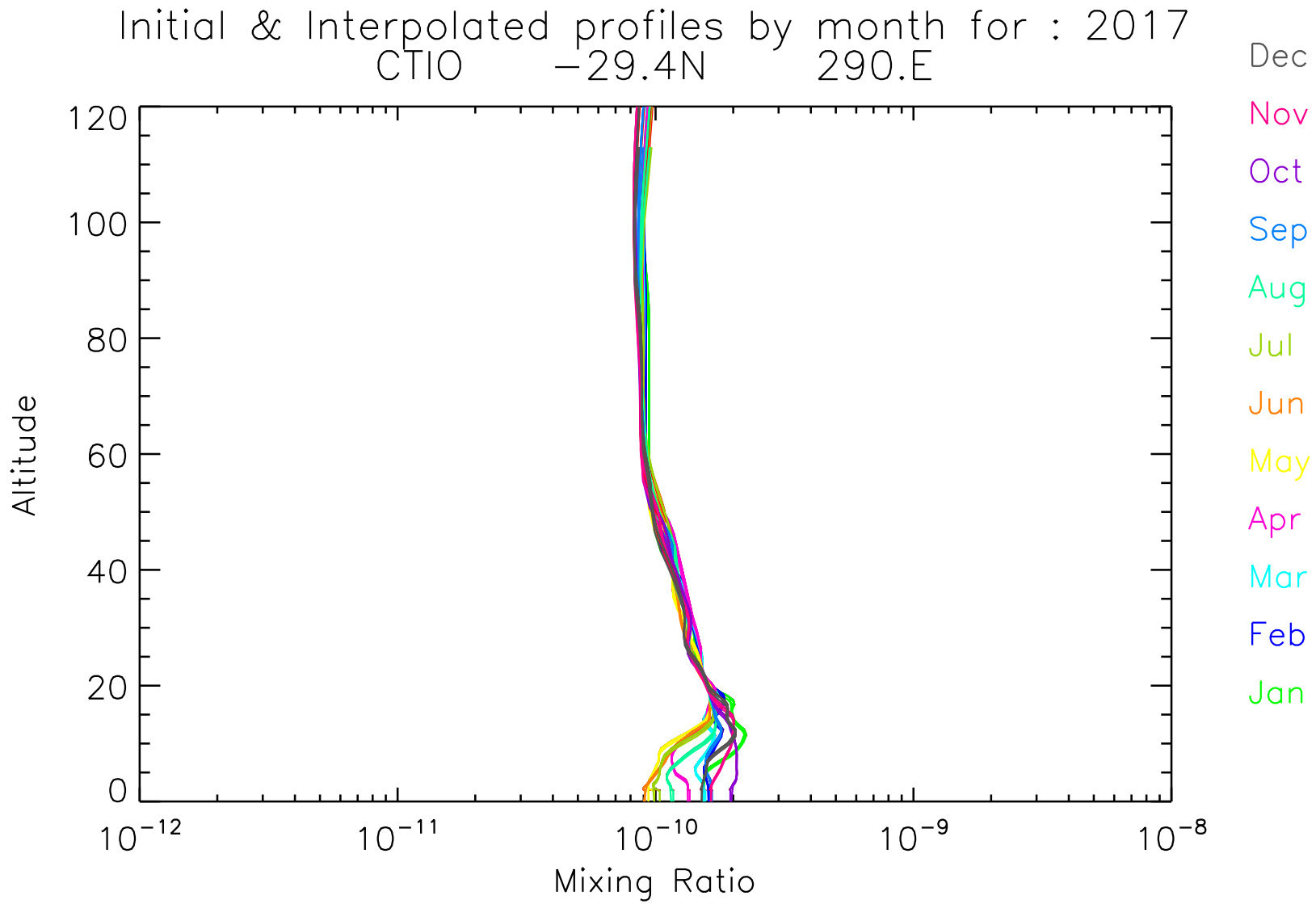

Initial & Interpolated profiles by month for : 2012
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio

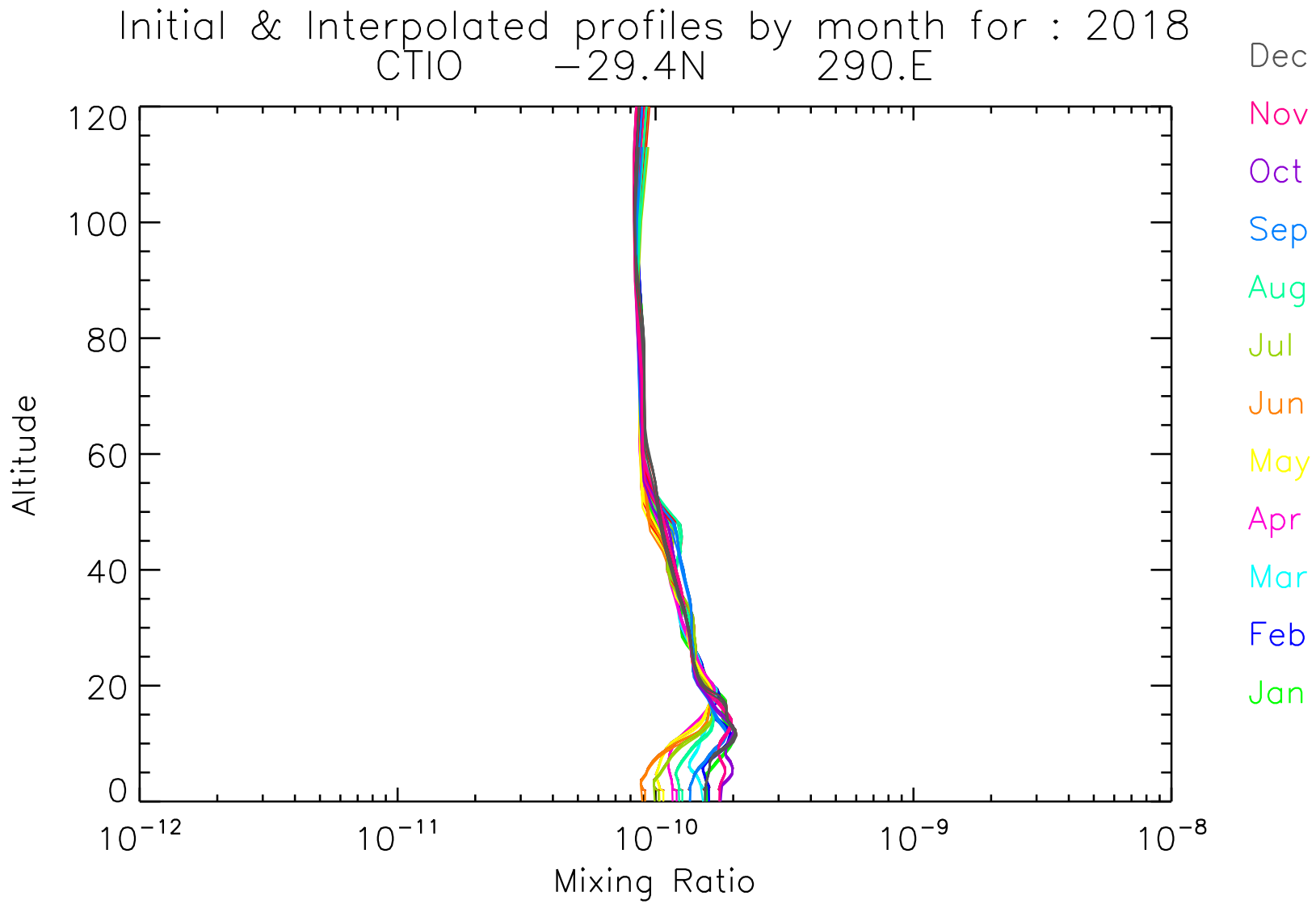

Initial & Interpolated profiles by month for : 2013
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

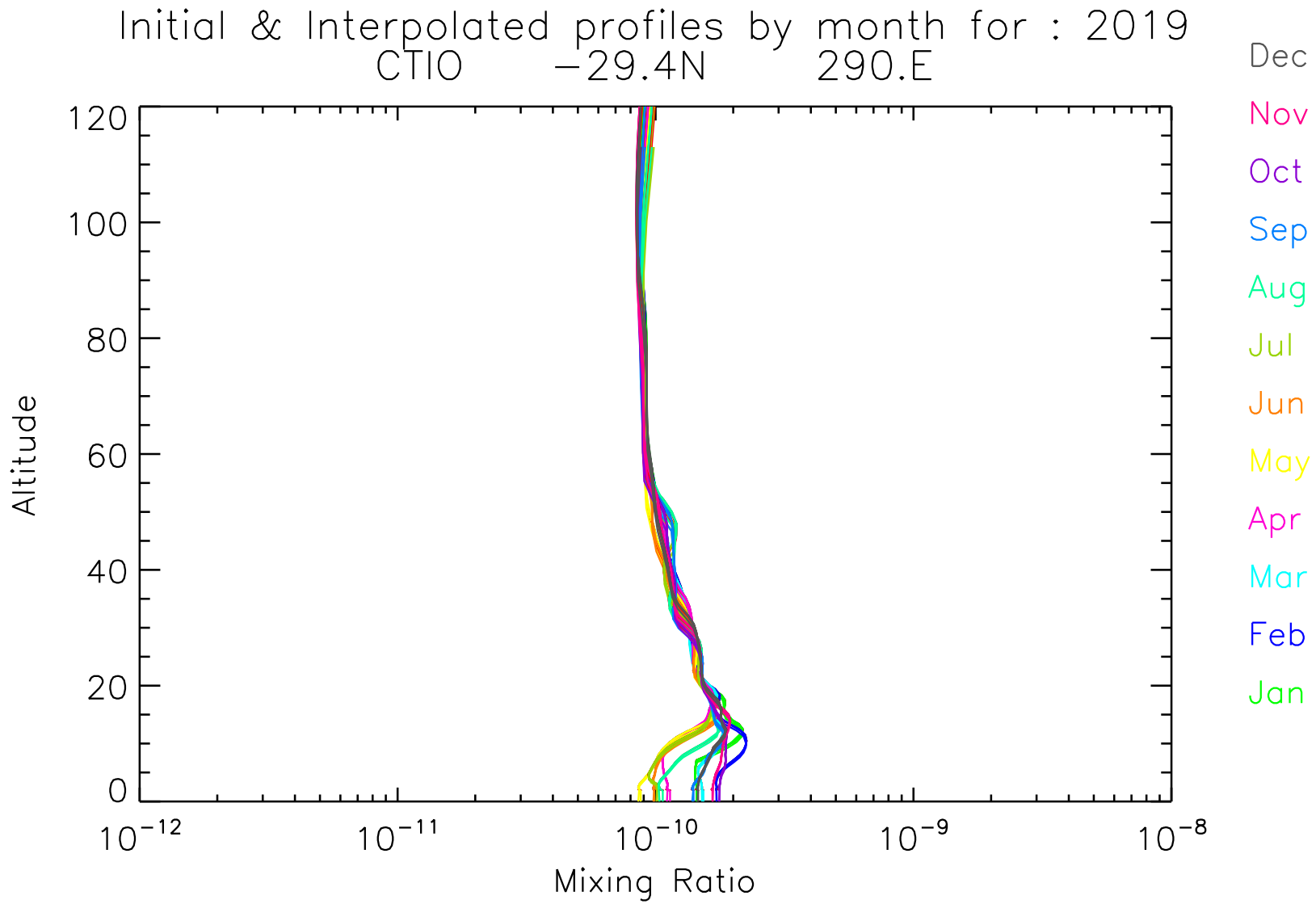

Initial & Interpolated profiles by month for : 2014
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

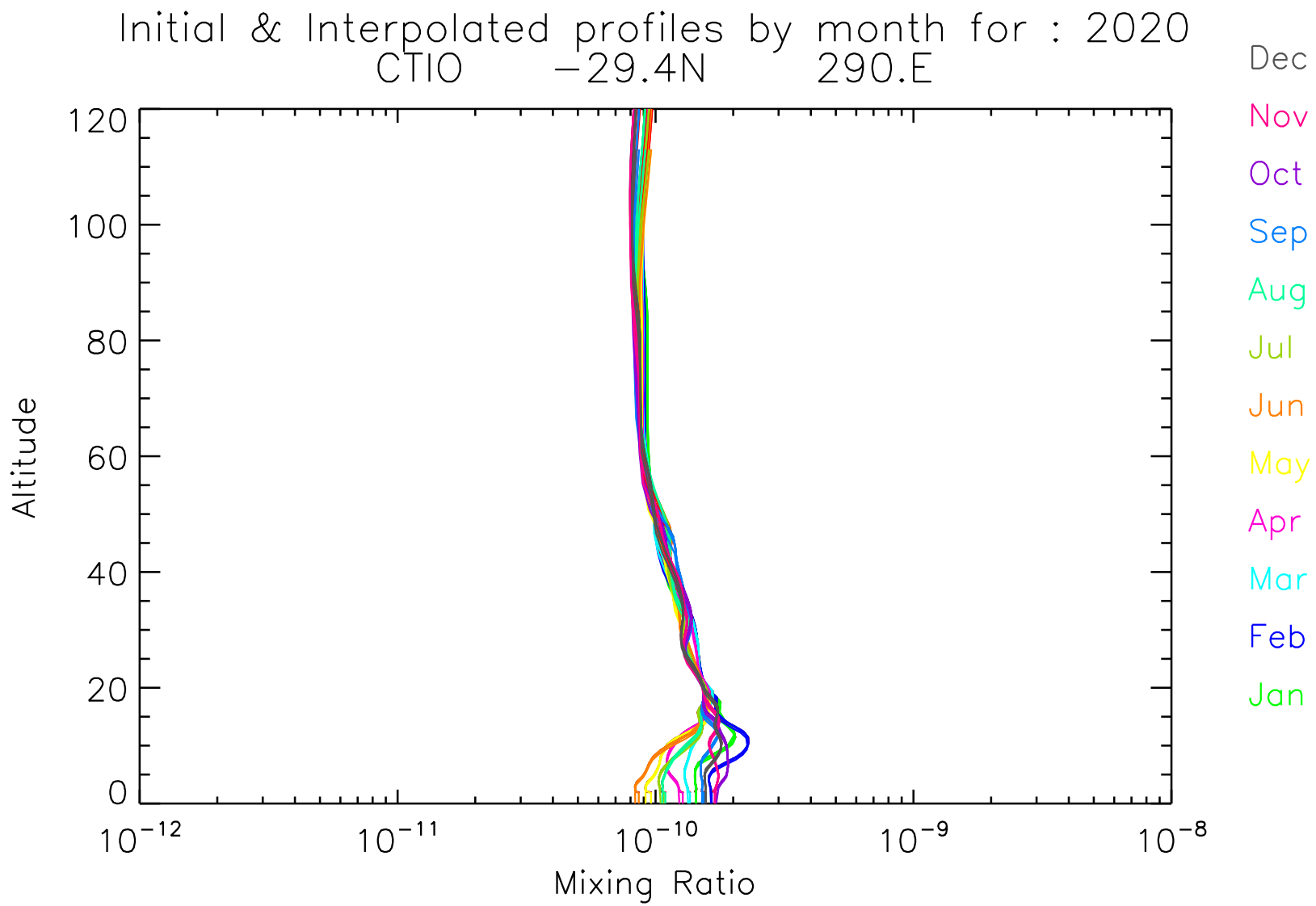

Initial & Interpolated profiles by month for : 2015
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio

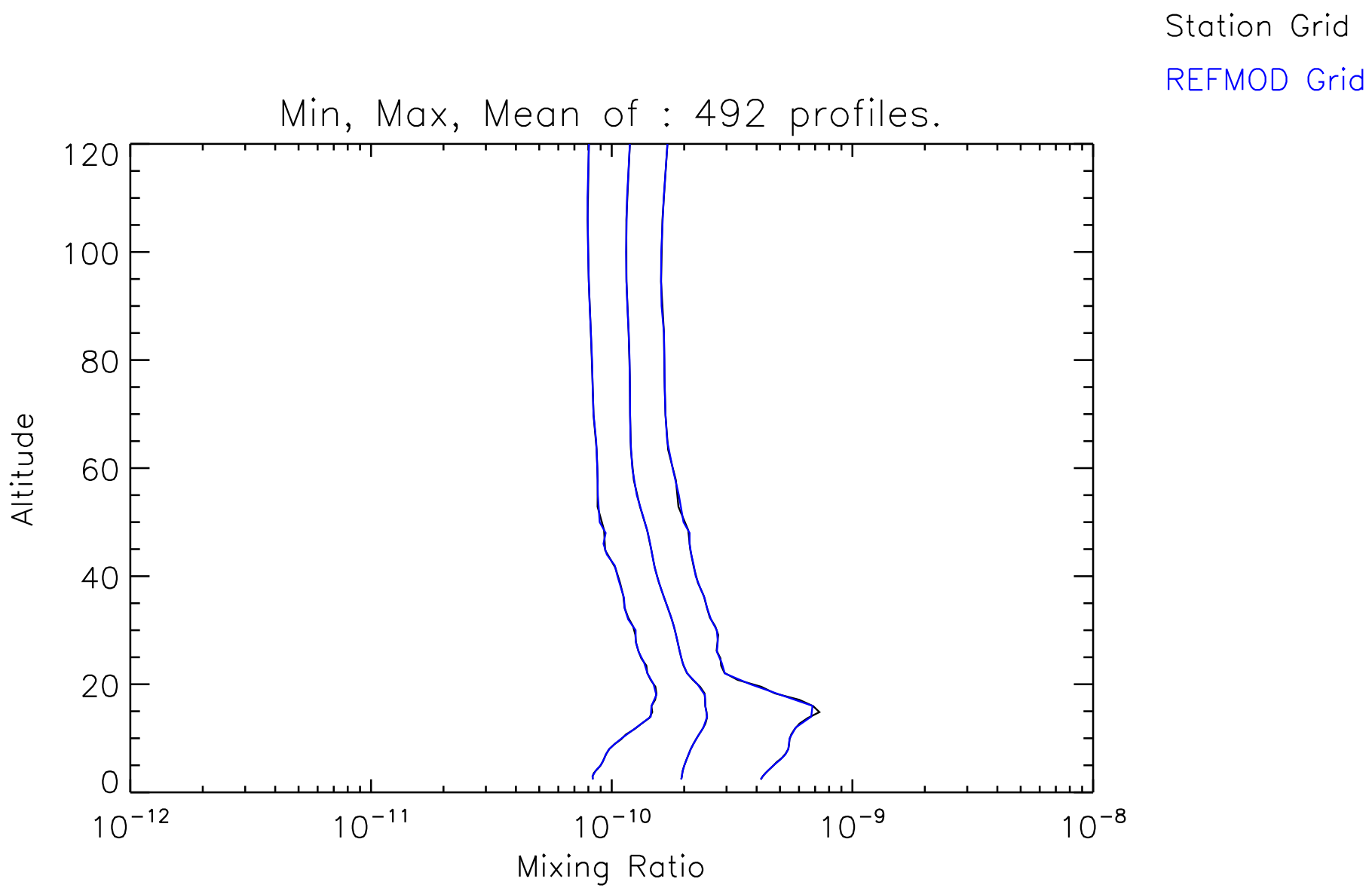

Initial & Interpolated profiles by month for : 2016
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

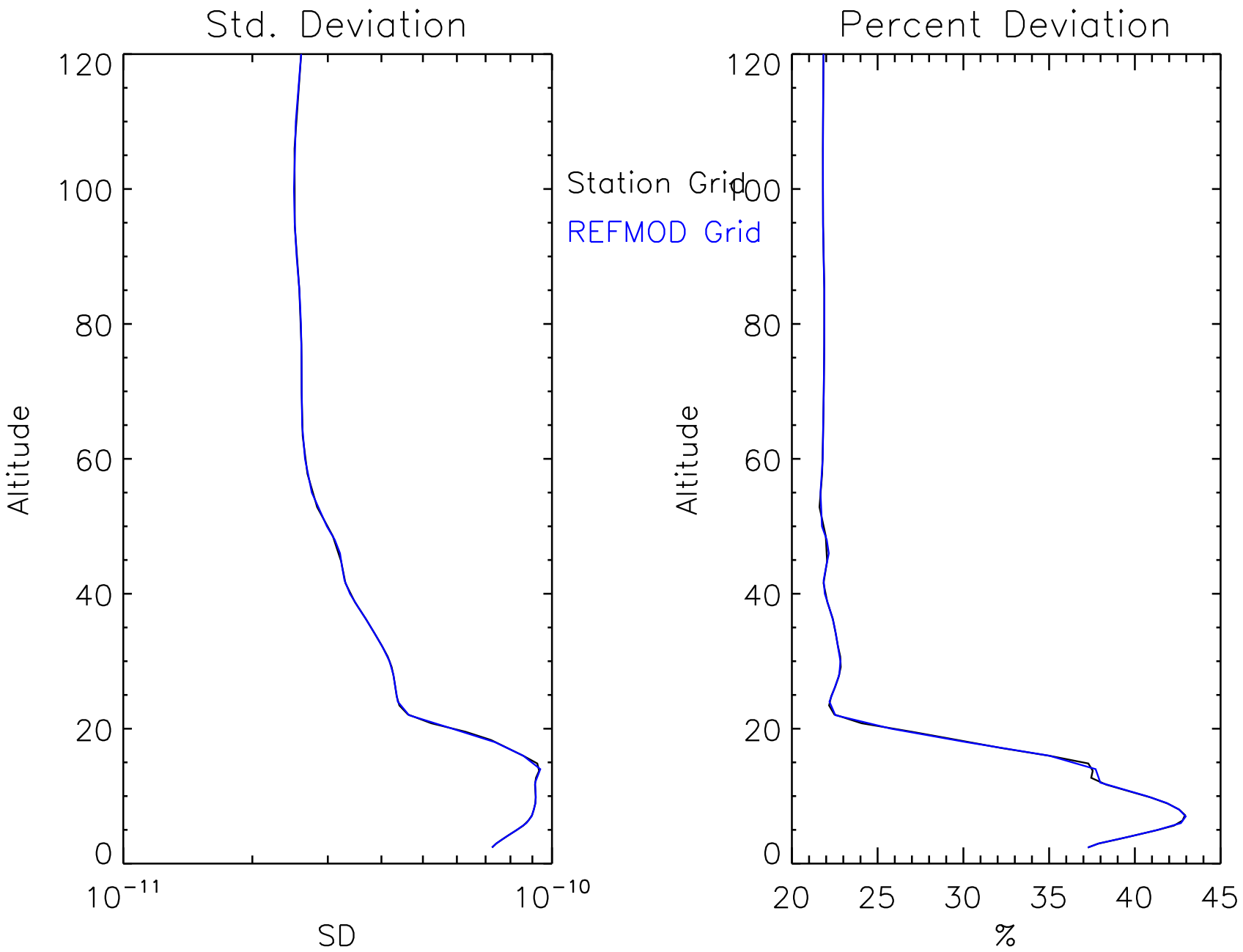

Initial & Interpolated profiles by month for : 2017
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

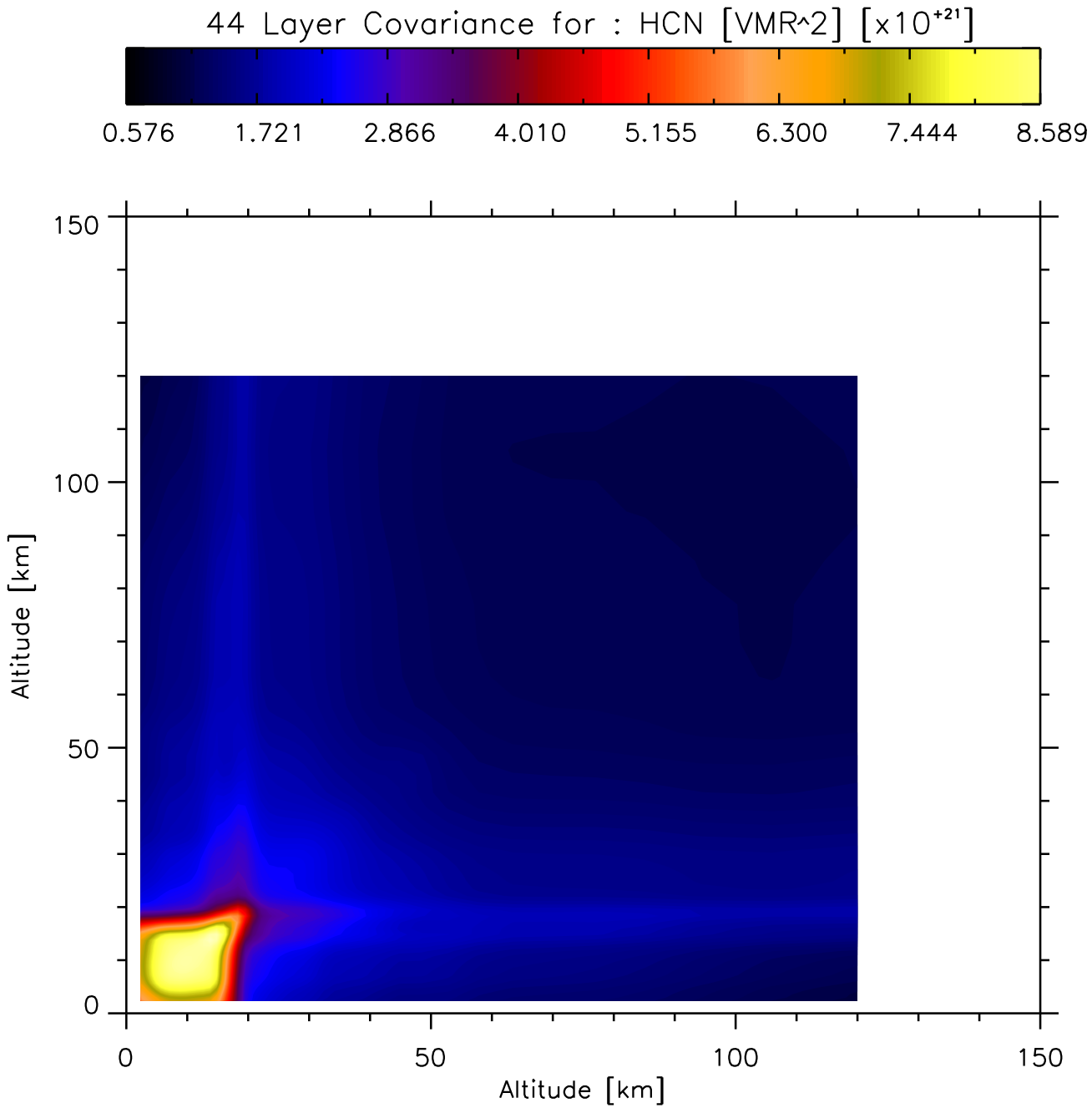

Initial & Interpolated profiles by month for : 2018
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

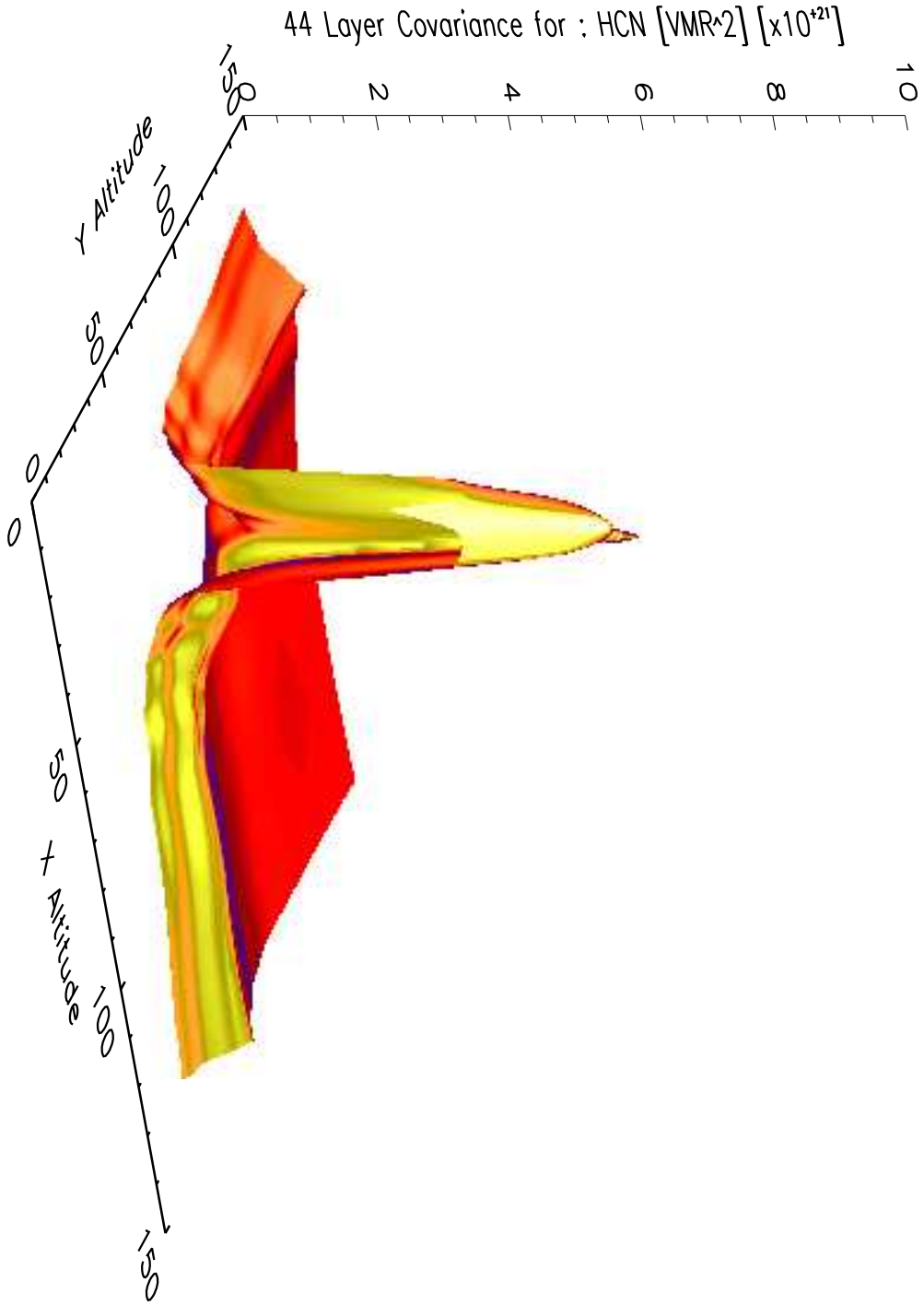

Initial & Interpolated profiles by month for : 2019
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

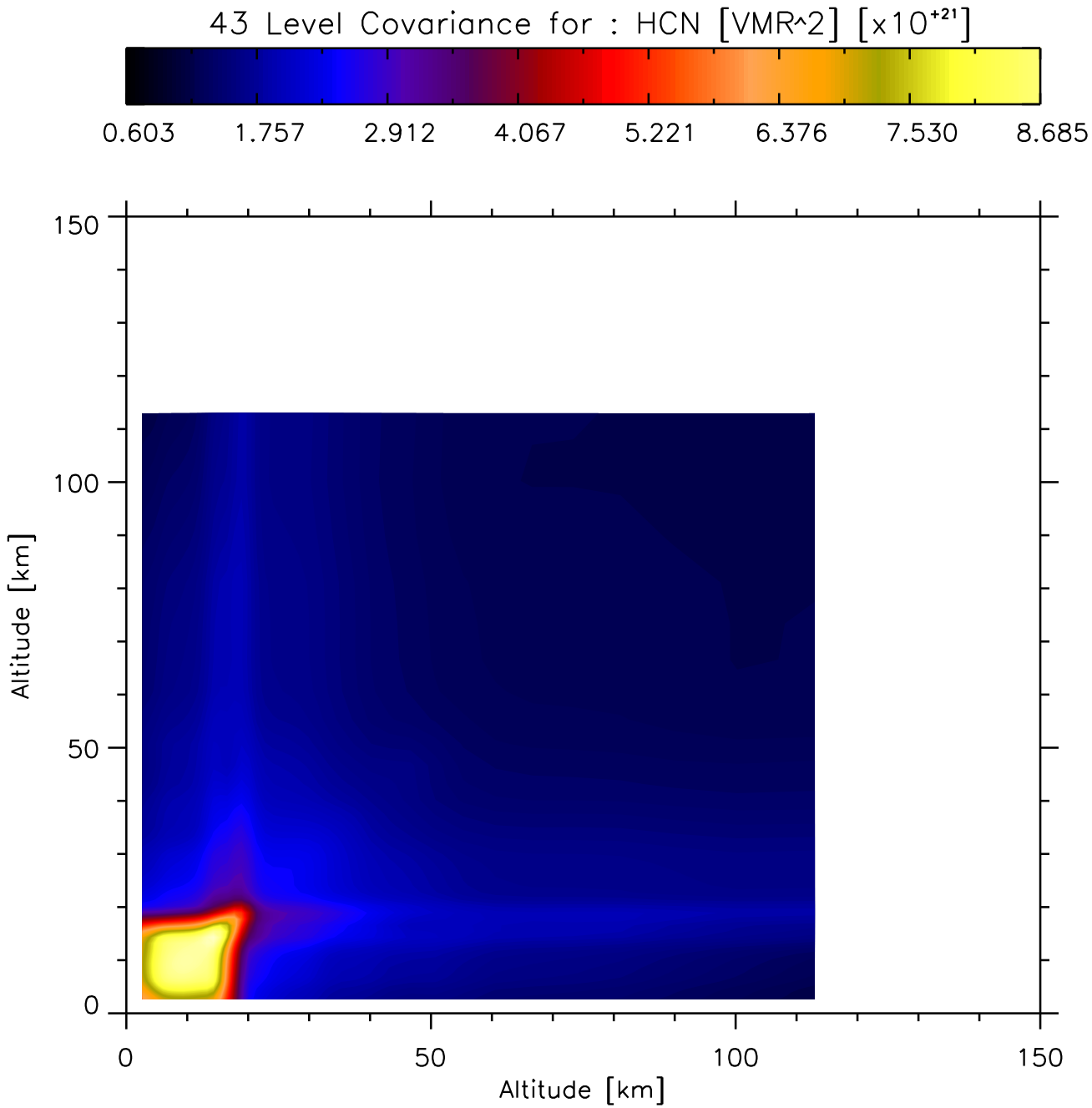

Initial & Interpolated profiles by month for : 2020
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

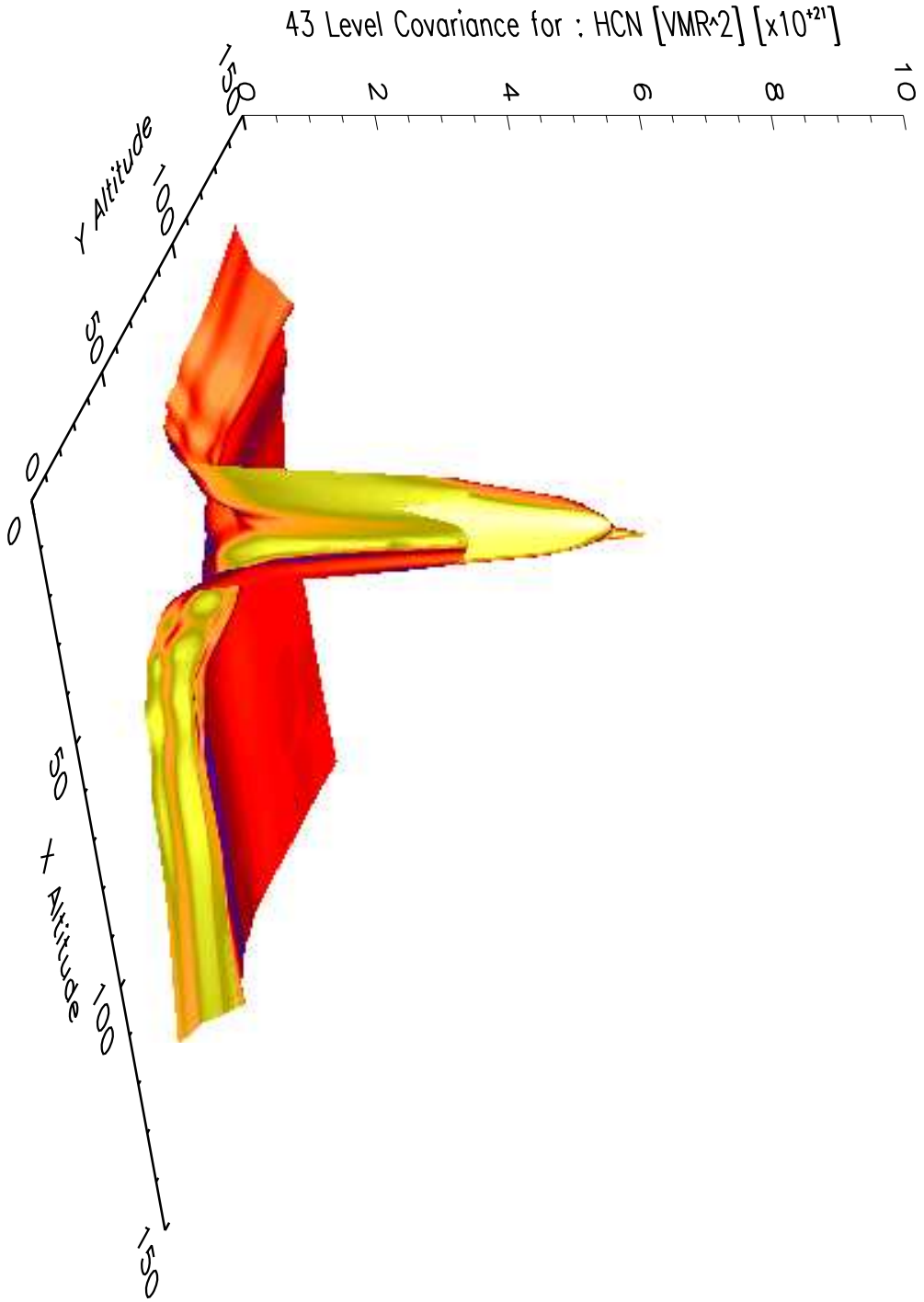

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-11}
10^{-10}
SD
20
25
30
35
40
45
%


44 Layer Covariance for : HCN [VMR^2] [x10^+21]
0.576
1.721
2.866
4.010
5.155
6.300
7.444
8.589
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


44 Layer Covariance for : HCN [VMR^2] [x10^+21]
150
2
4
6
8
10
Y Altitude
100
50
0
0
50
X Altitude
100
150


43 Level Covariance for : HCN [VMR^2] [x10^+21]
0.603
1.757
2.912
4.067
5.221
6.376
7.530
8.685
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


43 Level Covariance for : HCN [VMR^2] [x10^+21]
150
2
4
6
8
10
Y Altitude
100
50
0
0
50
X Altitude
100
150