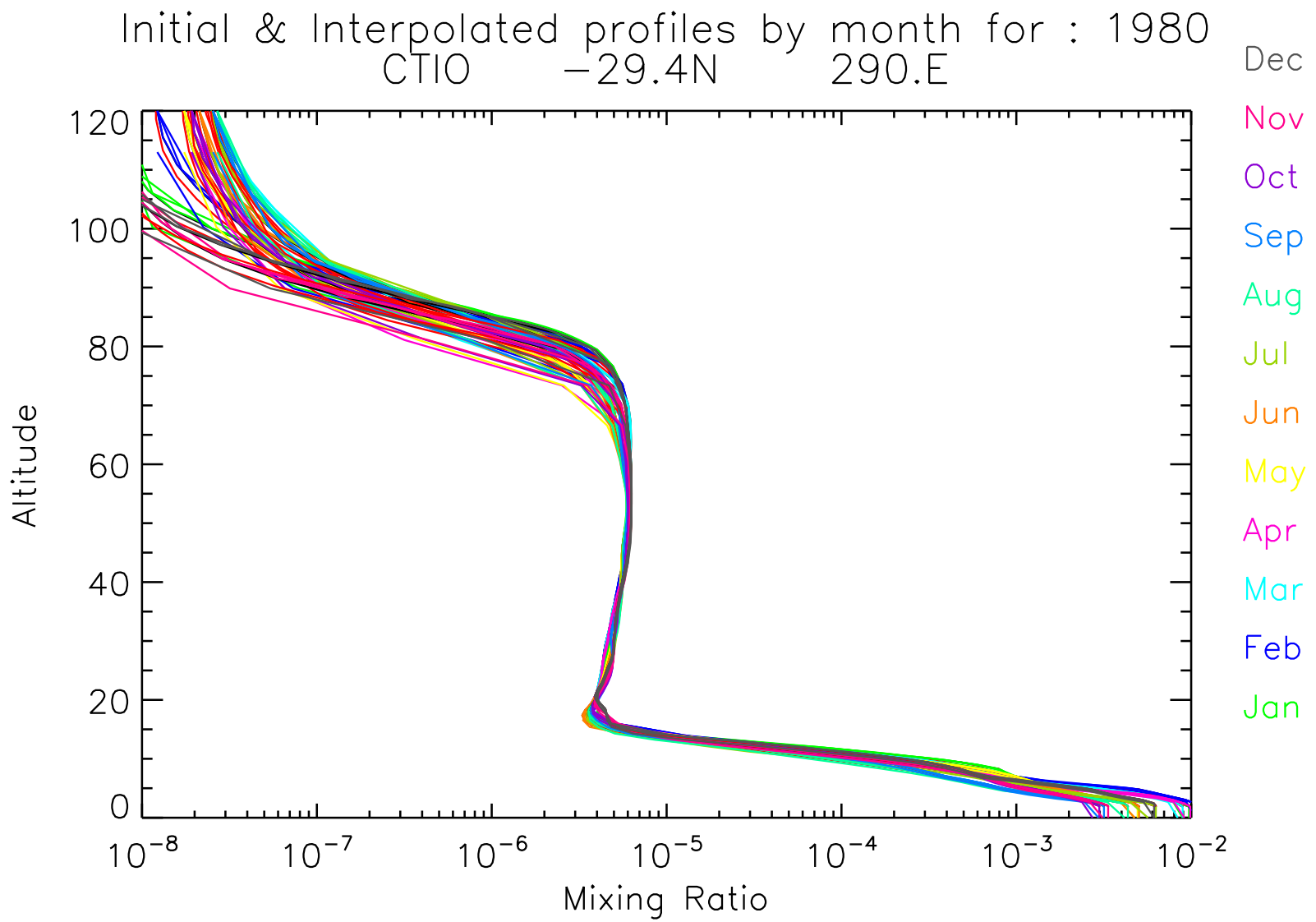
Initial & Interpolated profiles by month for : 1980
CTIO −29.4N 290.E
Altitude
120
100
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10^{-8}
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Mixing Ratio
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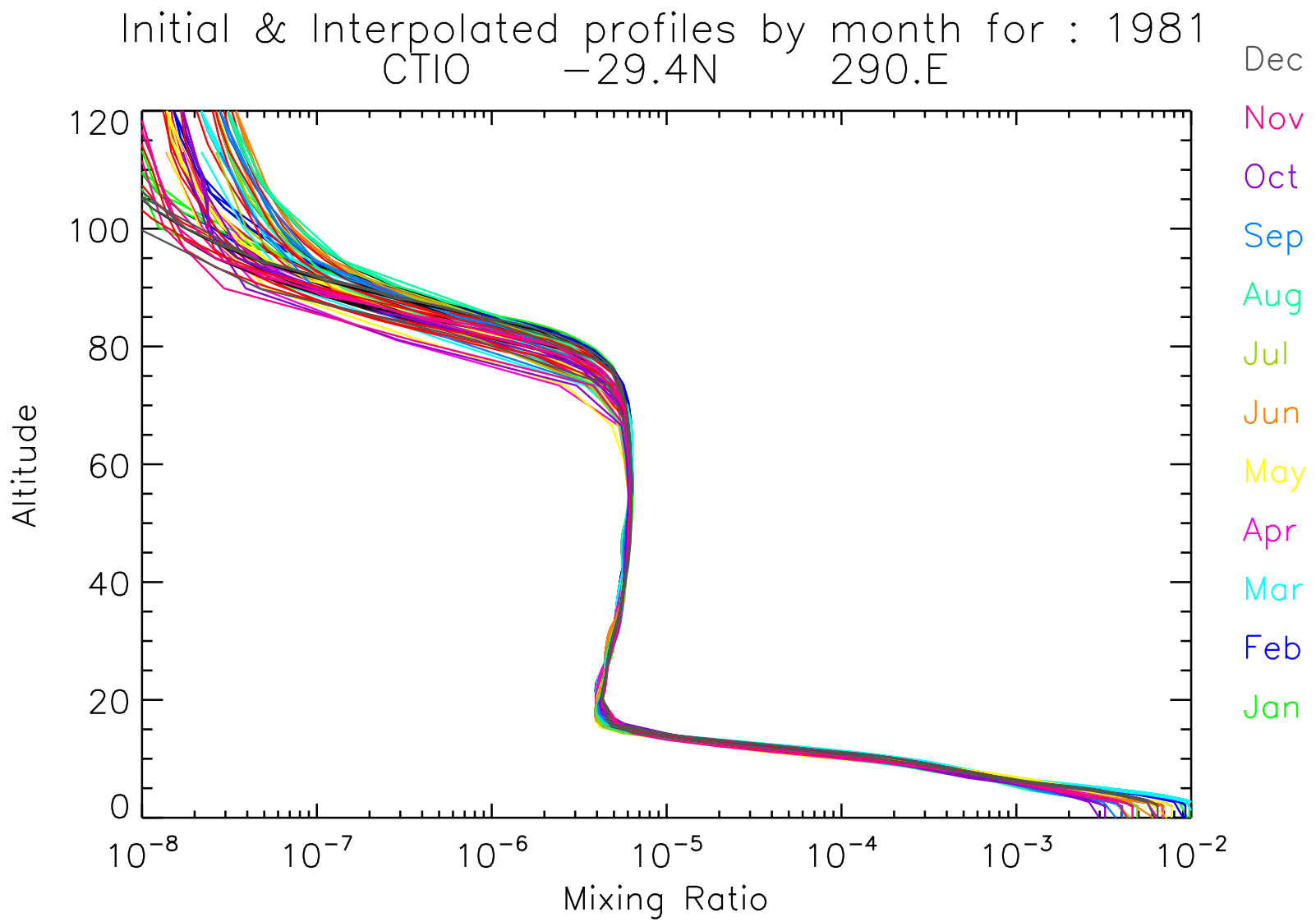
Initial & Interpolated profiles by month for : 1981
CTIO −29.4N 290.E
Altitude
120
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Mixing Ratio
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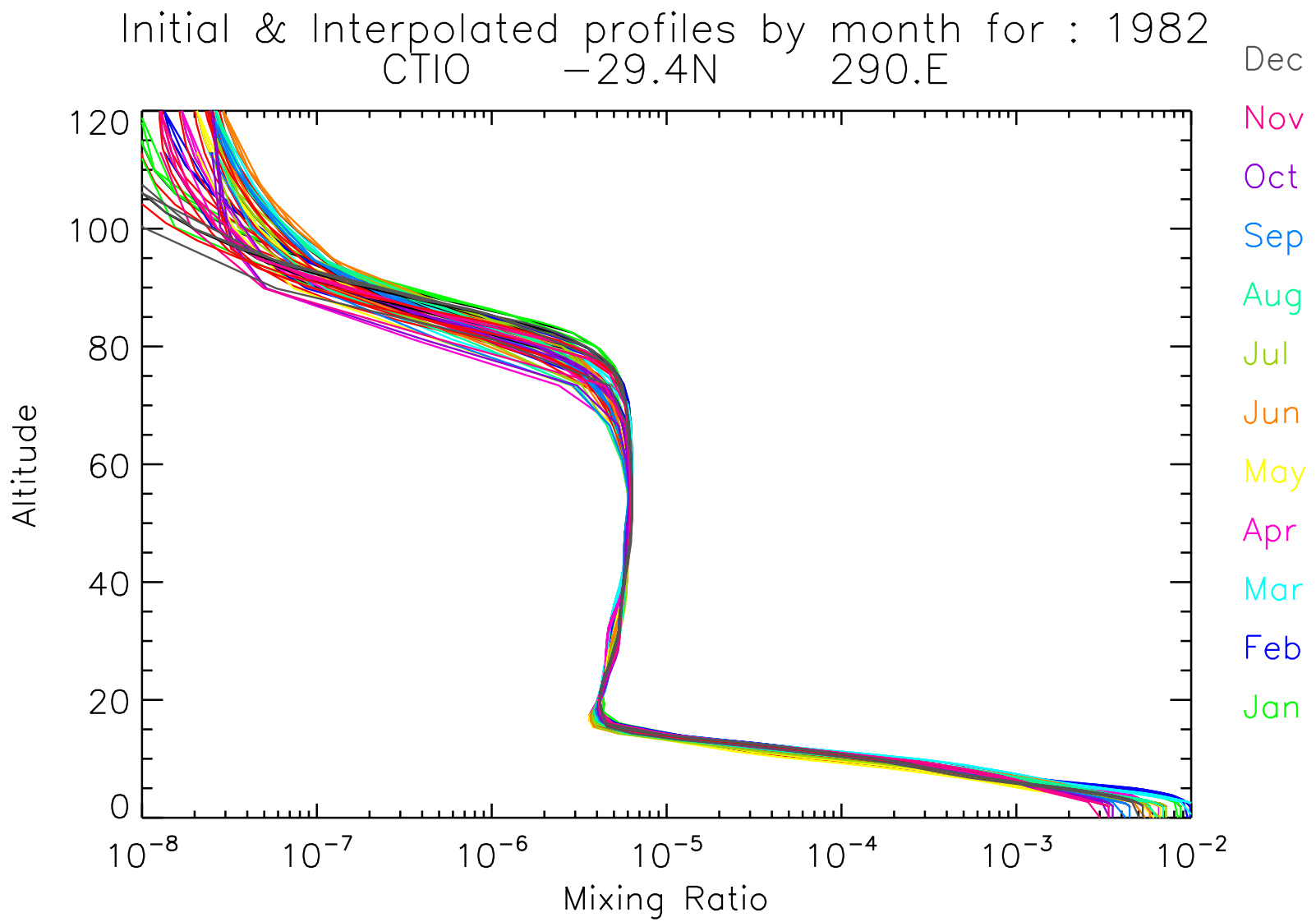
Initial & Interpolated profiles by month for : 1982
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Altitude
120
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Mixing Ratio
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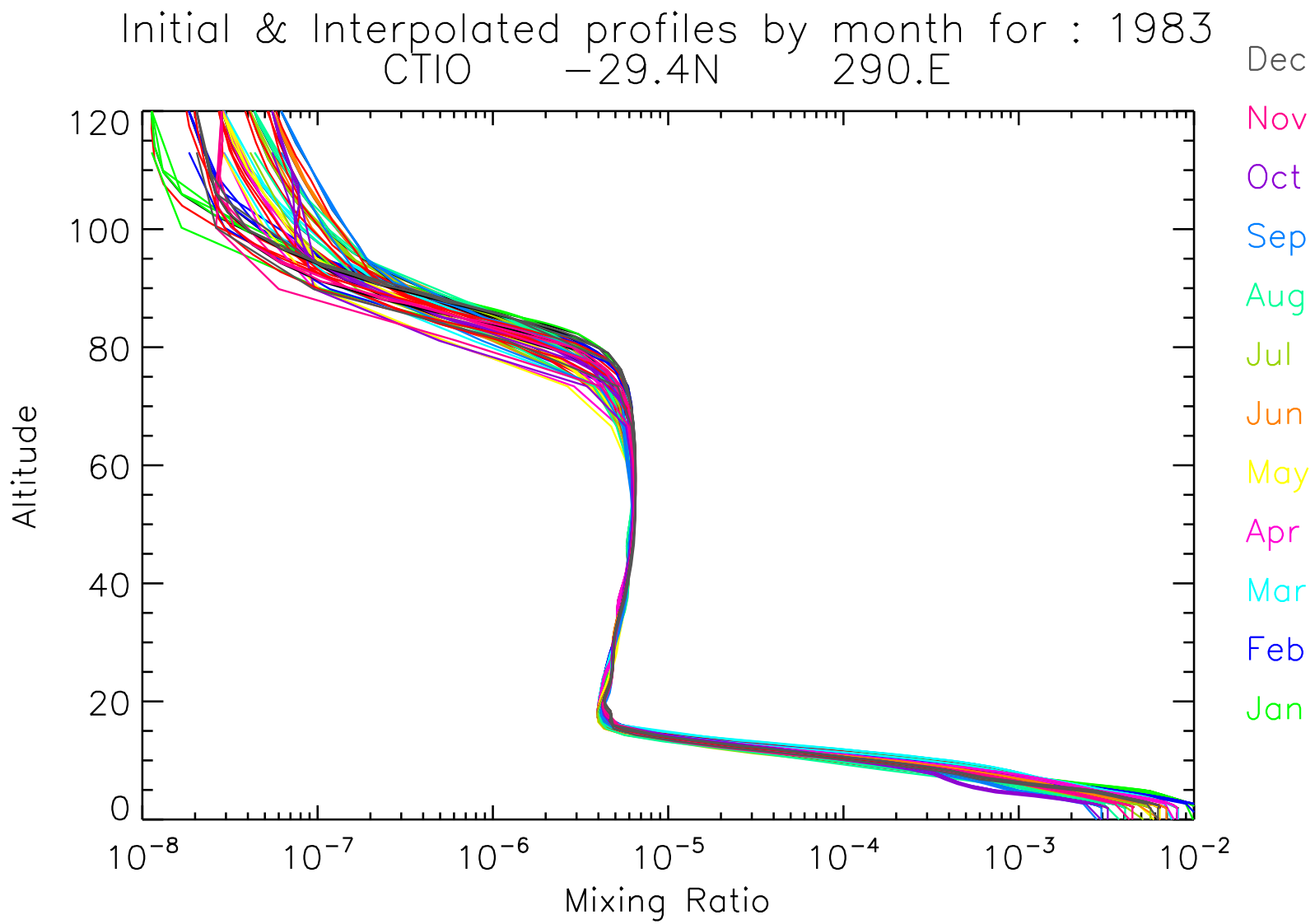
Initial & Interpolated profiles by month for : 1983
CTIO −29.4N 290.E
Altitude
120
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Mixing Ratio
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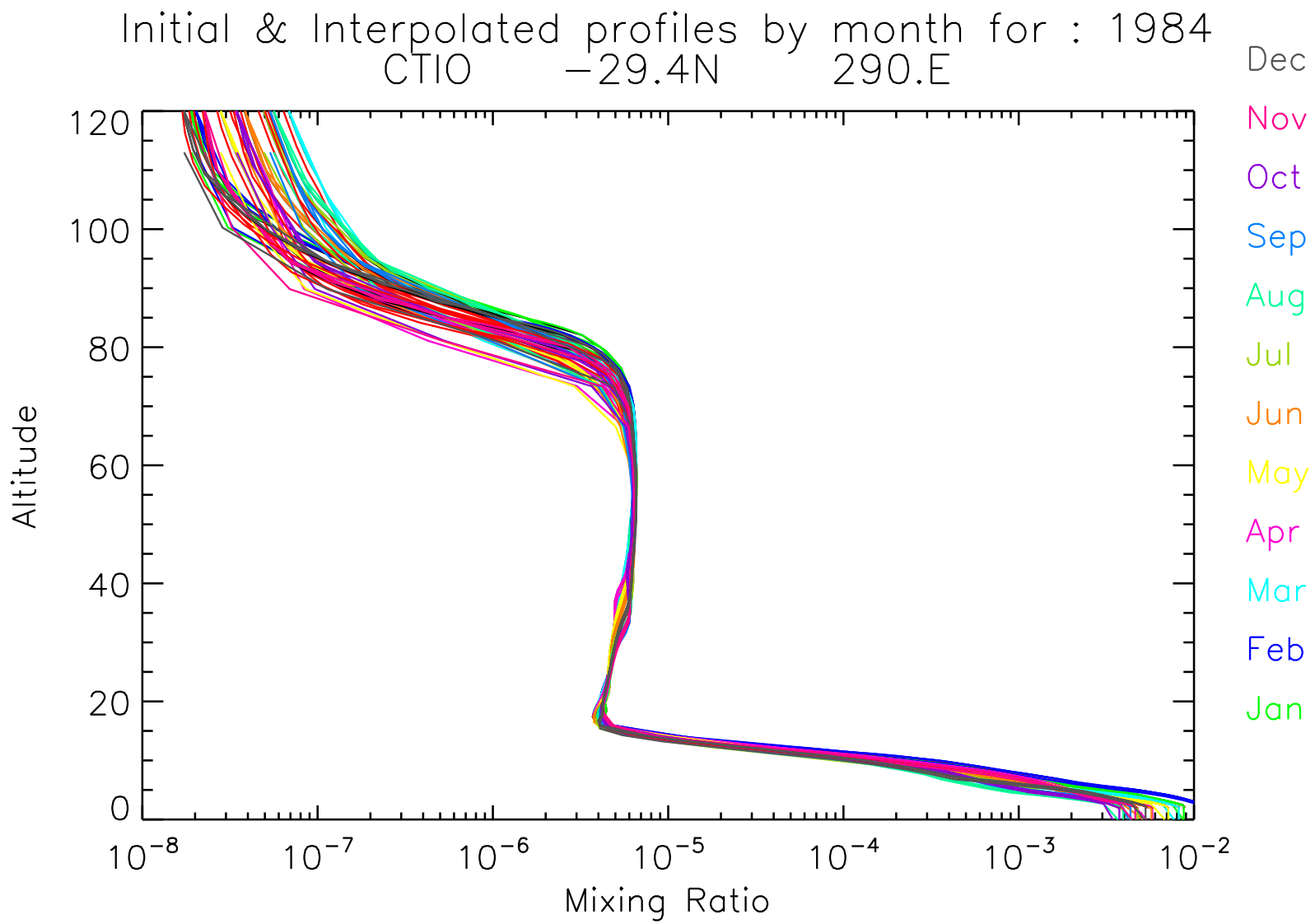
Initial & Interpolated profiles by month for : 1984
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Altitude
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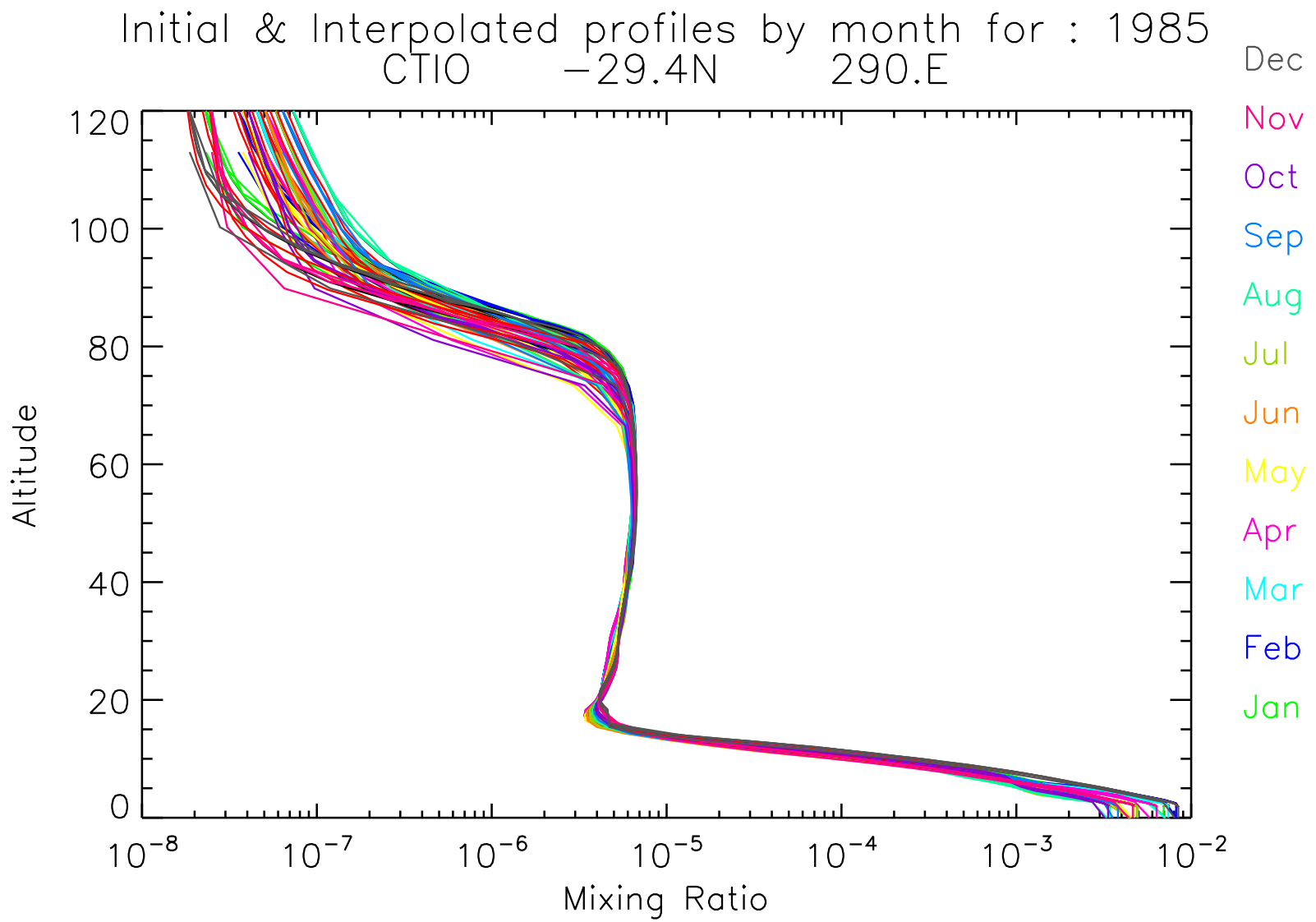
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
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Altitude
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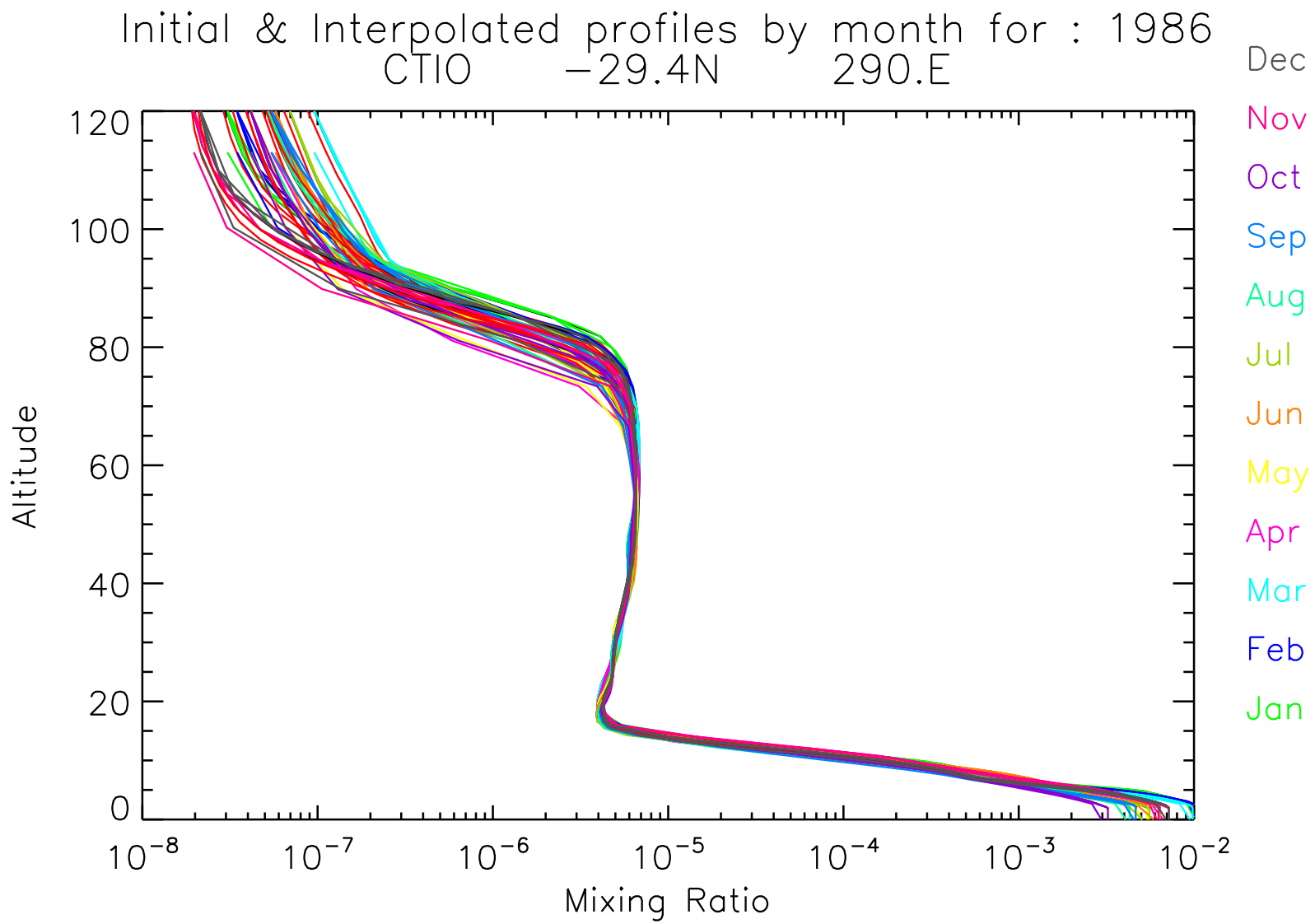
Mixing Ratio


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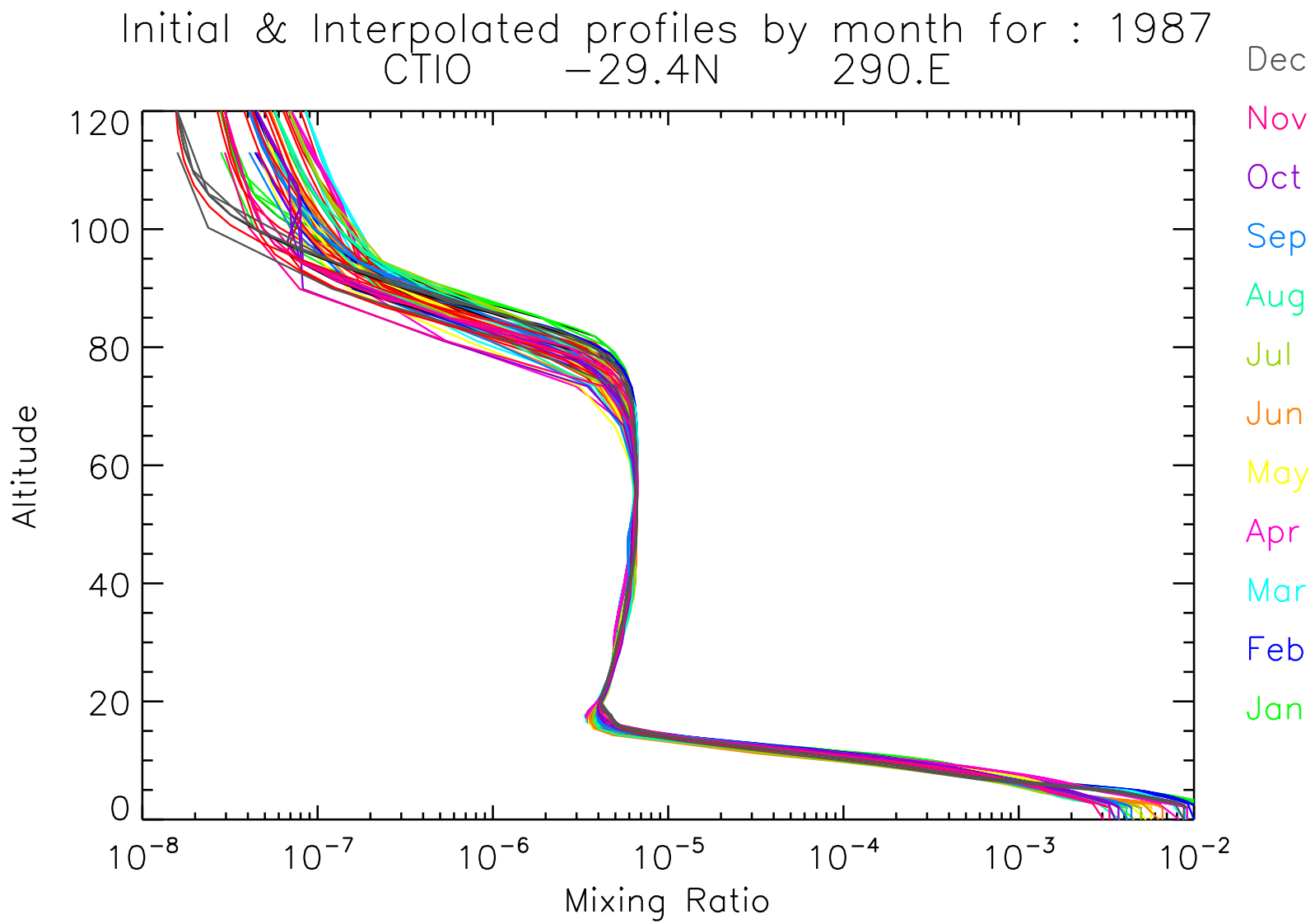
Initial & Interpolated profiles by month for : 1987
CTIO −29.4N 290.E
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Altitude
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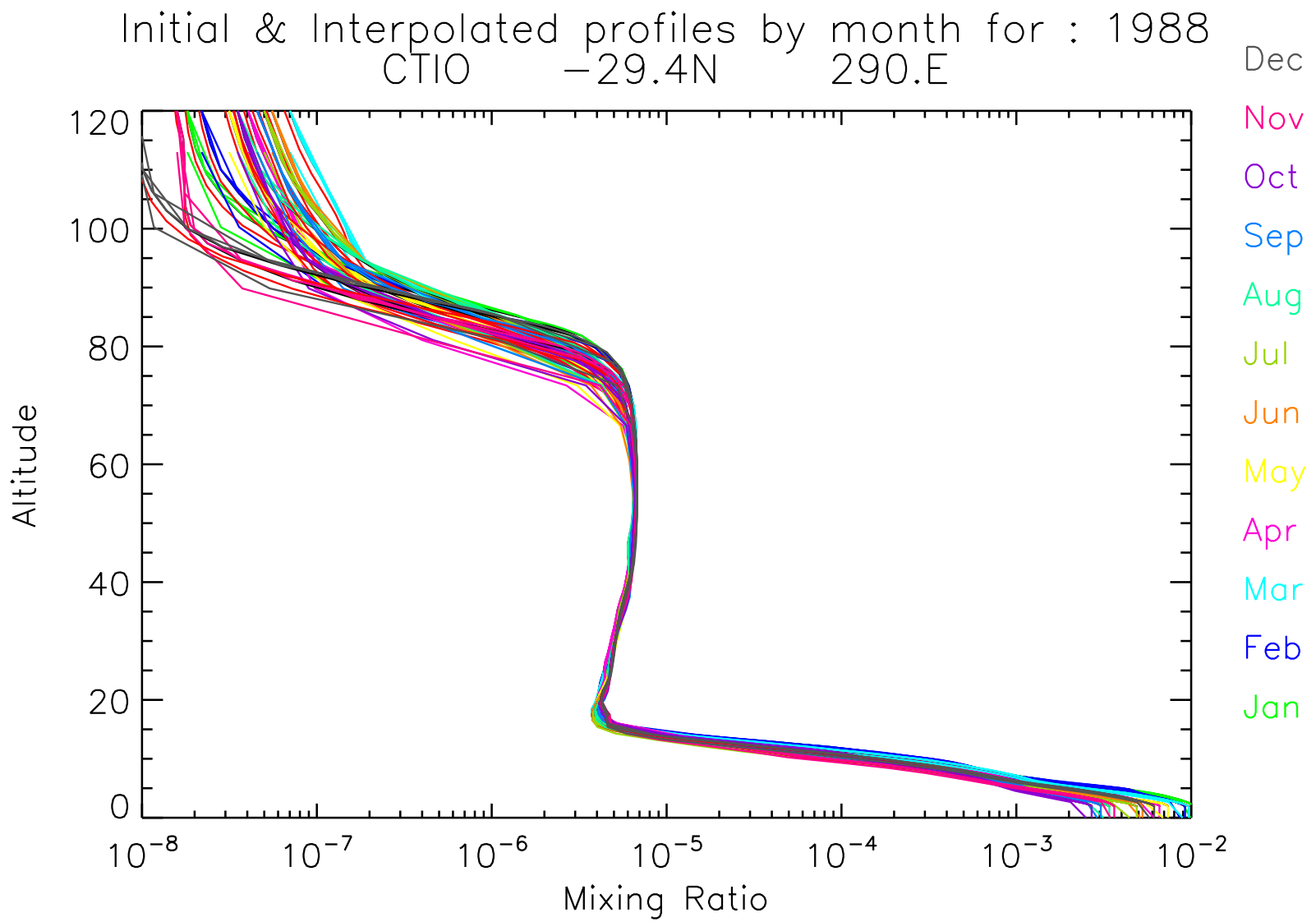
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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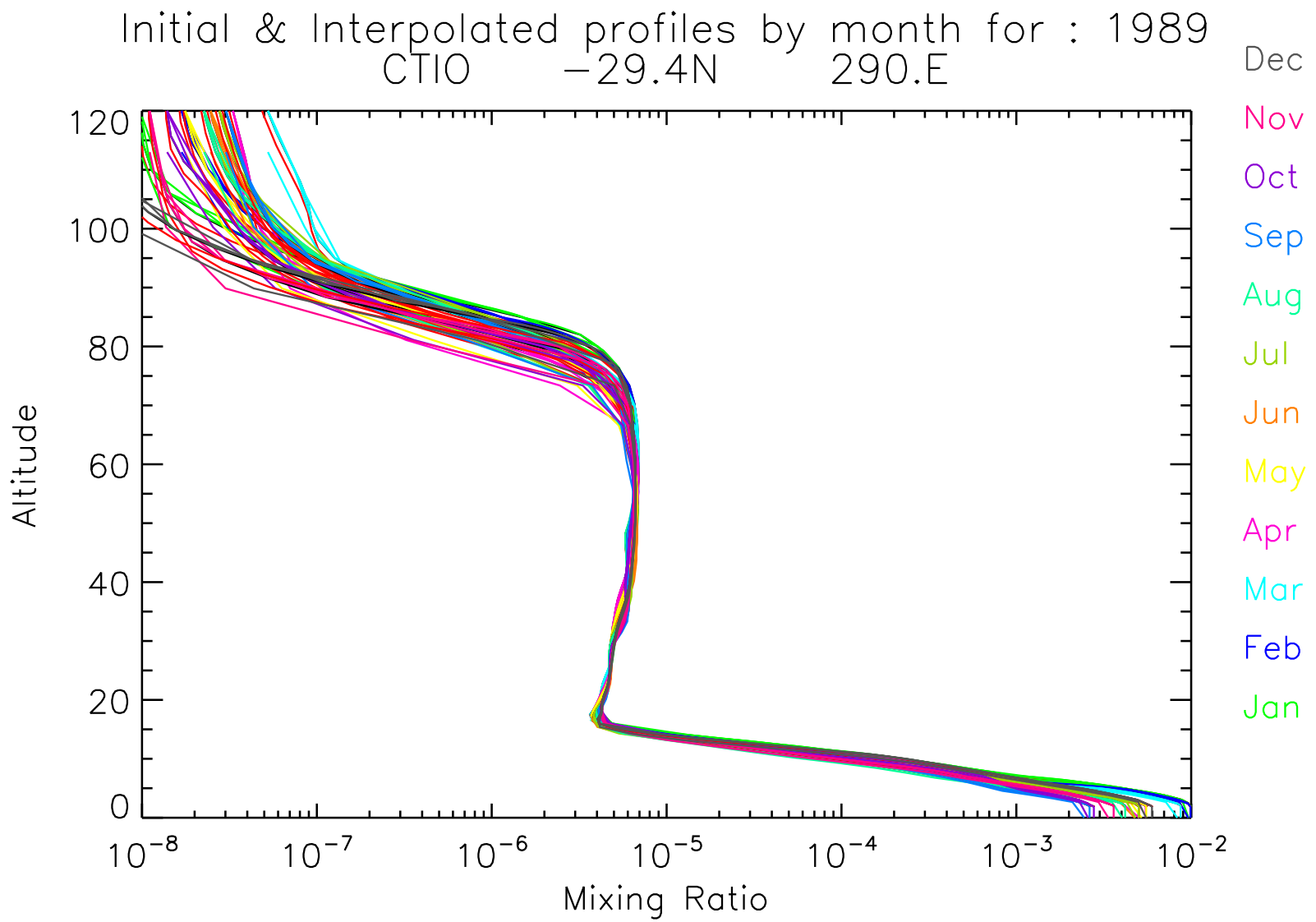
Initial & Interpolated profiles by month for : 1989
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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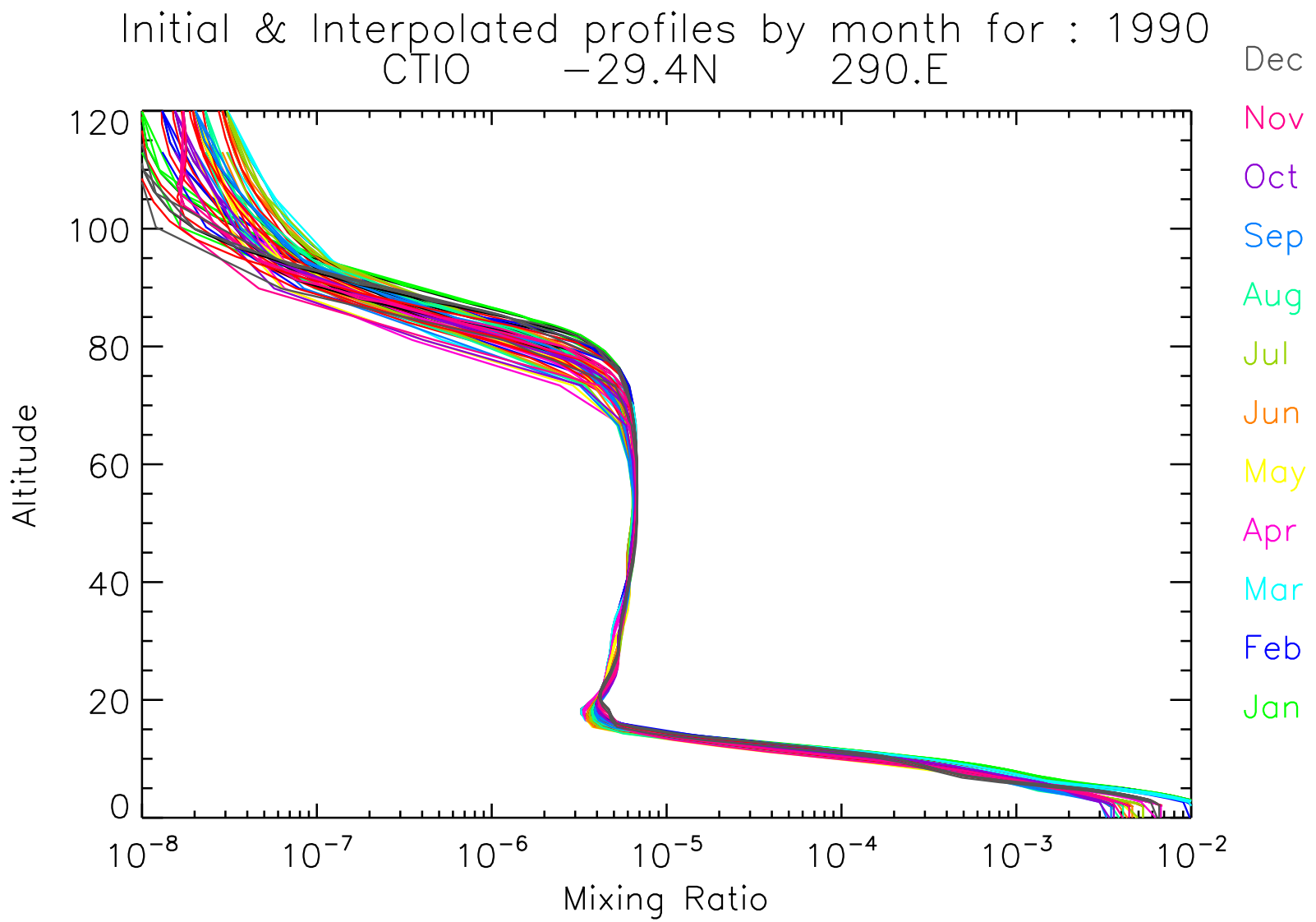
Initial & Interpolated profiles by month for : 1990
CTIO −29.4N 290.E
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Altitude
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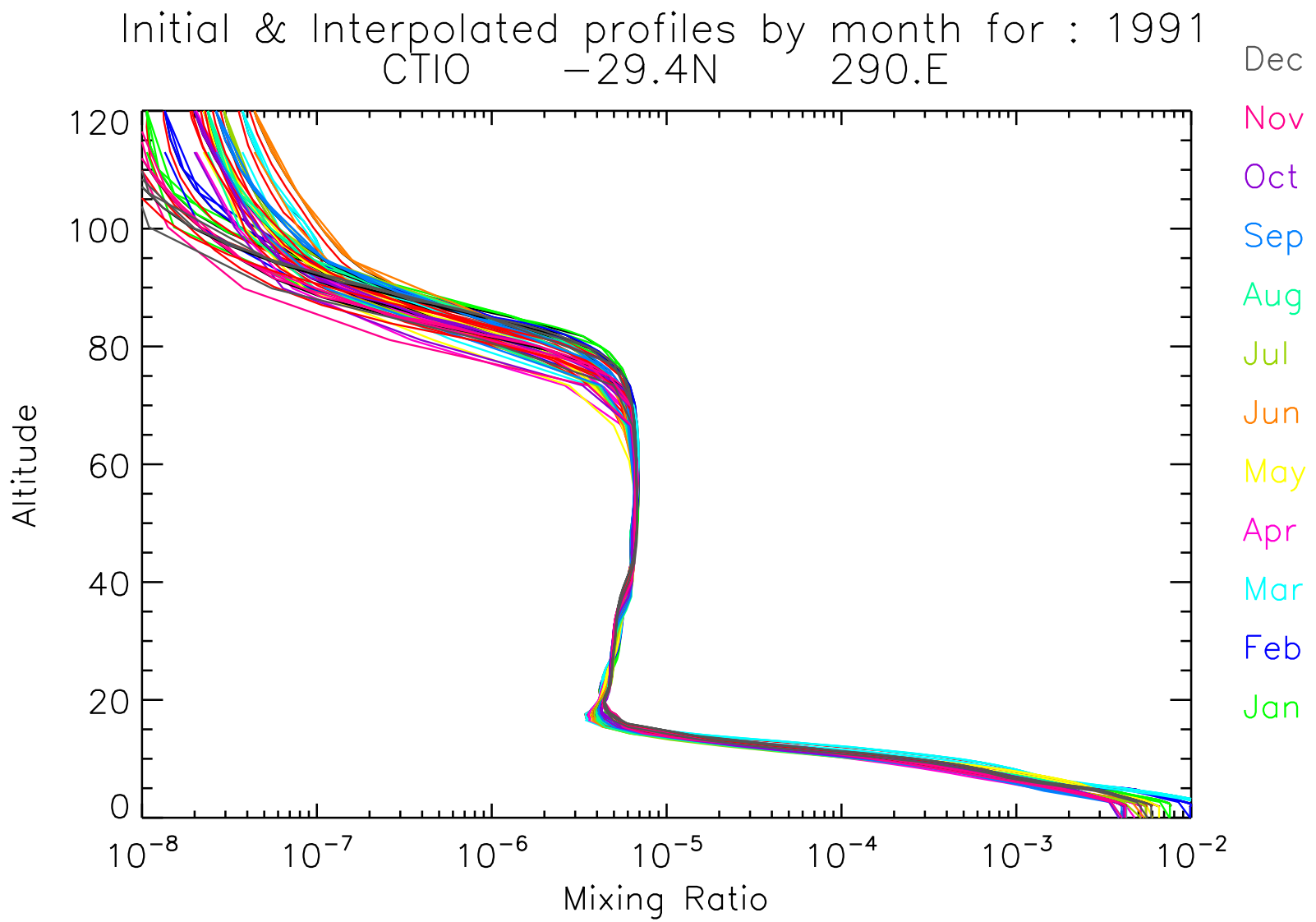
Mixing Ratio


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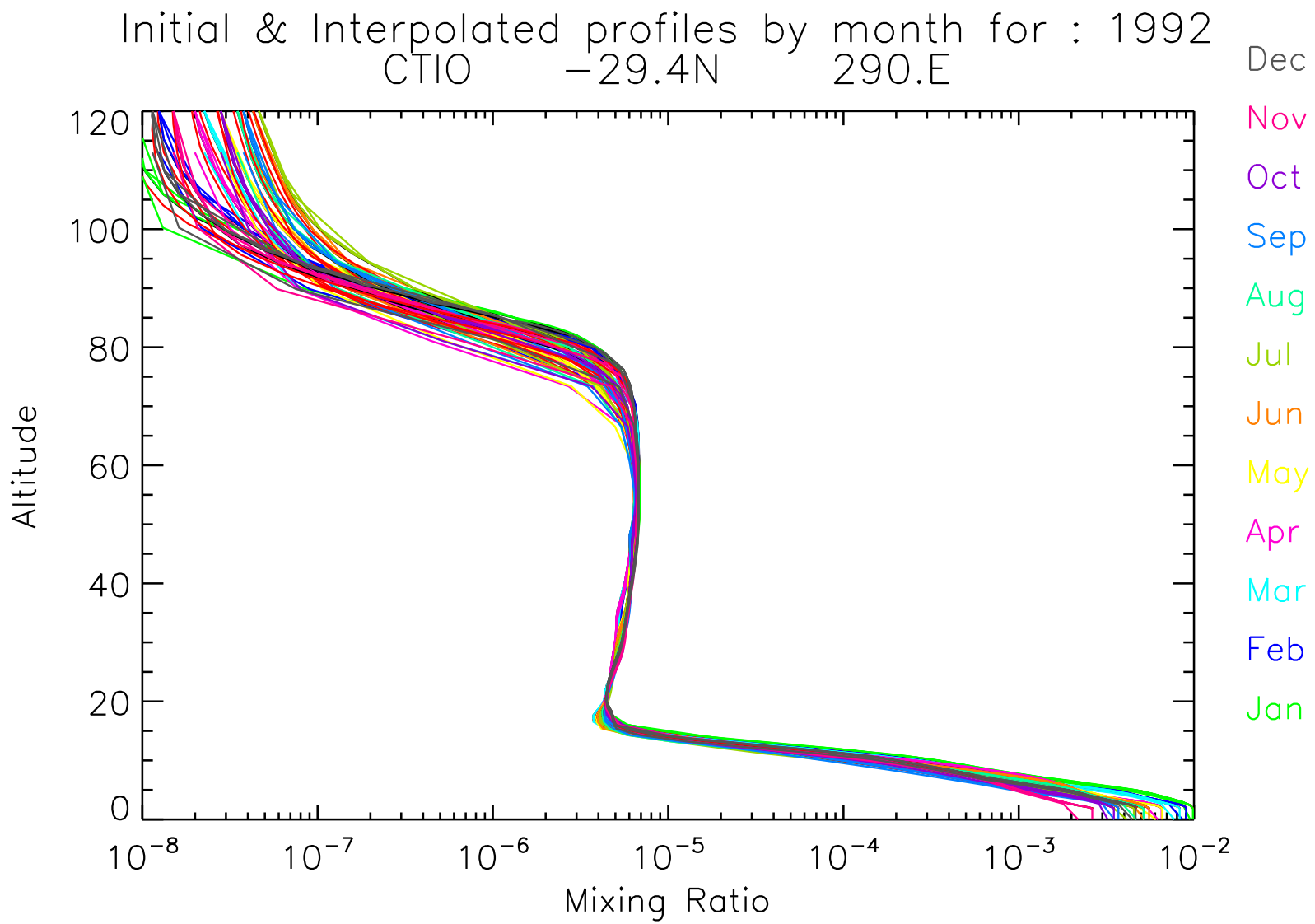
Mixing Ratio


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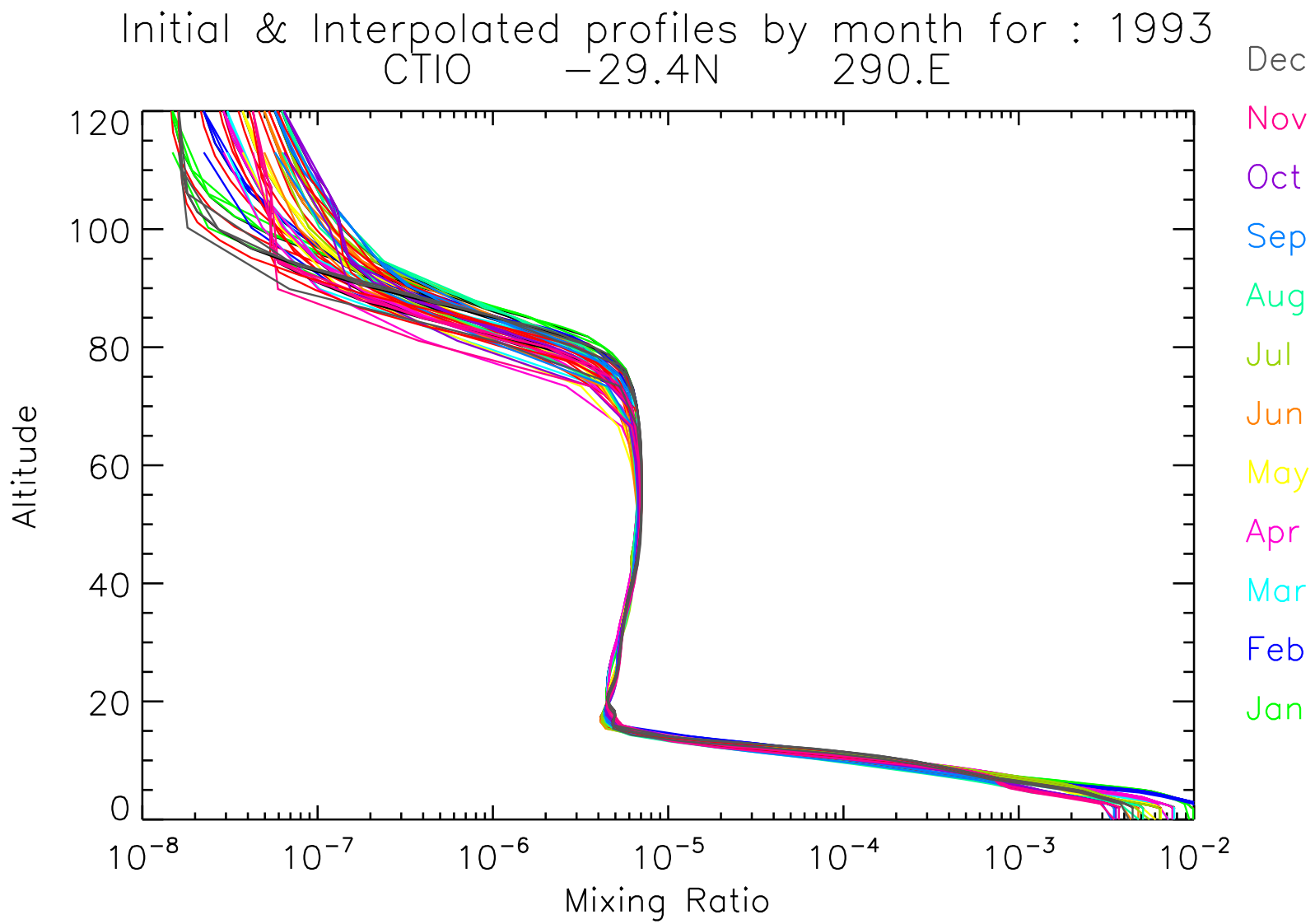
Mixing Ratio


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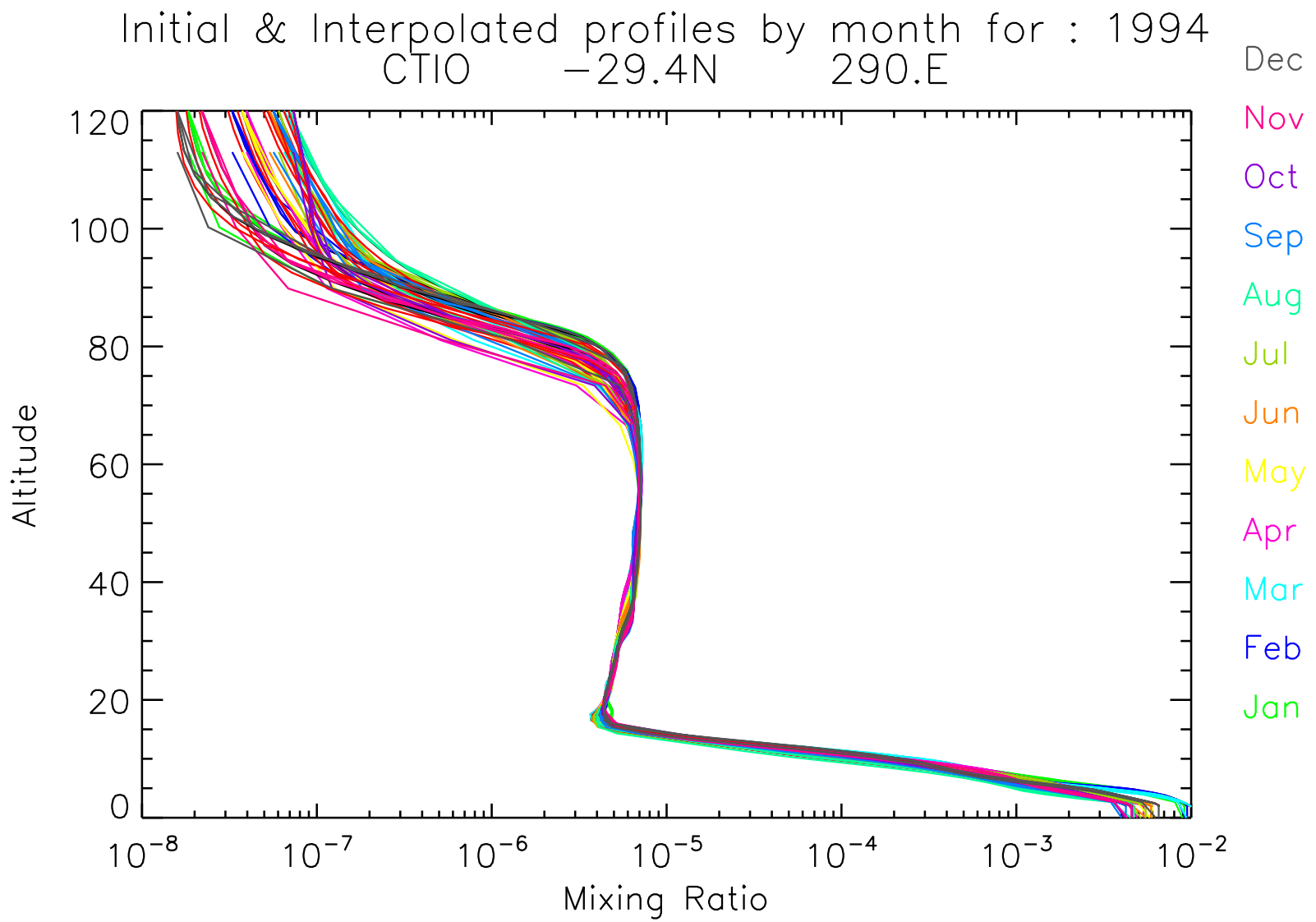
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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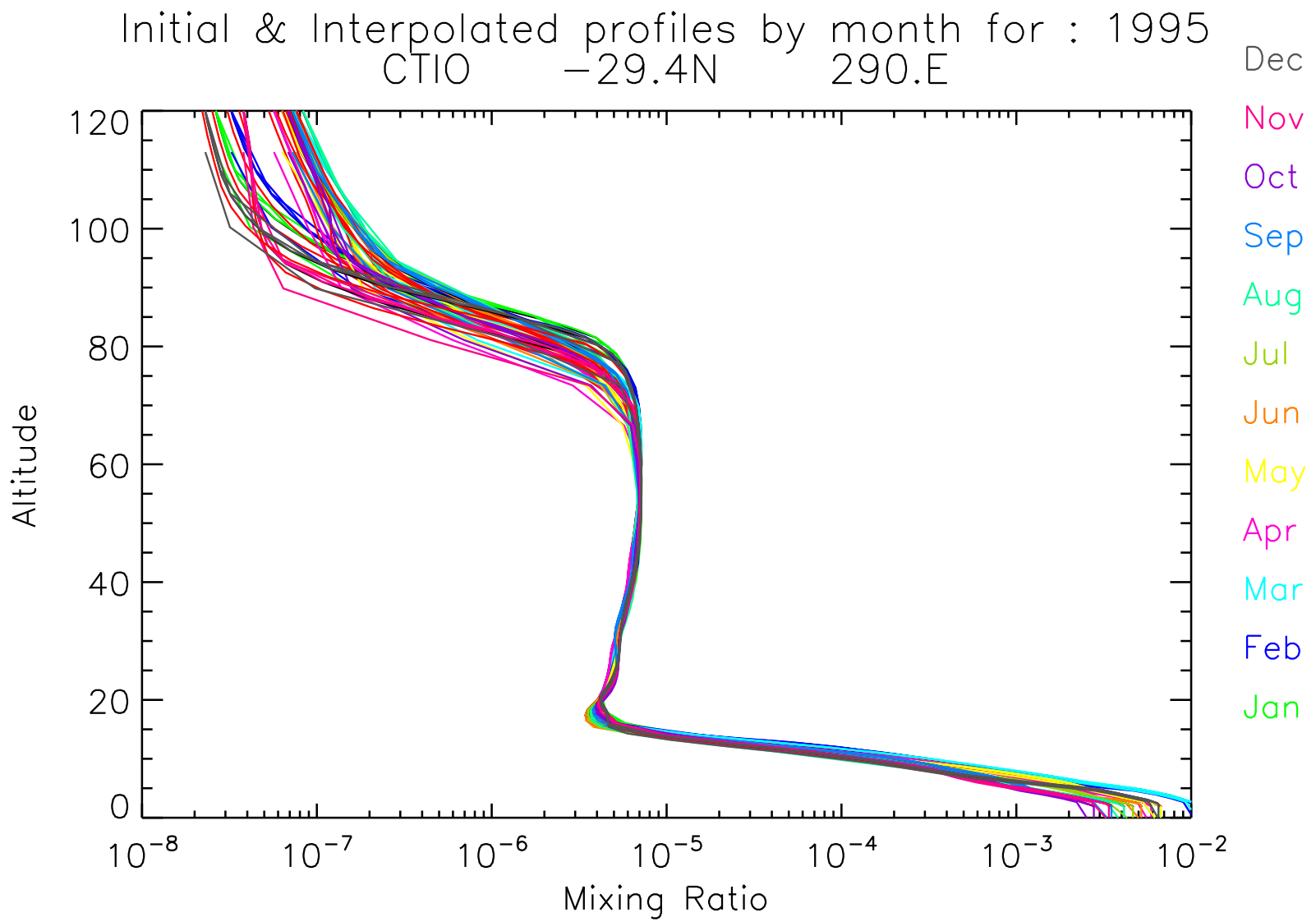
Initial & Interpolated profiles by month for : 1995
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Altitude
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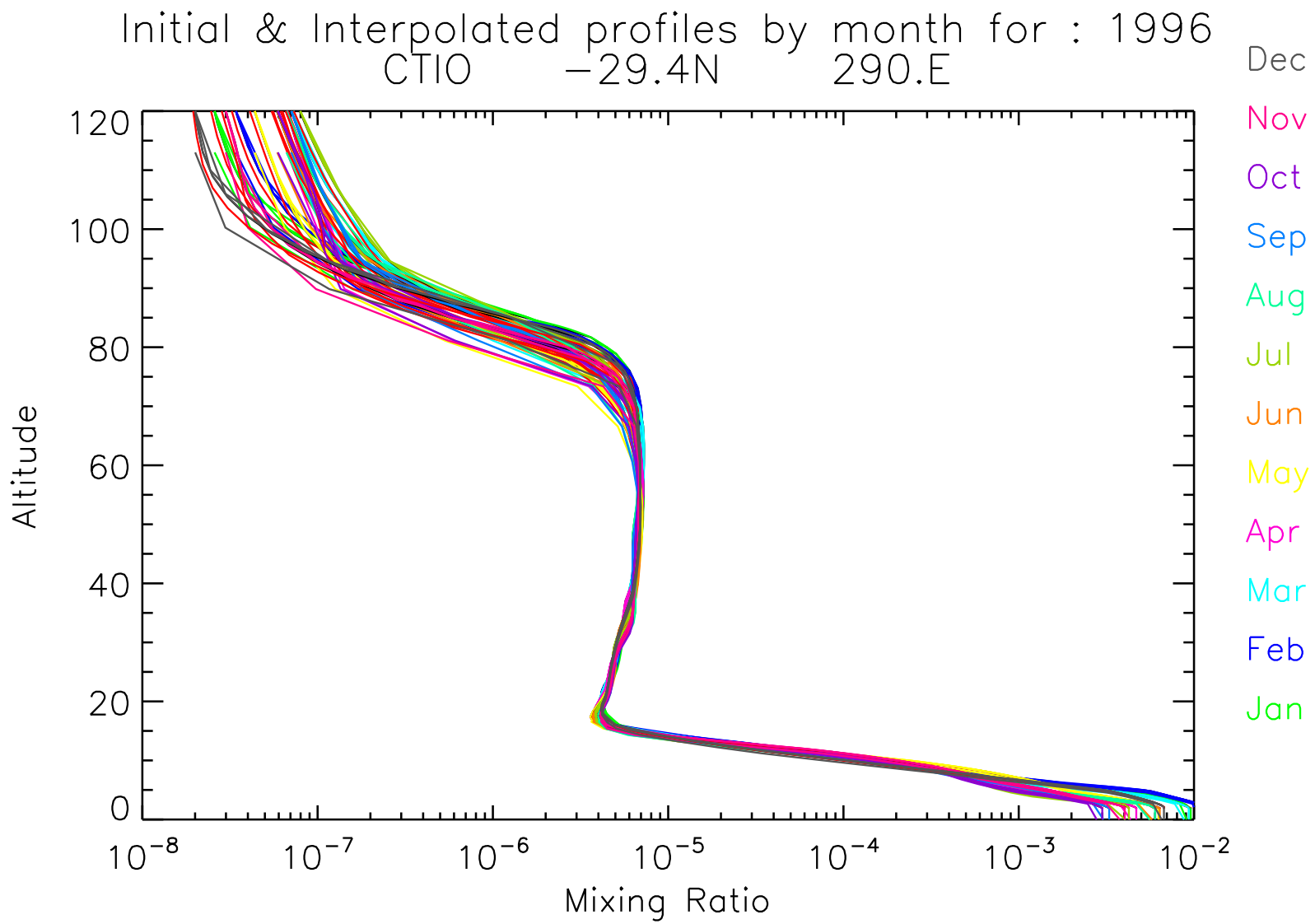
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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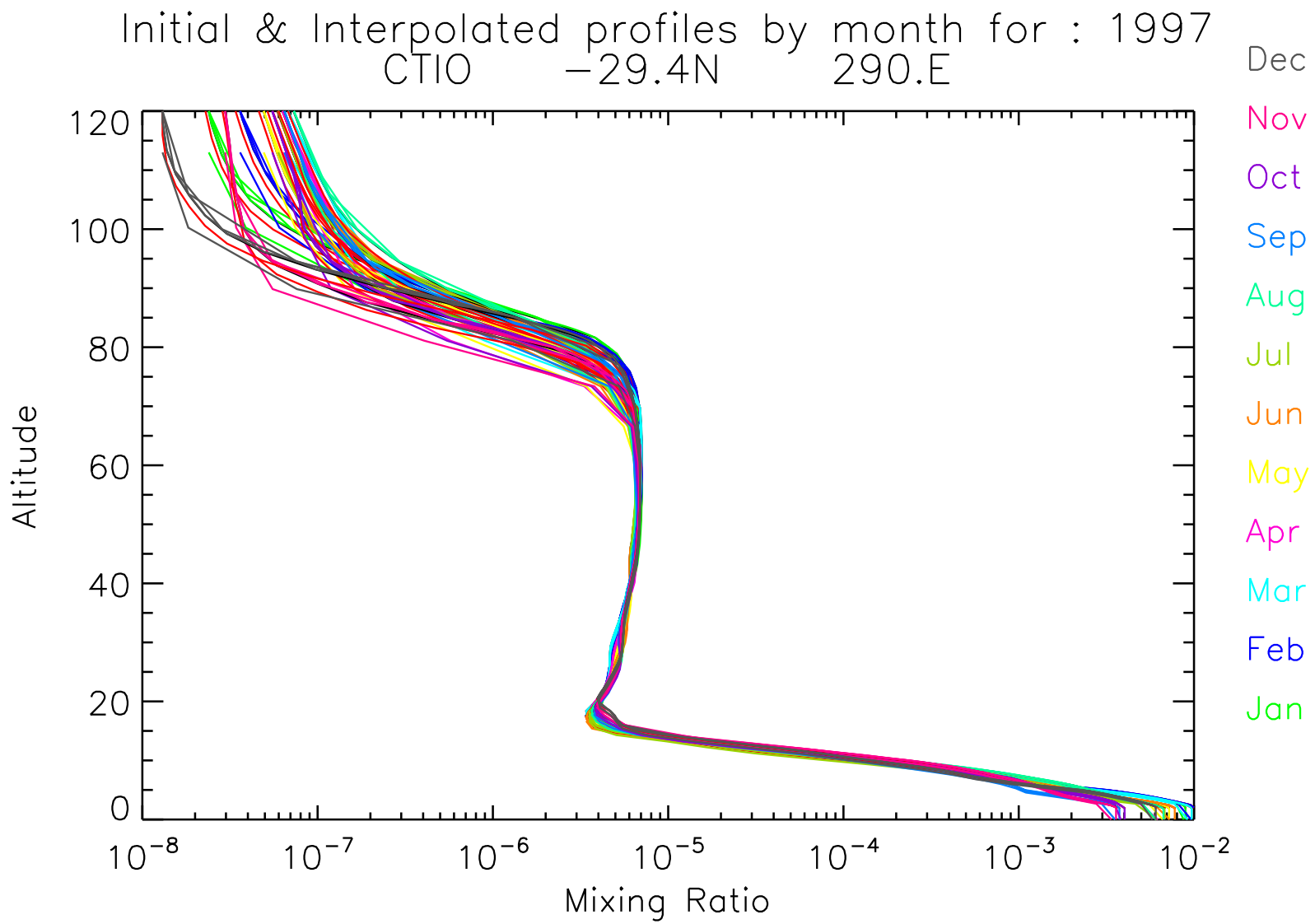
Initial & Interpolated profiles by month for : 1997
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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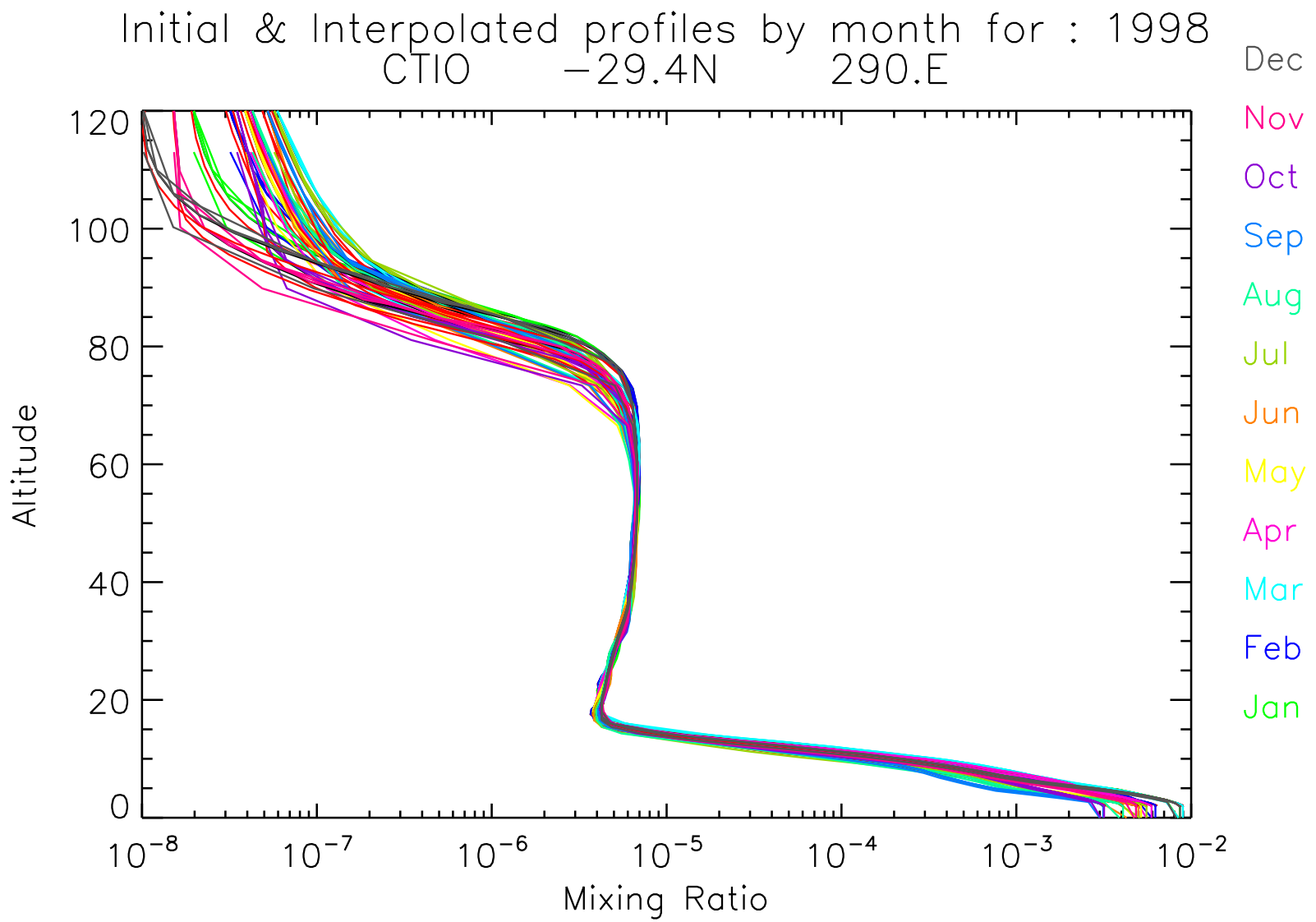
Initial & Interpolated profiles by month for : 1998
CTIO −29.4N 290.E
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Altitude
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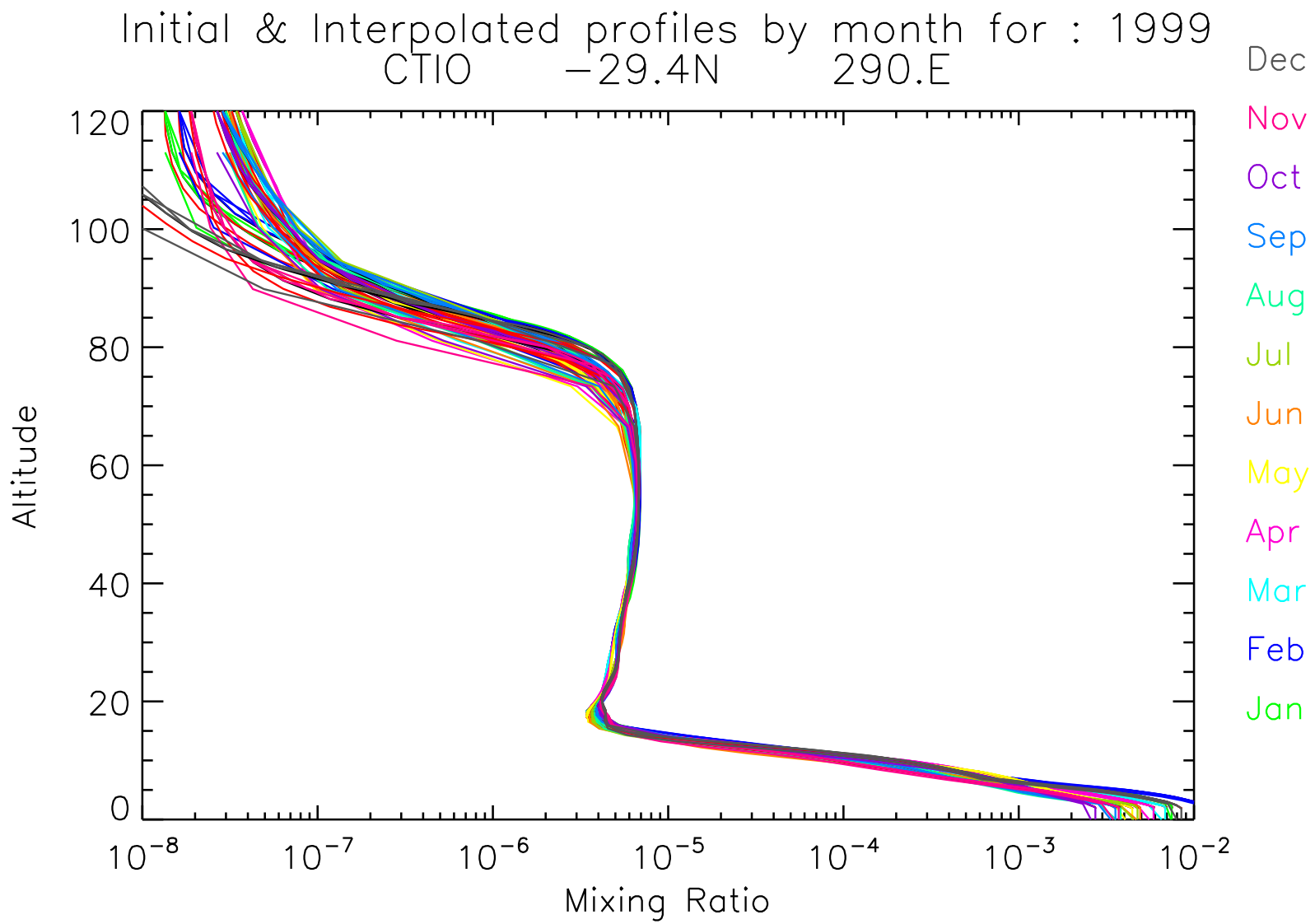
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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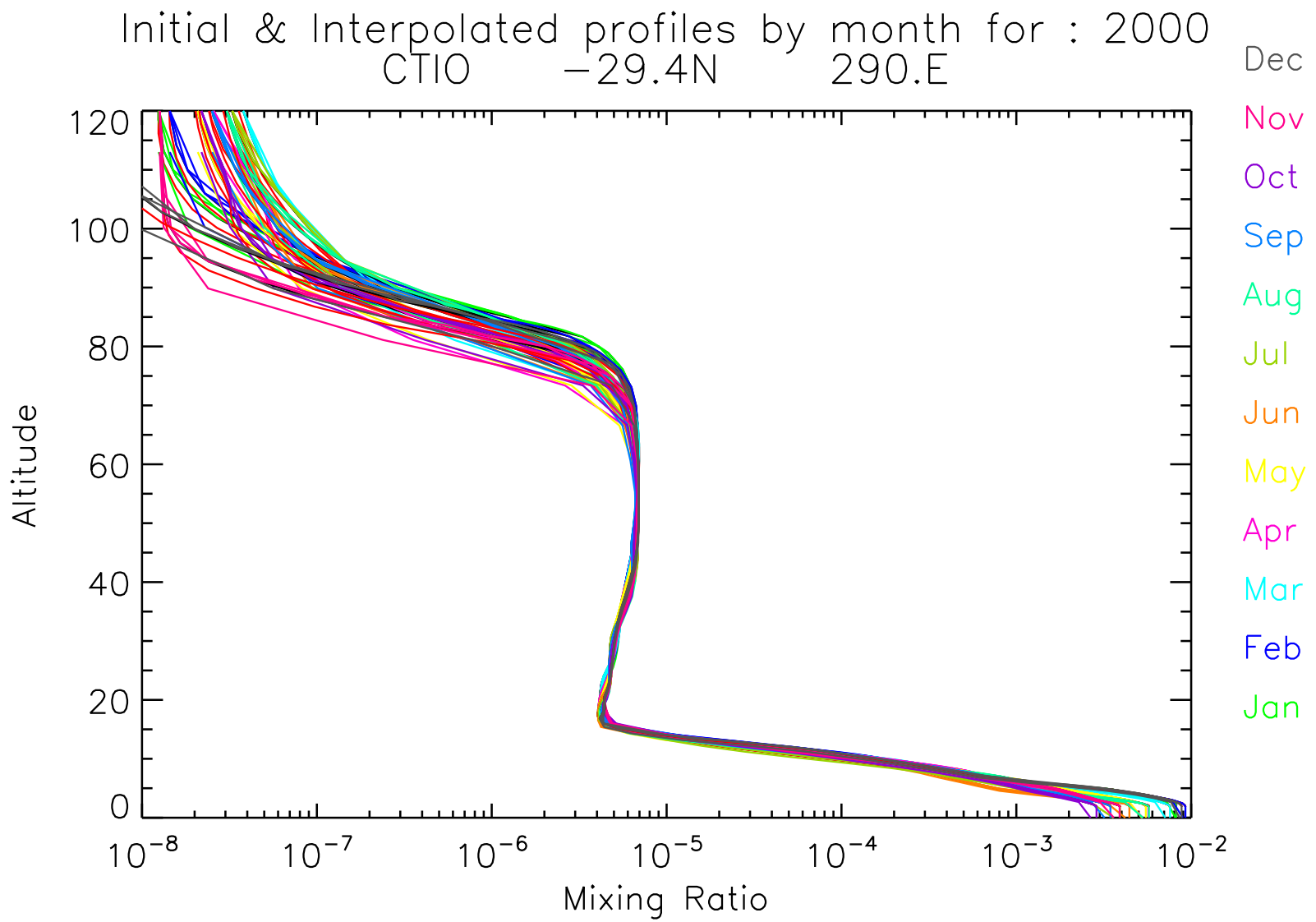
Initial & Interpolated profiles by month for : 2000
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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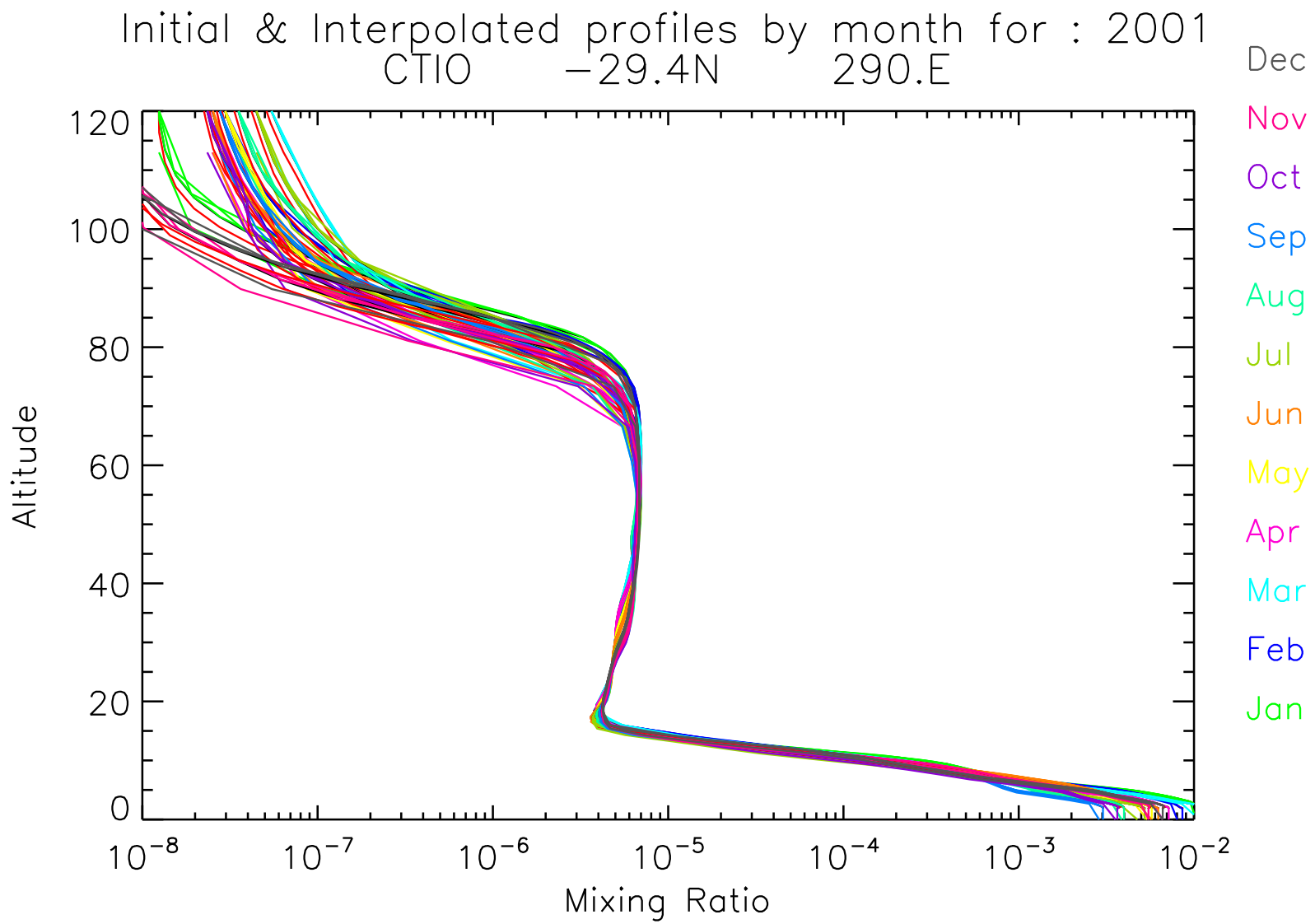
Initial & Interpolated profiles by month for : 2001
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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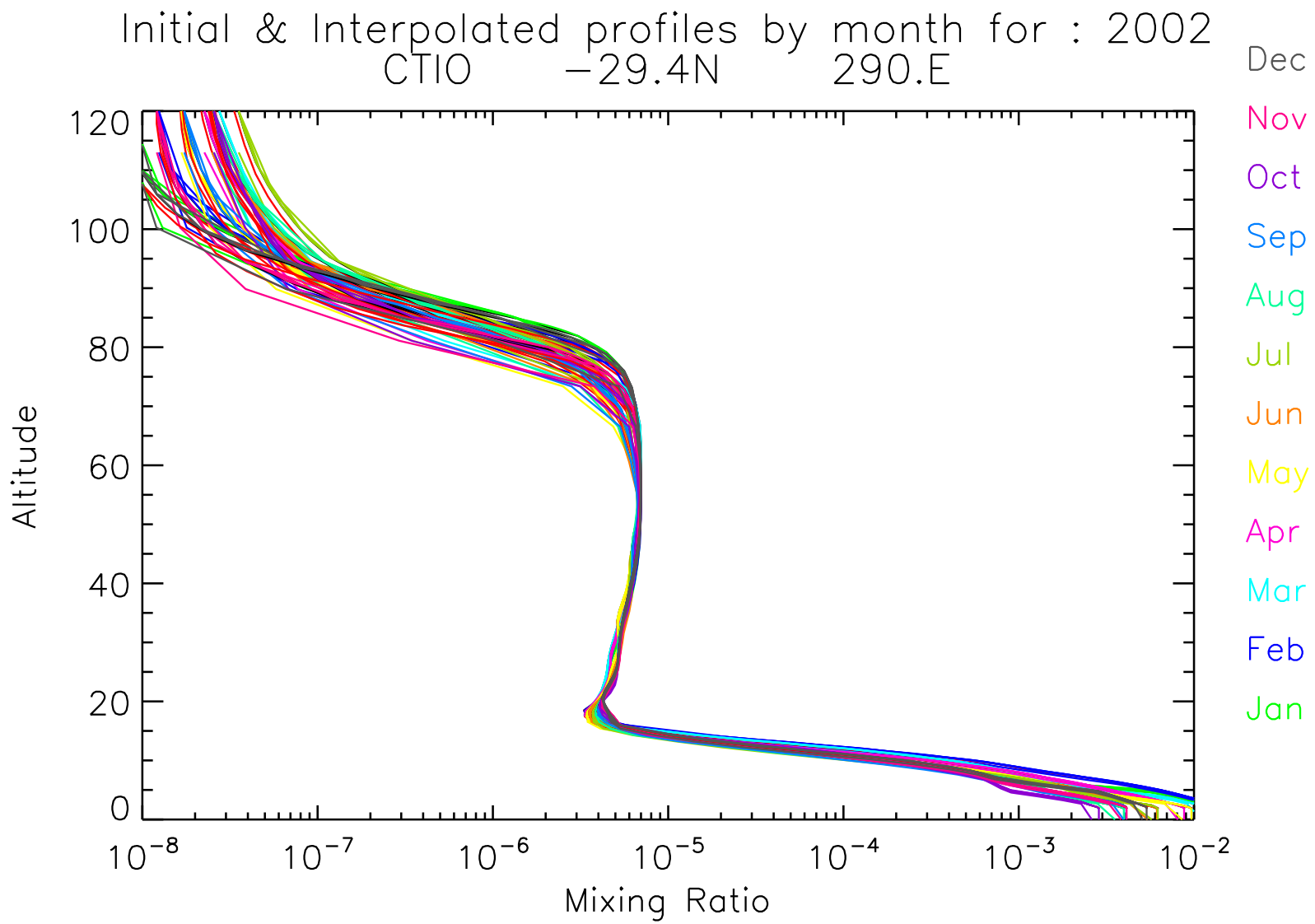
Initial & Interpolated profiles by month for : 2002
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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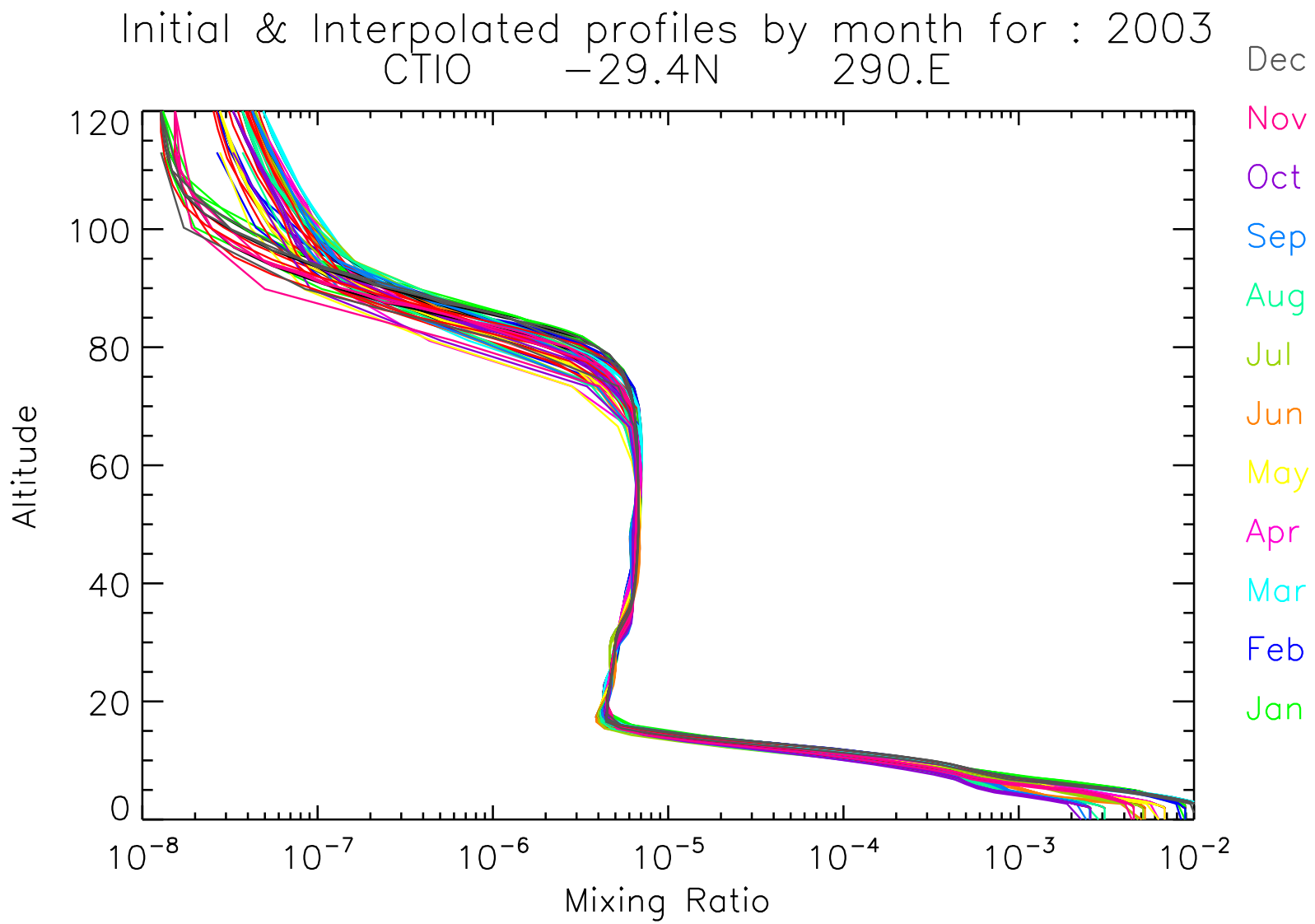
Initial & Interpolated profiles by month for : 2003
CTIO −29.4N 290.E
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Altitude
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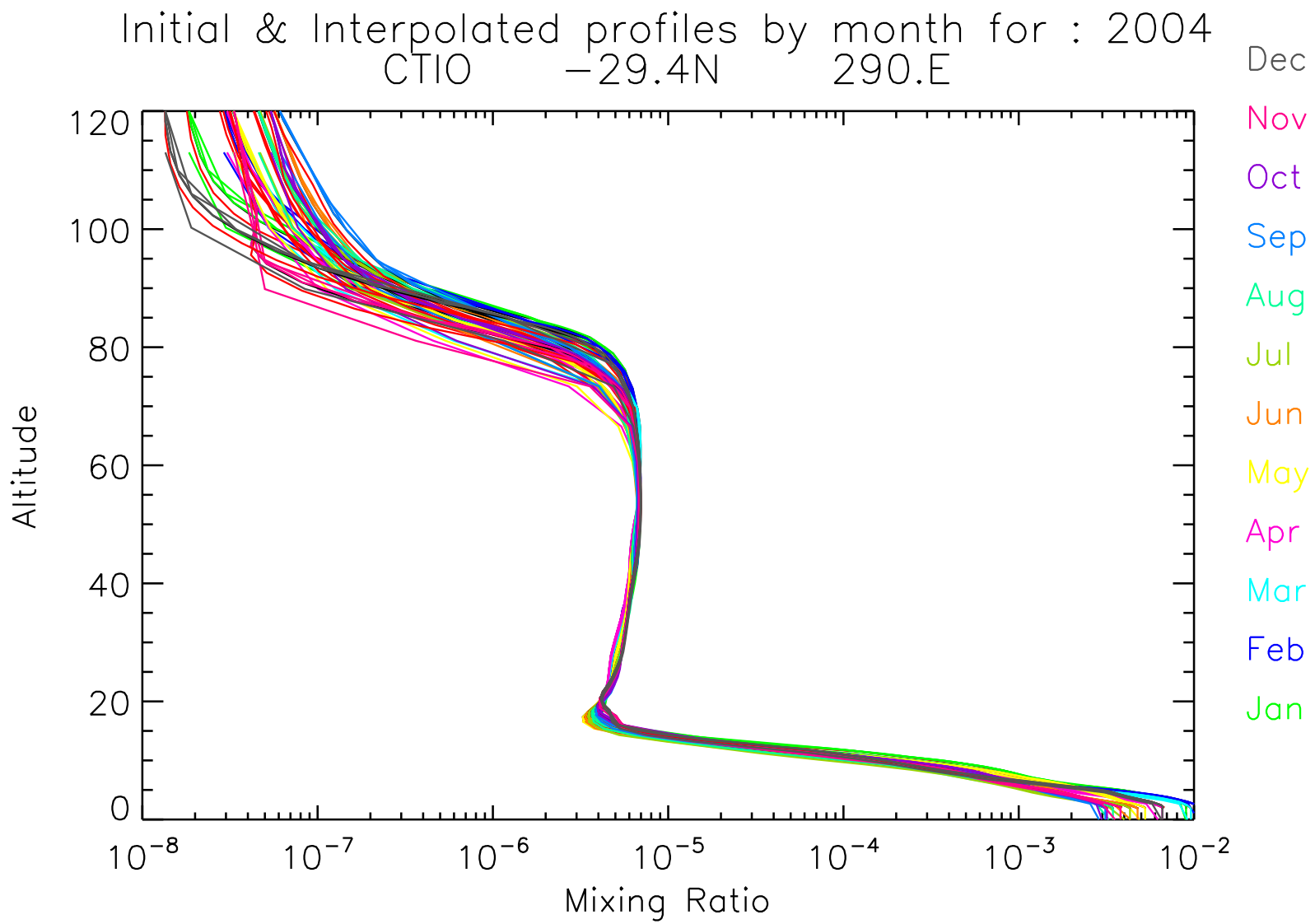
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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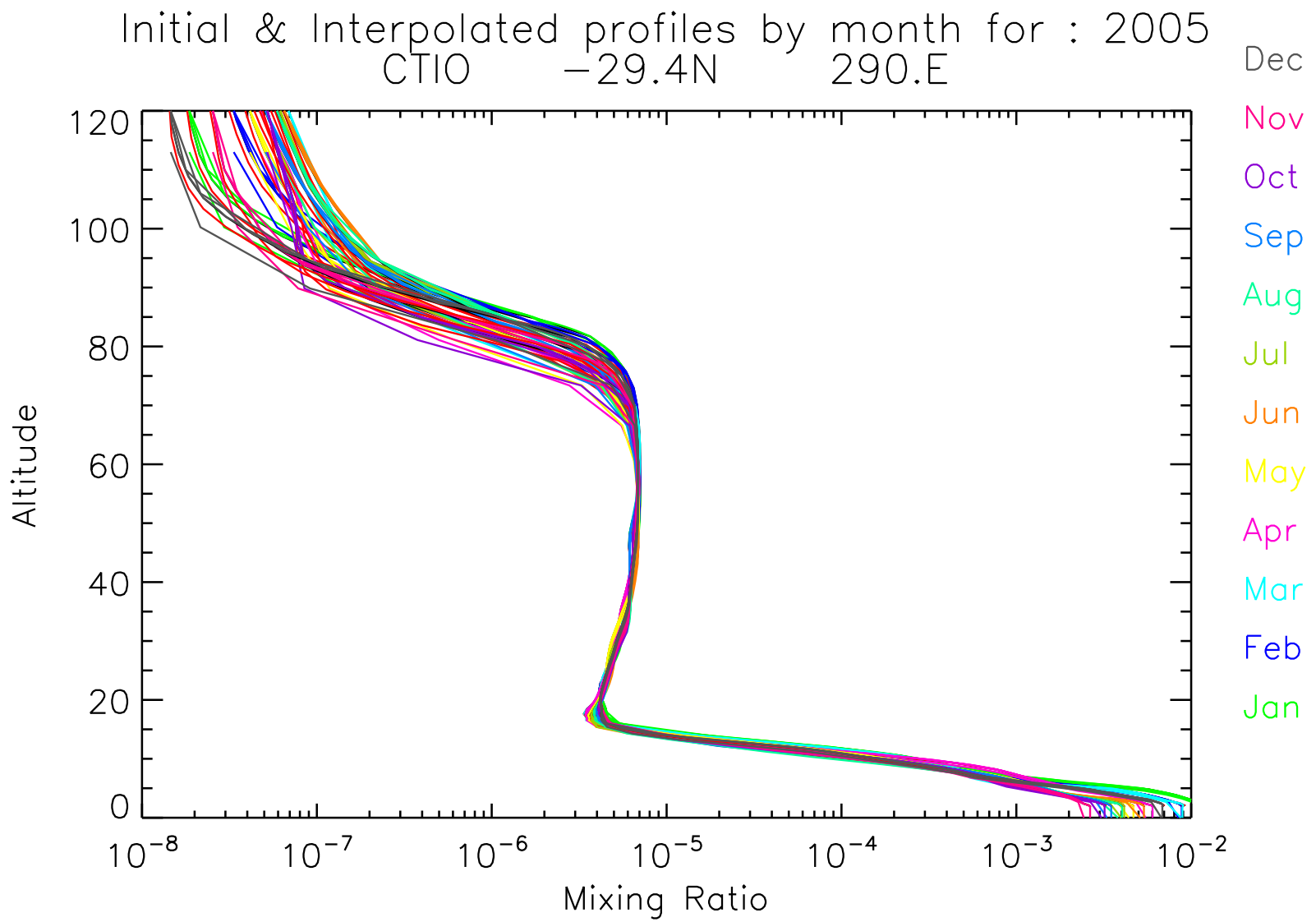
Initial & Interpolated profiles by month for : 2005
CTIO −29.4N 290.E
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Altitude
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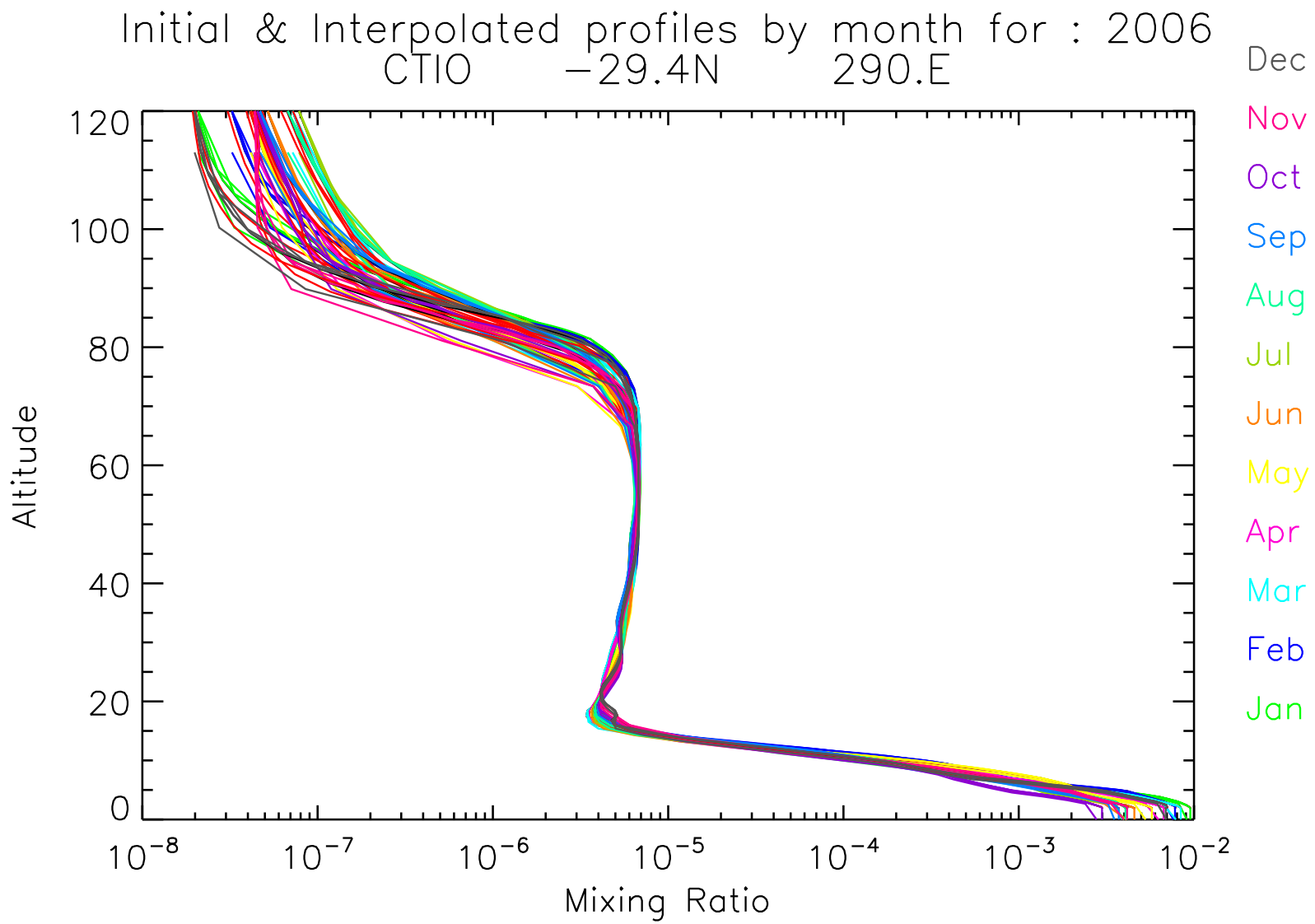
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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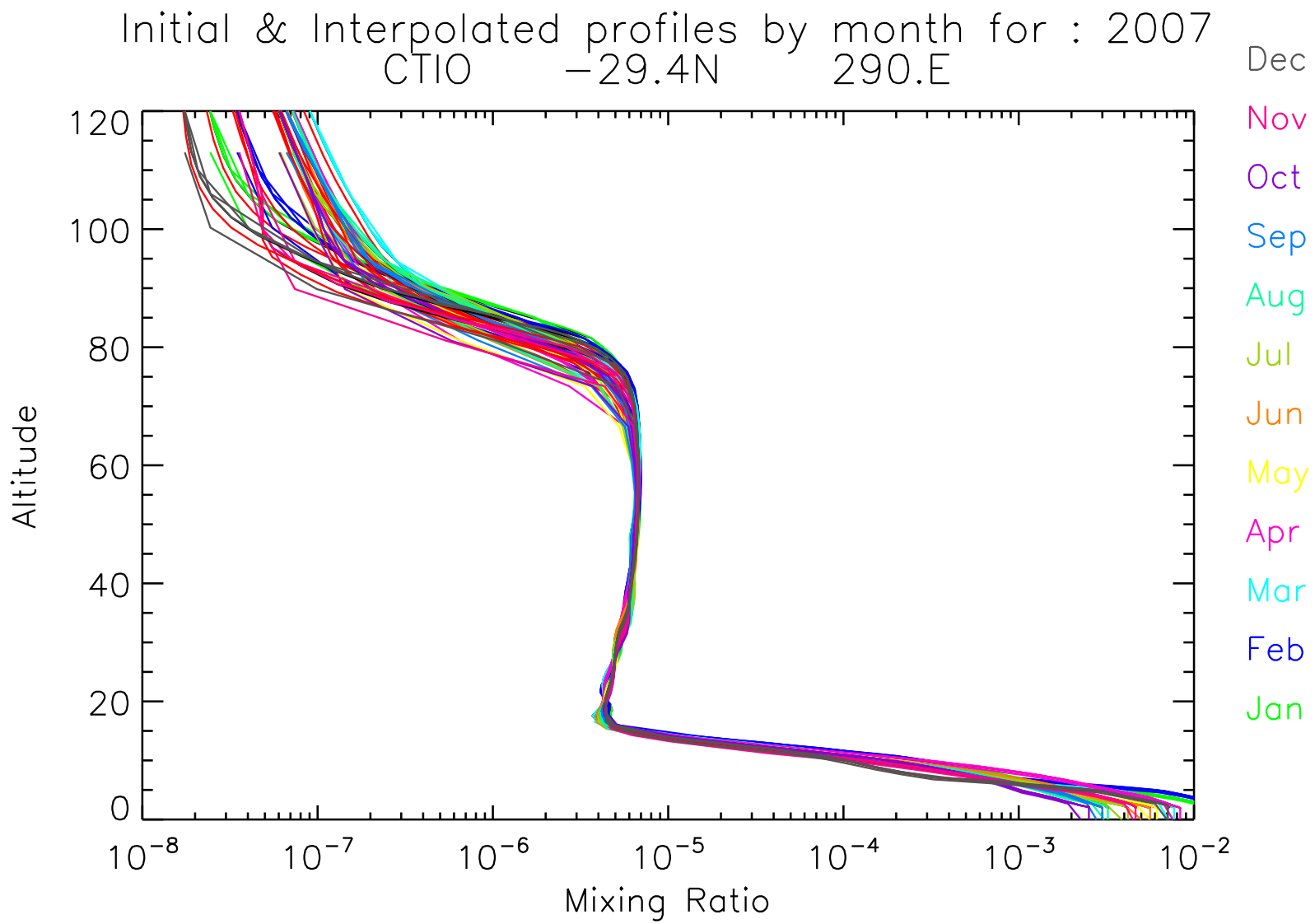
Initial & Interpolated profiles by month for : 2007
CTIO −29.4N 290.E
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Altitude
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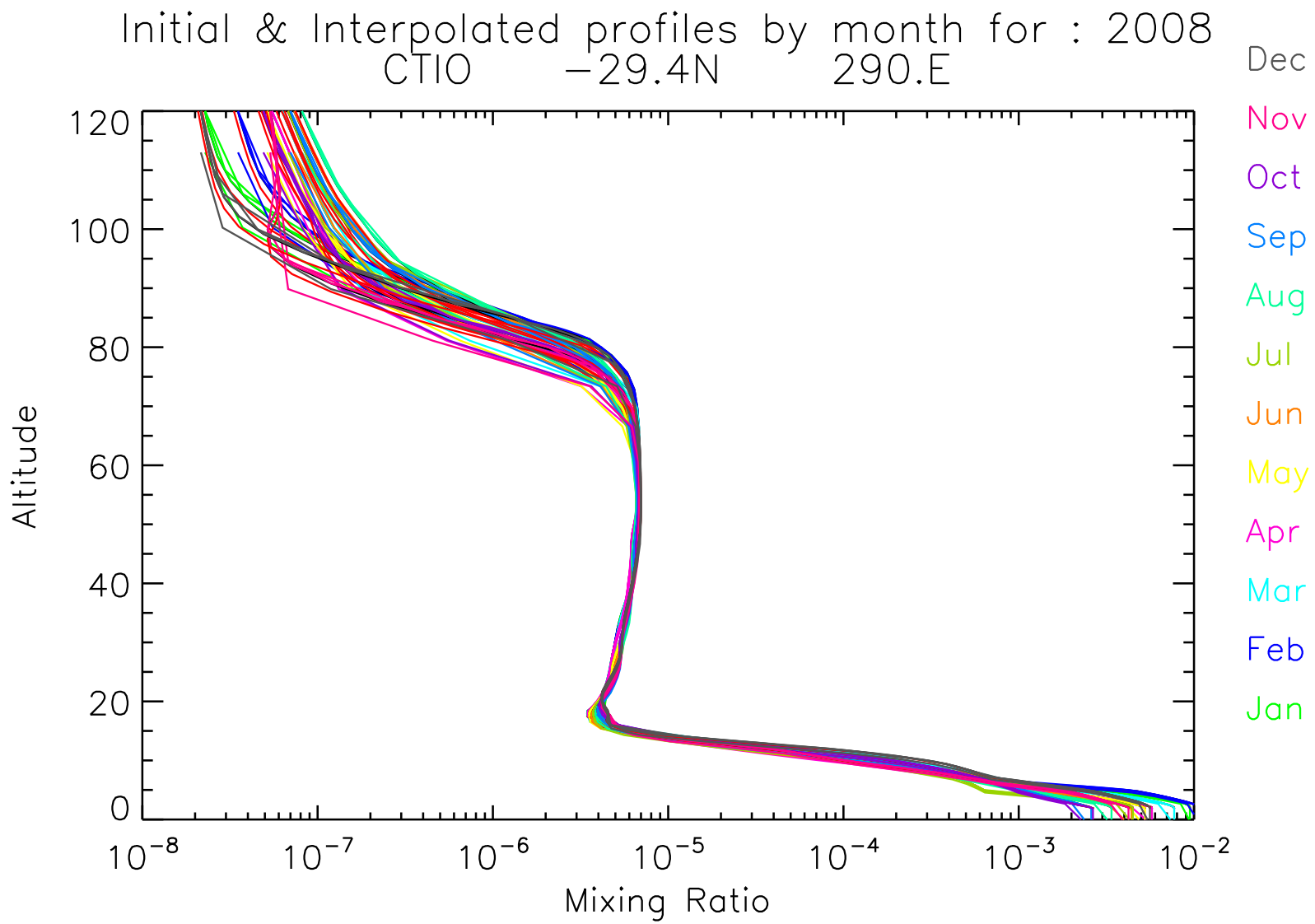
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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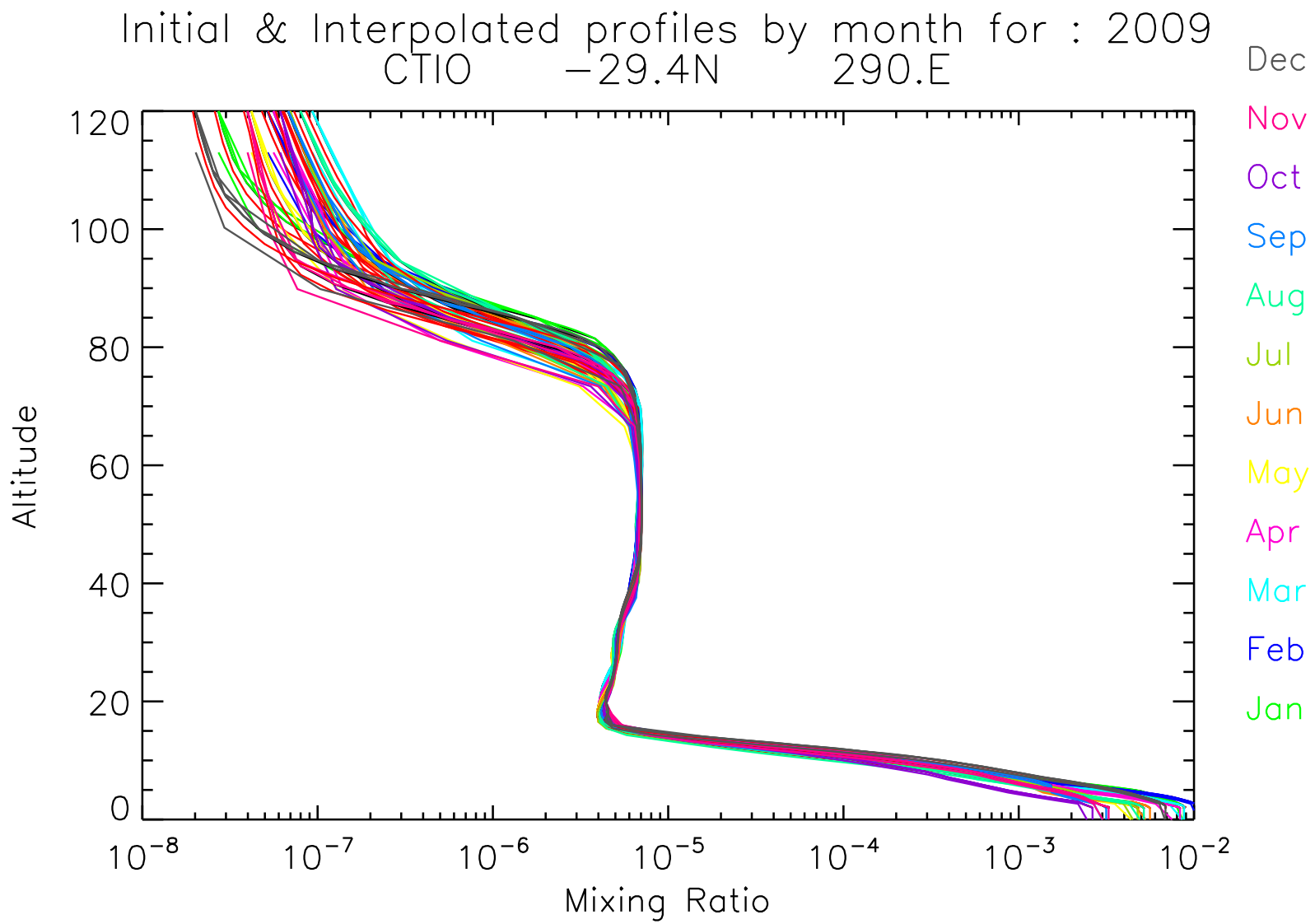
Initial & Interpolated profiles by month for : 2009
CTIO −29.4N 290.E
Altitude
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Mixing Ratio
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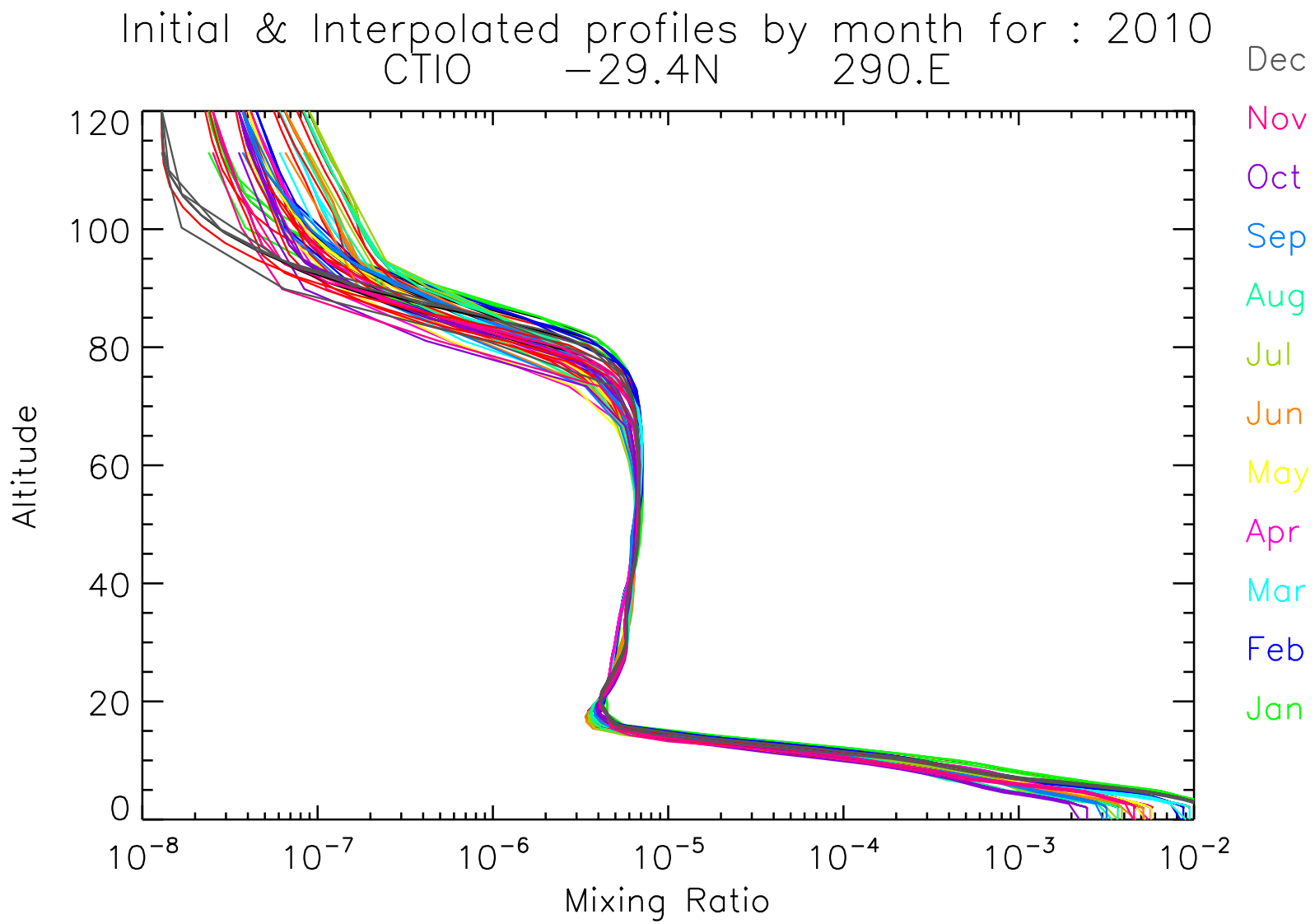
Initial & Interpolated profiles by month for : 2010
CTIO −29.4N 290.E
Altitude
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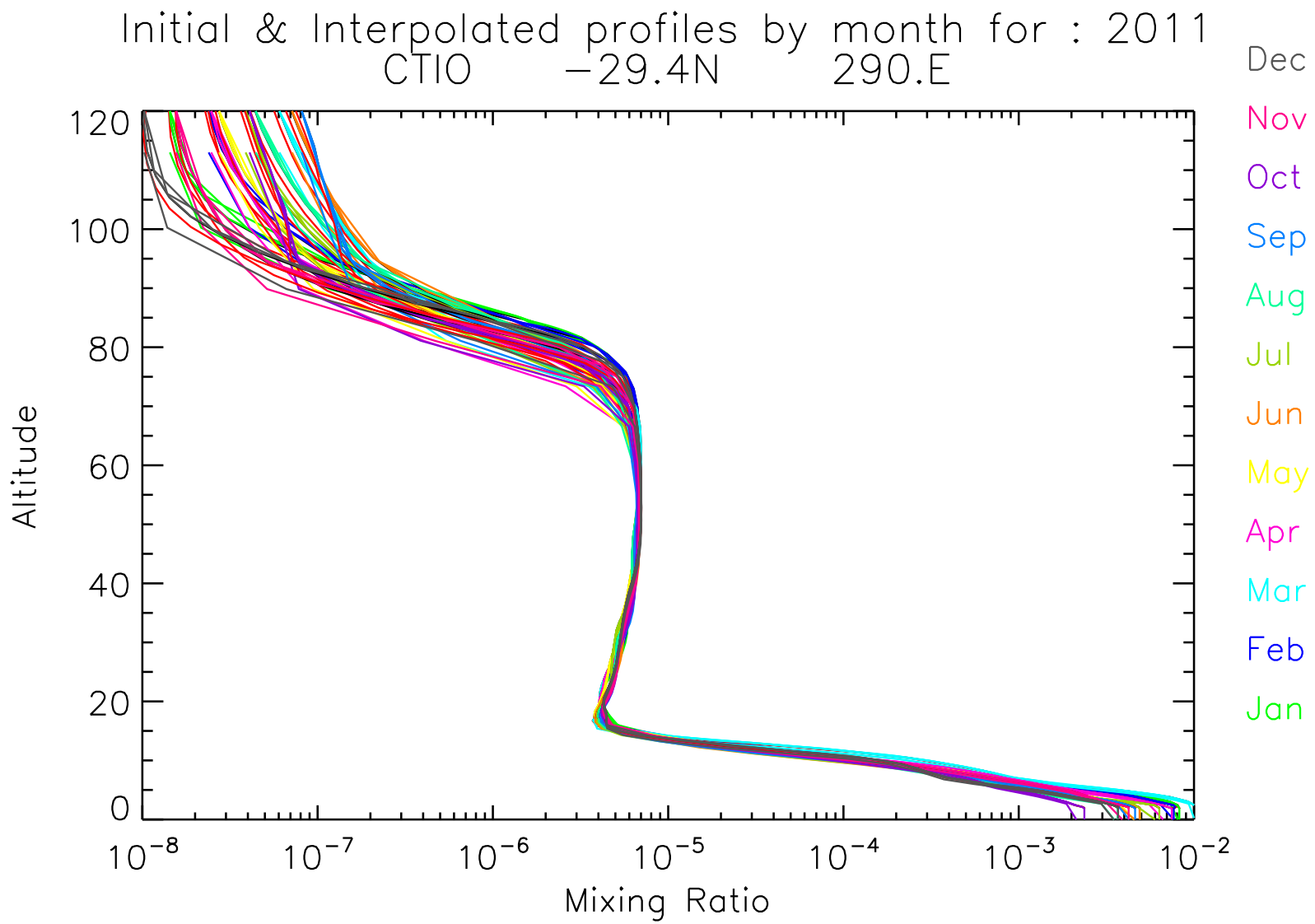
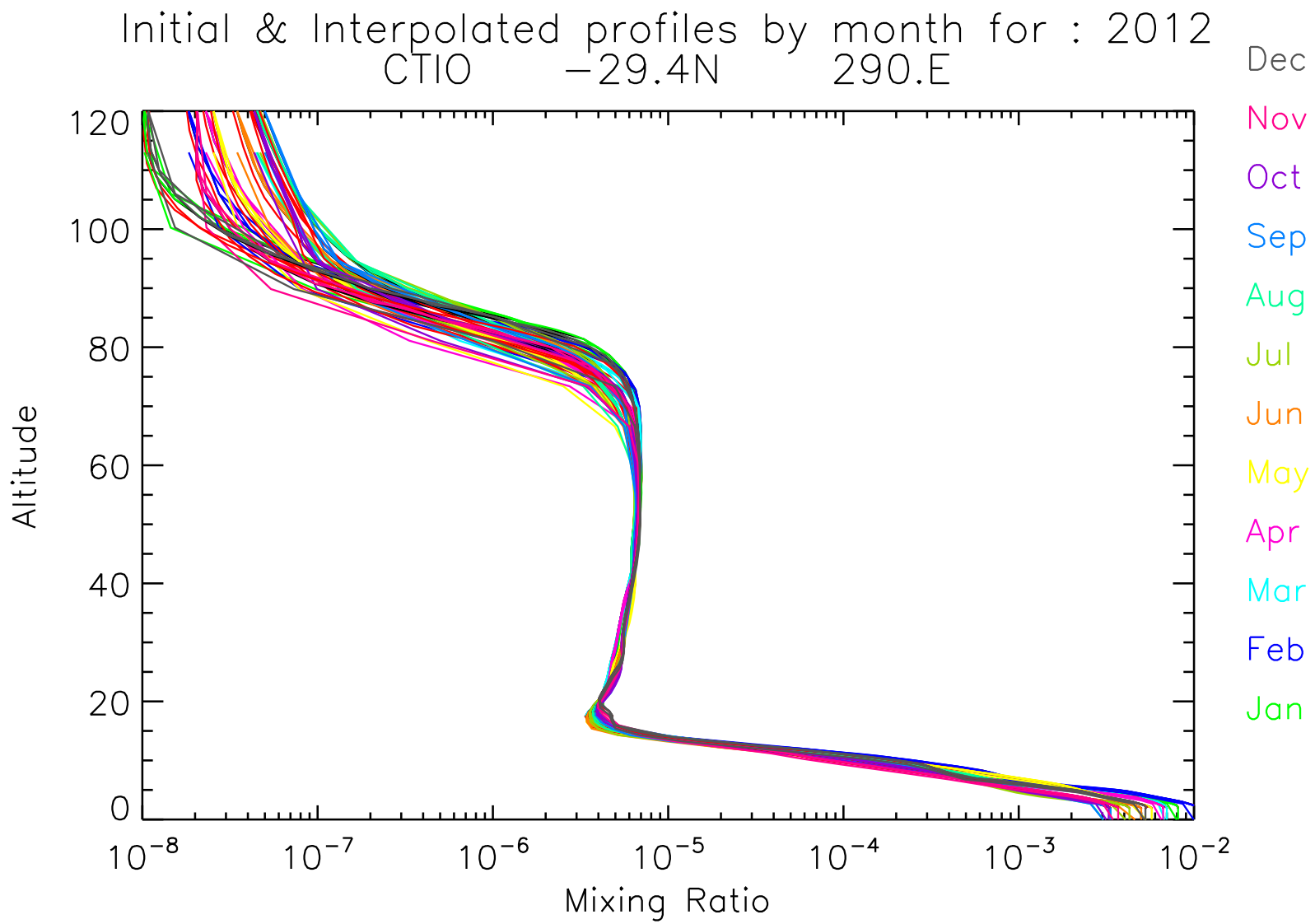
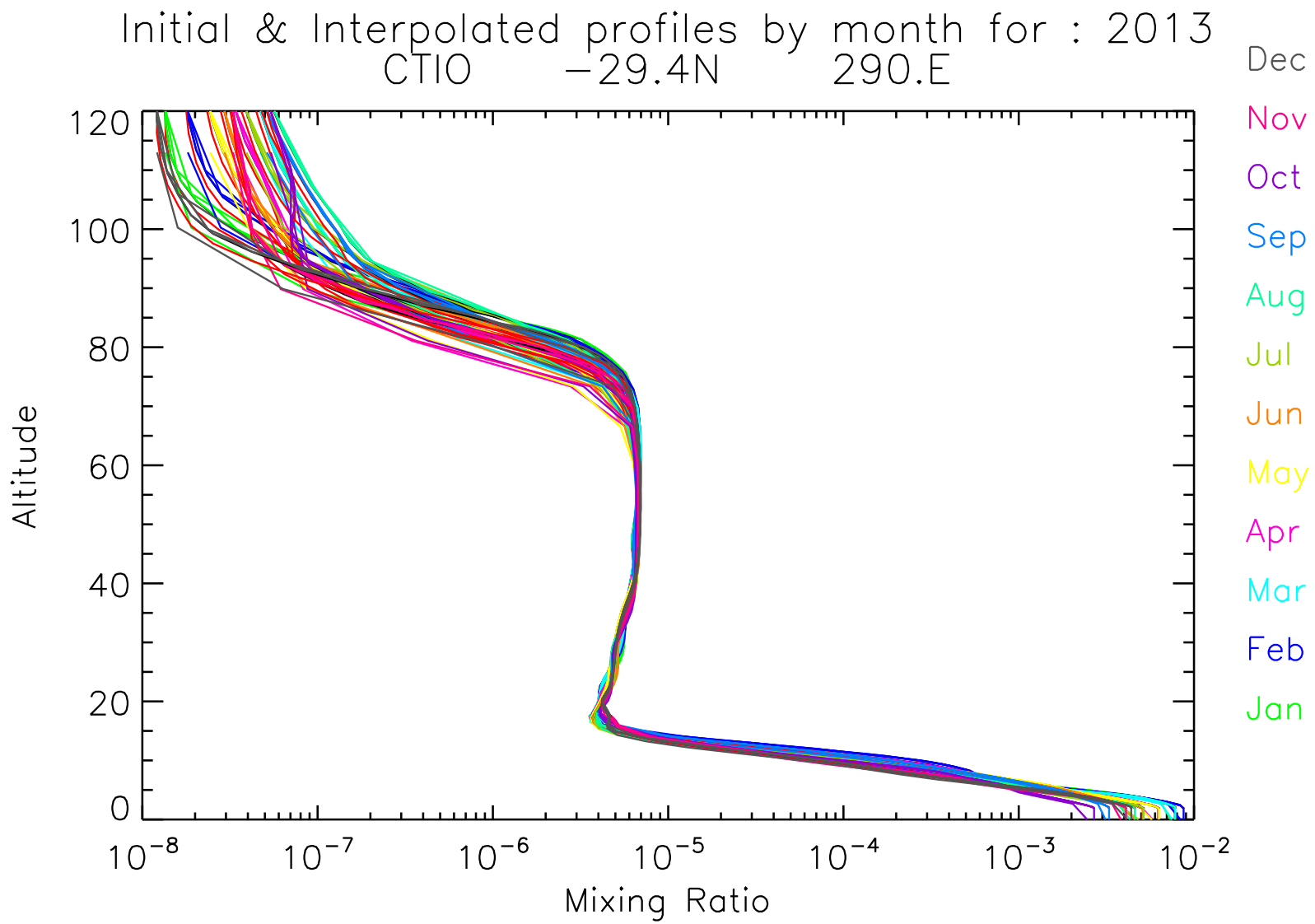
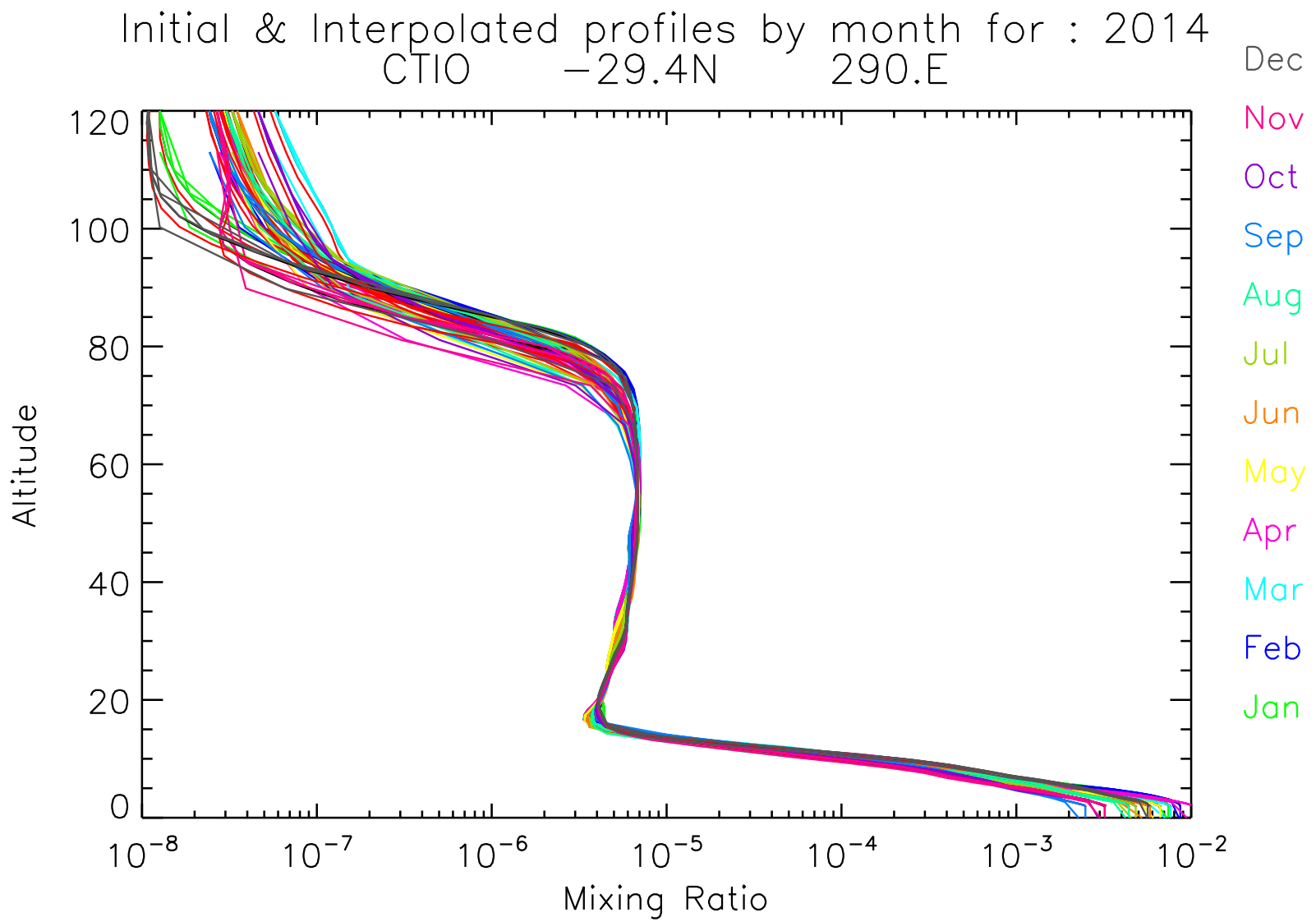
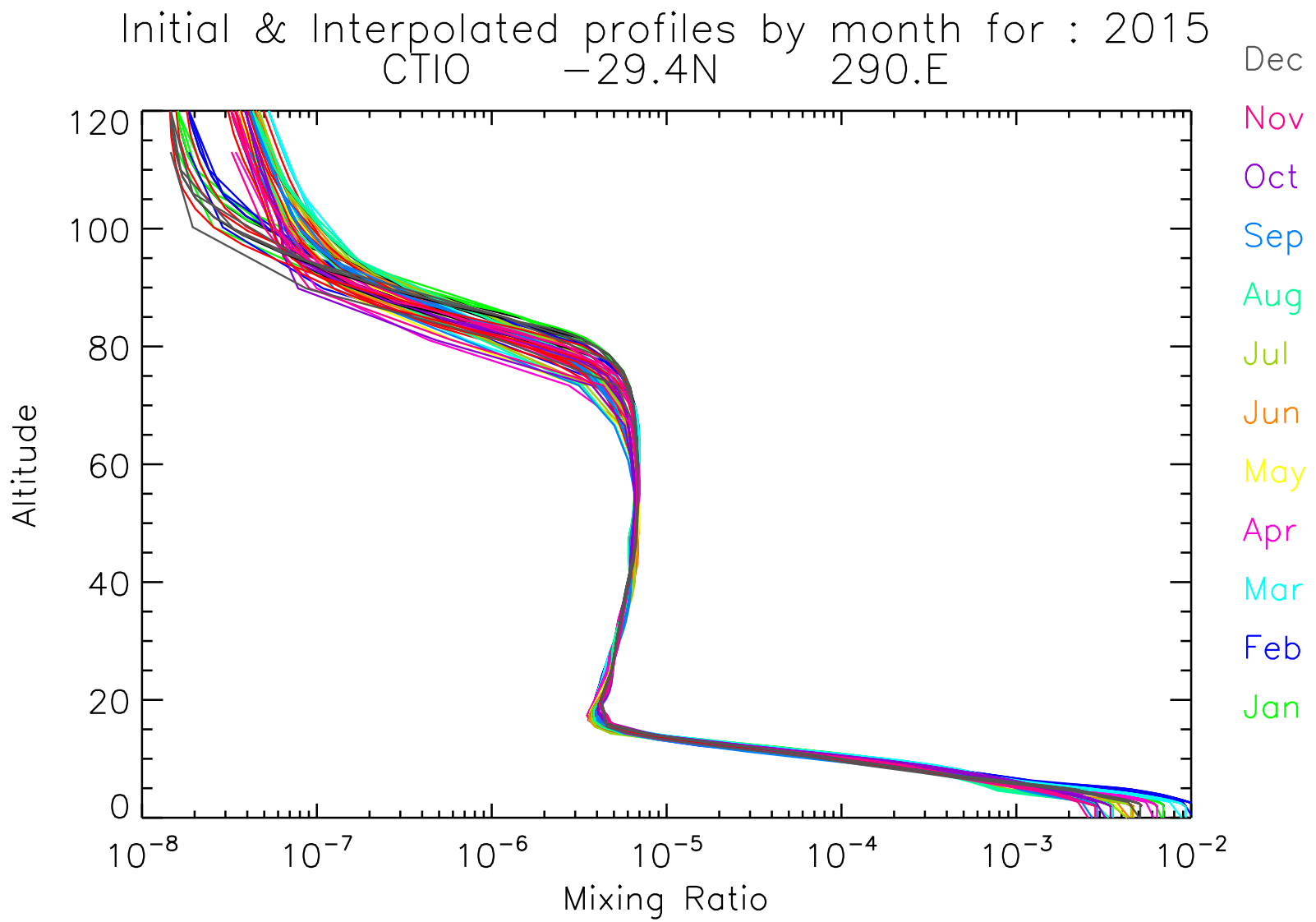
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

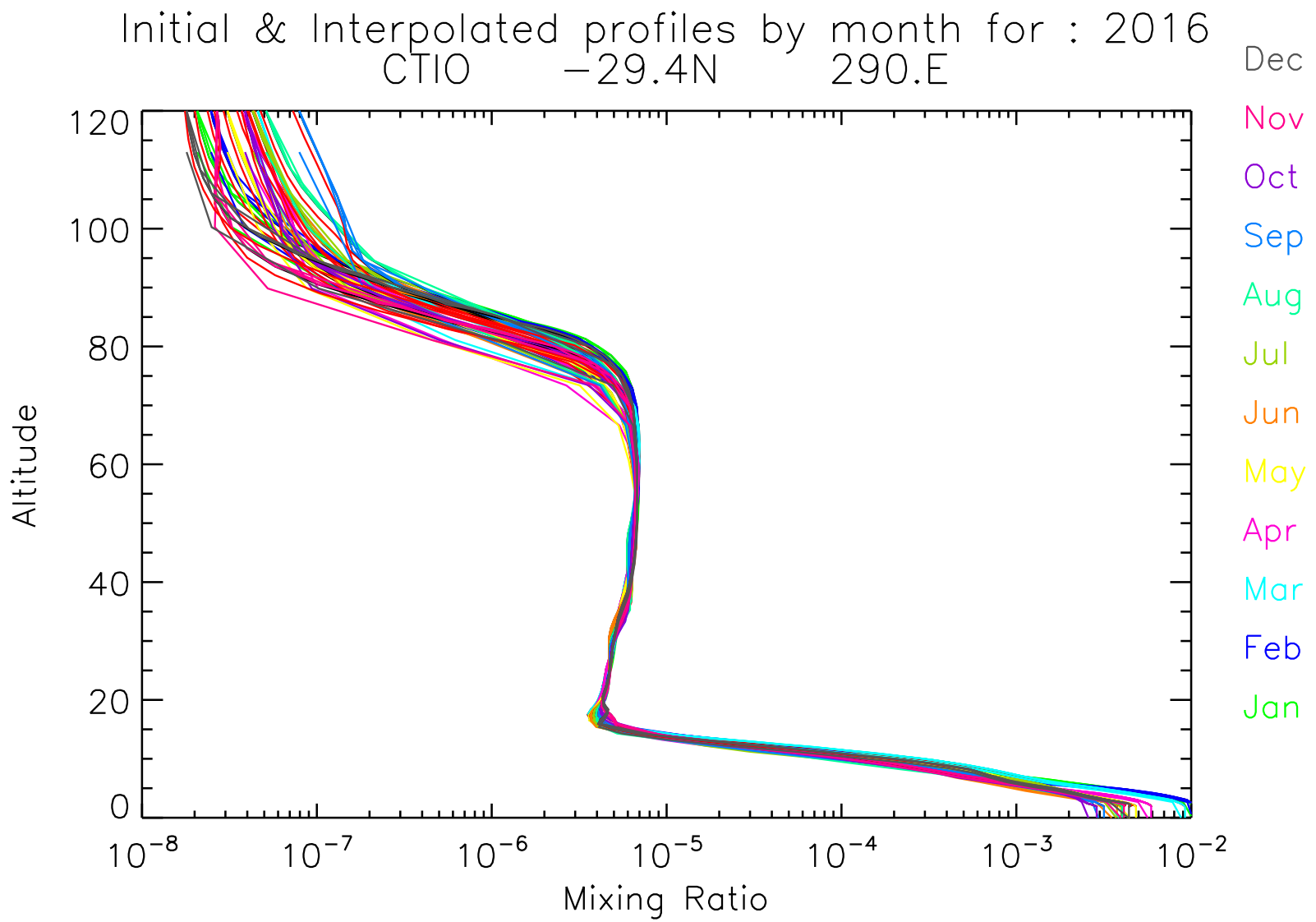

Initial & Interpolated profiles by month for : 2011
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio

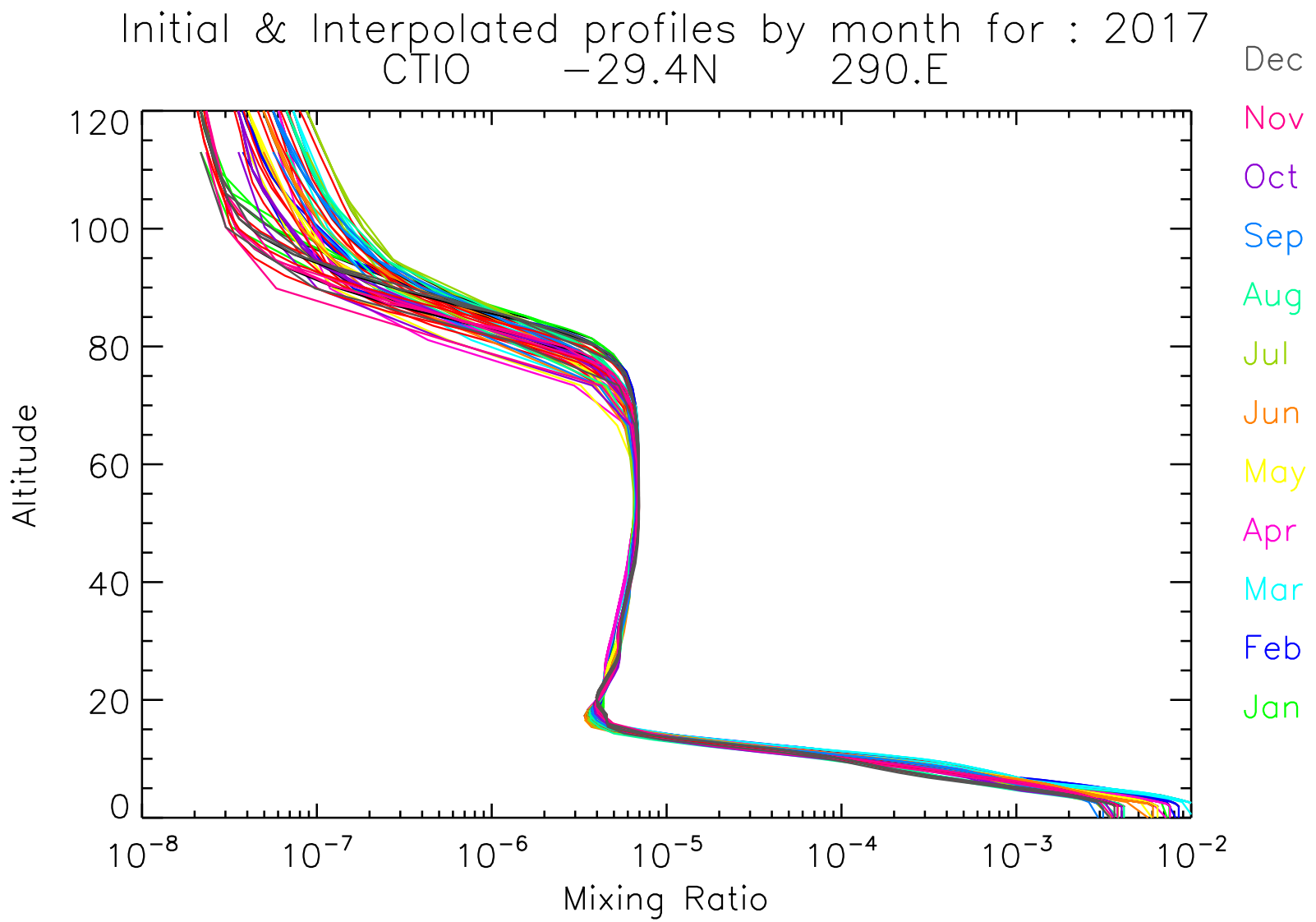

Initial & Interpolated profiles by month for : 2012
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio

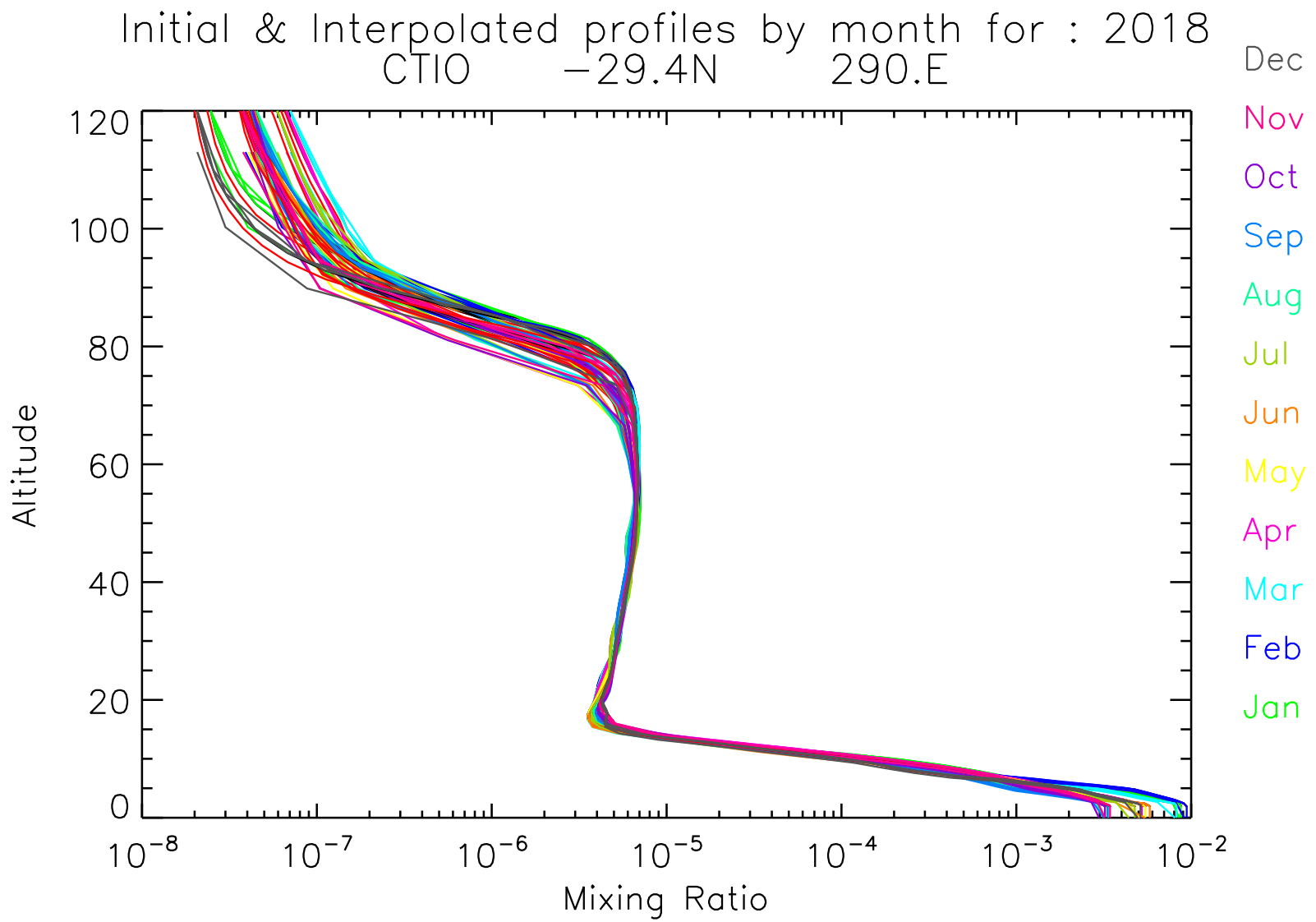

Initial & Interpolated profiles by month for : 2013
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

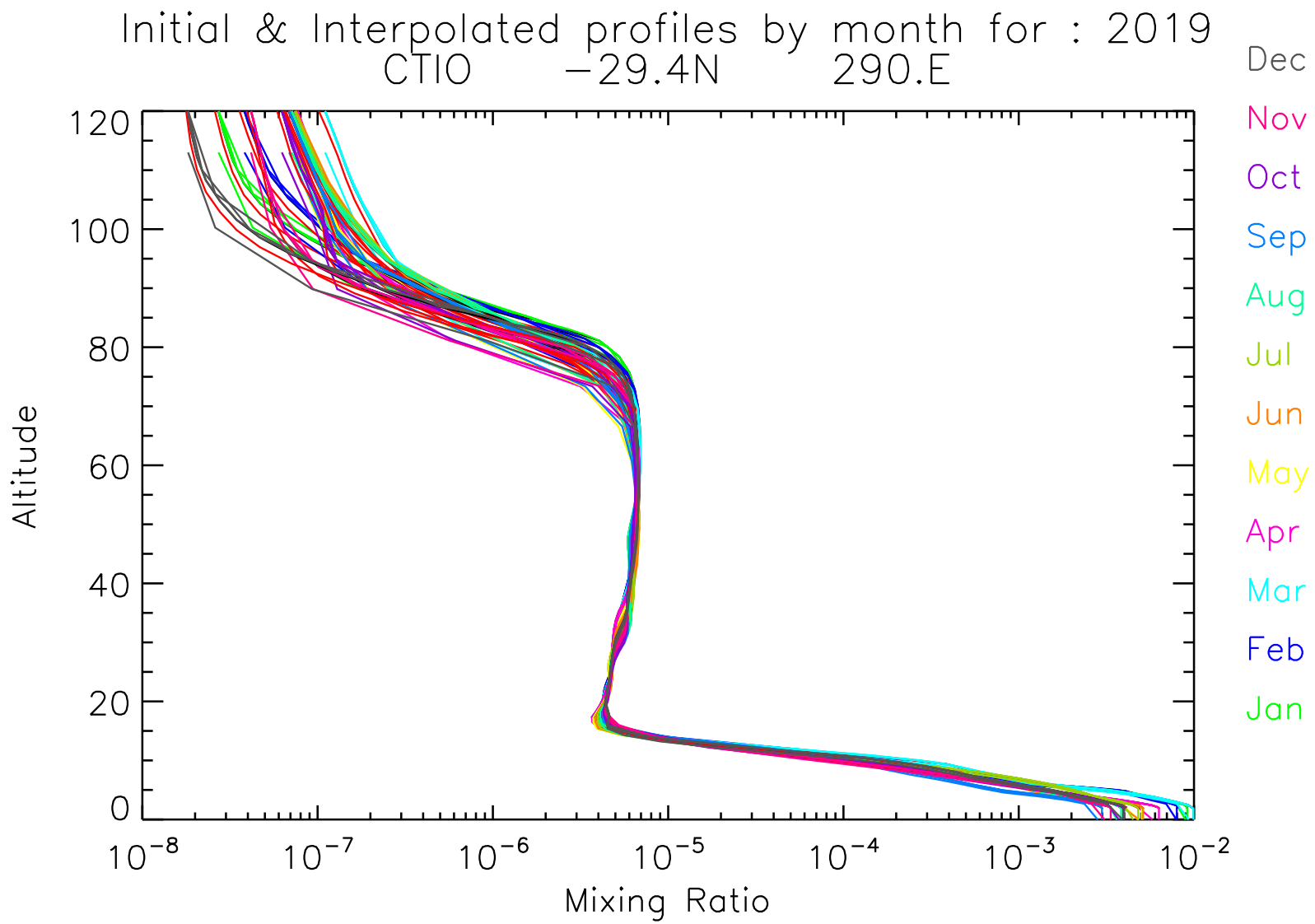

Initial & Interpolated profiles by month for : 2014
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

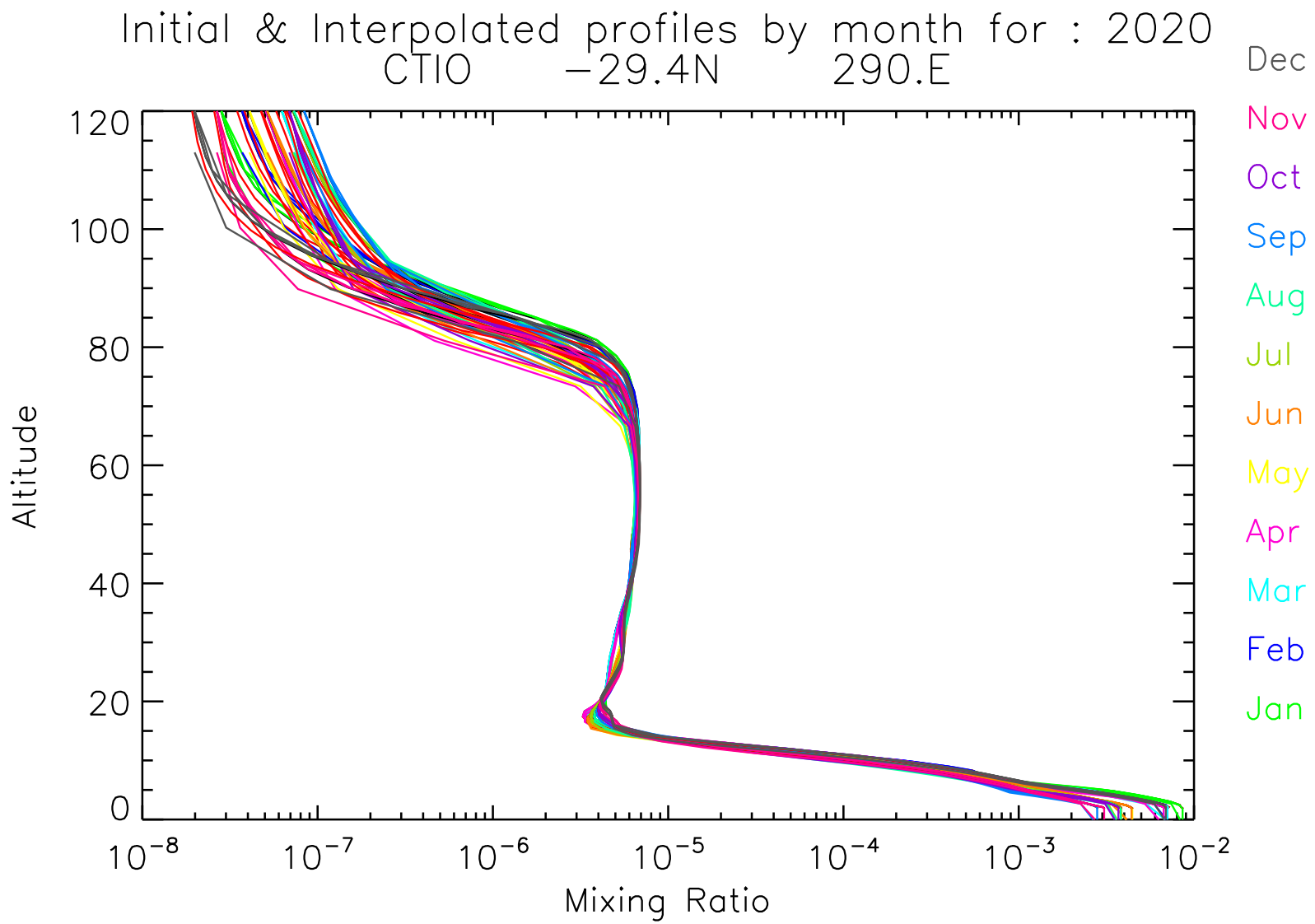

Initial & Interpolated profiles by month for : 2015
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio

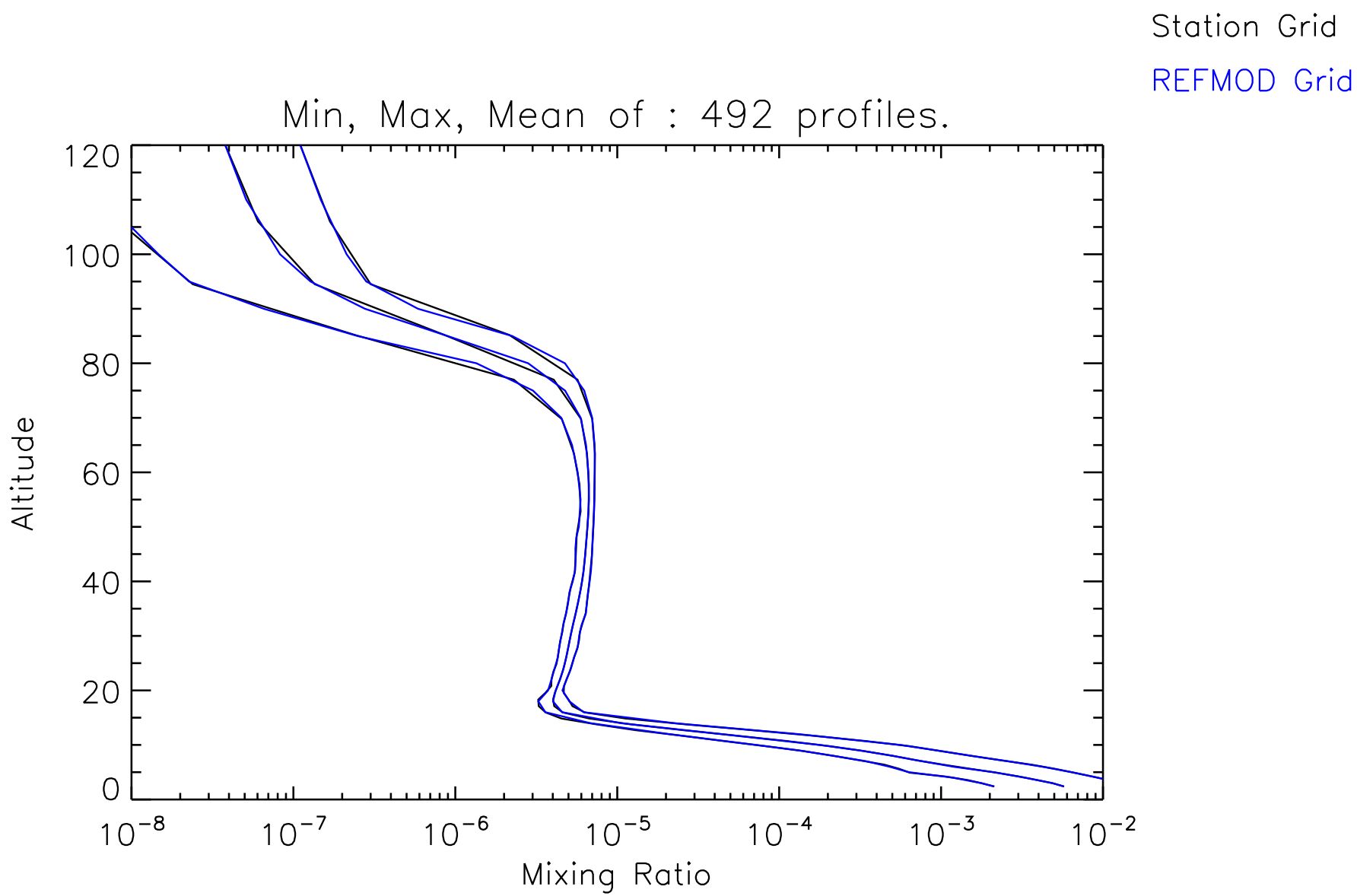

Initial & Interpolated profiles by month for : 2016
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

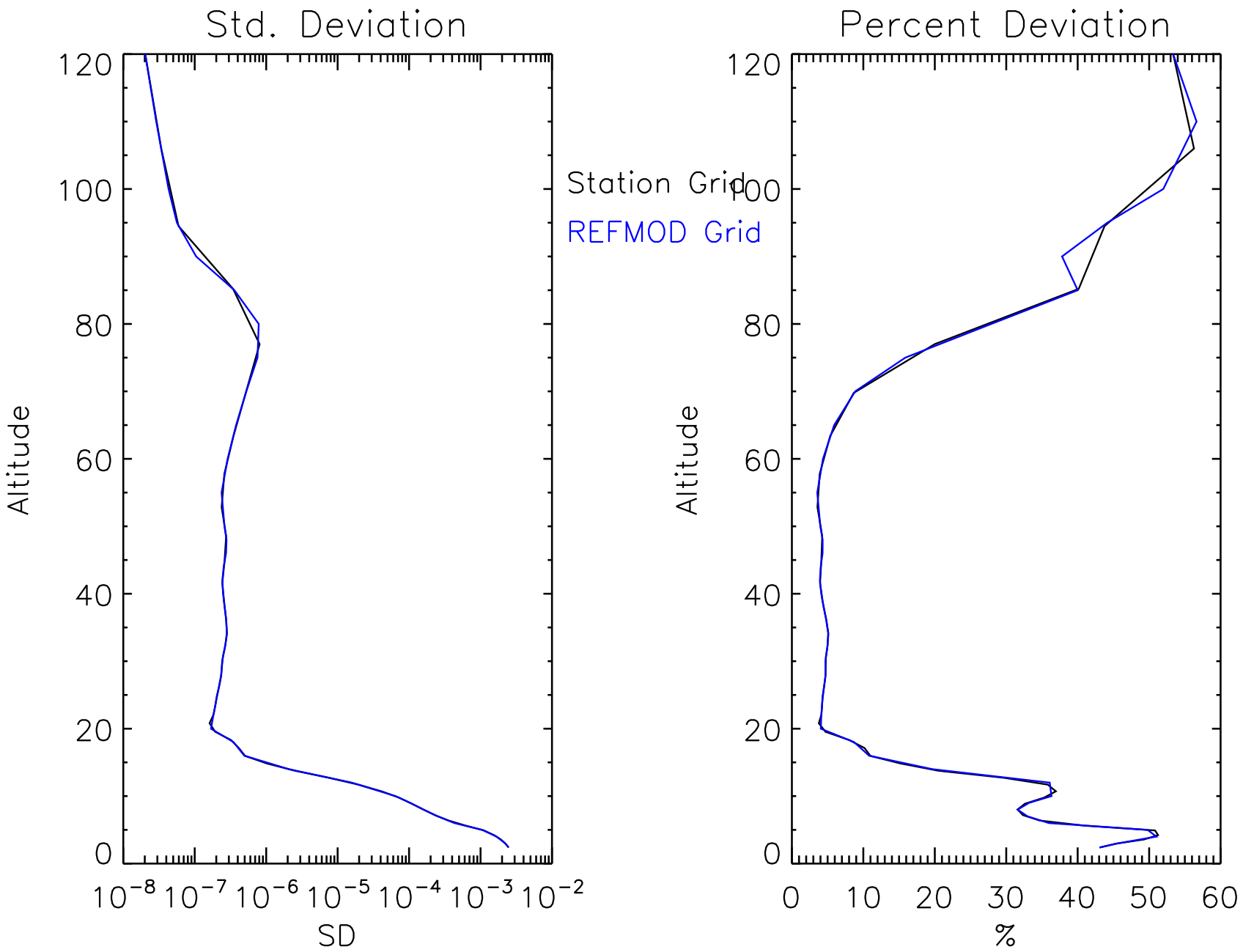

Initial & Interpolated profiles by month for : 2017
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

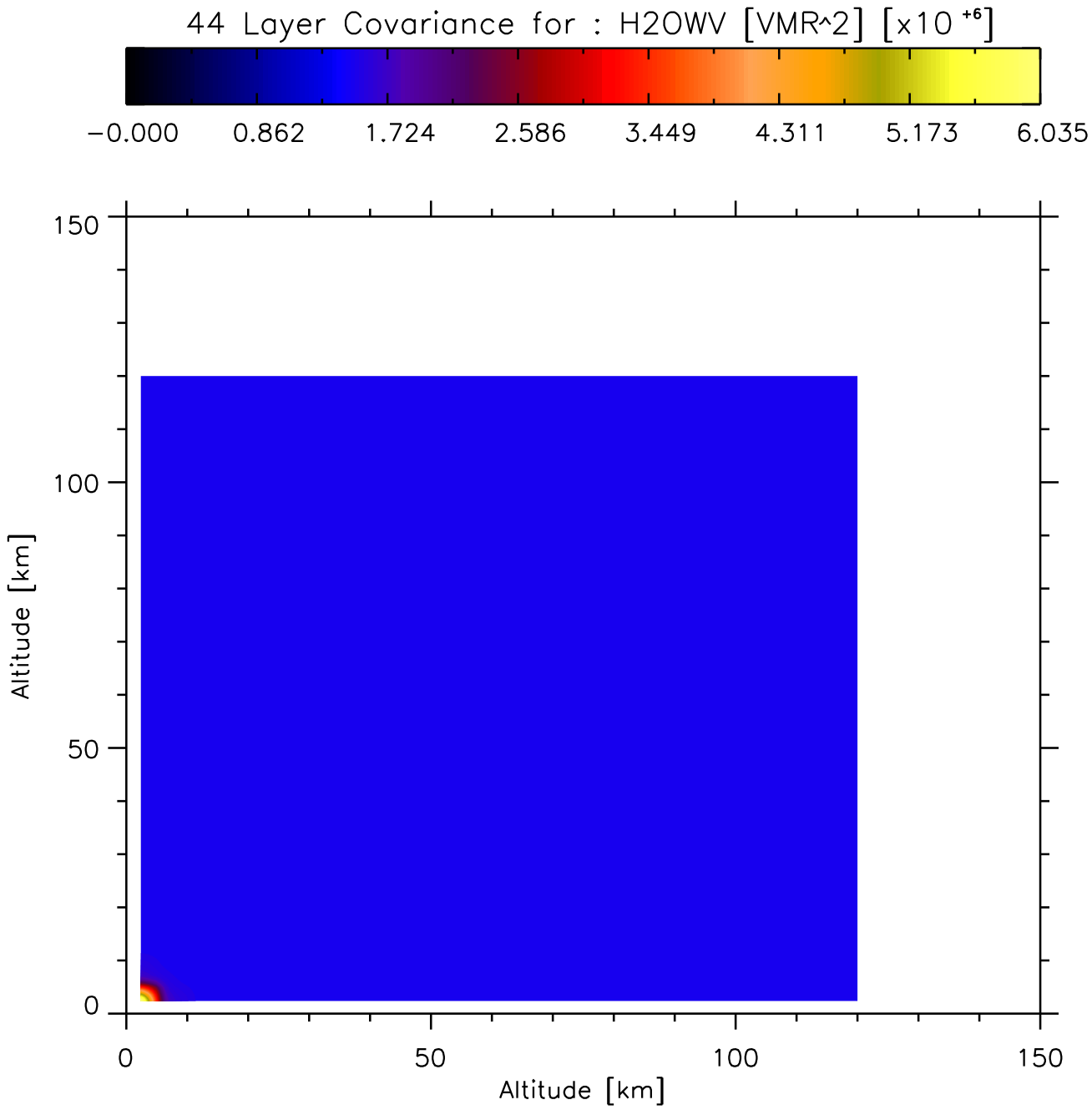

Initial & Interpolated profiles by month for : 2018
CTIO −29.4N 290.E
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

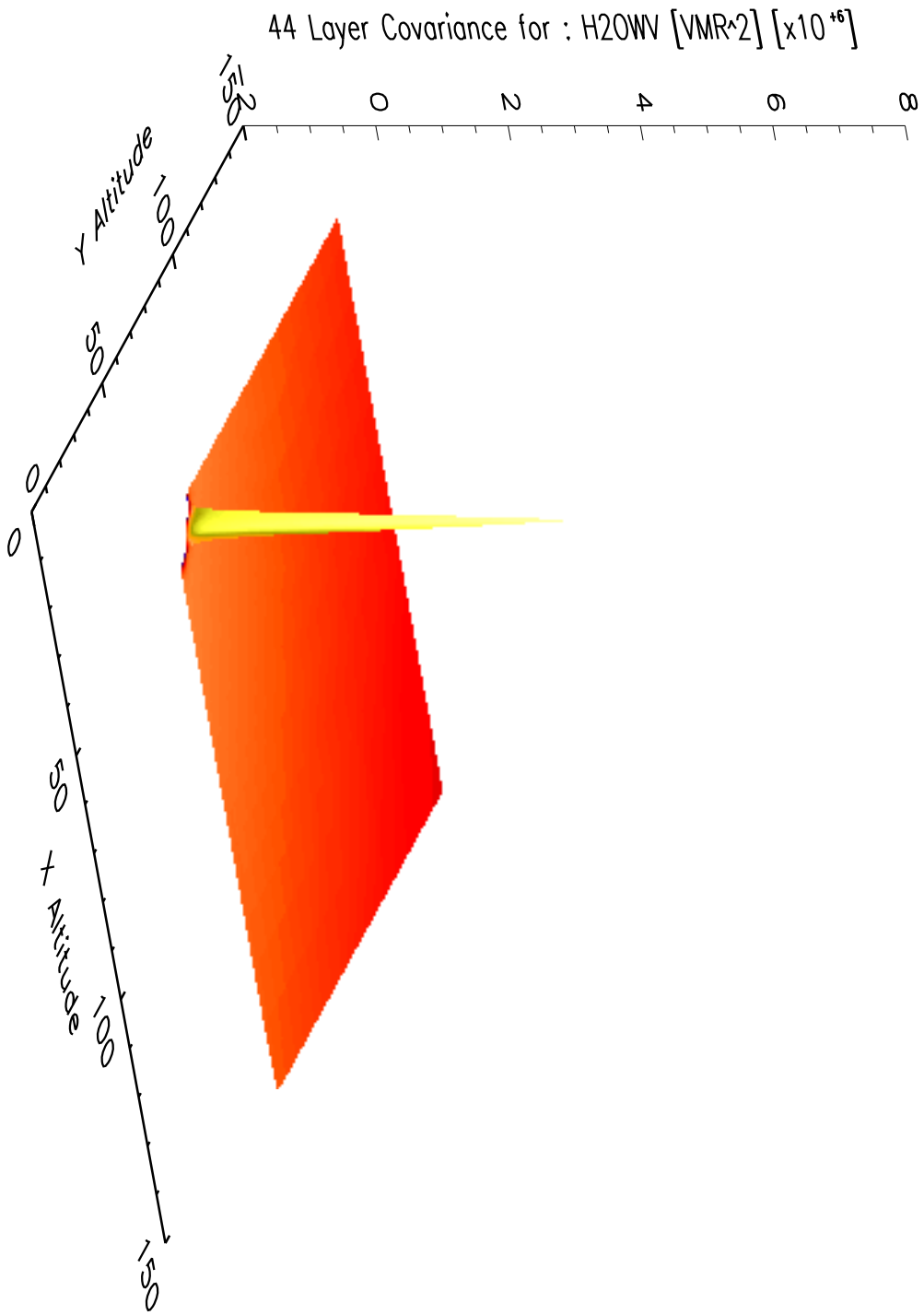

Initial & Interpolated profiles by month for : 2019
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio

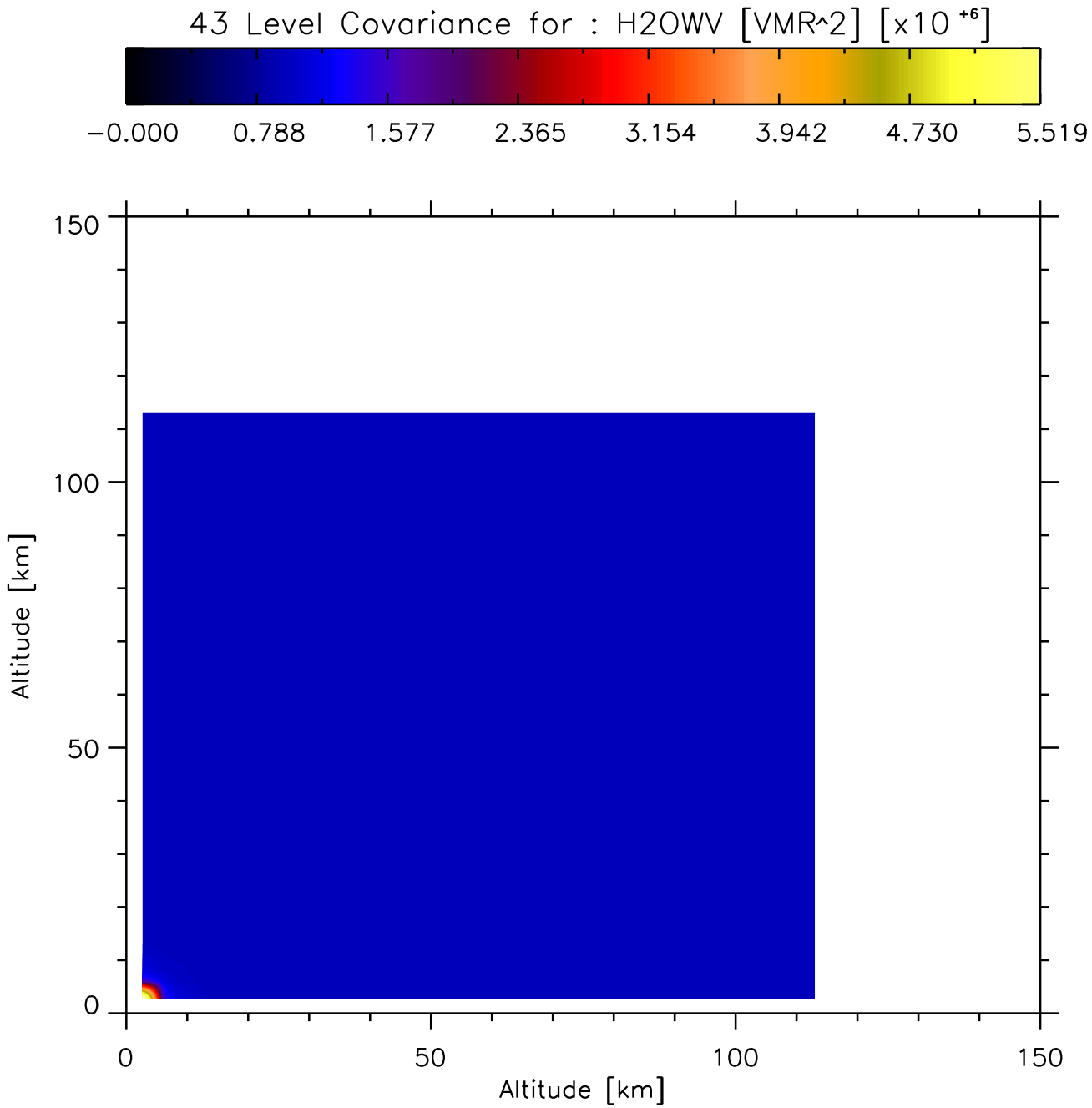

Initial & Interpolated profiles by month for : 2020
CTIO −29.4N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio

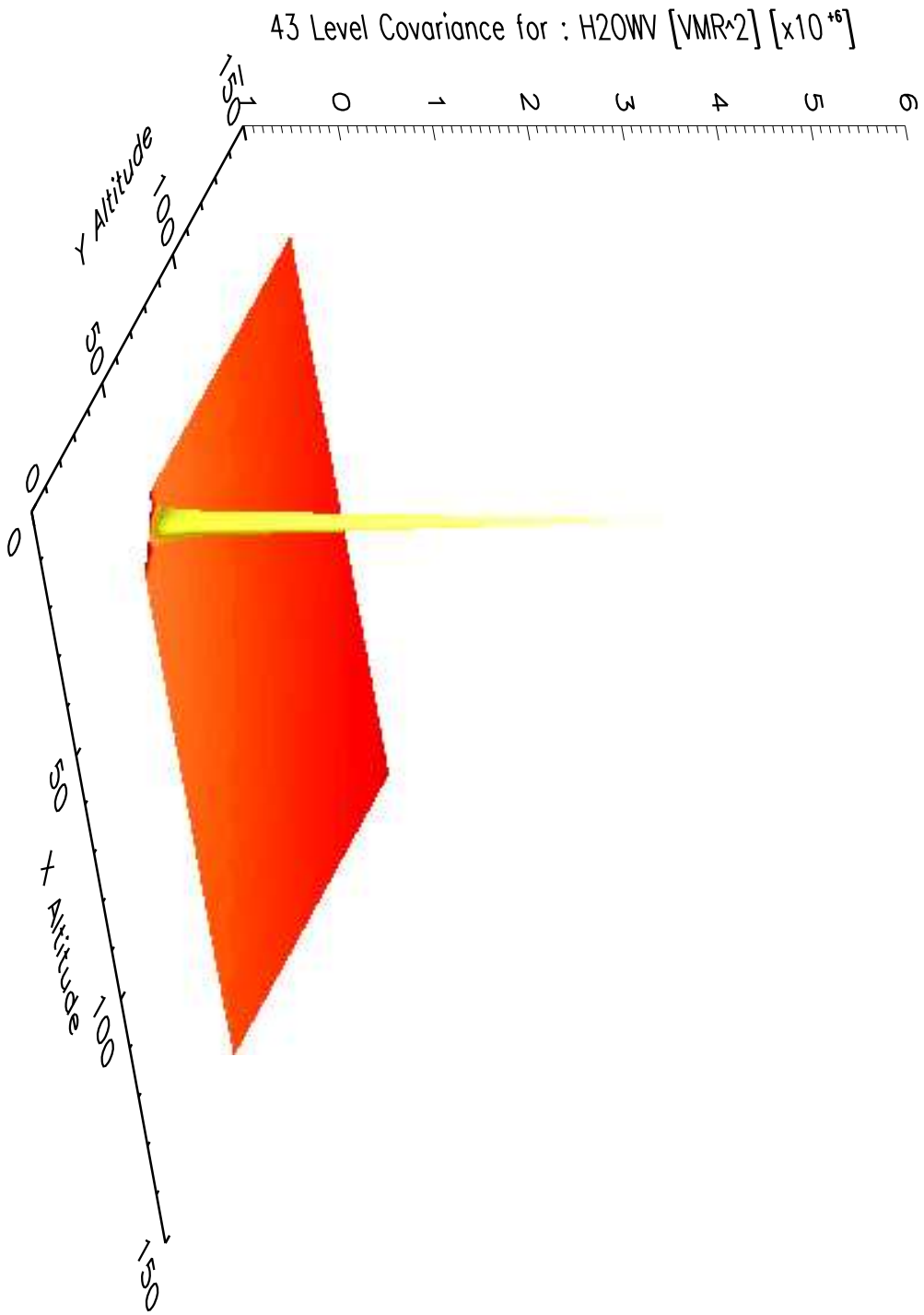

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2}
SD
0 10 20 30 40 50 60
%


44 Layer Covariance for : H2OWV [VMR^2] [x10 +6]
−0.000
0.862
1.724
2.586
3.449
4.311
5.173
6.035
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


44 Layer Covariance for : H2OWV [VMR^2] [x10^+6]
0
2
4
6
8
Y Altitude
0
50
100
150
0
50
100
150
X Altitude


43 Level Covariance for : H2OWV [VMR^2] [x10 +6]
−0.000
0.788
1.577
2.365
3.154
3.942
4.730
5.519
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


43 Level Covariance for : H2OWV [VMR^2] [x10^-6]
0
1
2
3
4
5
6
Y Altitude
0
50
100
150
X Altitude
0
50
100
150