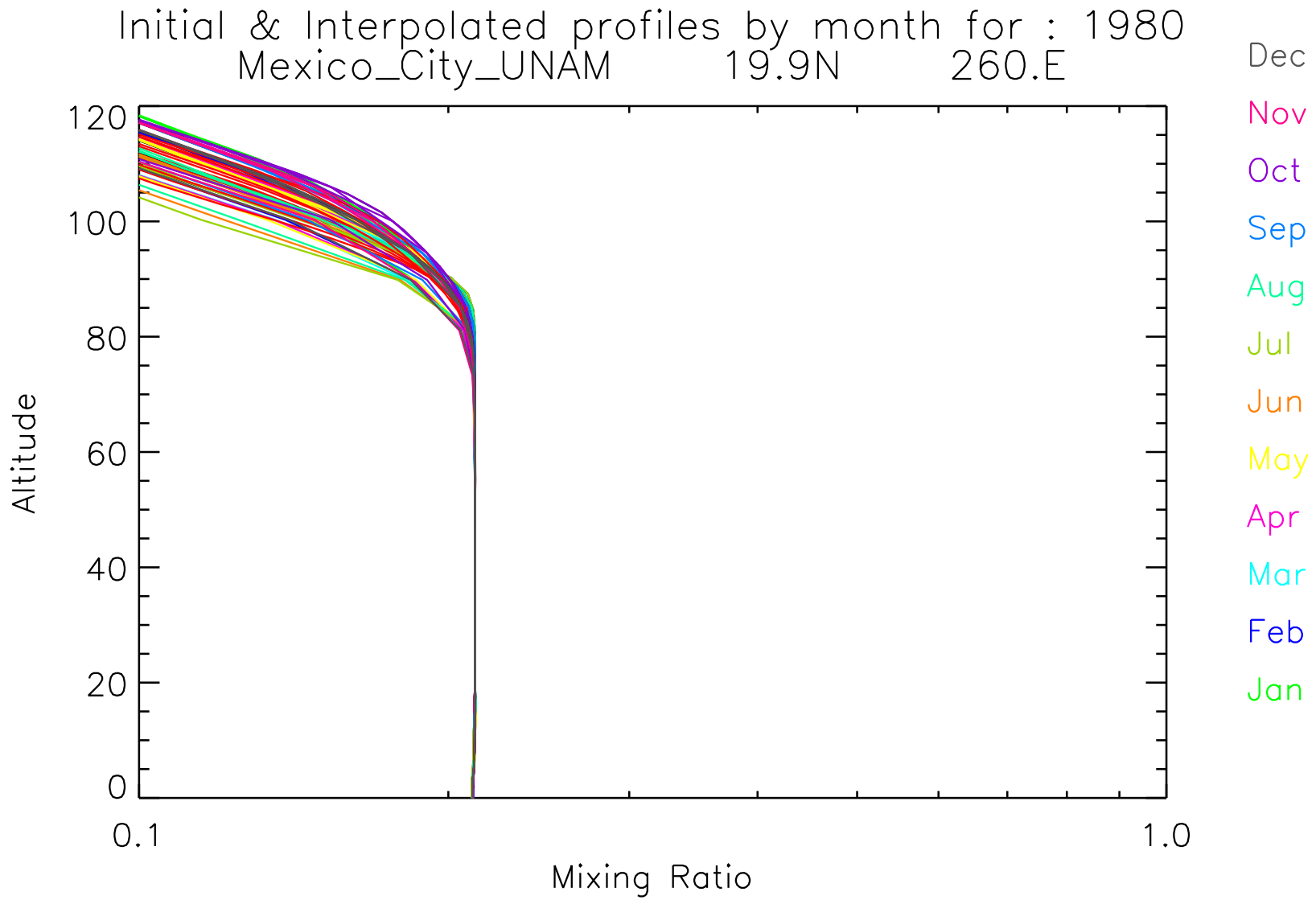
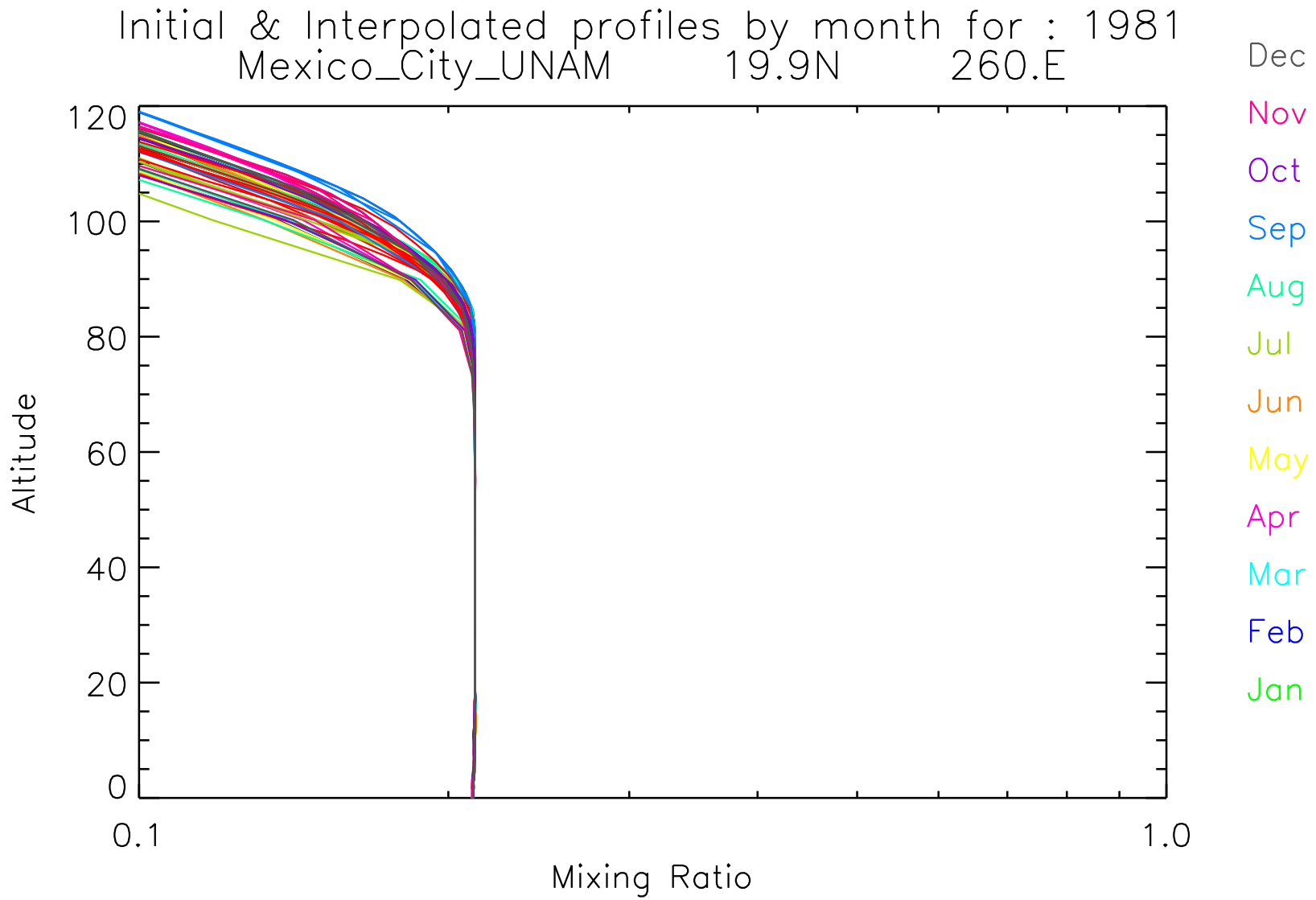
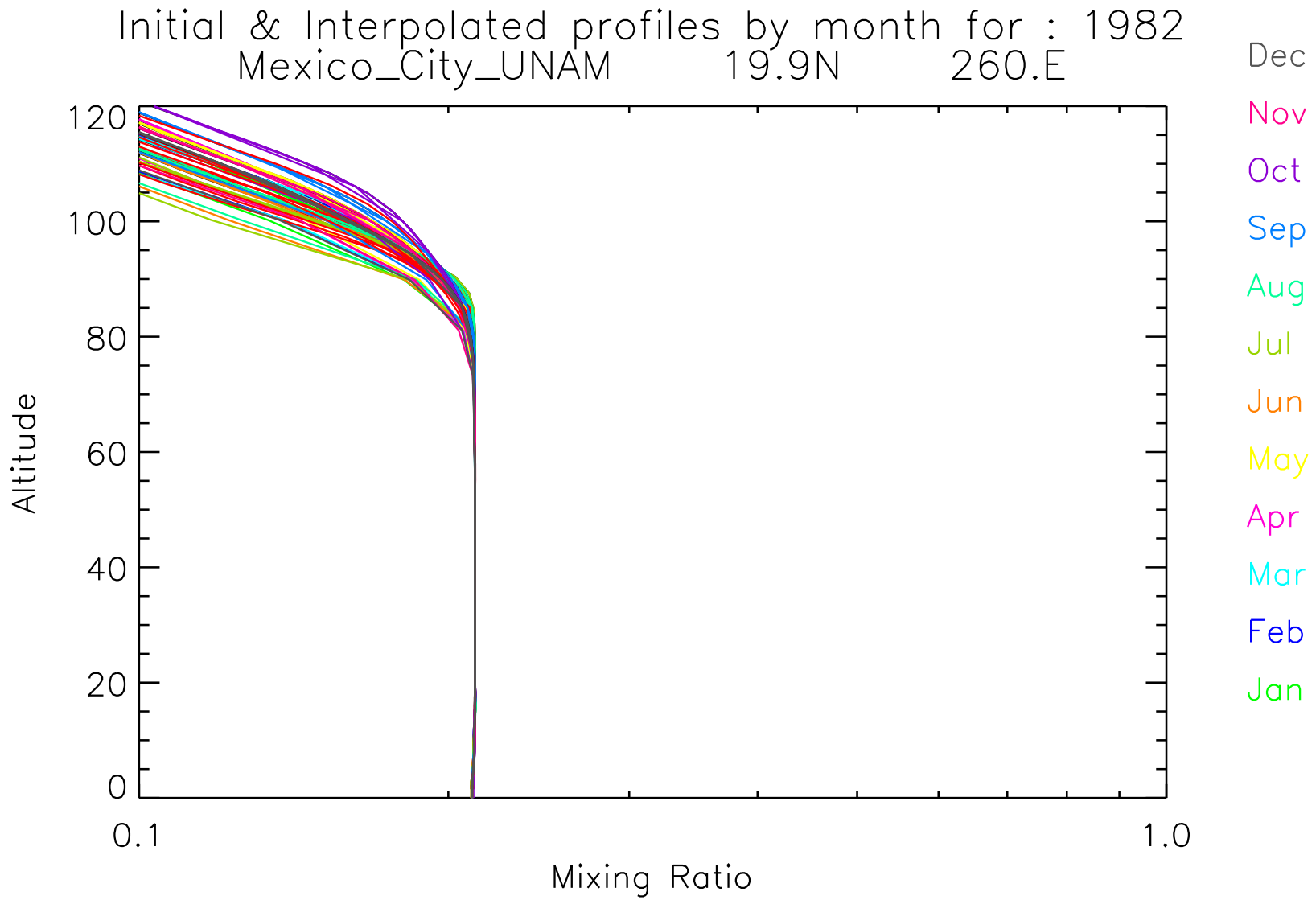
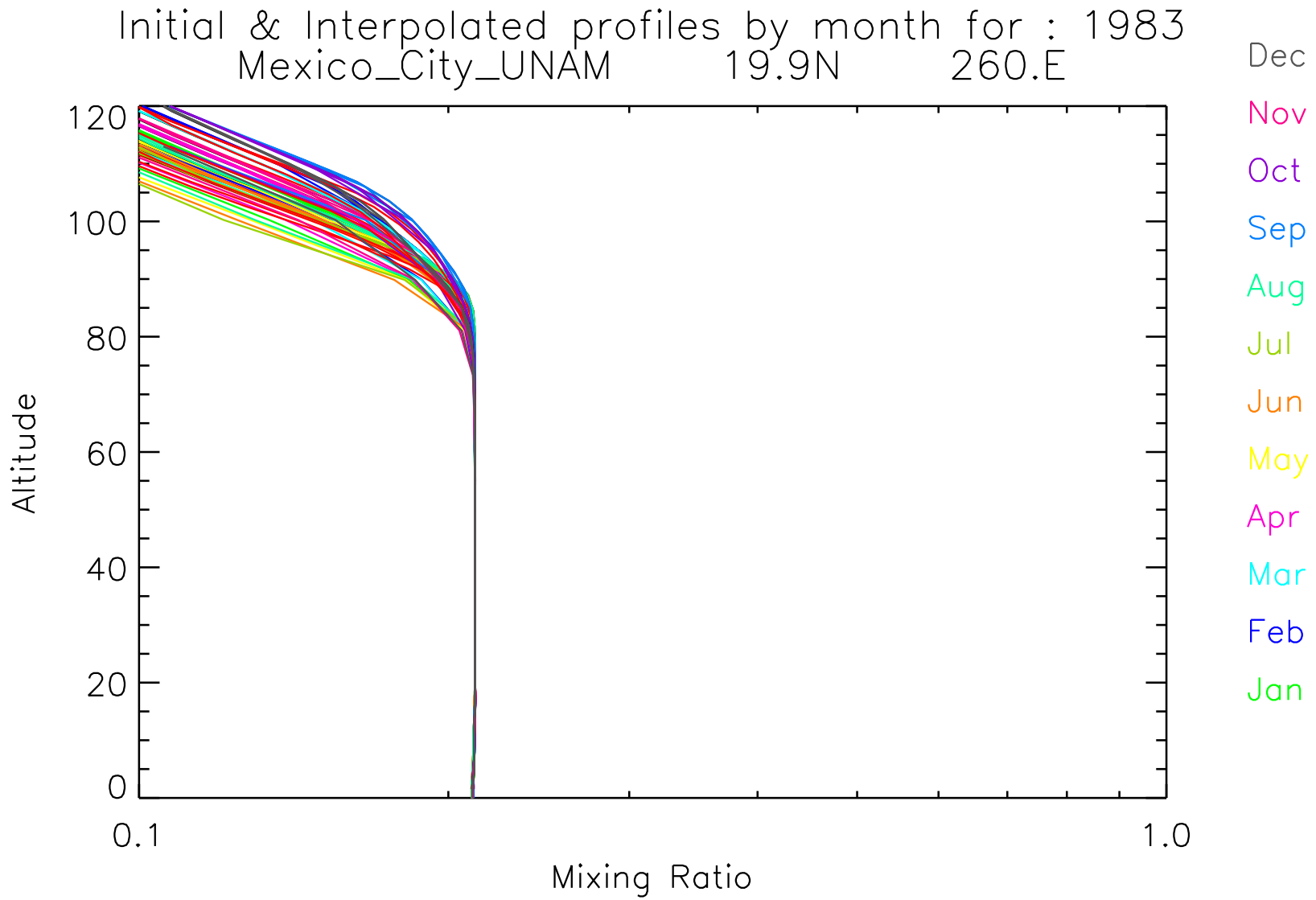
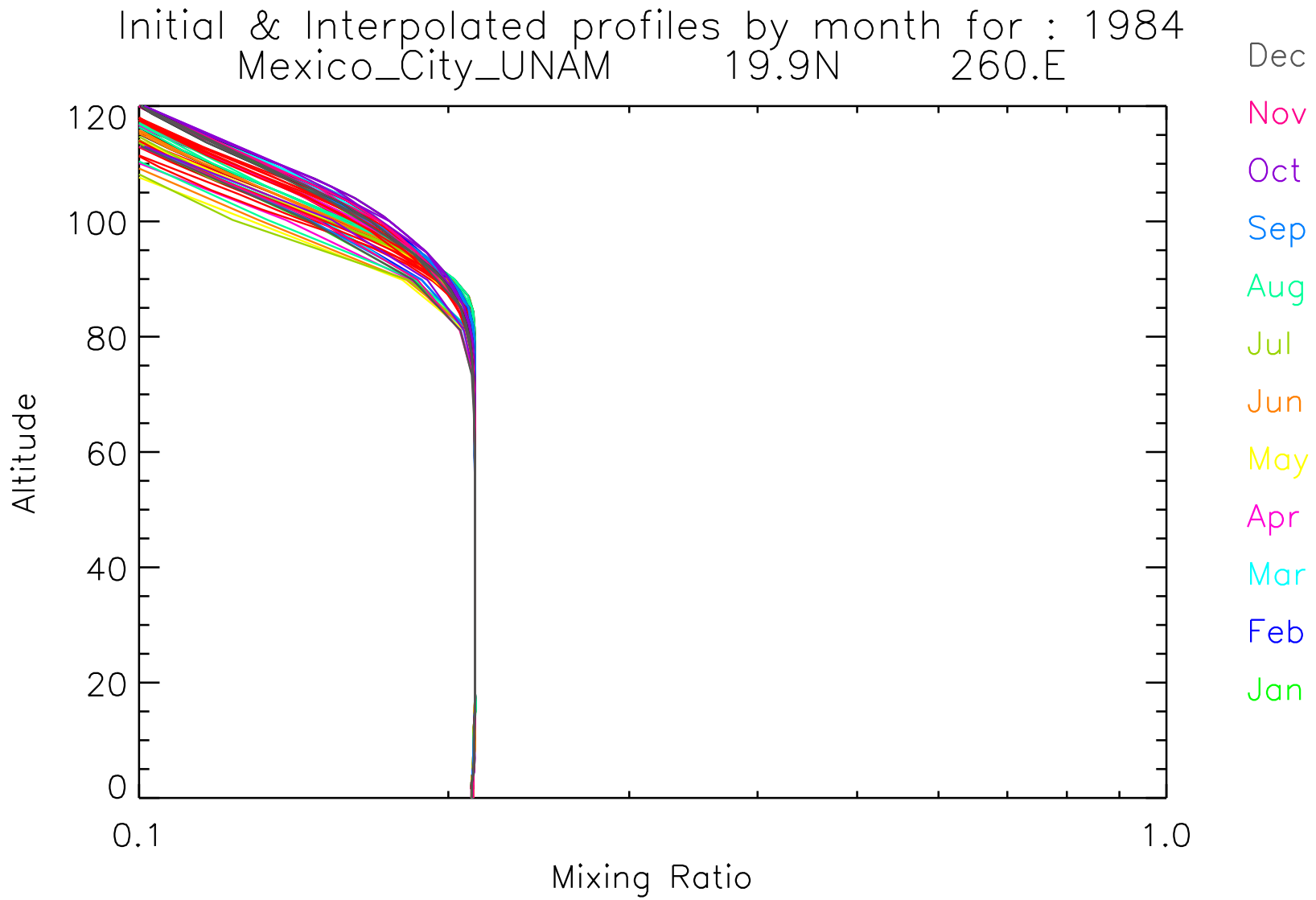
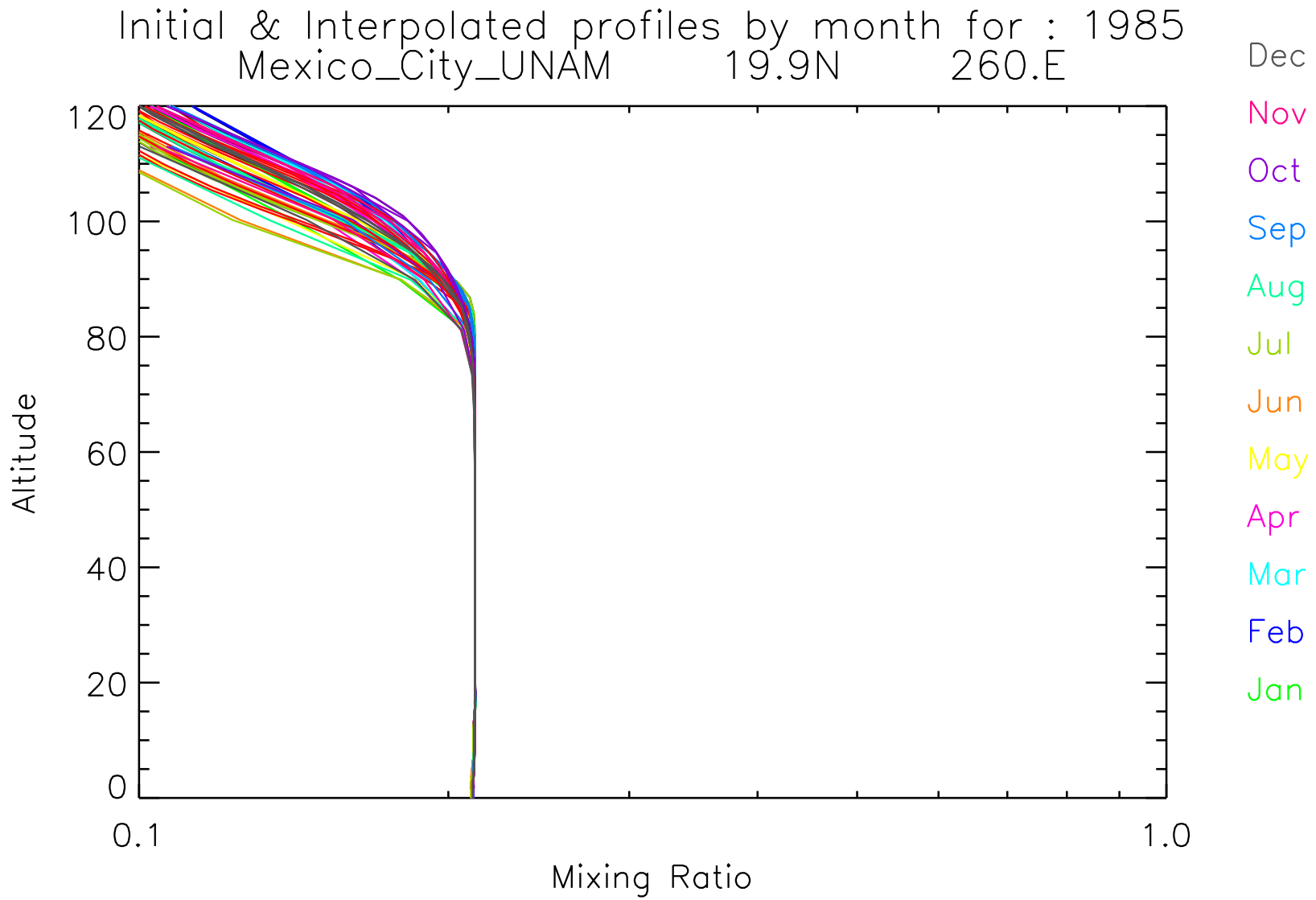

Initial & Interpolated profiles by month for : 1980
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

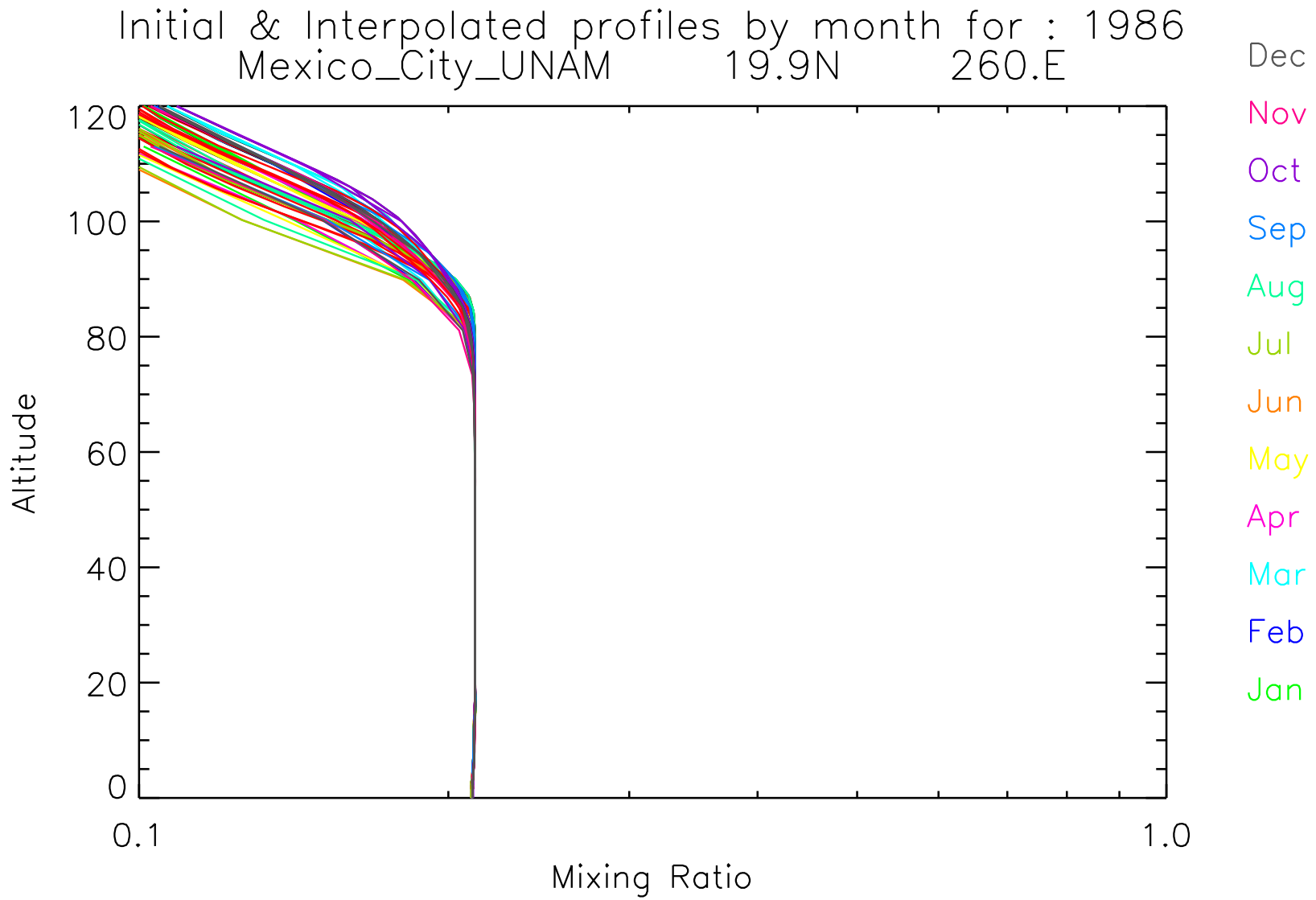

Initial & Interpolated profiles by month for : 1981
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

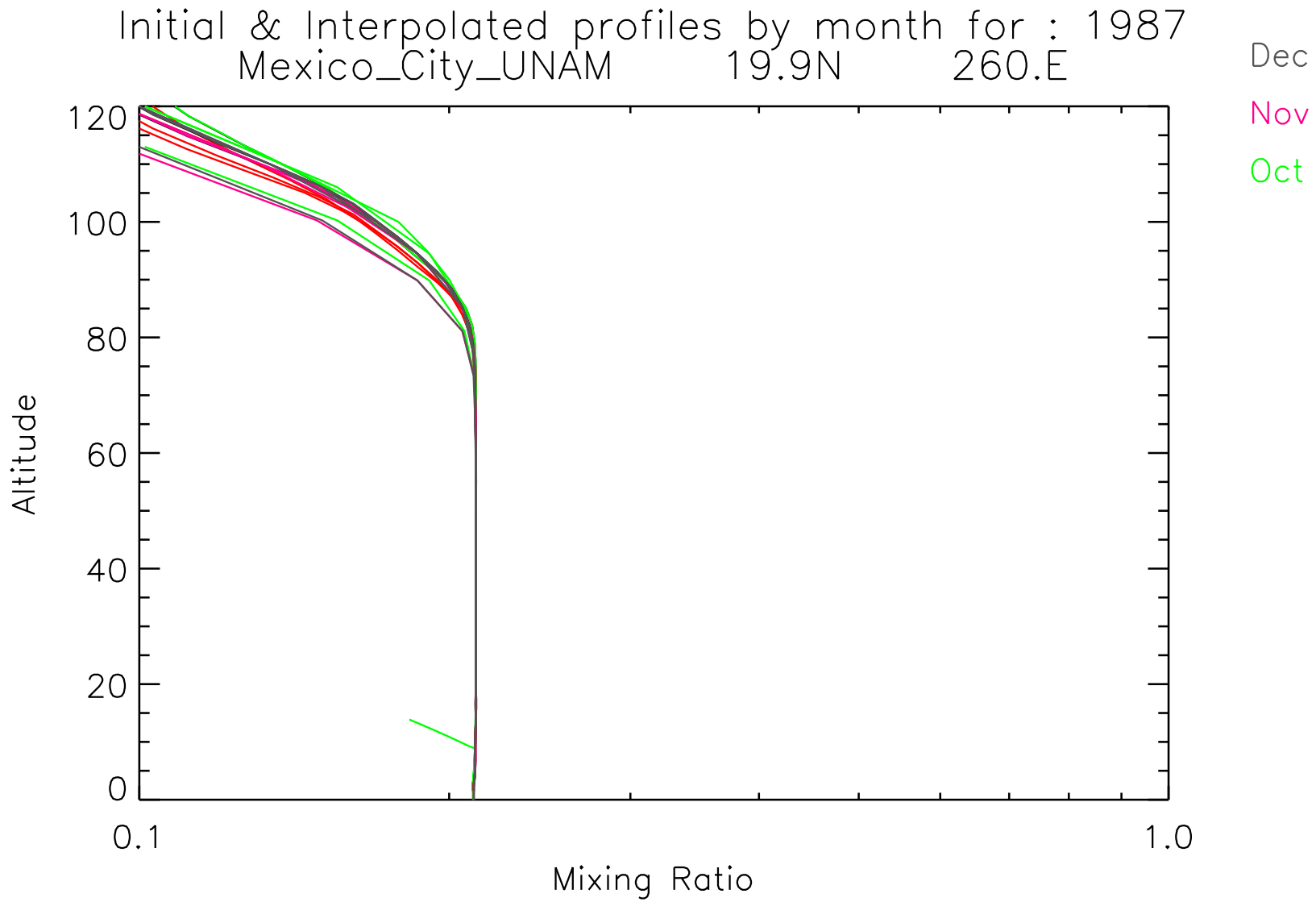

Initial & Interpolated profiles by month for : 1982
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

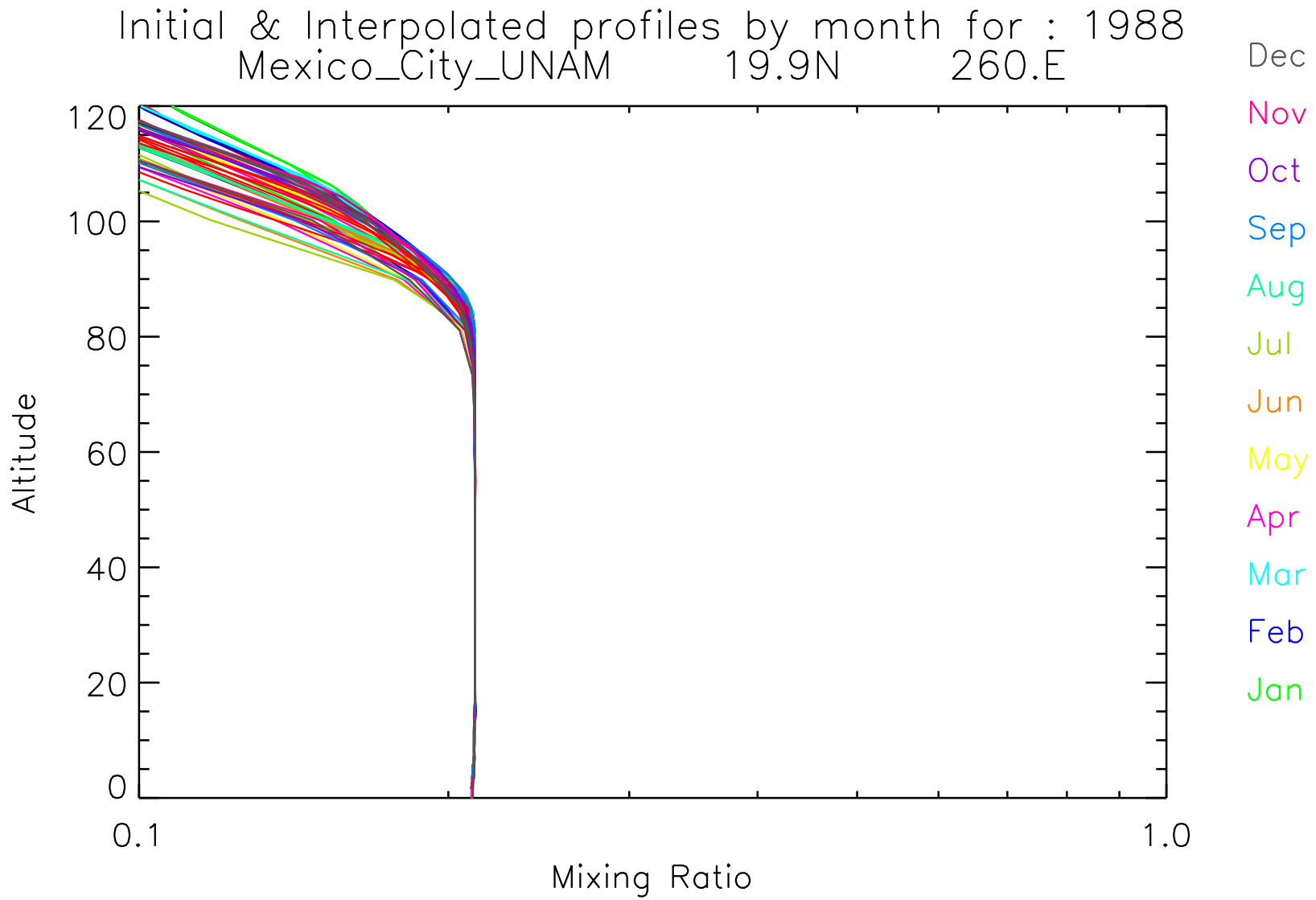

Initial & Interpolated profiles by month for : 1983
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

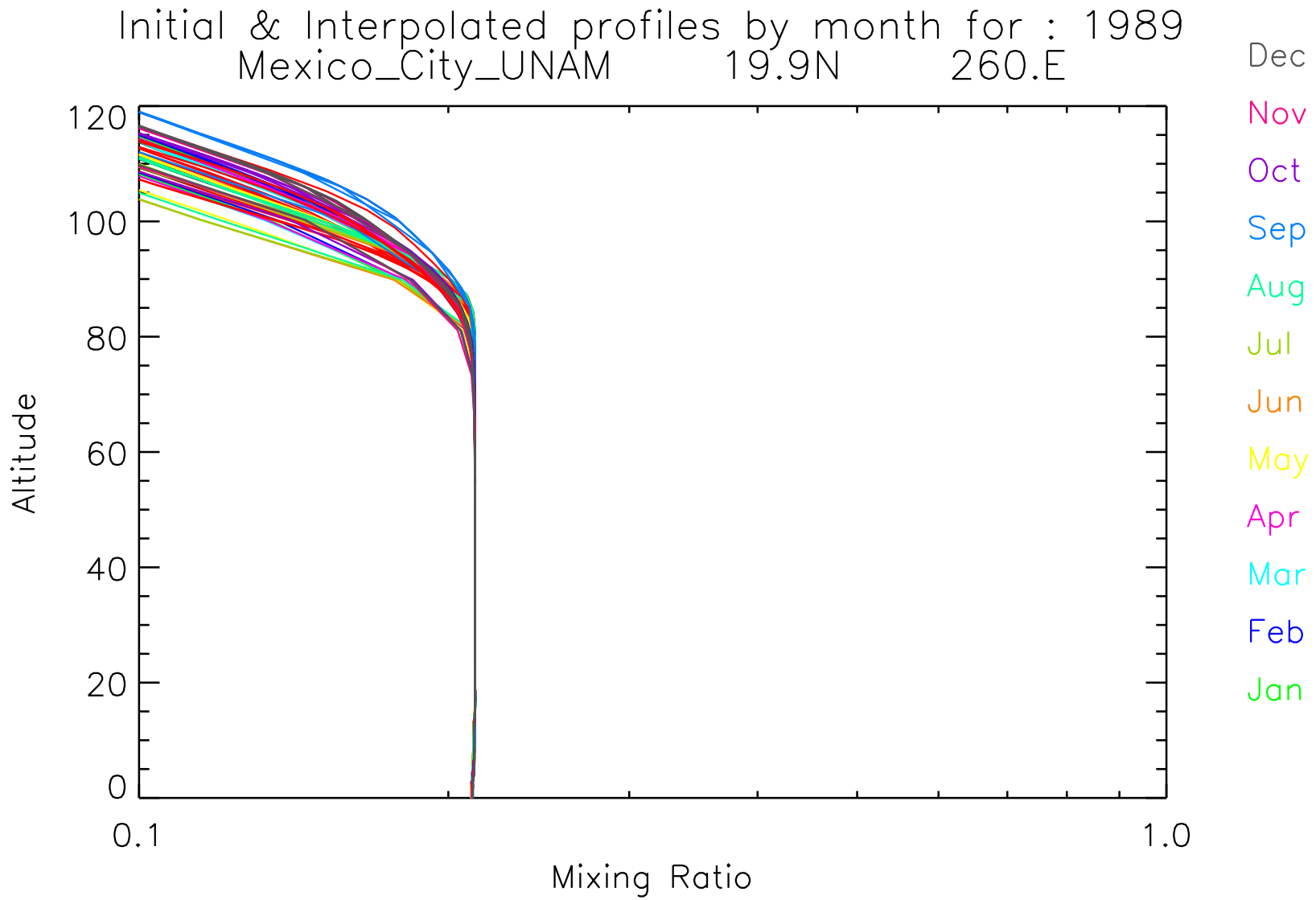

Initial & Interpolated profiles by month for : 1984
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

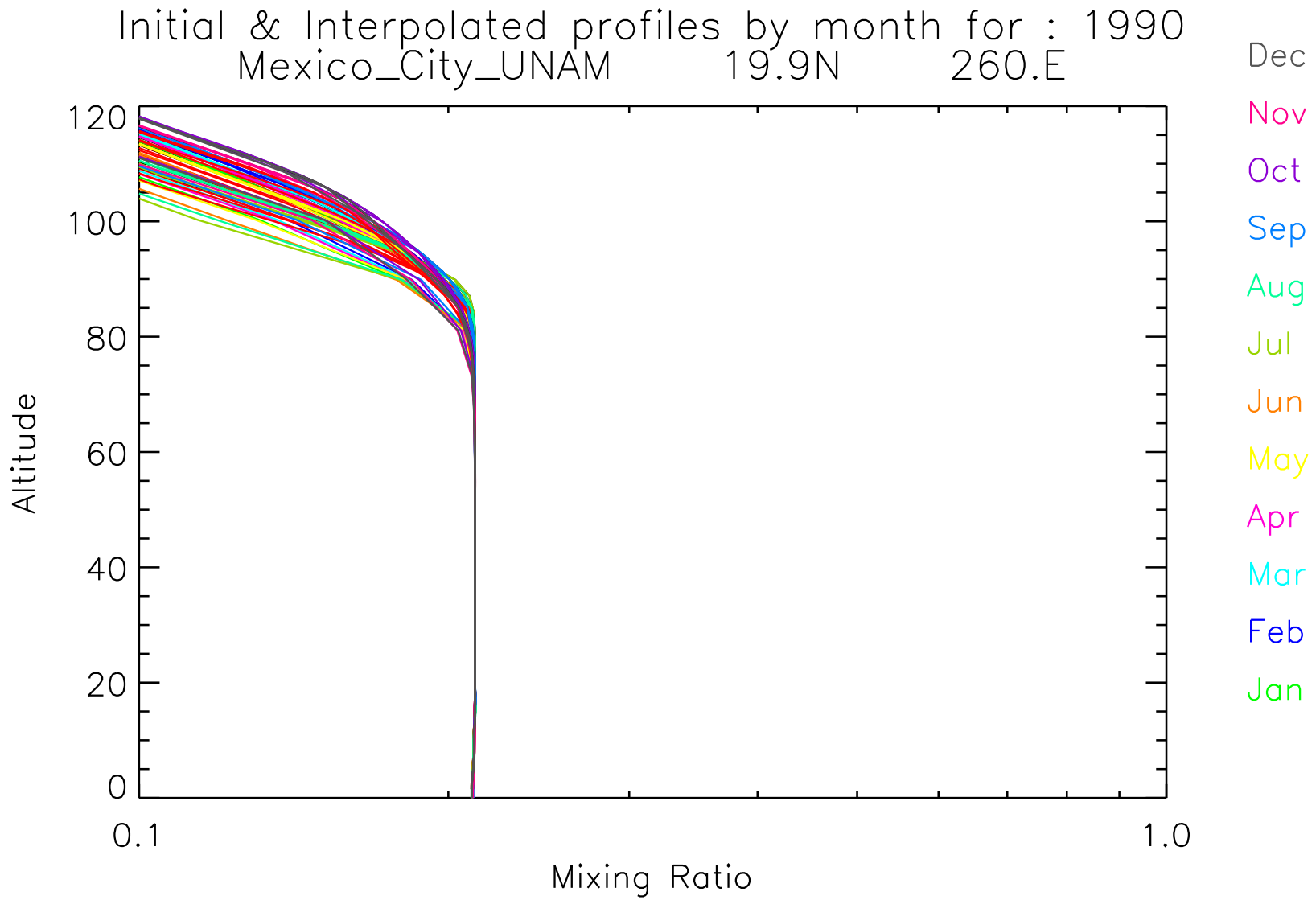

Initial & Interpolated profiles by month for : 1985
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

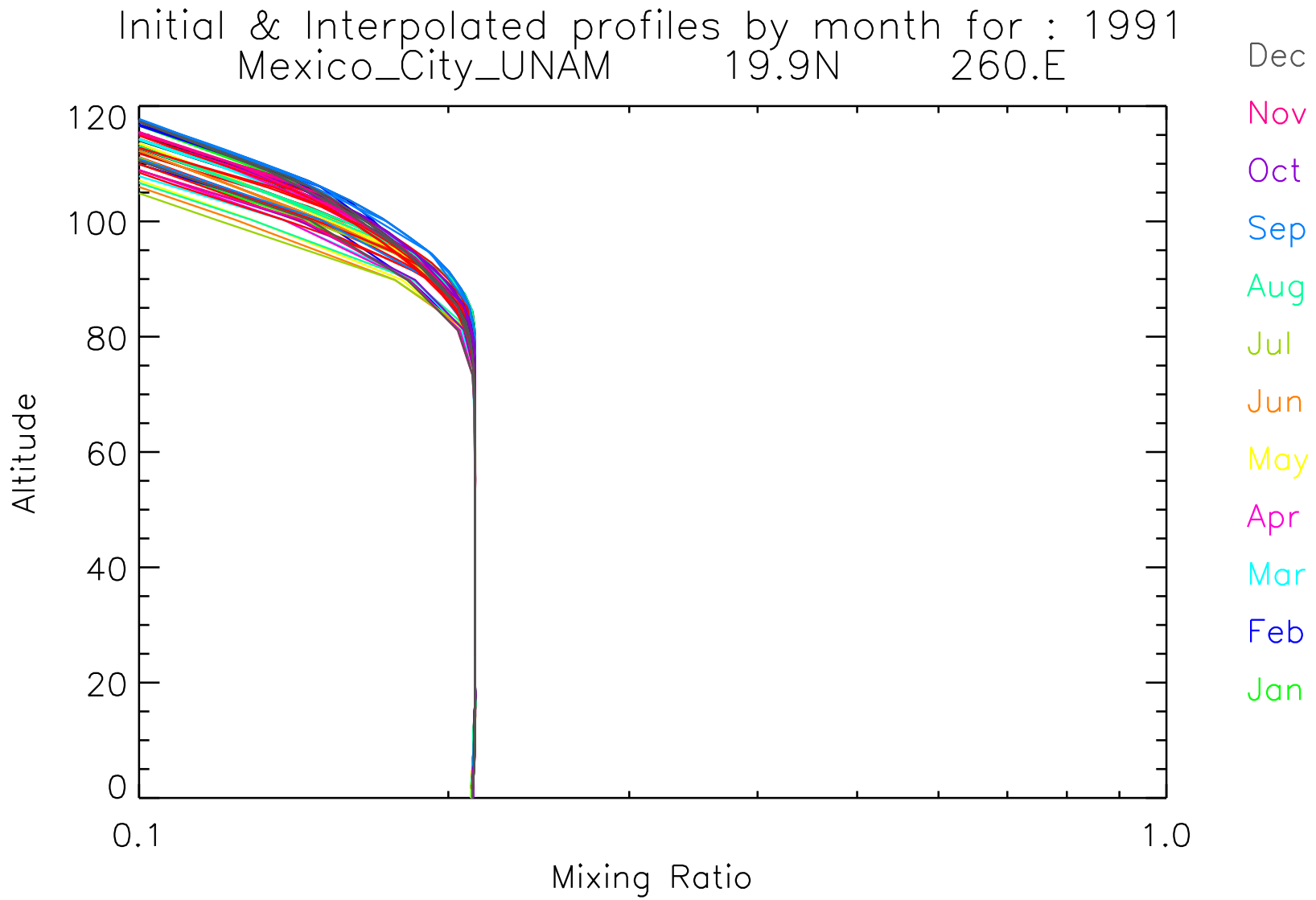

Initial & Interpolated profiles by month for : 1986
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

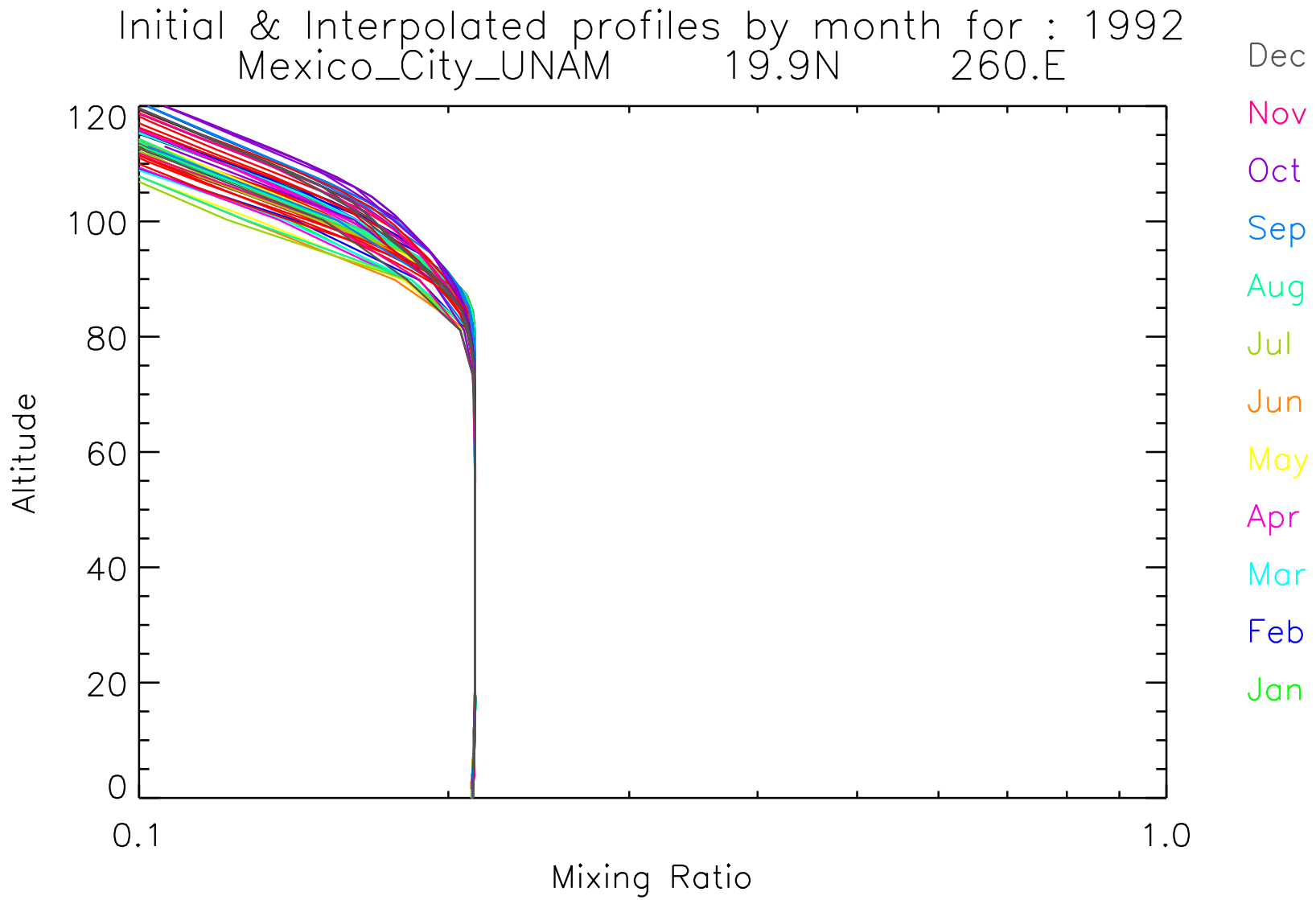

Initial & Interpolated profiles by month for : 1987
Mexico_City_UNAM 19.9N 260.E
Dec
Nov
Oct
120
100
80
60
40
20
0
Altitude
0.1
1.0
Mixing Ratio

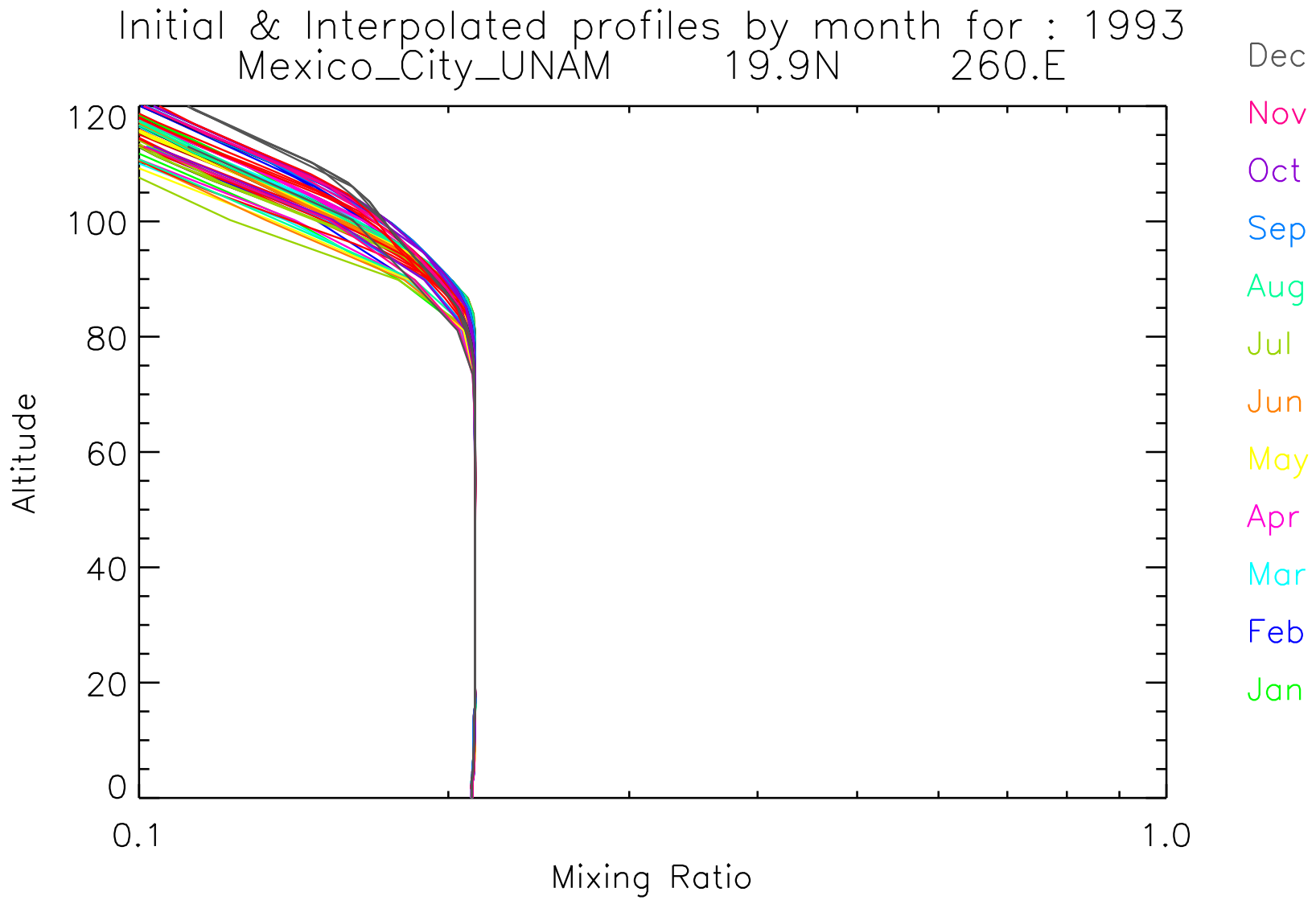

Initial & Interpolated profiles by month for : 1988
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

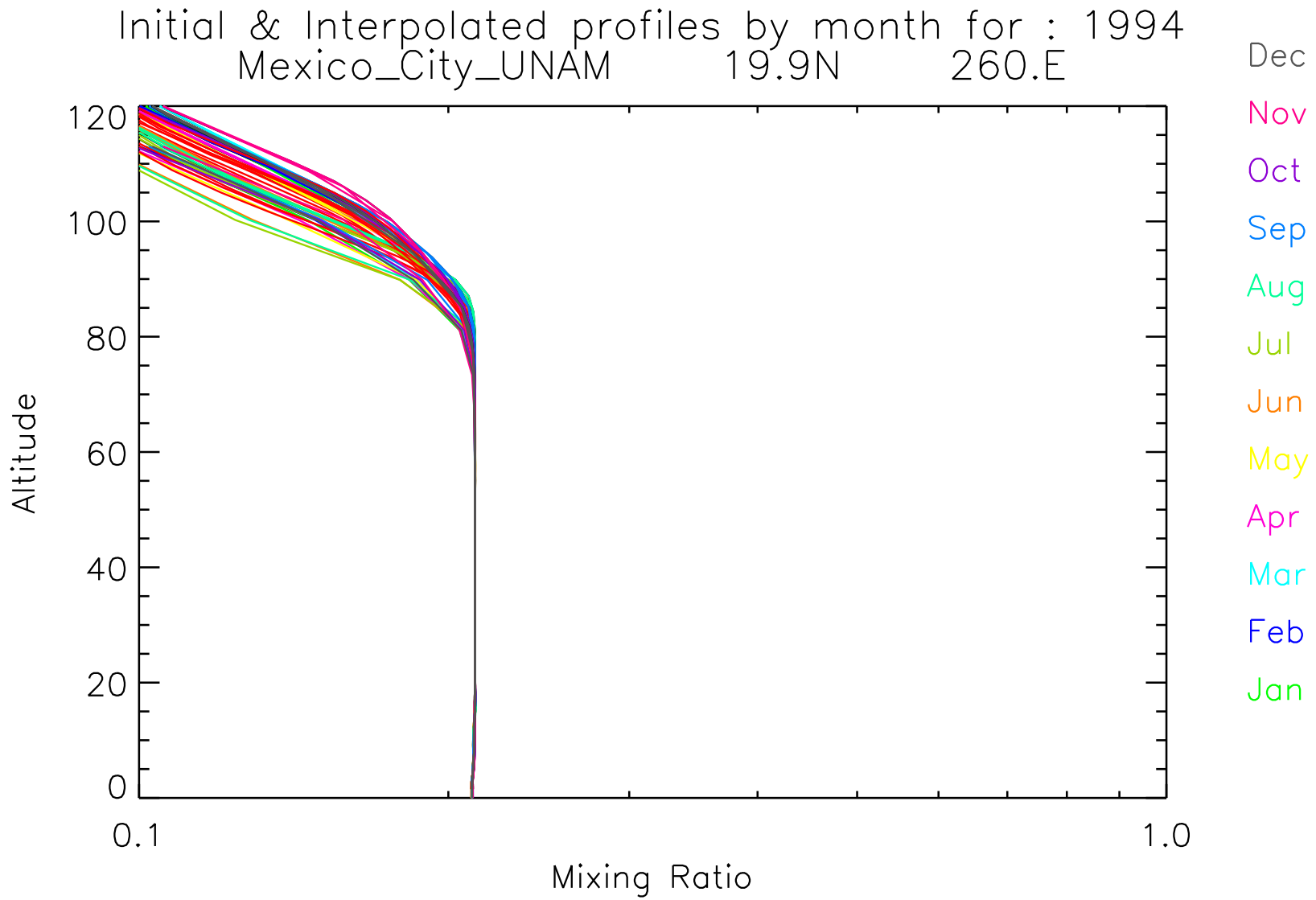

Initial & Interpolated profiles by month for : 1989
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

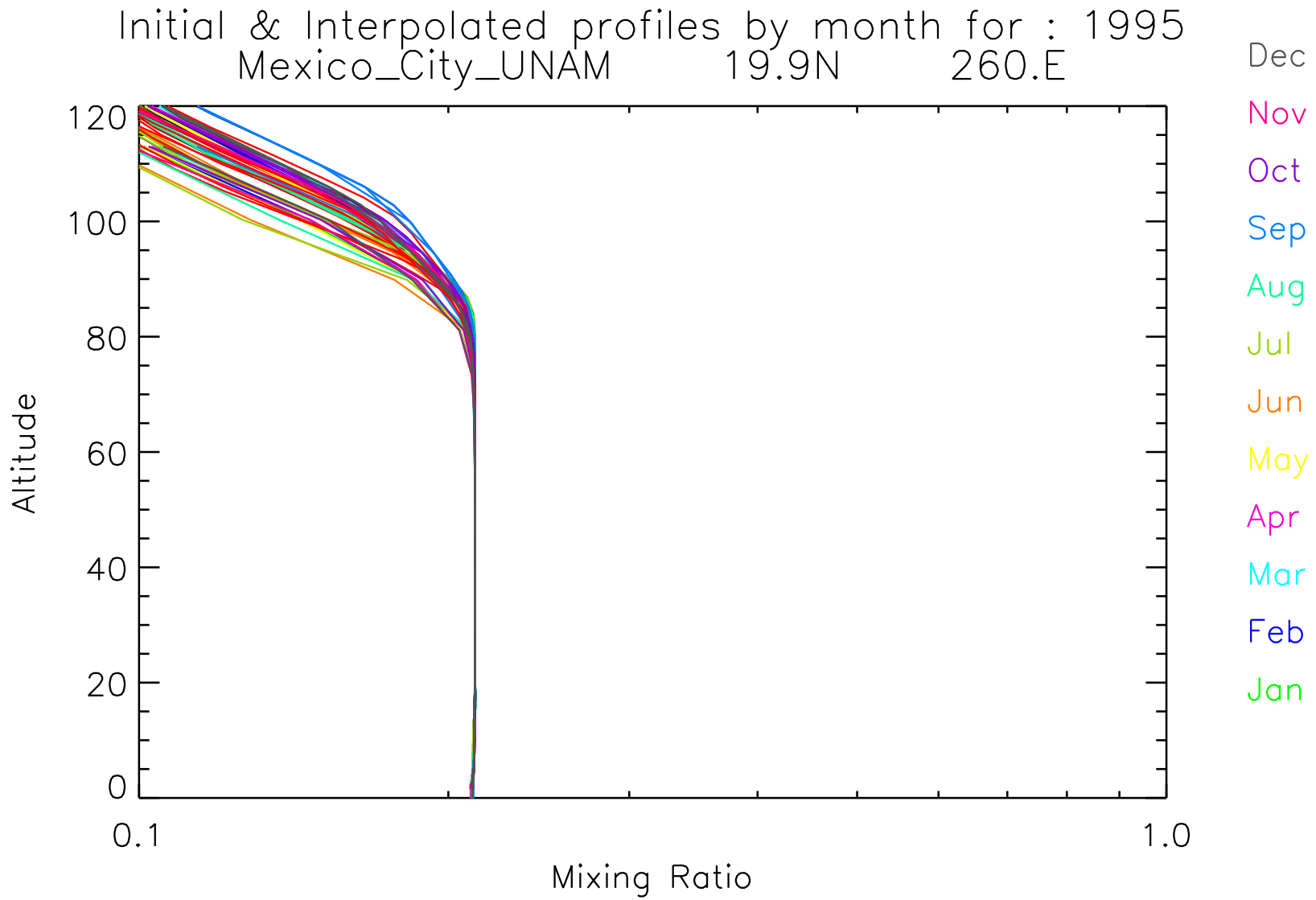

Initial & Interpolated profiles by month for : 1990
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

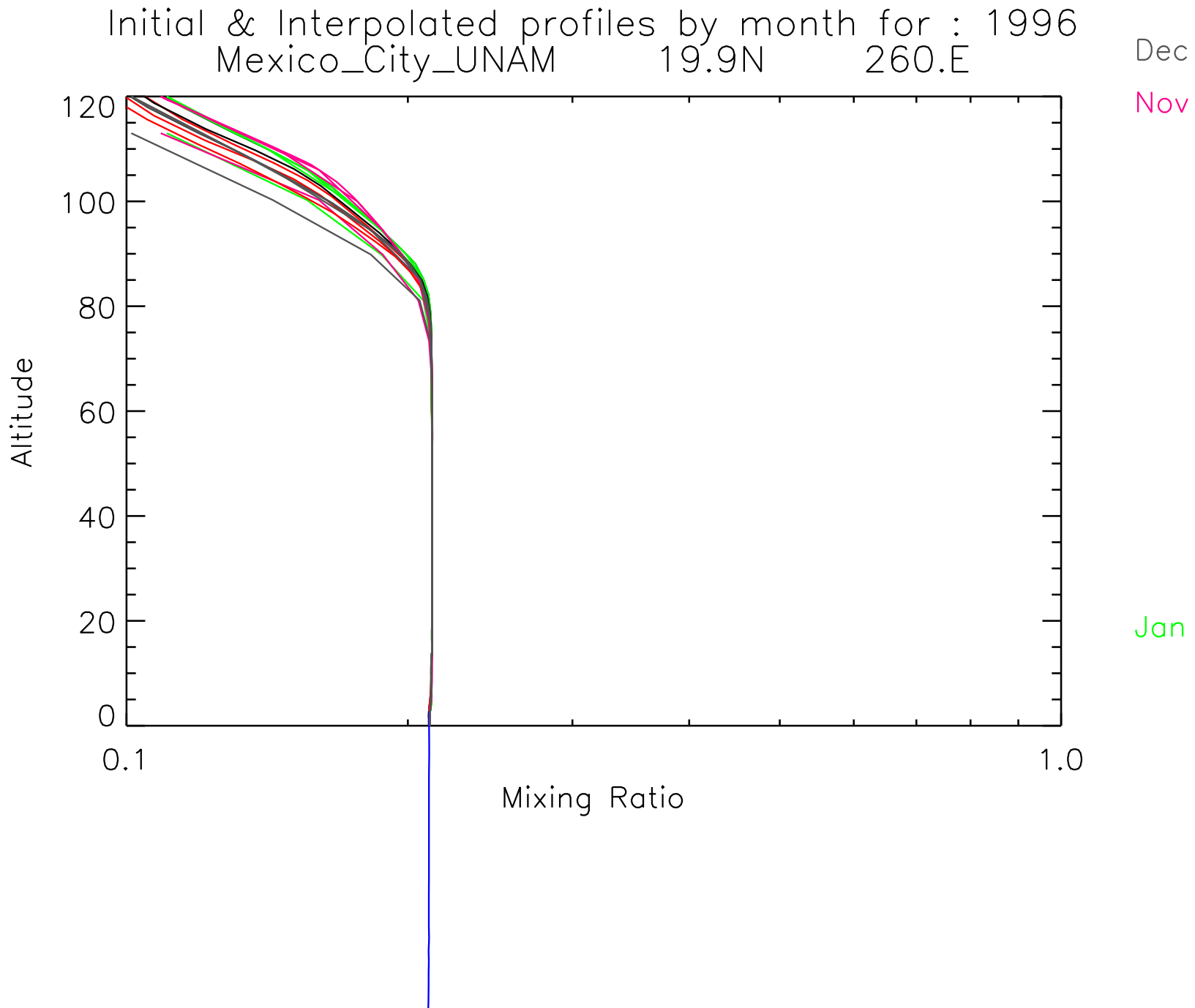

Initial & Interpolated profiles by month for : 1991
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

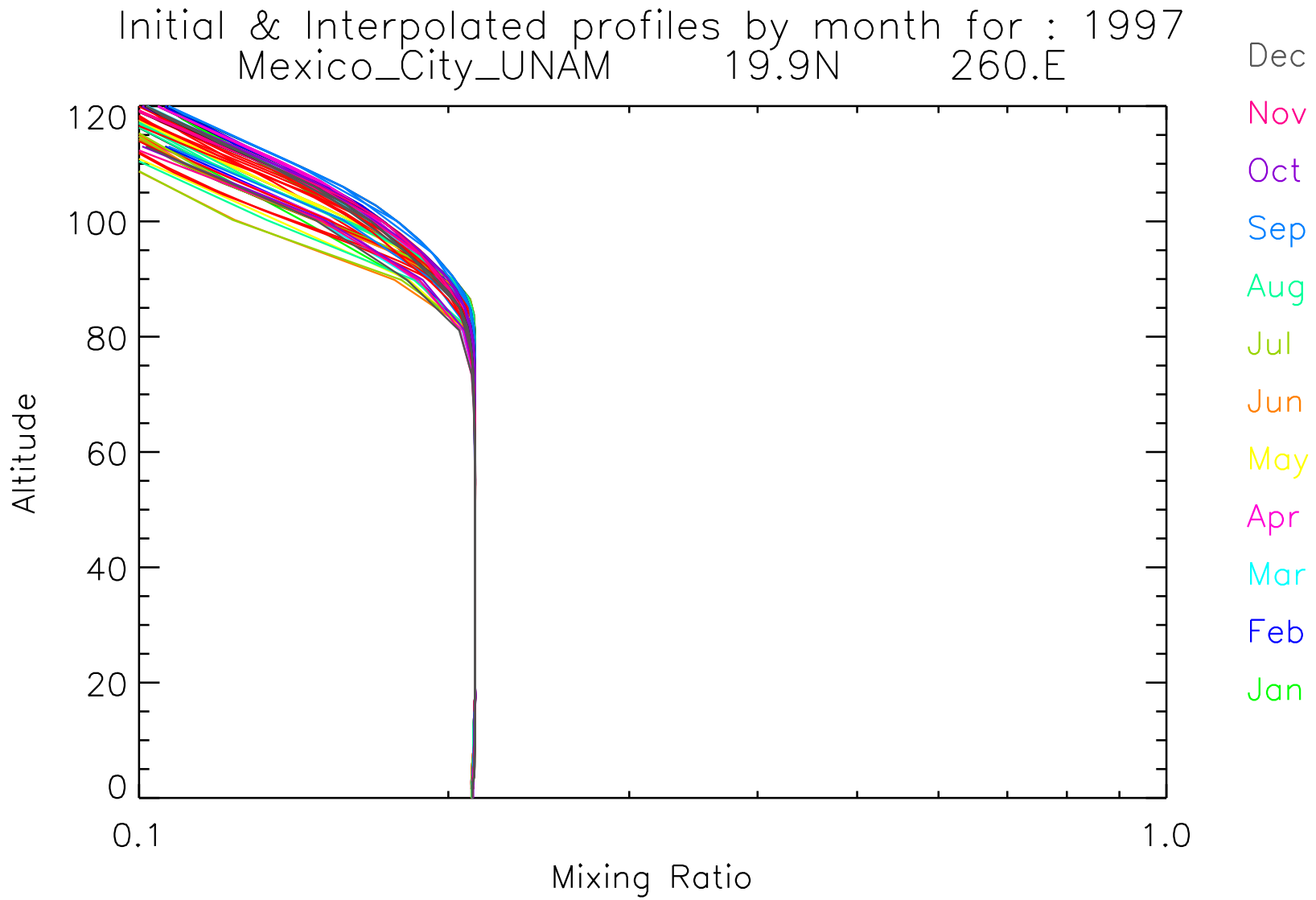

Initial & Interpolated profiles by month for : 1992
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

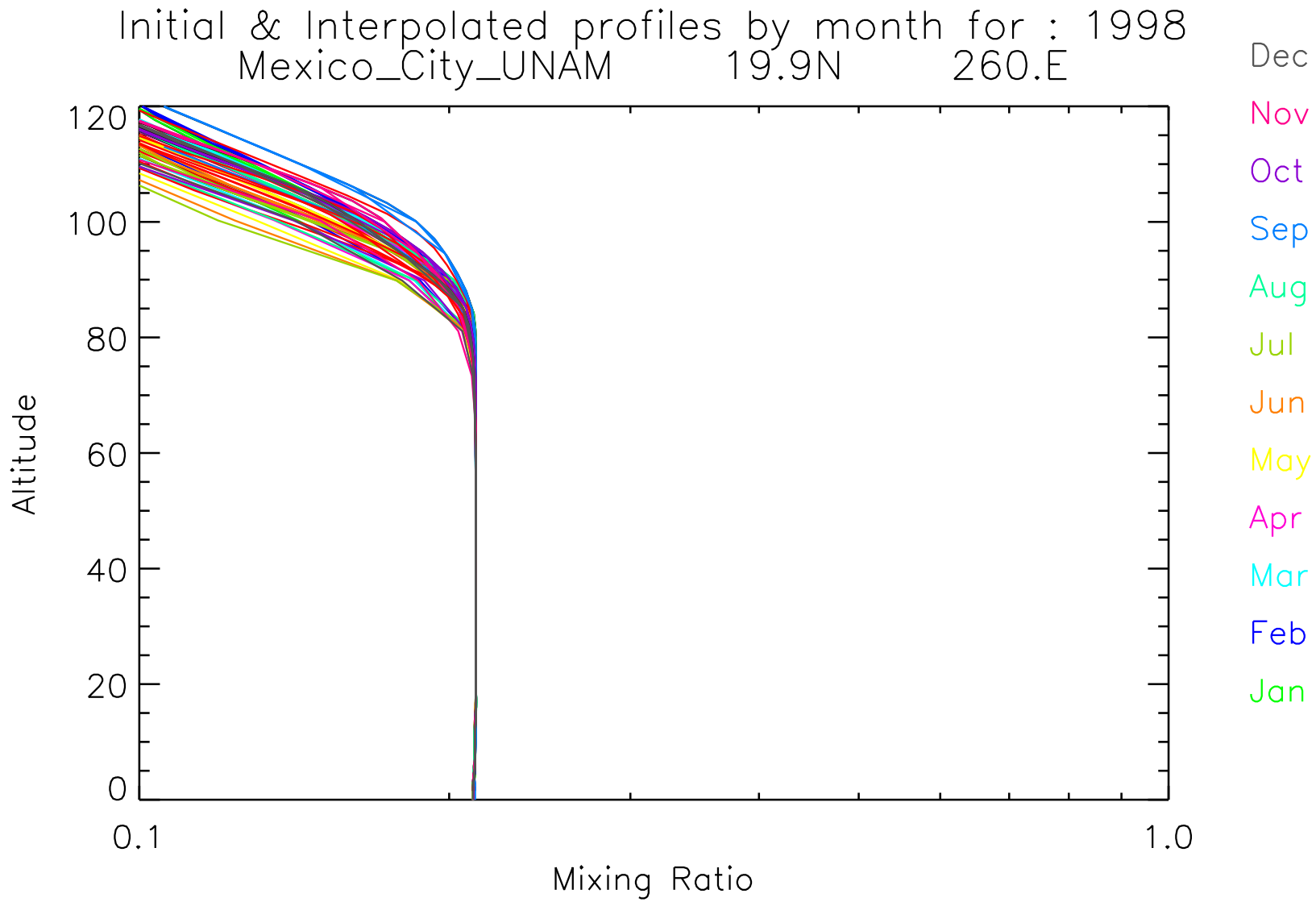

Initial & Interpolated profiles by month for : 1993
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

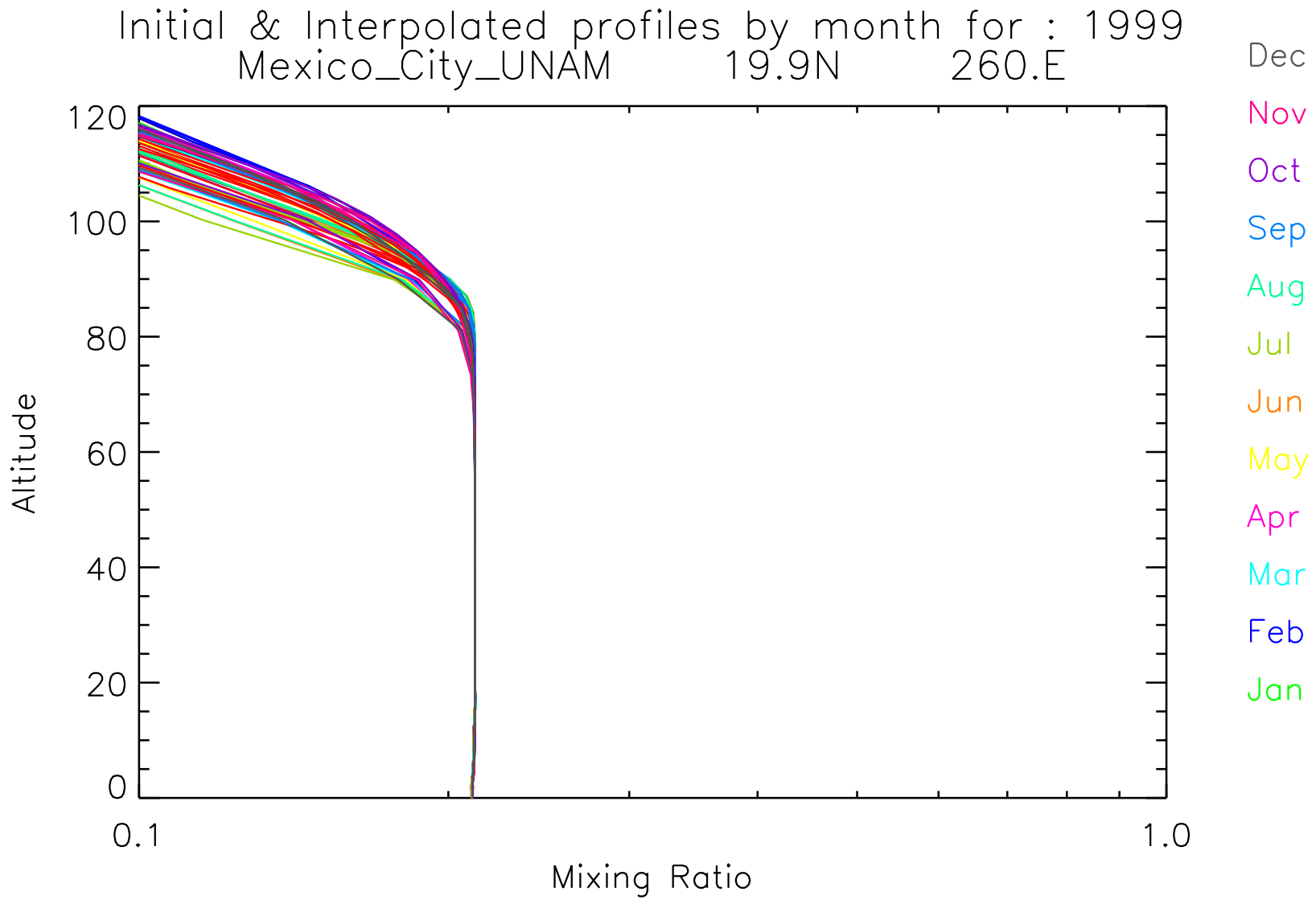

Initial & Interpolated profiles by month for : 1994
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

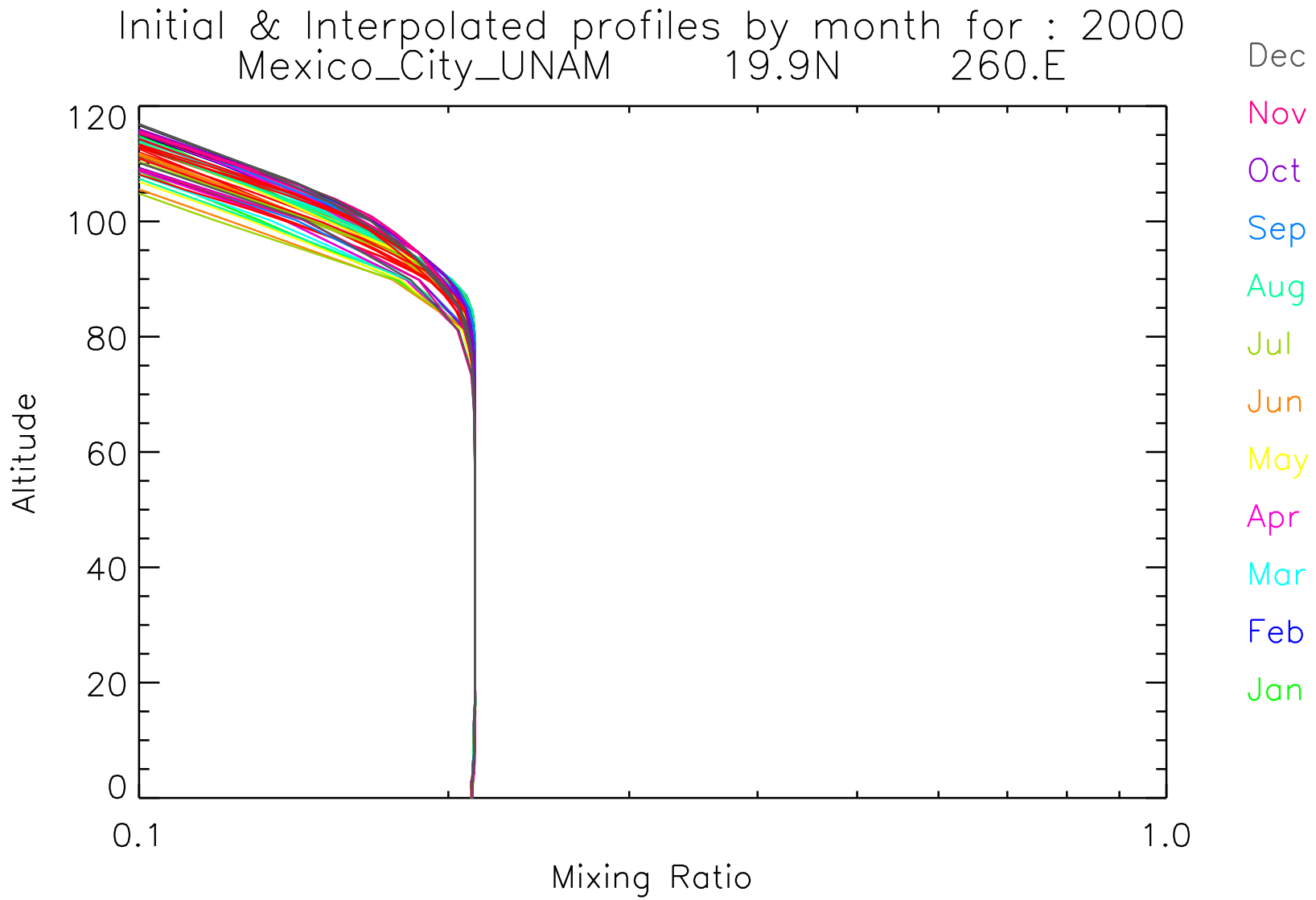

Initial & Interpolated profiles by month for : 1995
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

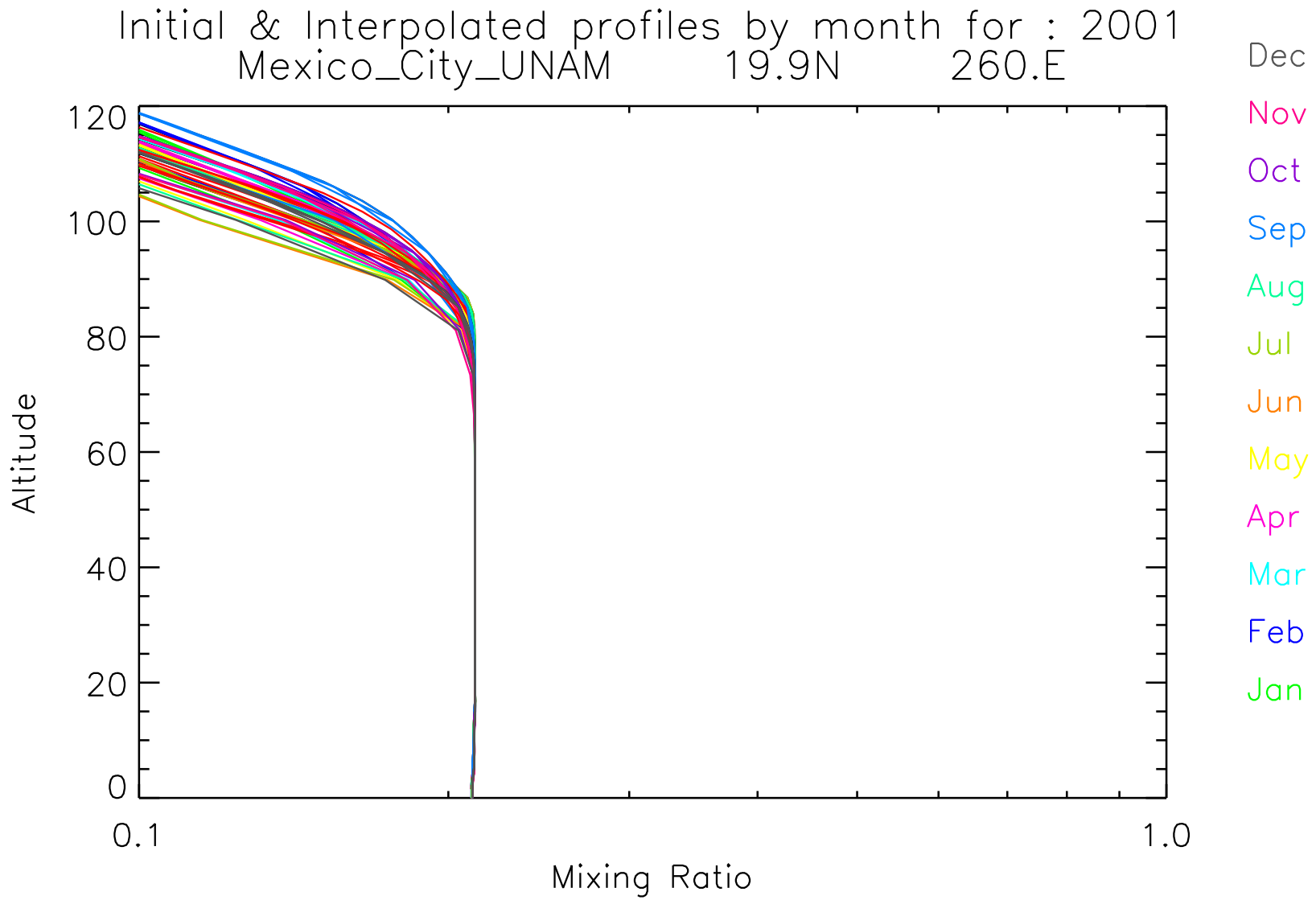

Initial & Interpolated profiles by month for : 1996
Mexico_City_UNAM 19.9N 260.E
Dec
Nov
Jan
120
100
80
60
40
20
0
Altitude
0.1
1.0
Mixing Ratio

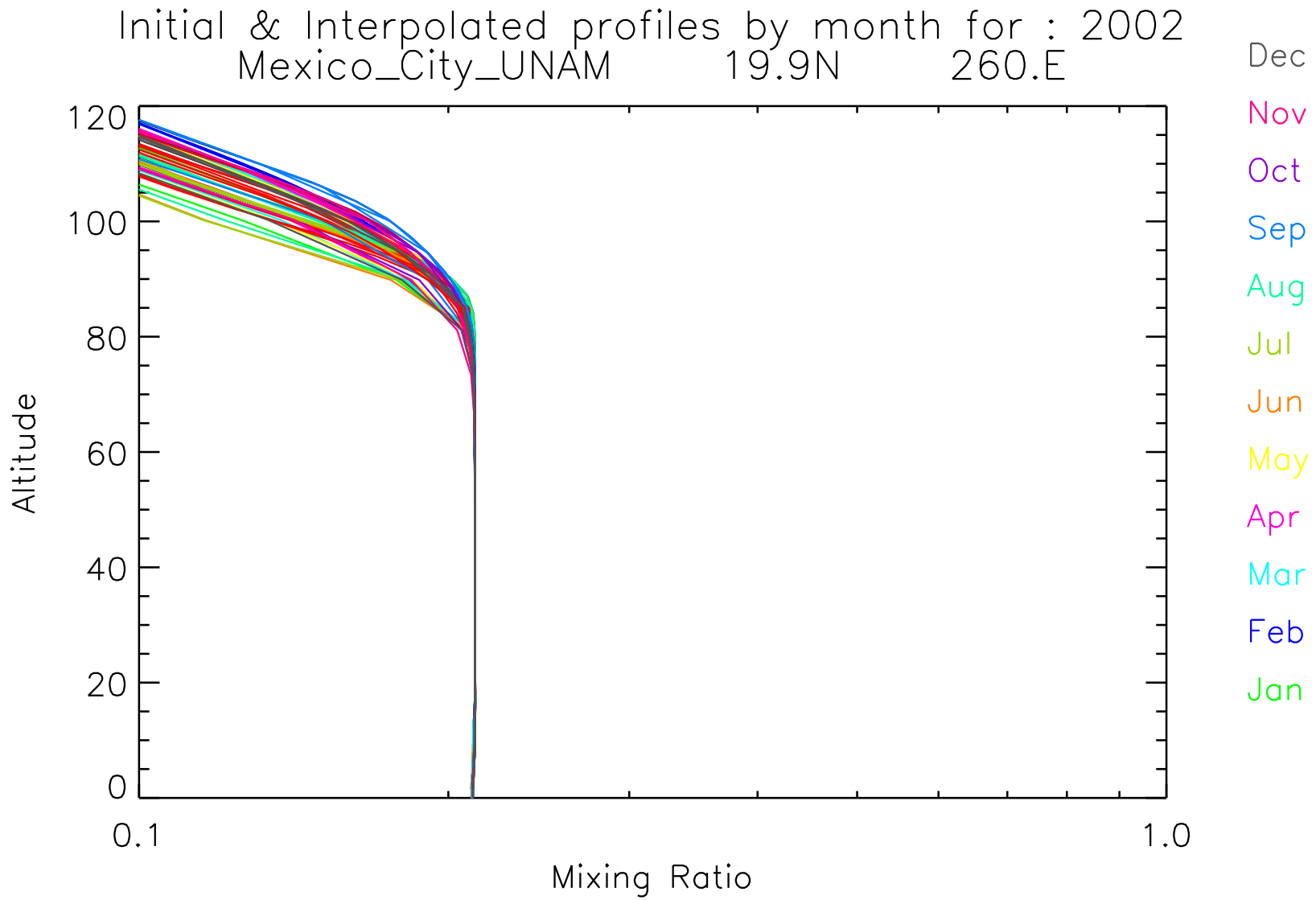

Initial & Interpolated profiles by month for : 1997
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

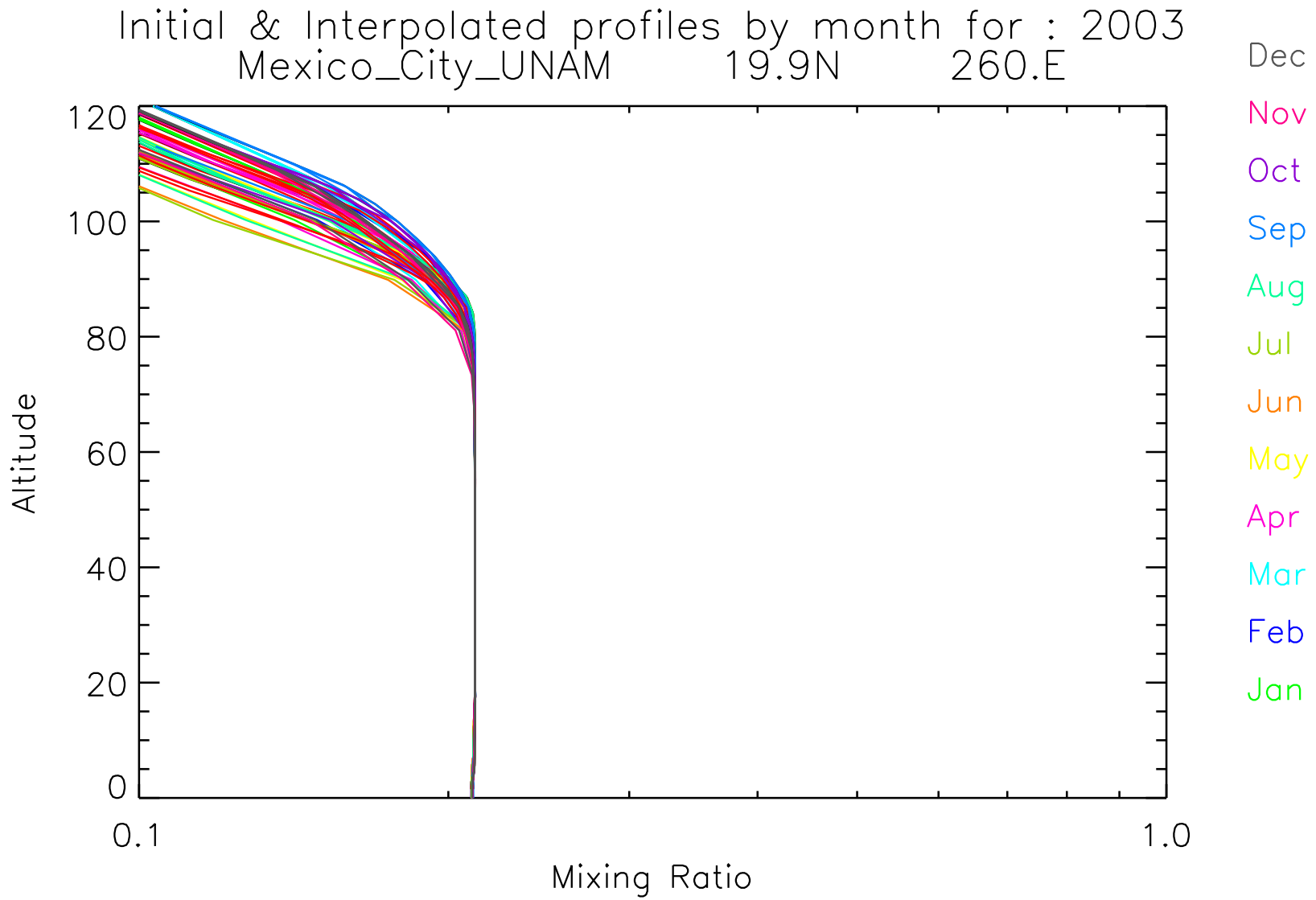

Initial & Interpolated profiles by month for : 1998
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

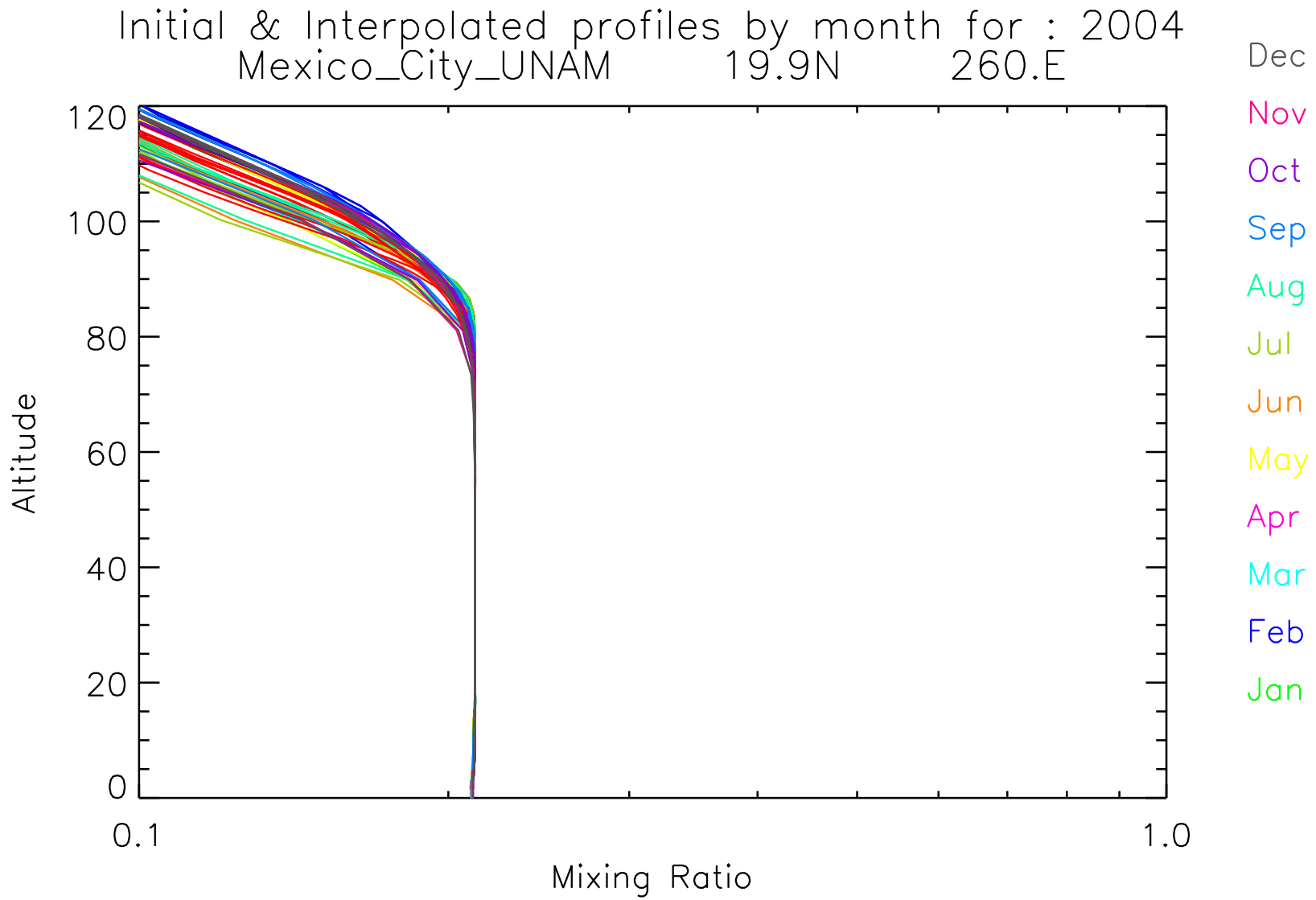

Initial & Interpolated profiles by month for : 1999
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

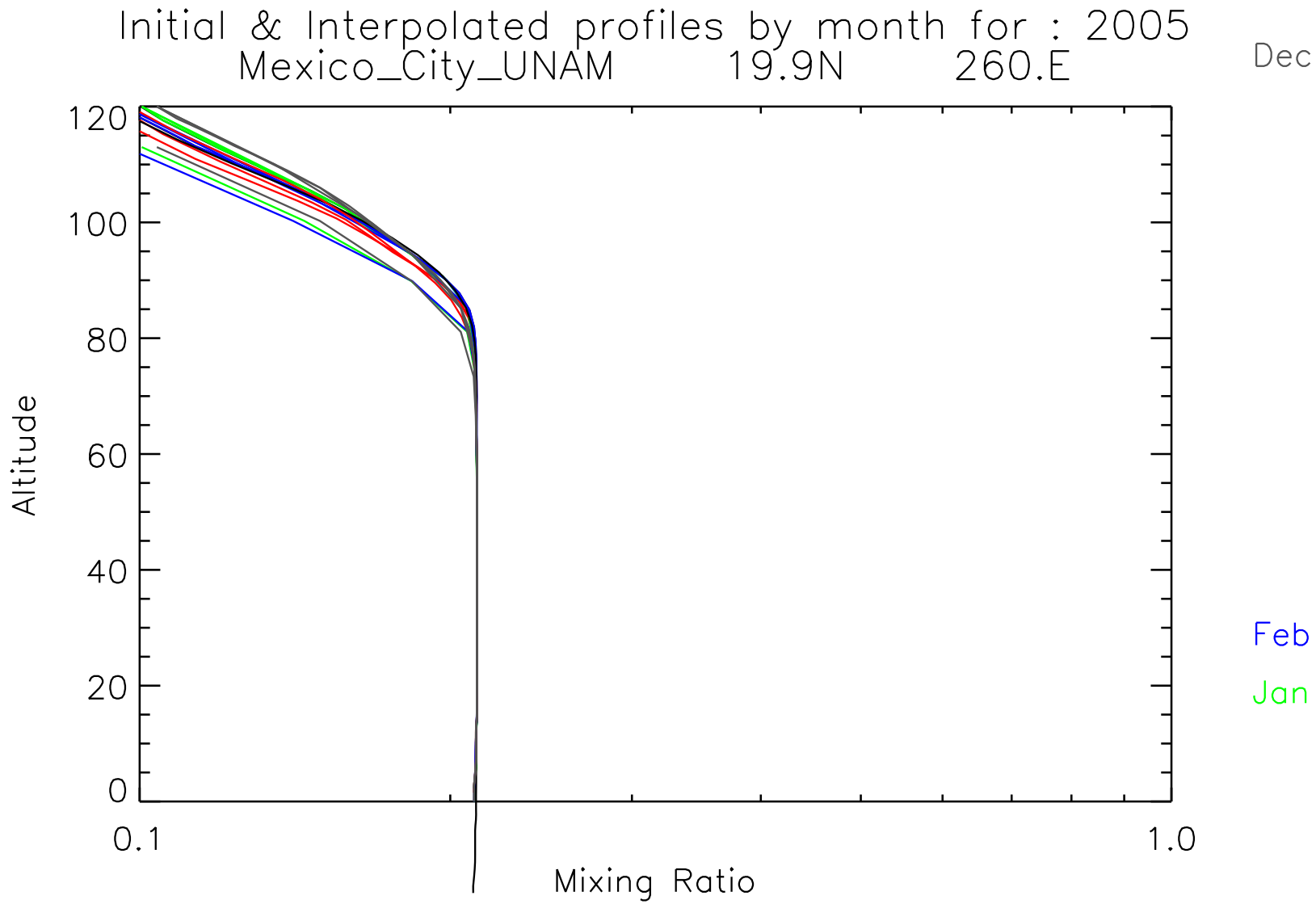

Initial & Interpolated profiles by month for : 2000
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

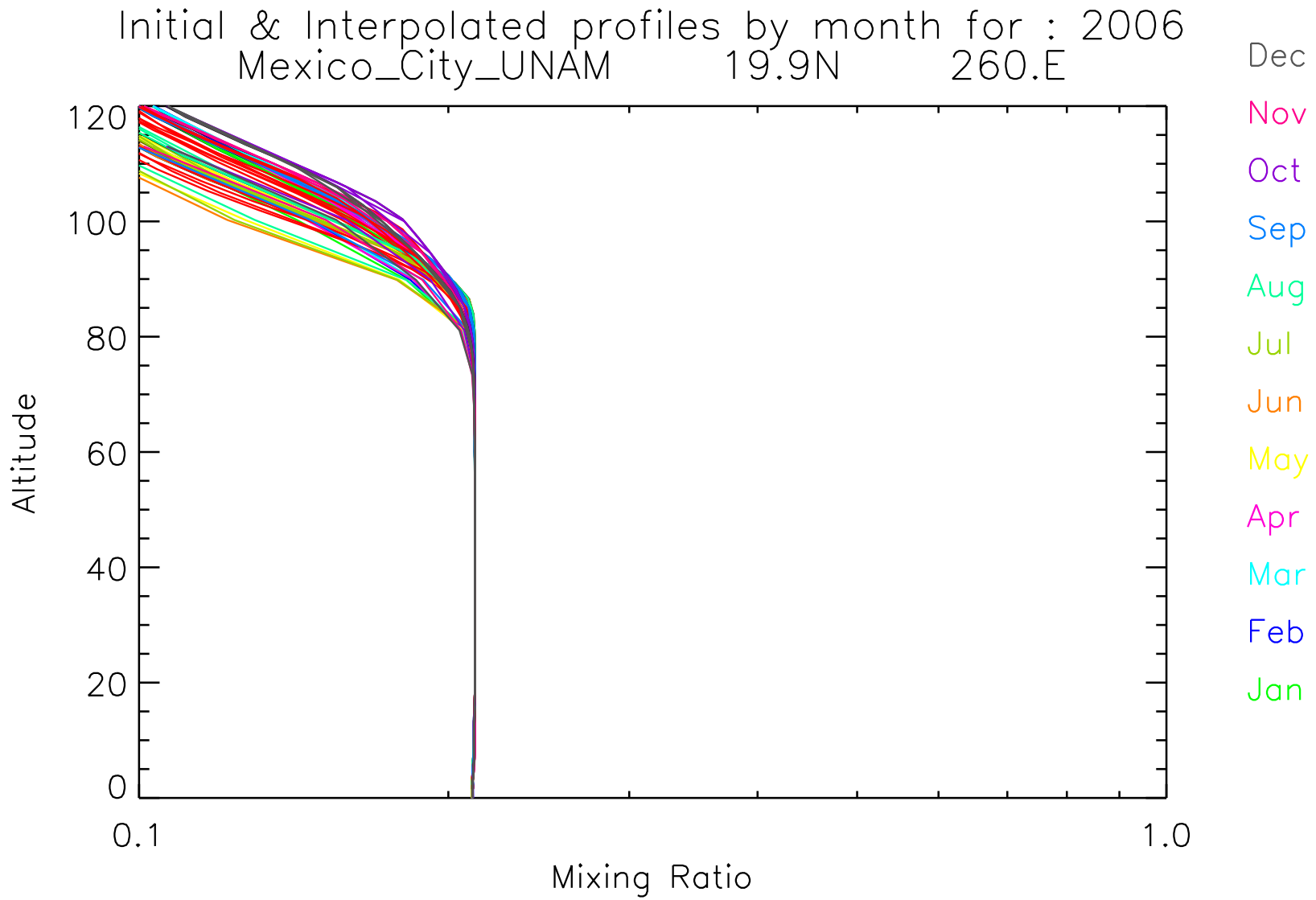

Initial & Interpolated profiles by month for : 2001
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

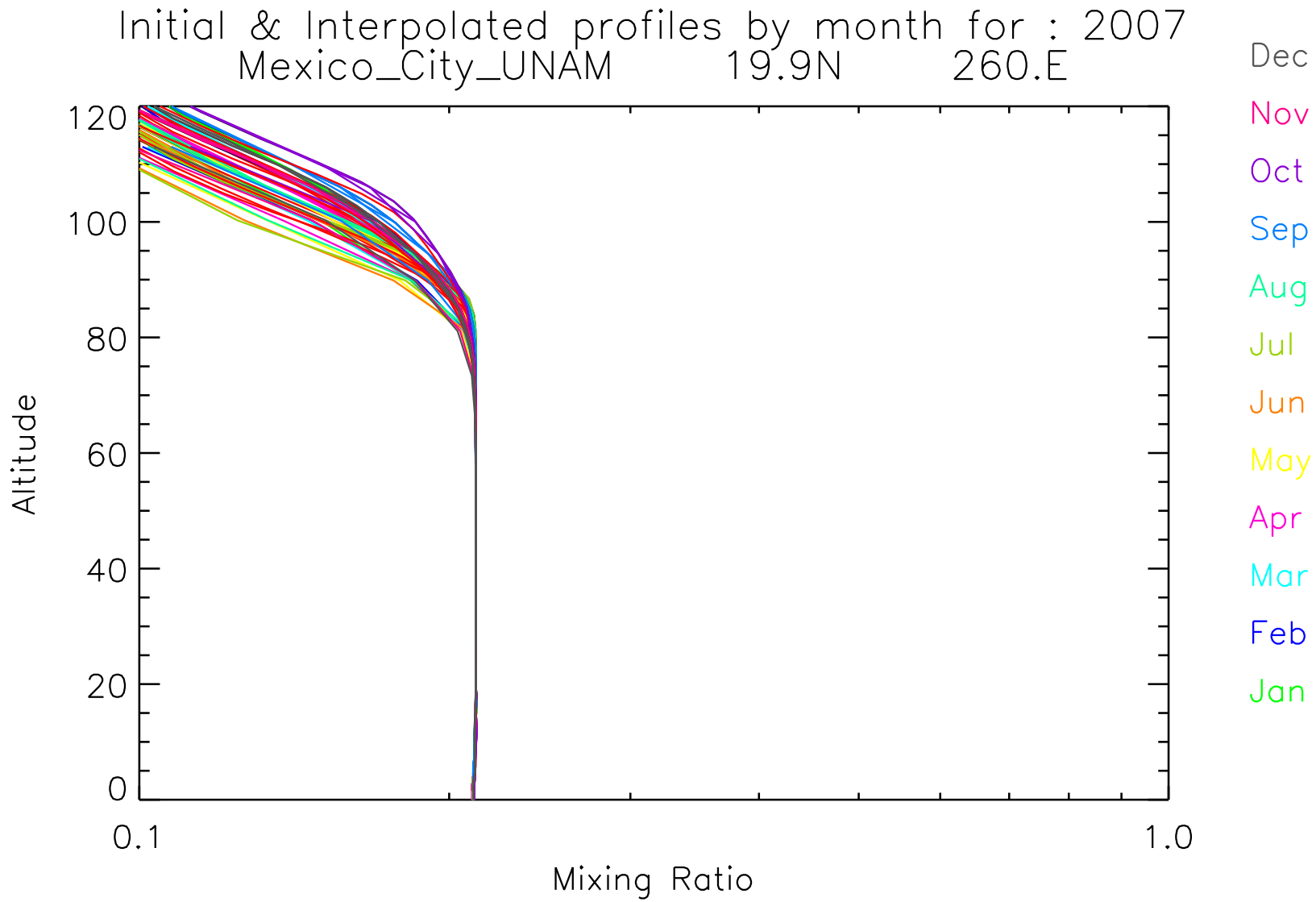

Initial & Interpolated profiles by month for : 2002
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

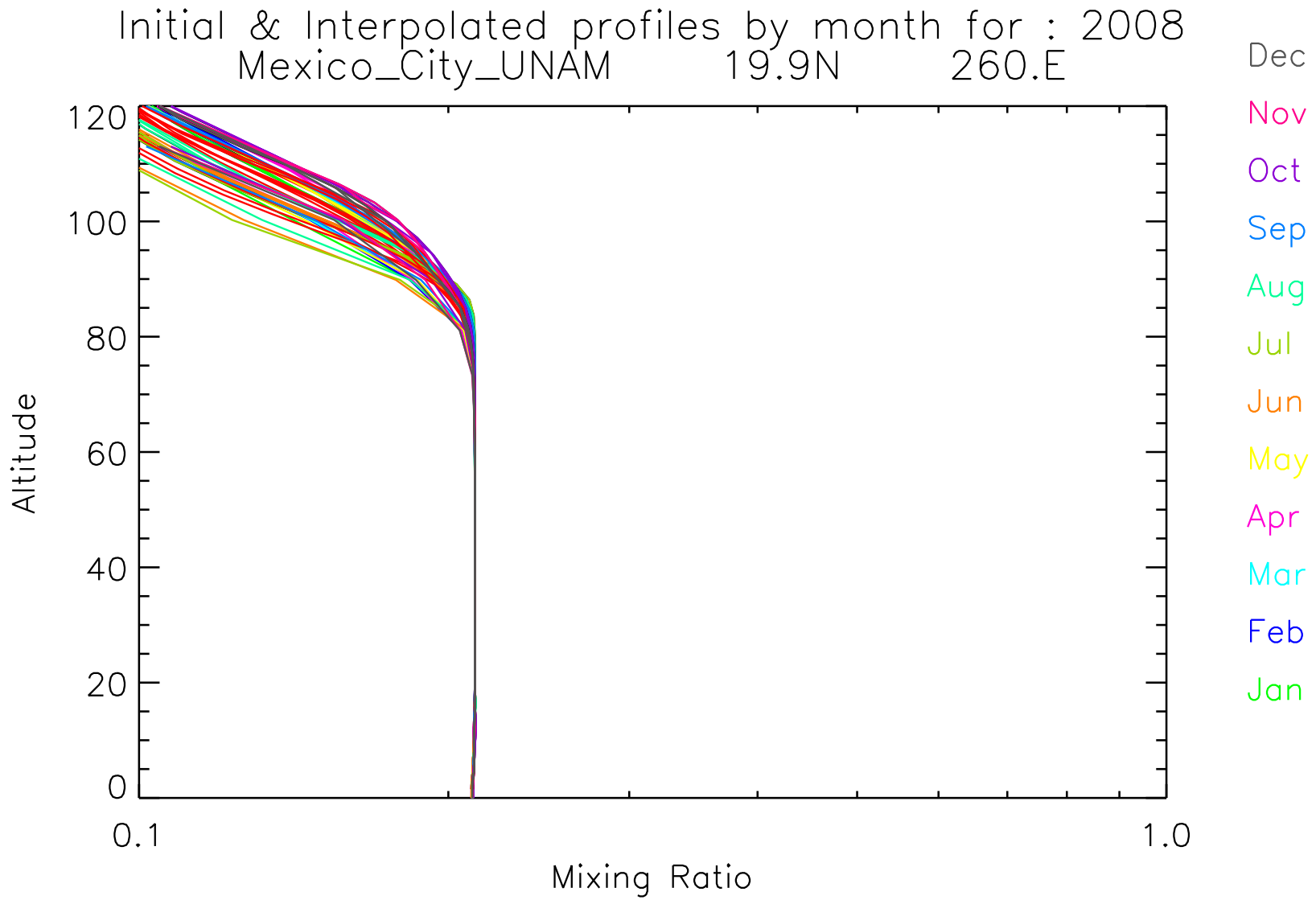

Initial & Interpolated profiles by month for : 2003
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

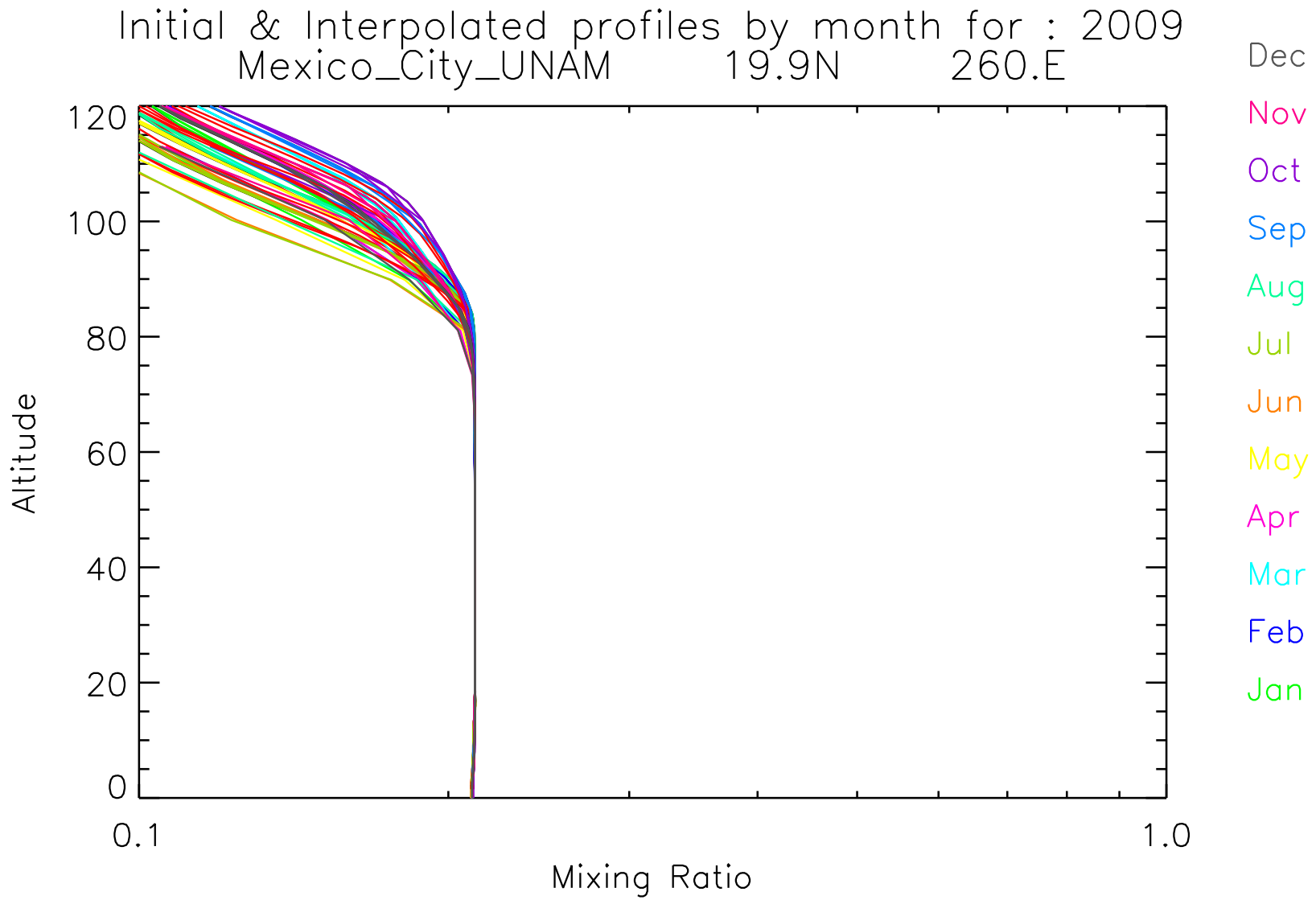

Initial & Interpolated profiles by month for : 2004
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

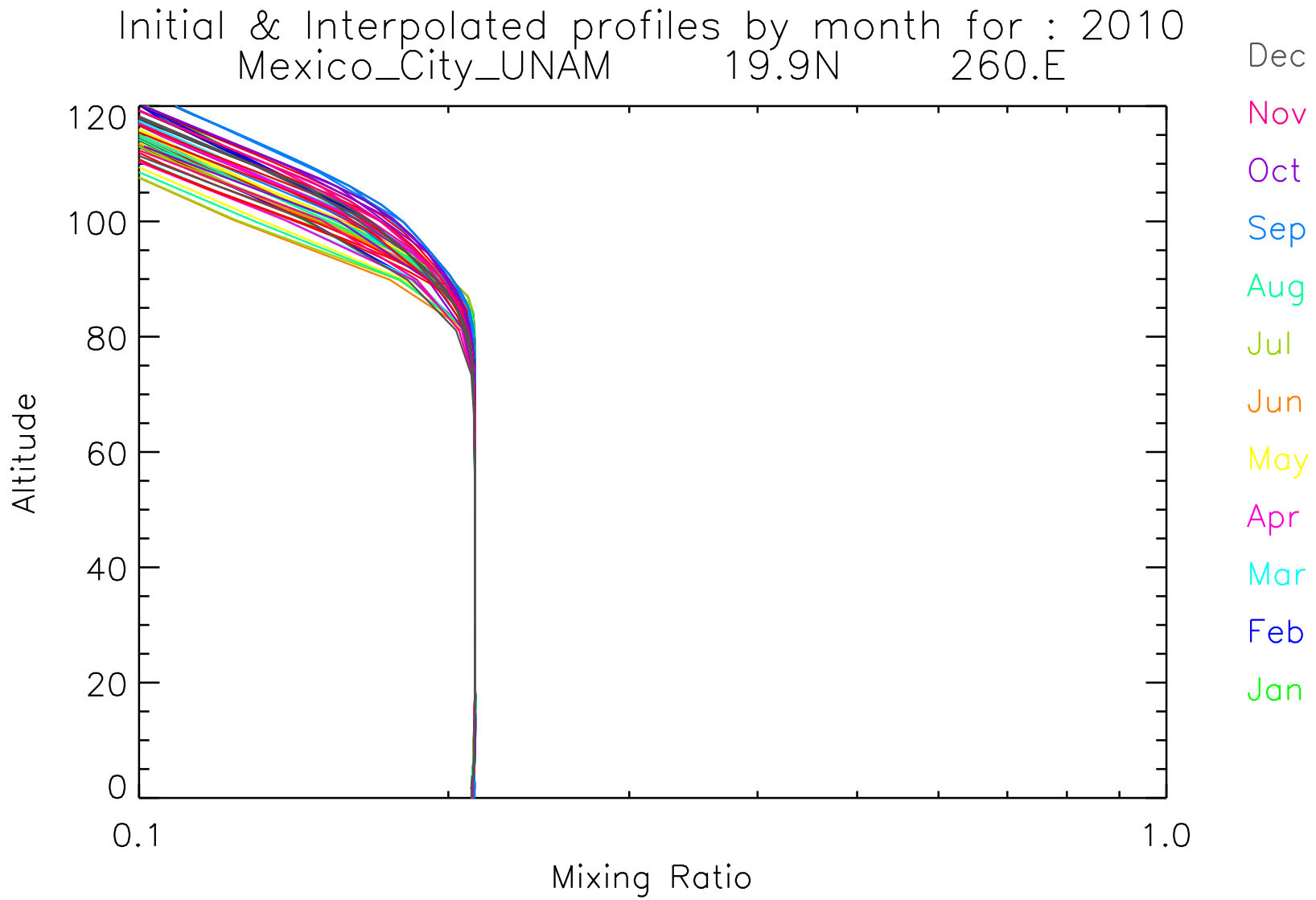

Initial & Interpolated profiles by month for : 2005
Mexico_City_UNAM 19.9N 260.E
Dec
Feb
Jan
120
100
80
60
40
20
0
Altitude
0.1
1.0
Mixing Ratio

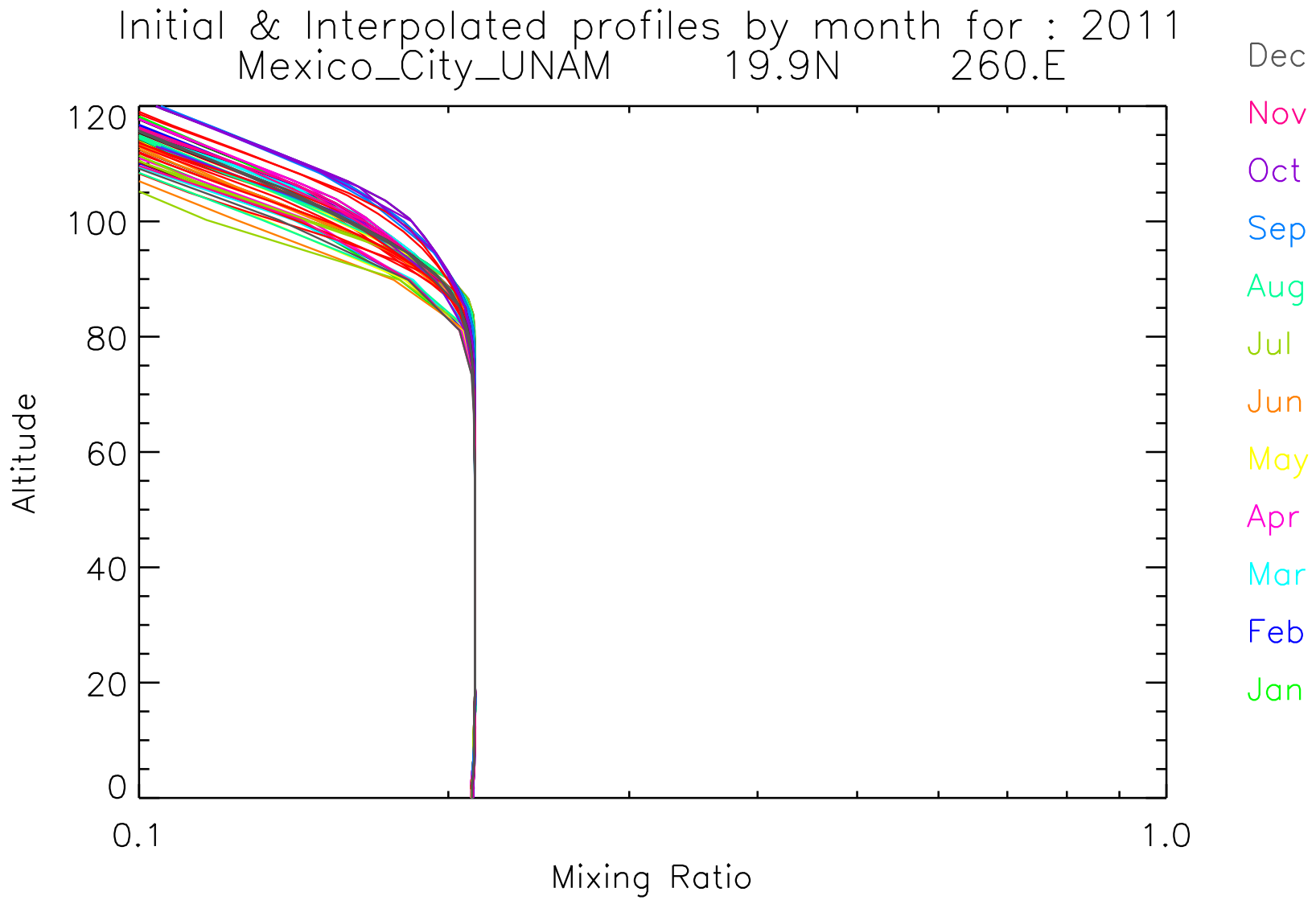

Initial & Interpolated profiles by month for : 2006
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

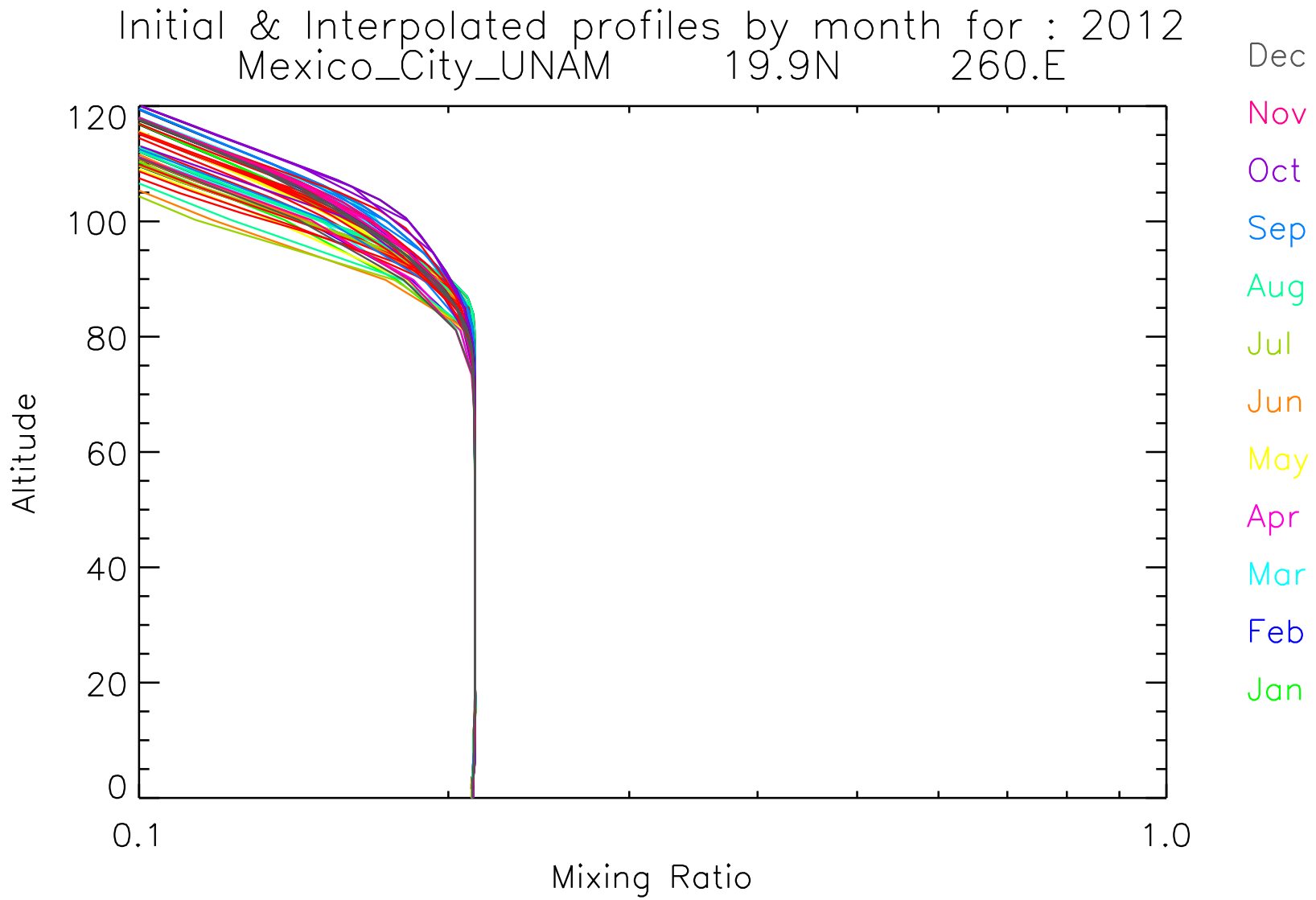

Initial & Interpolated profiles by month for : 2007
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

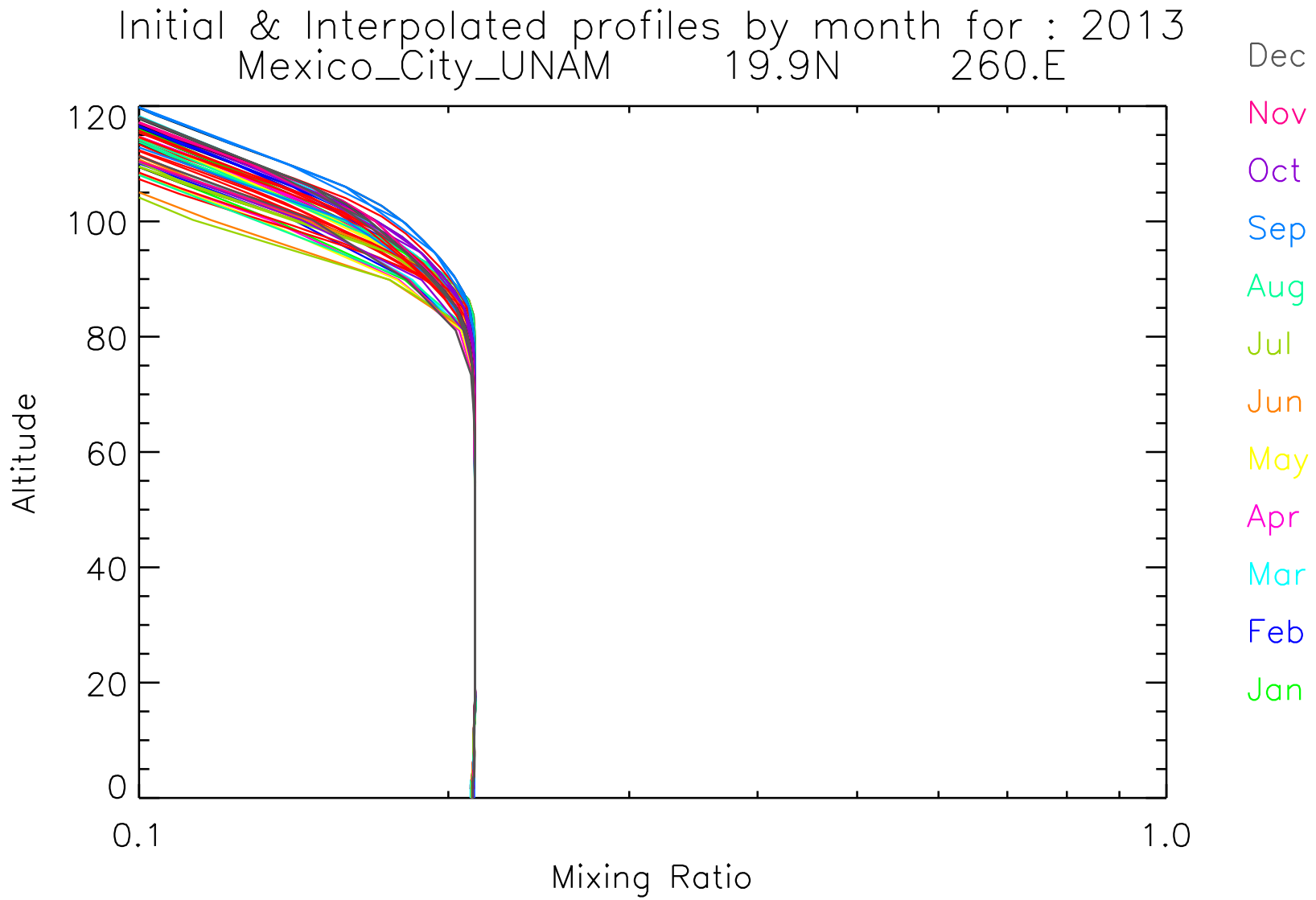

Initial & Interpolated profiles by month for : 2008
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

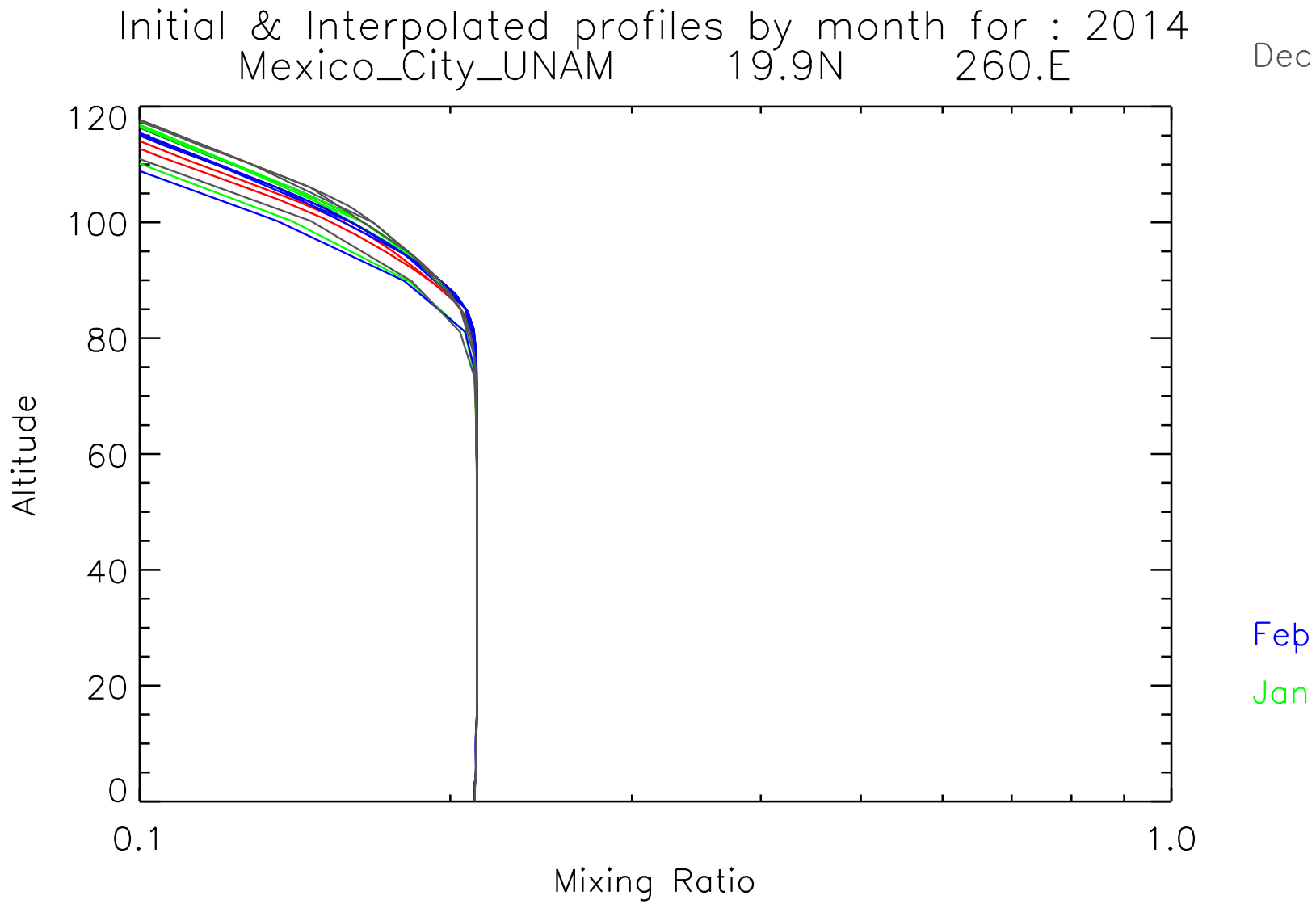

Initial & Interpolated profiles by month for : 2009
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

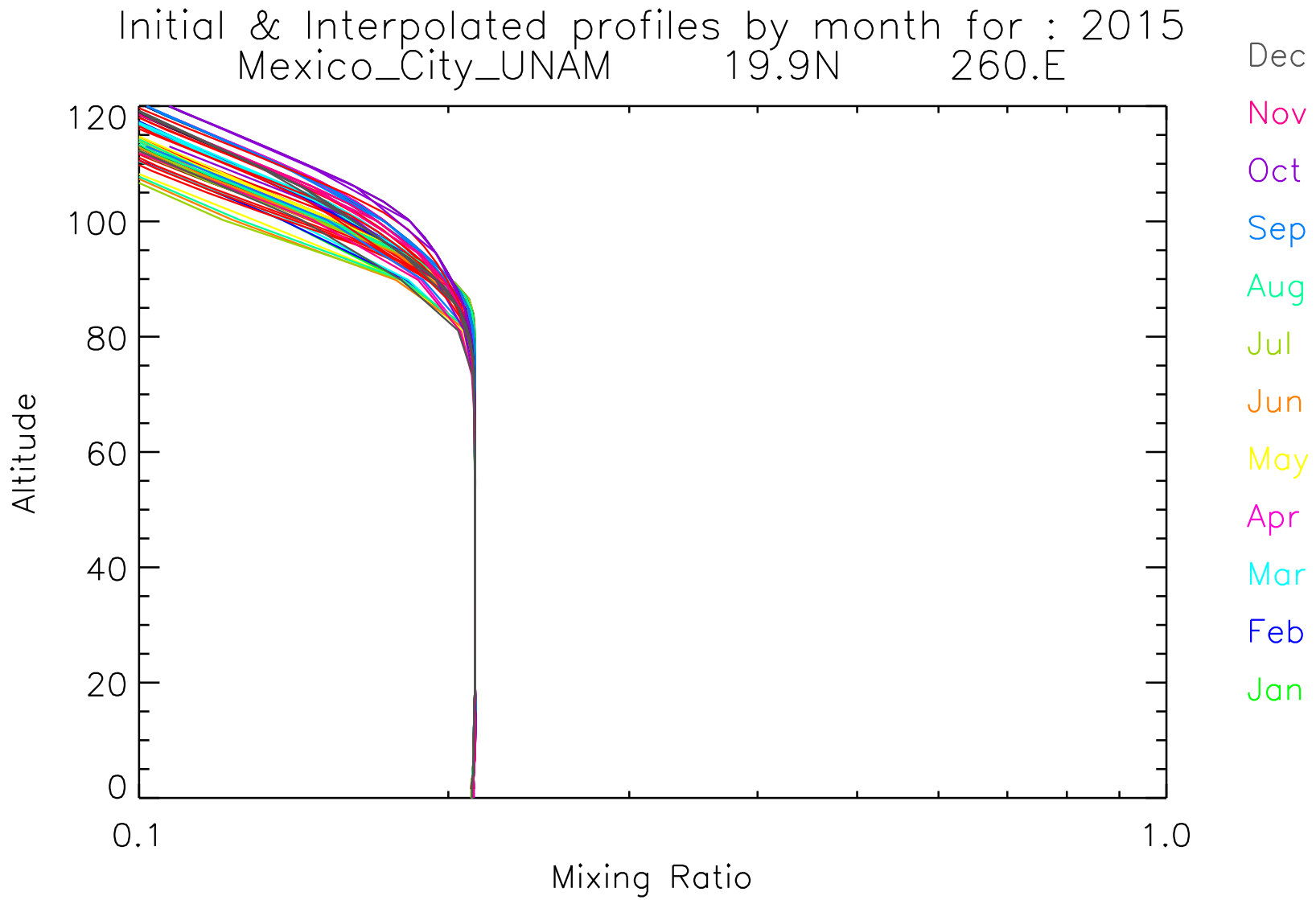

Initial & Interpolated profiles by month for : 2010
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

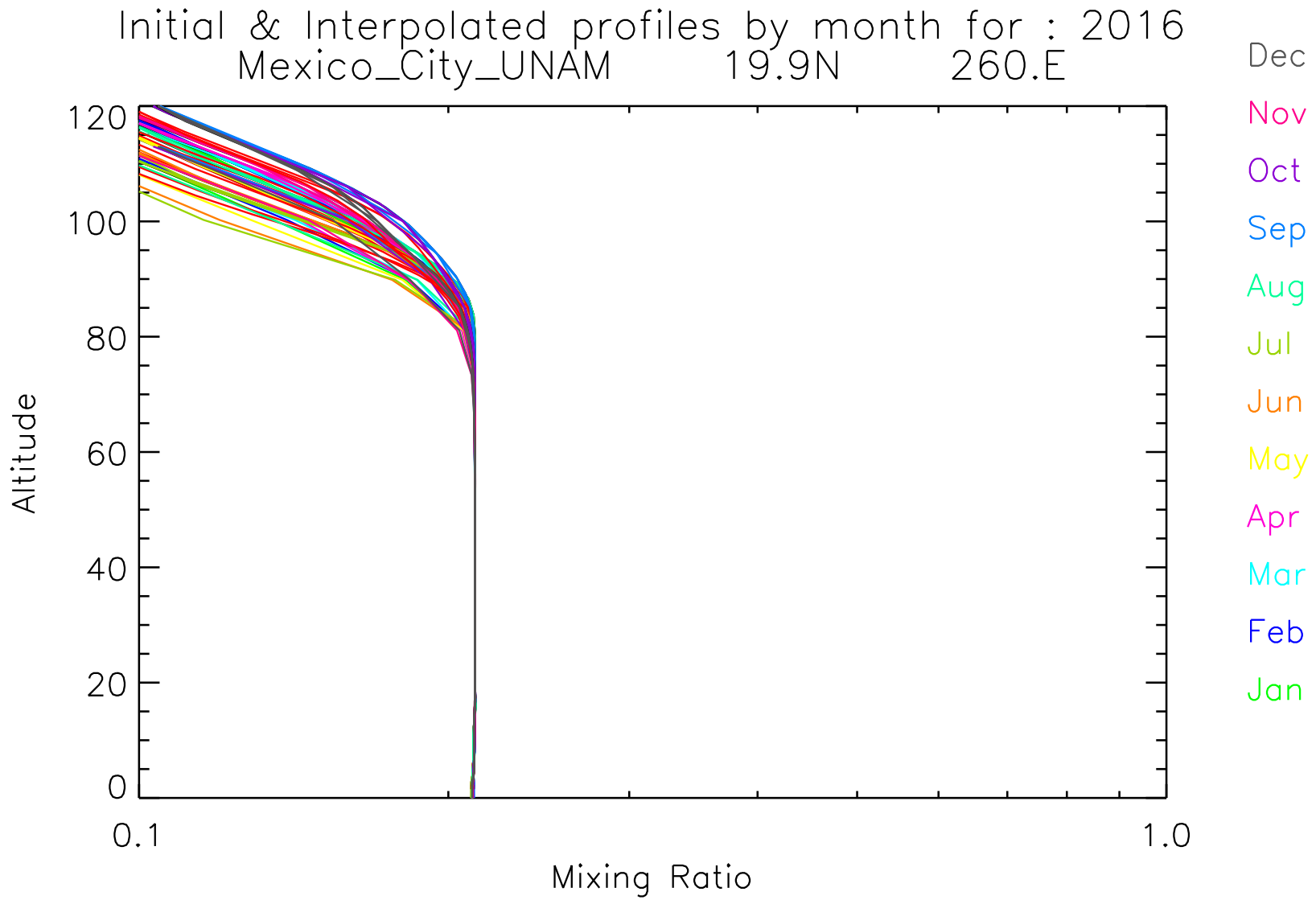

Initial & Interpolated profiles by month for : 2011
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

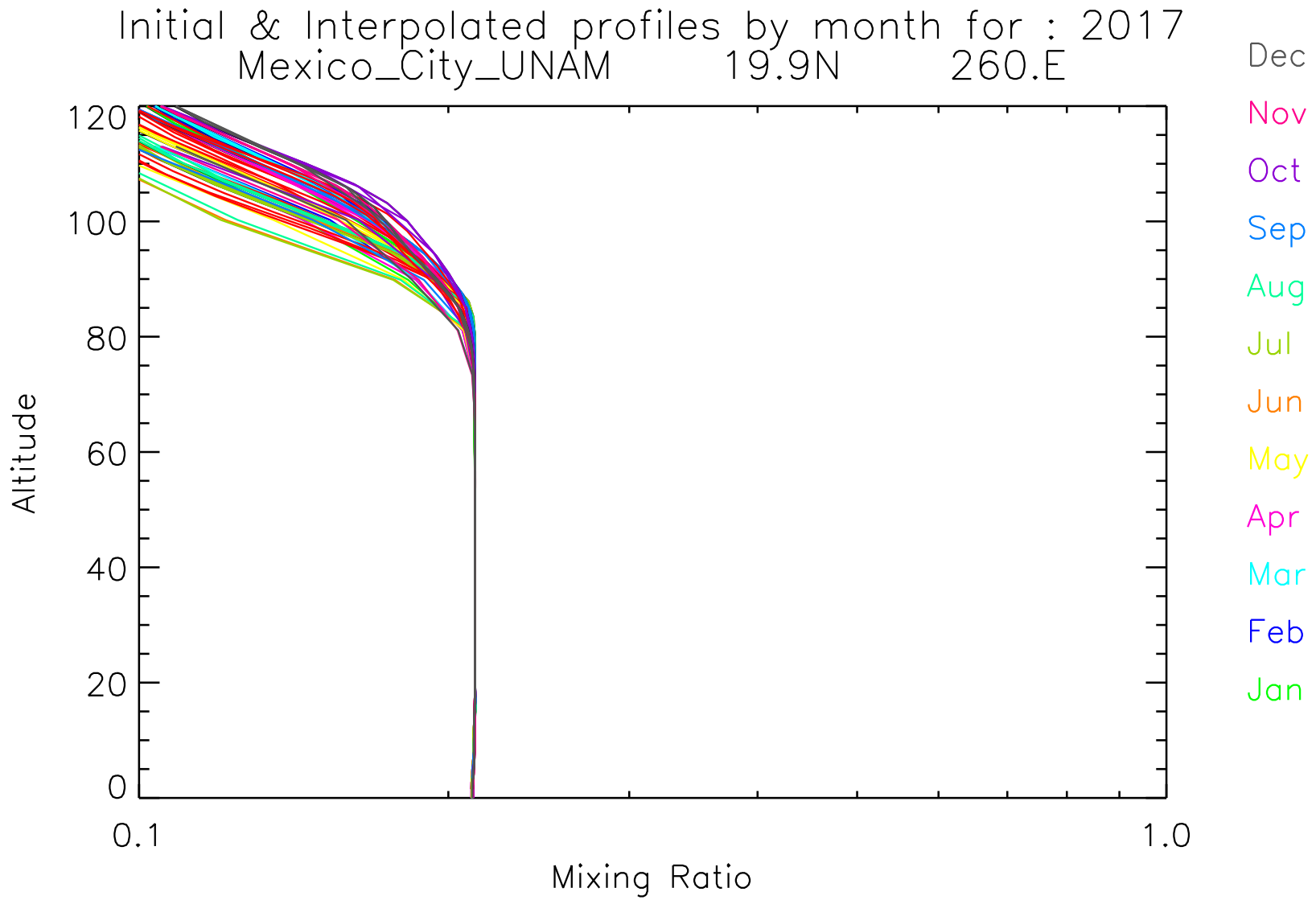

Initial & Interpolated profiles by month for : 2012
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

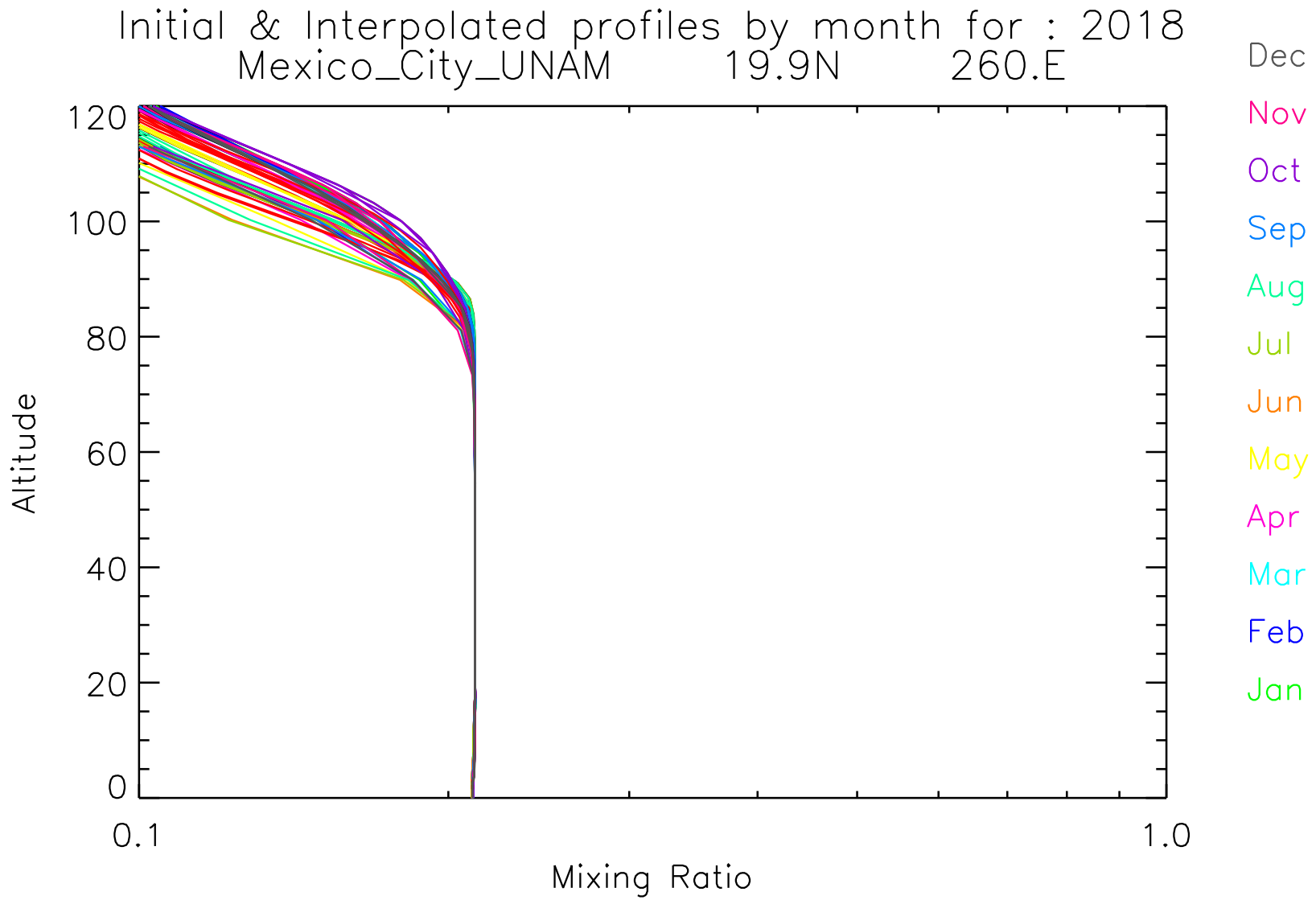

Initial & Interpolated profiles by month for : 2013
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

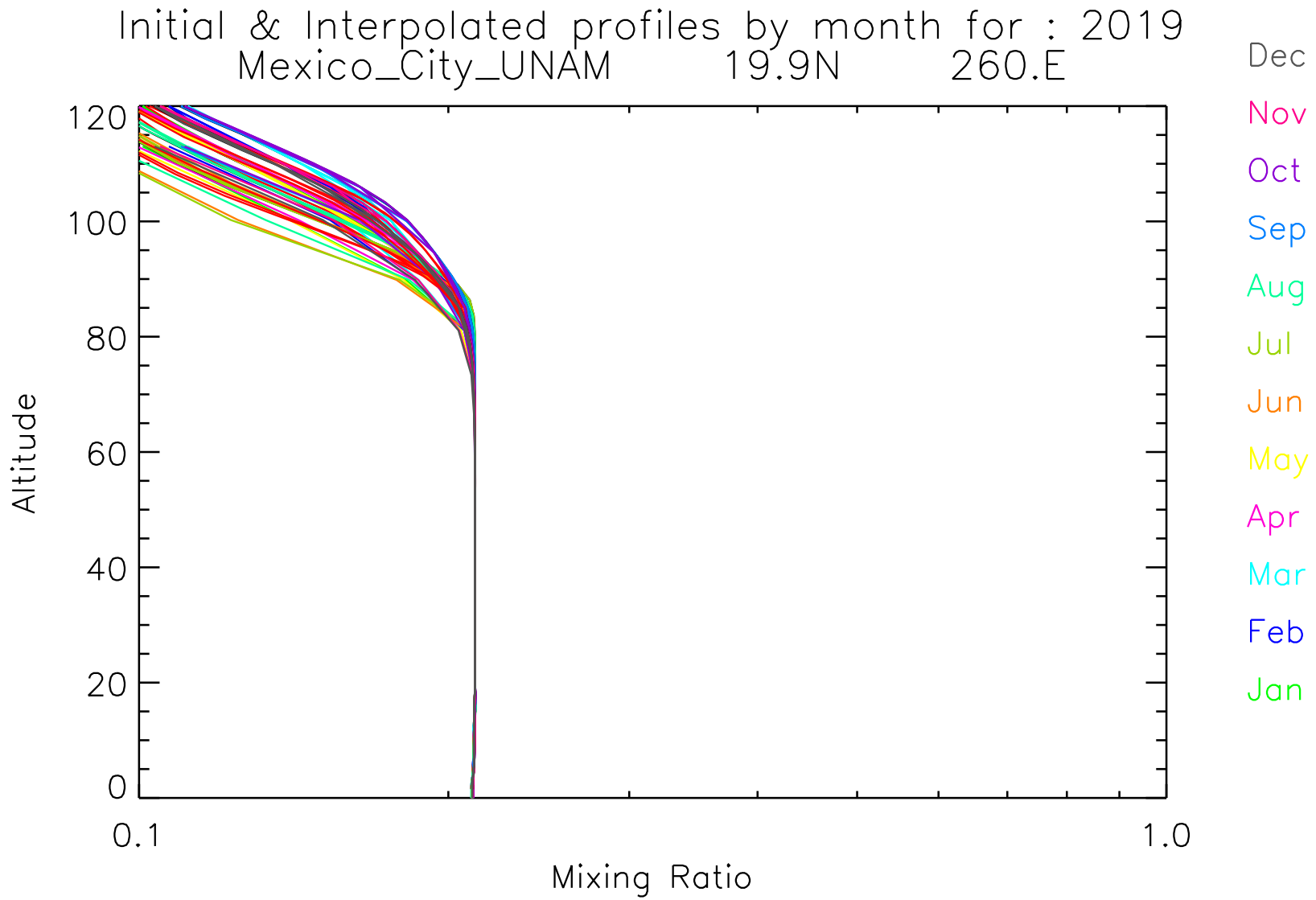

Initial & Interpolated profiles by month for : 2014
Mexico_City_UNAM 19.9N 260.E
Dec
Feb
Jan
120
100
80
60
40
20
0
Altitude
0.1
1.0
Mixing Ratio

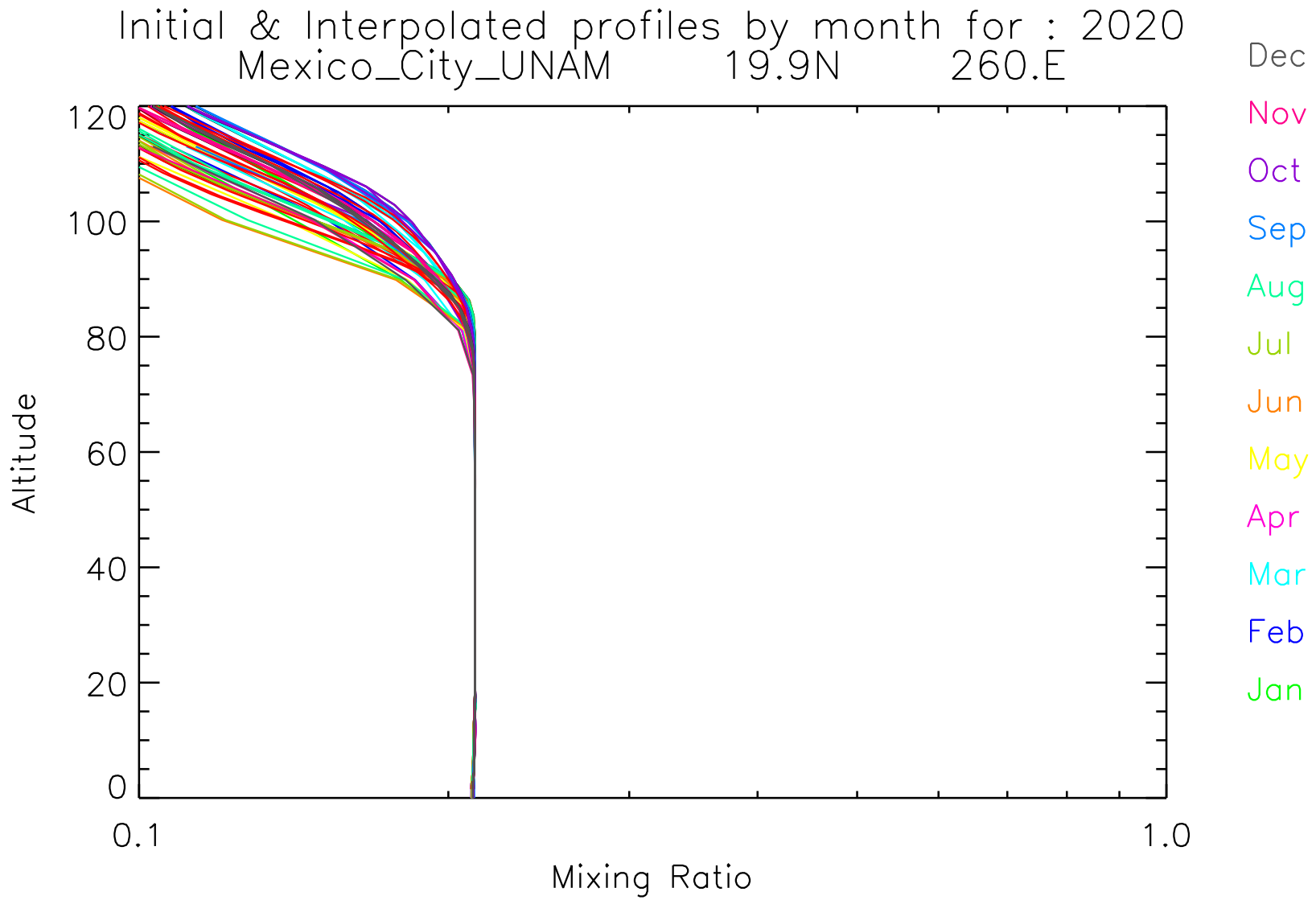

Initial & Interpolated profiles by month for : 2015
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

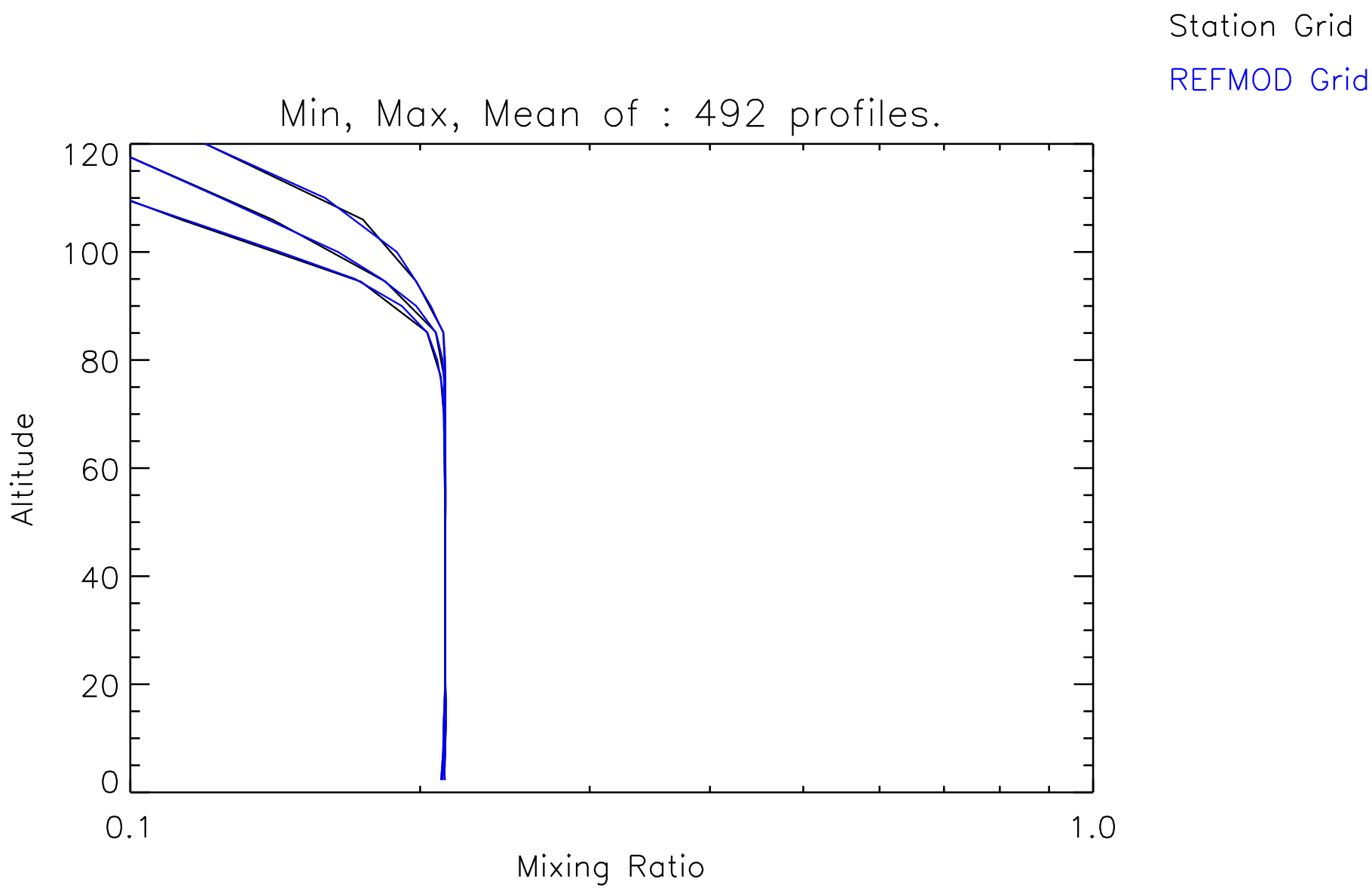

Initial & Interpolated profiles by month for : 2016
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

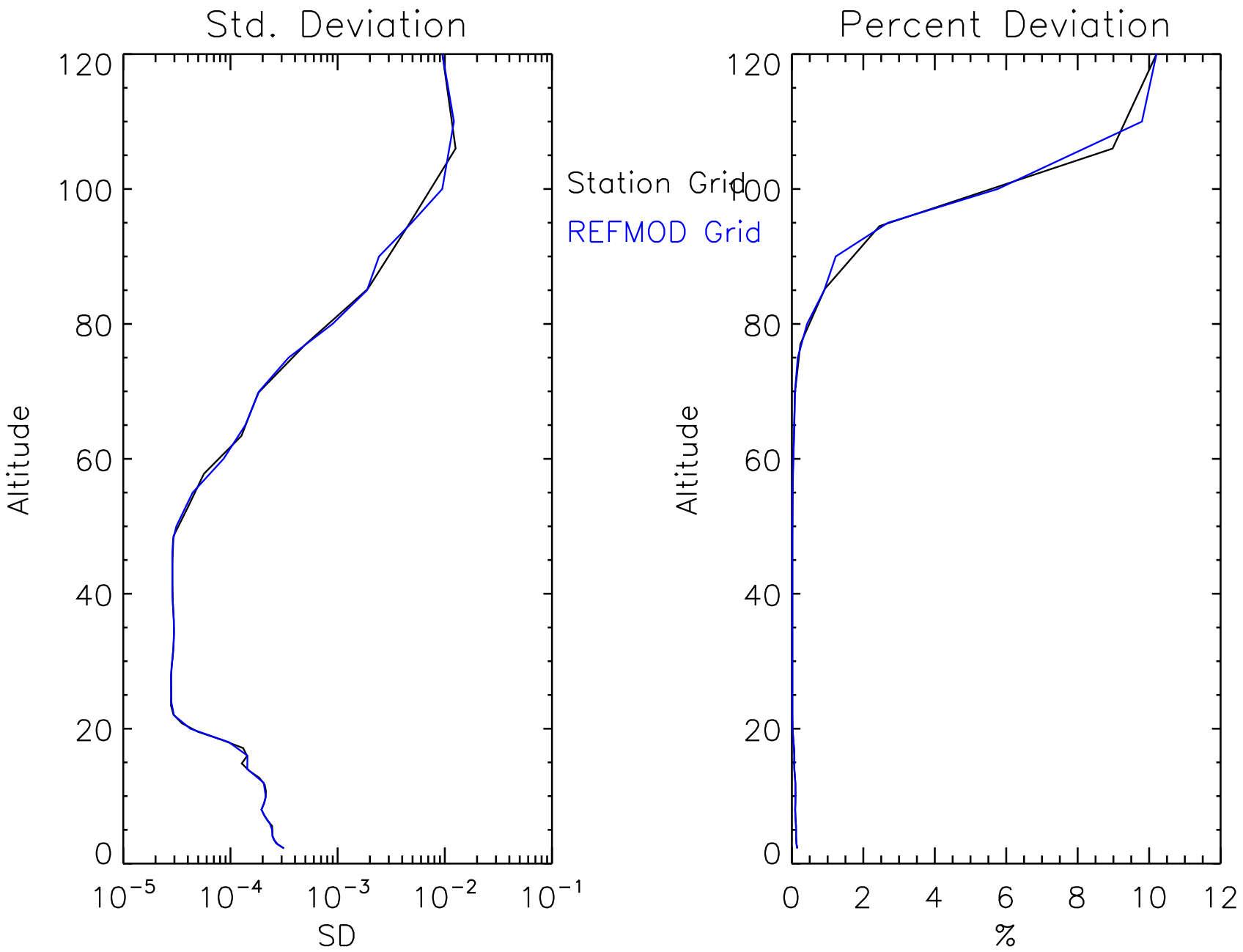

Initial & Interpolated profiles by month for : 2017
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

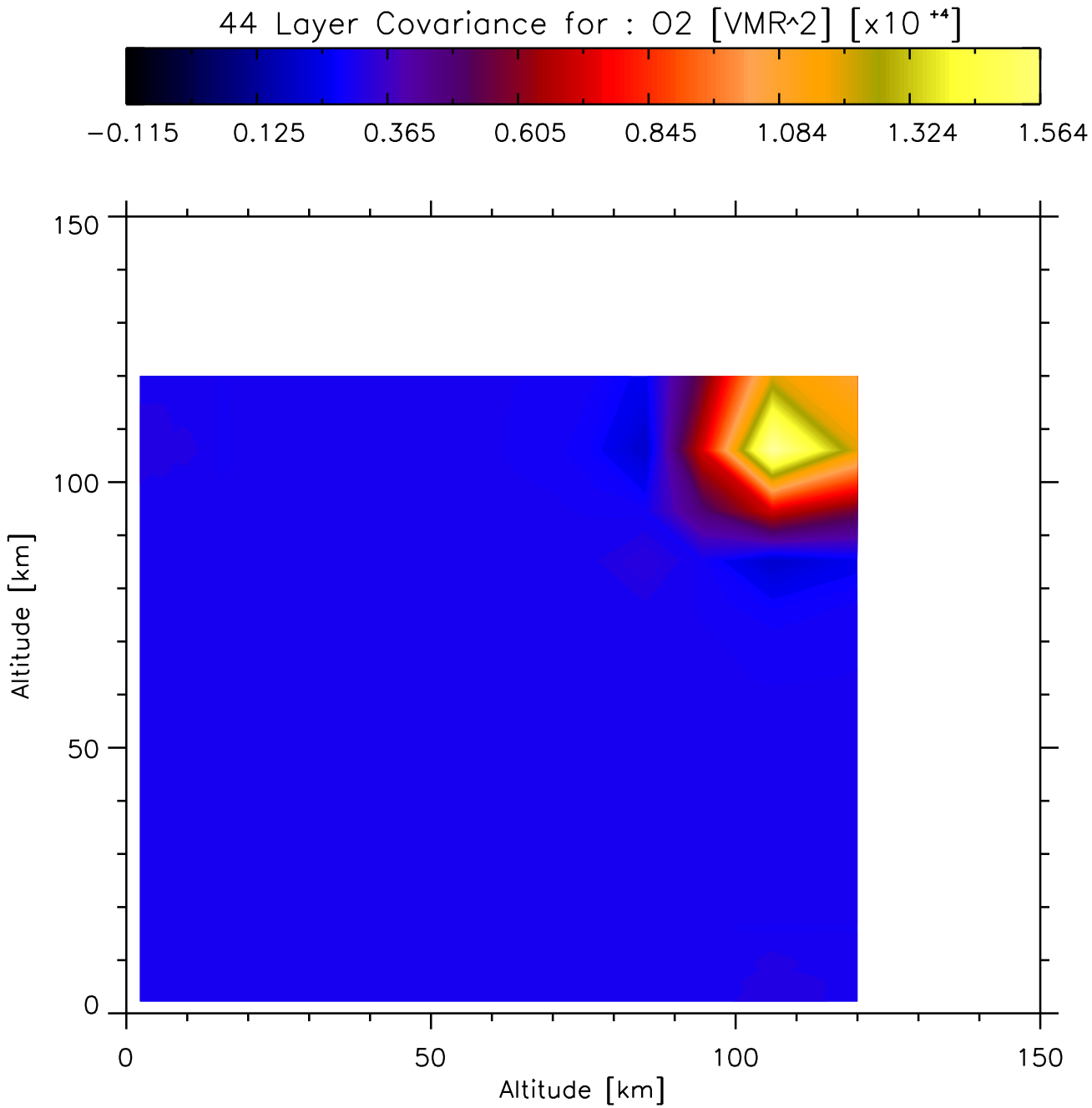

Initial & Interpolated profiles by month for : 2018
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

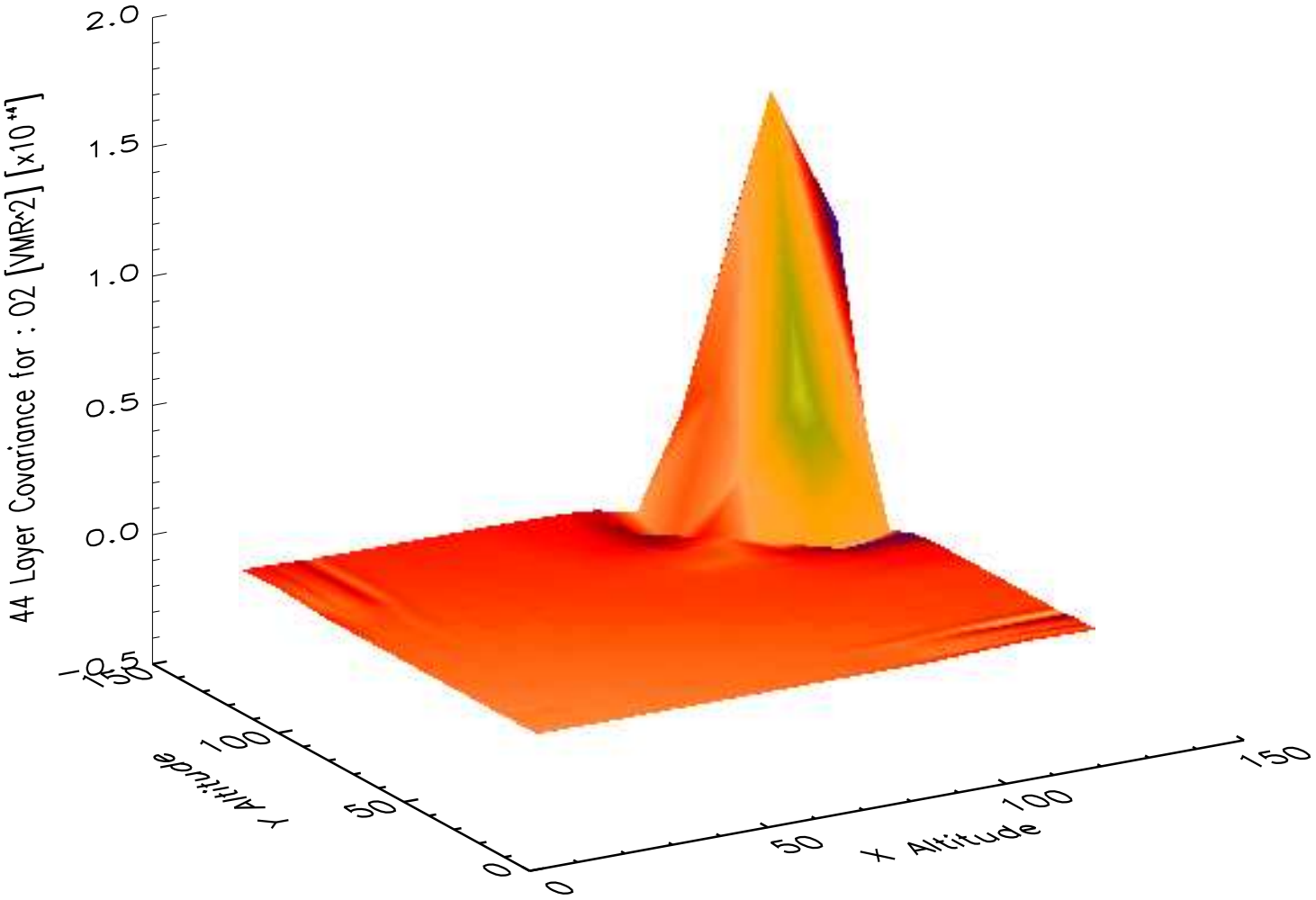

Initial & Interpolated profiles by month for : 2019
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

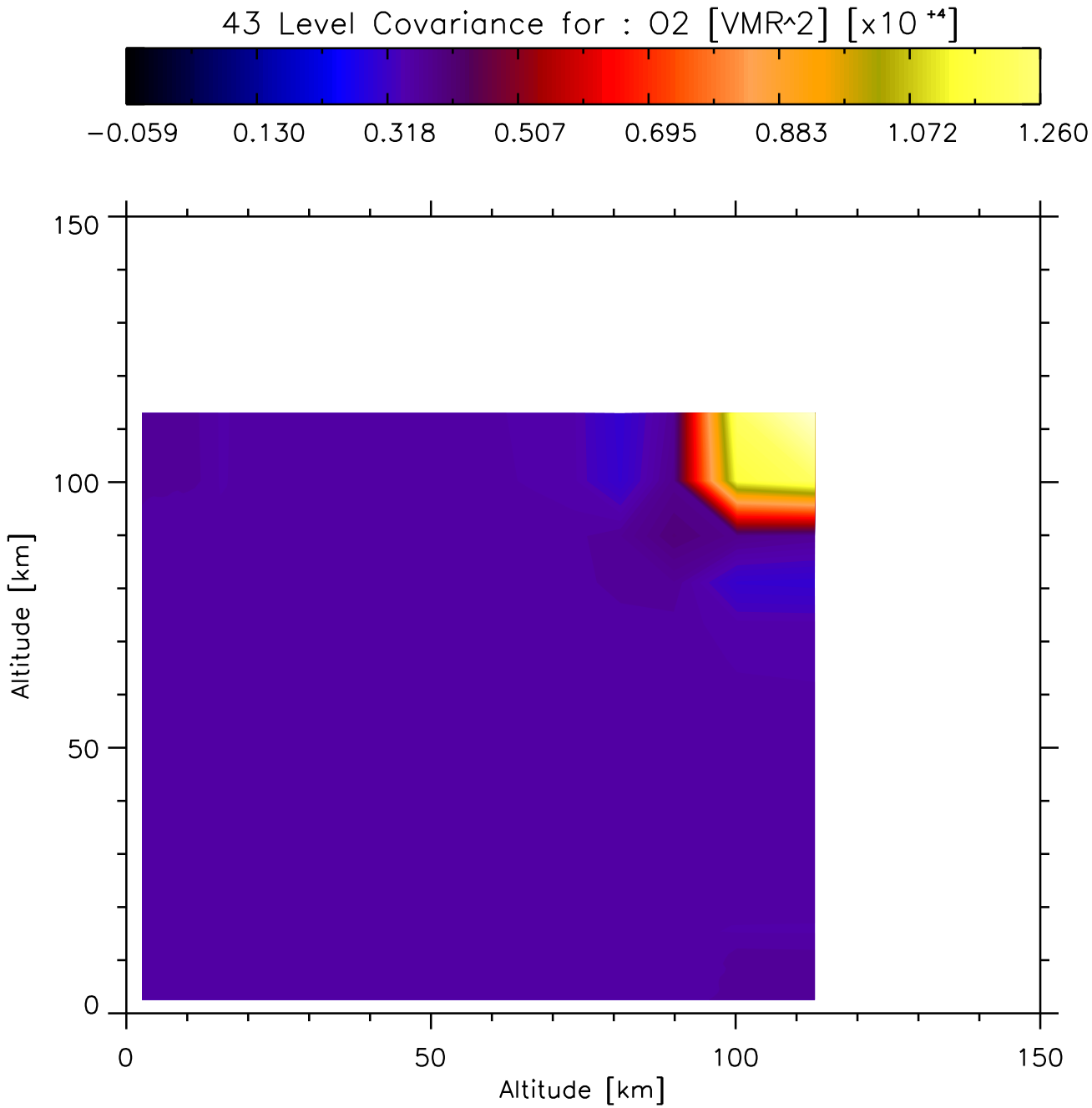

Initial & Interpolated profiles by month for : 2020
Mexico_City_UNAM 19.9N 260.E
Altitude
120
100
80
60
40
20
0
0.1
1.0
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

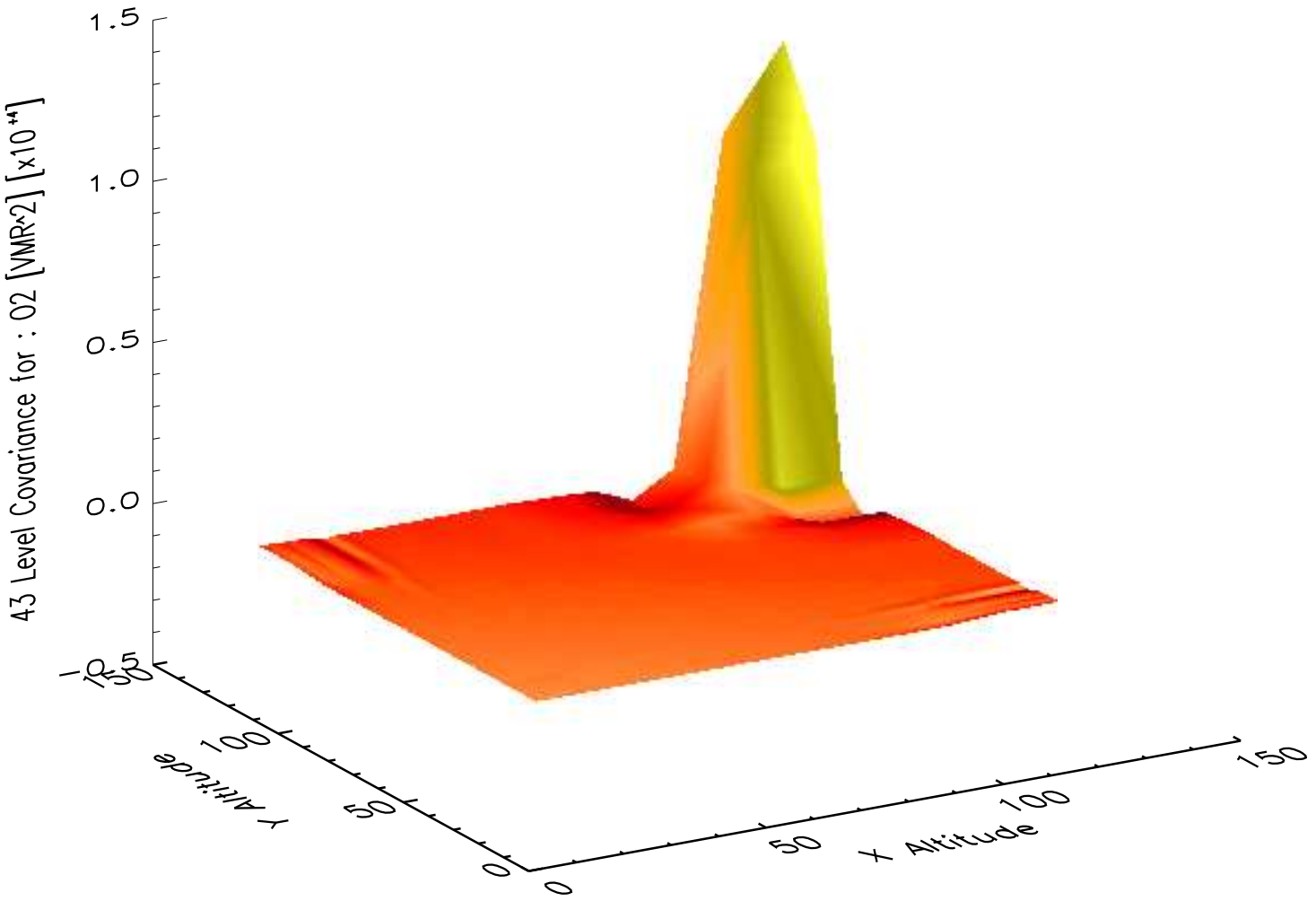

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
0.1
1.0
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
SD
0
2
4
6
8
10
12
%


44 Layer Covariance for : O2 [VMR^2] [x10 +4]
−0.115
0.125
0.365
0.605
0.845
1.084
1.324
1.564
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


44 Layer Covariance for : O2 [VMR^2] [x10^+1]
2.0
1.5
1.0
0.5
0.0
-0.5
150
100
50
0
Y Altitude
0
50
100
150
X Altitude


43 Level Covariance for : O2 [VMR^2] [x10 +4]
−0.059
0.130
0.318
0.507
0.695
0.883
1.072
1.260
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


43 Level Covariance for : 02 [VMR^2] [x10^+1]
1.5
1.0
0.5
0.0
-0.5
150
100
50
0
Y Altitude
0
50
100
150
X Altitude