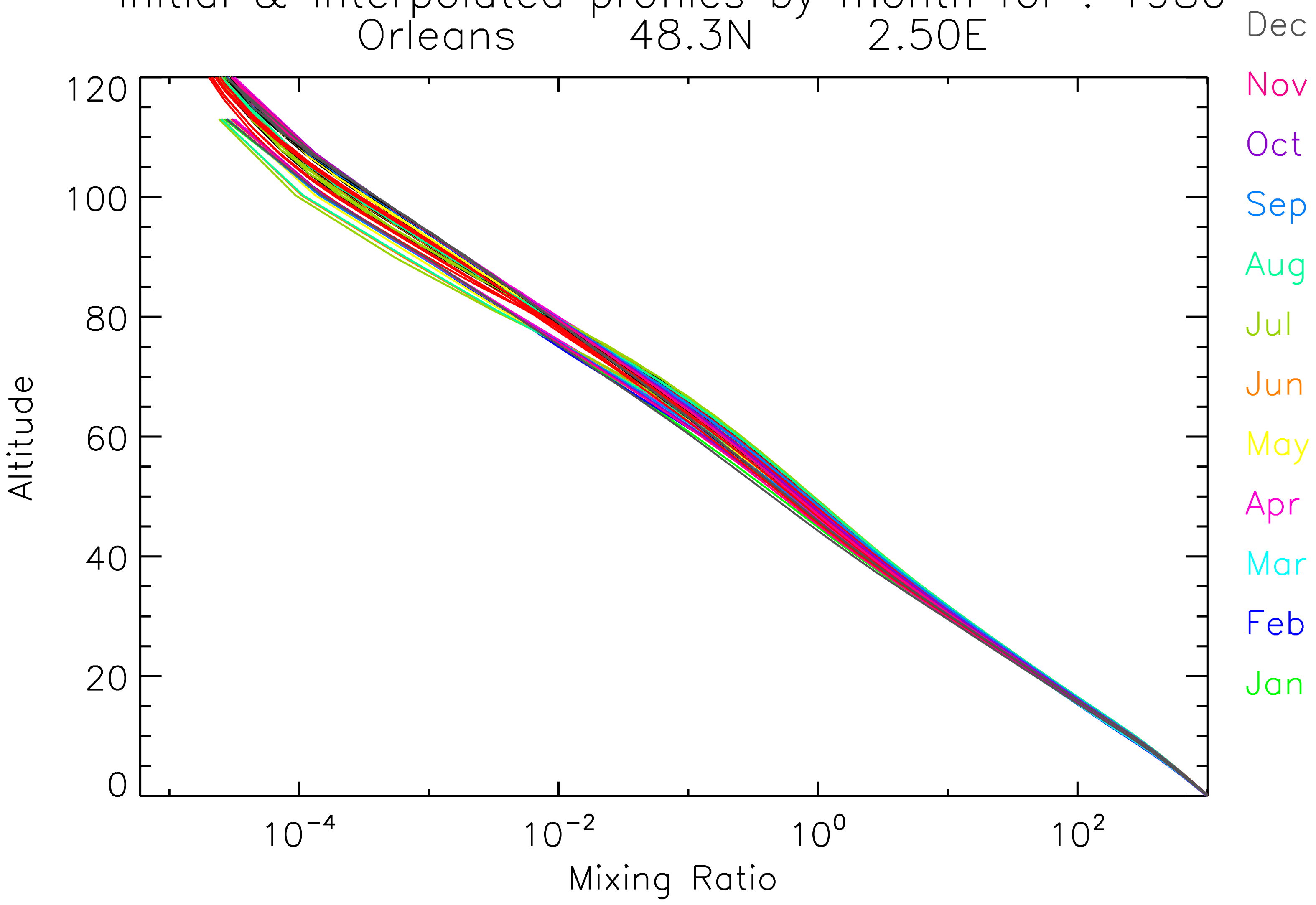
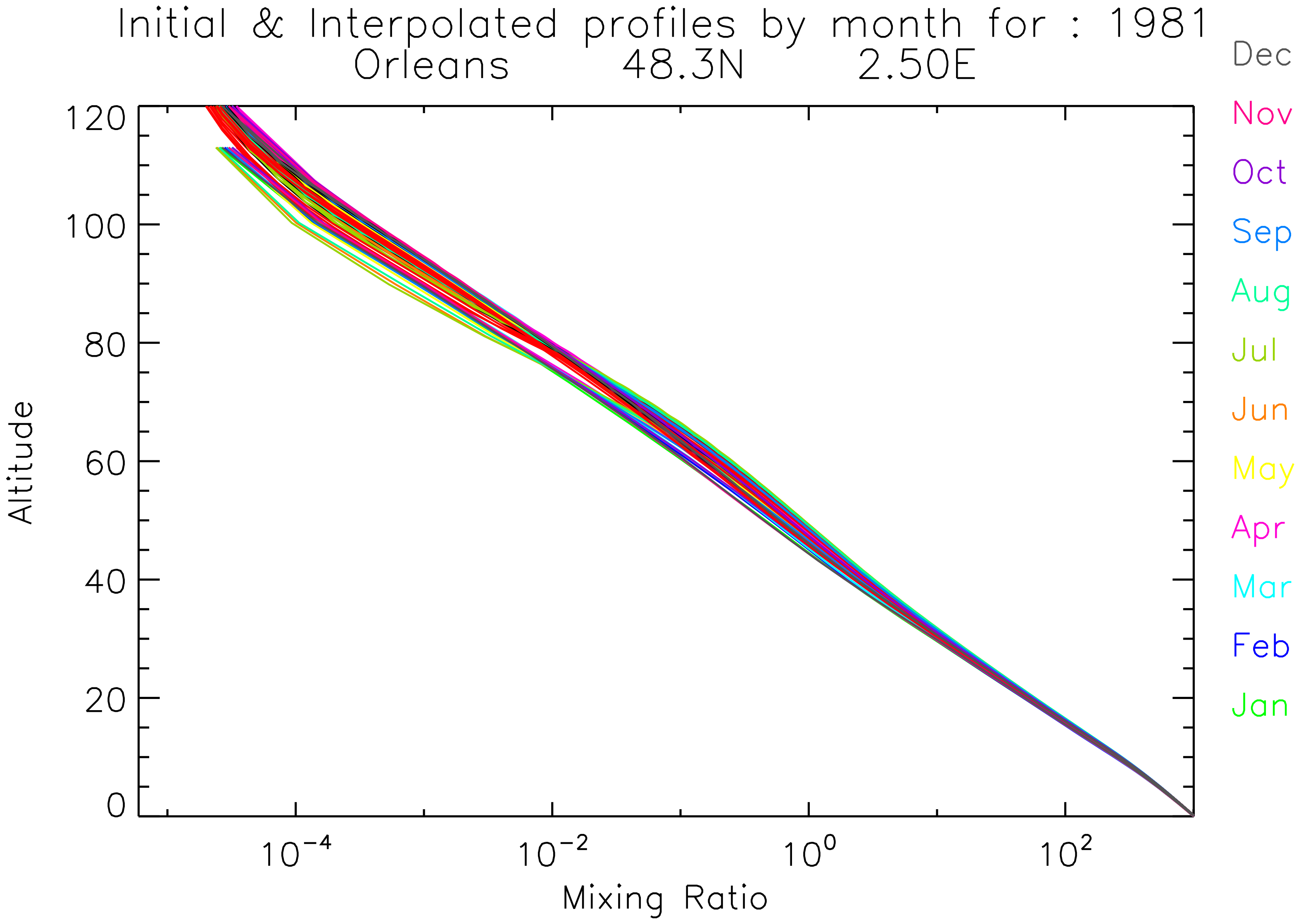
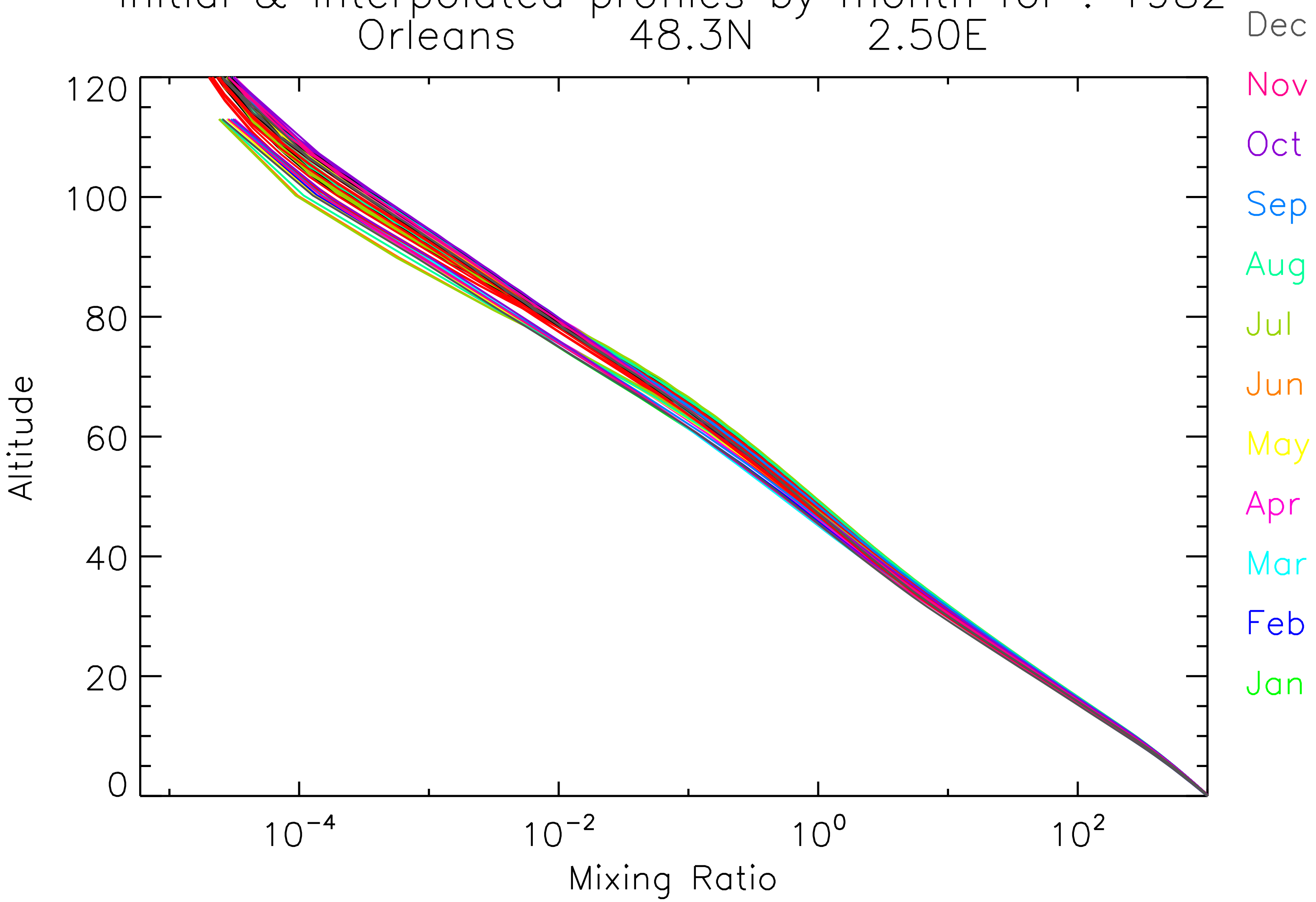
Initial & Interpolated profiles by month for : 1980
Orleans 48.3N 2.50E

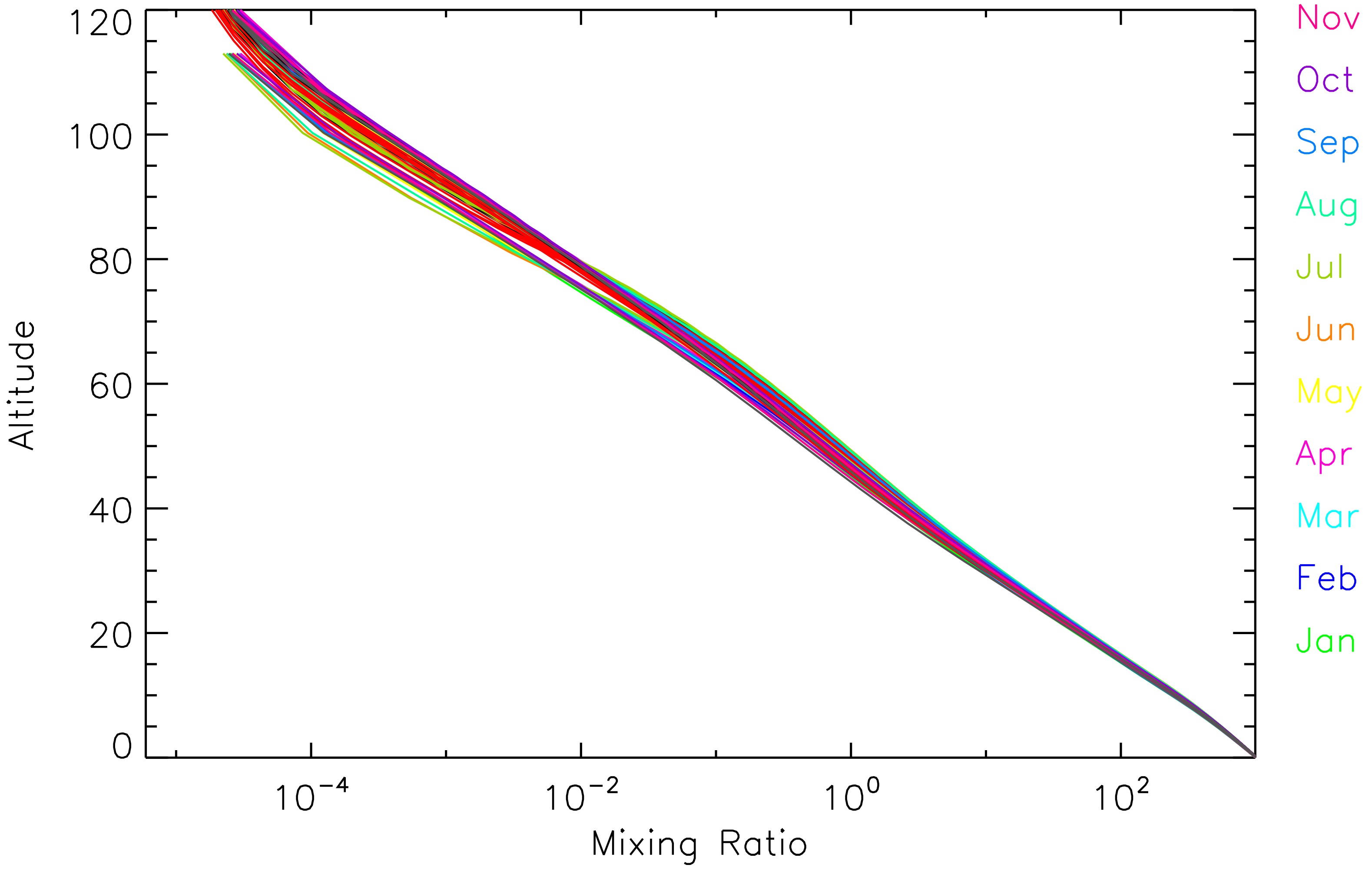




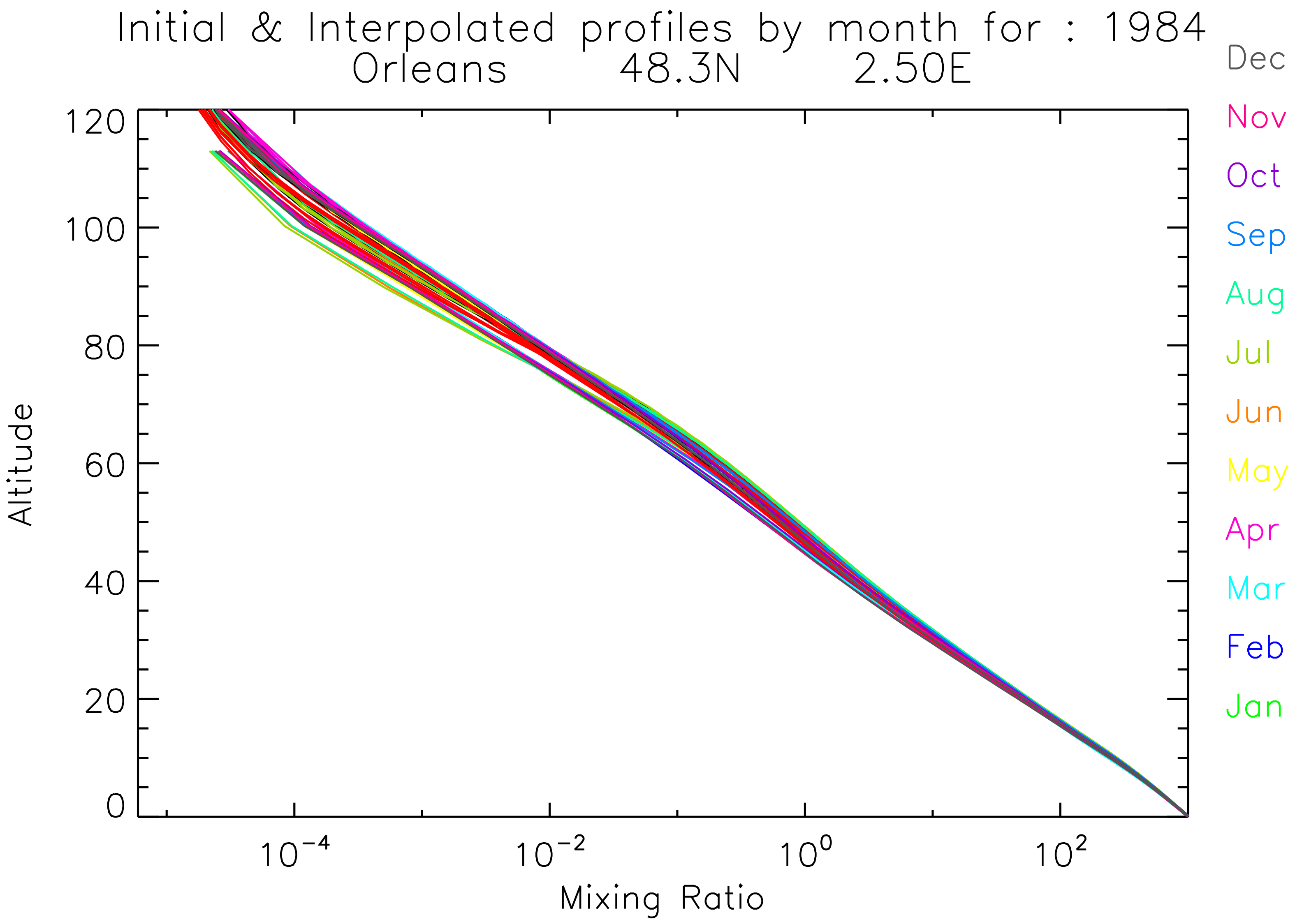
Initial & Interpolated profiles by month for : 1981
Orleans 48.3N 2.50E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

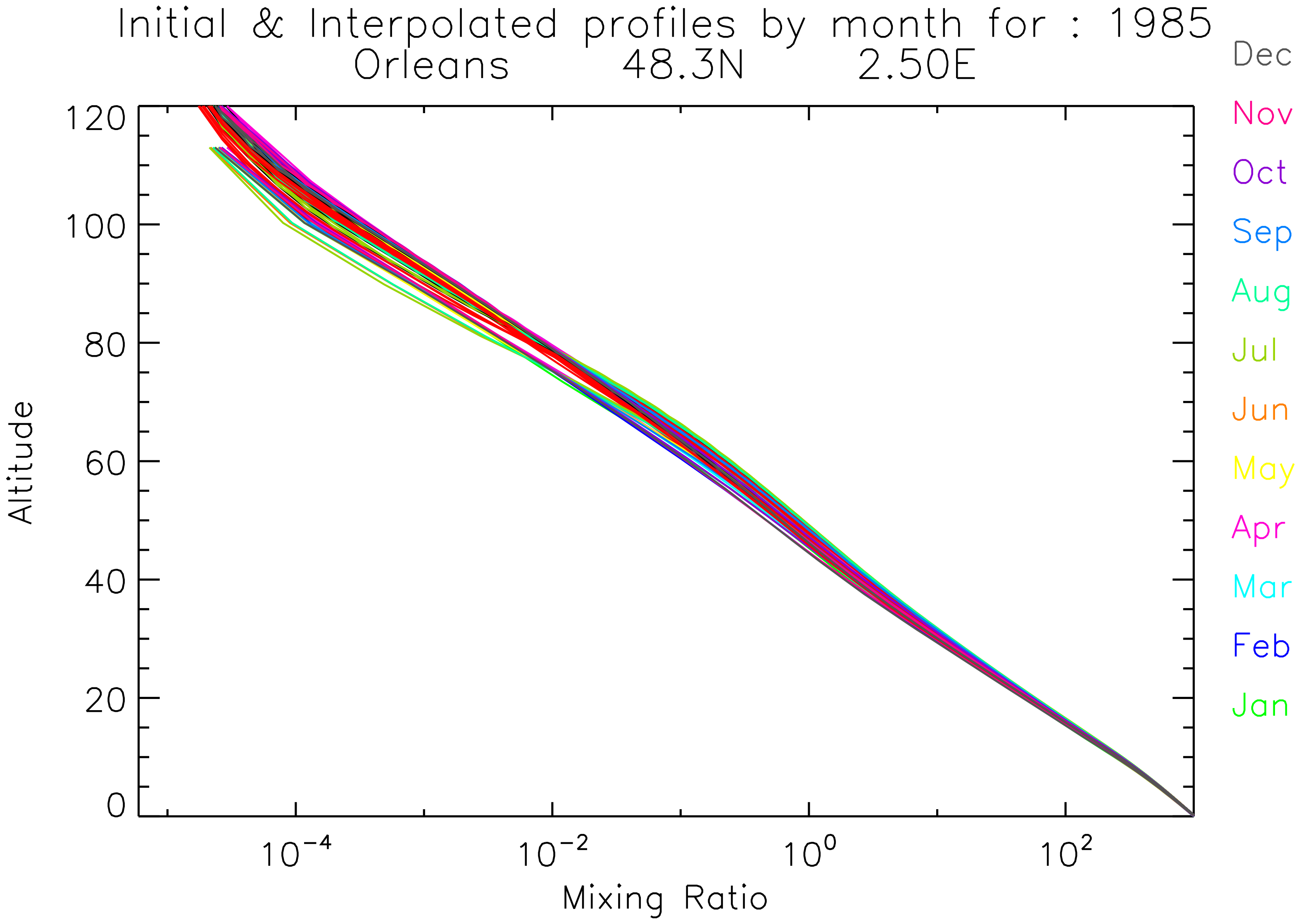
Initial & Interpolated profiles by month for : 1982
Orleans 48.3N 2.50E

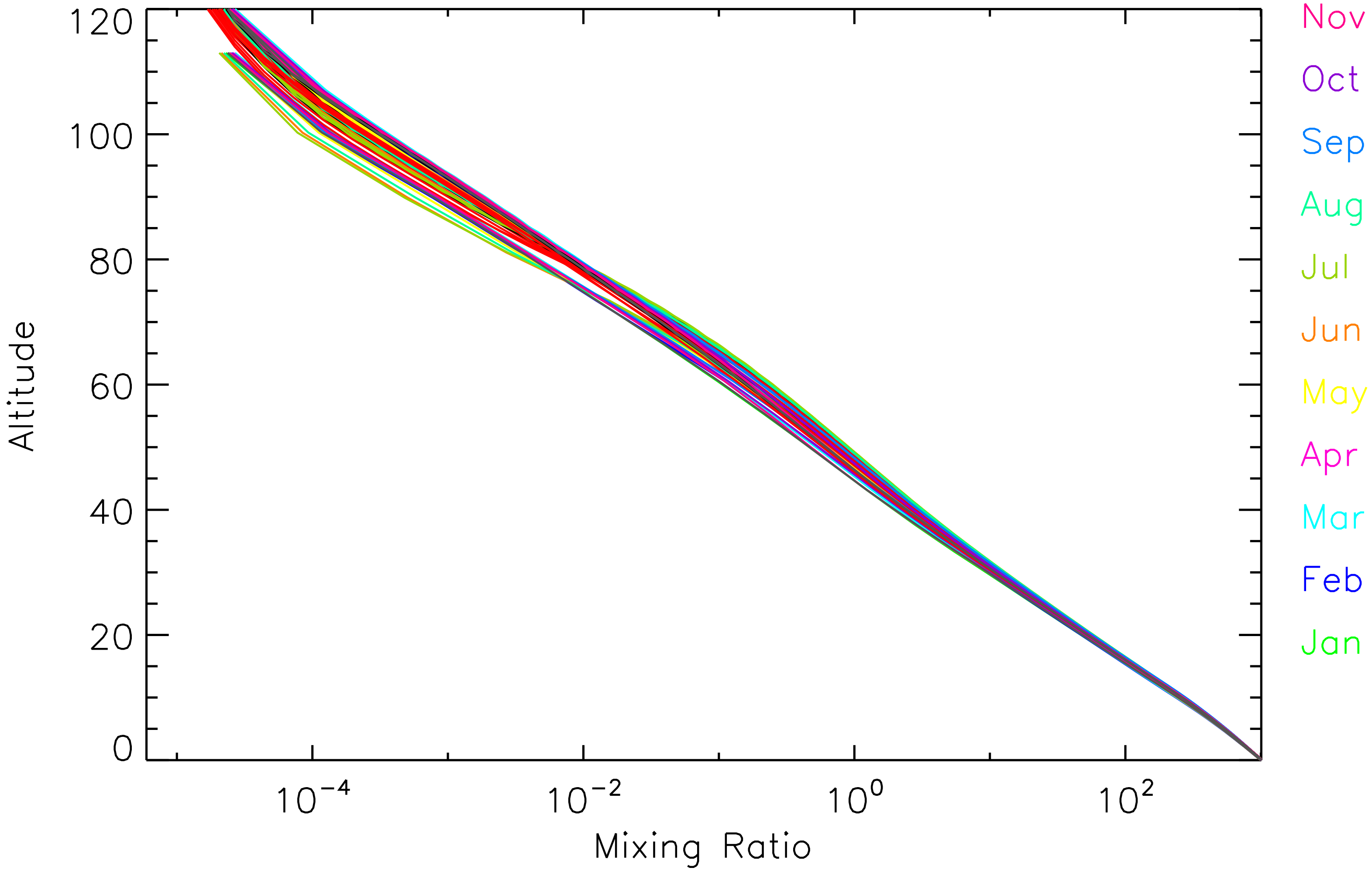


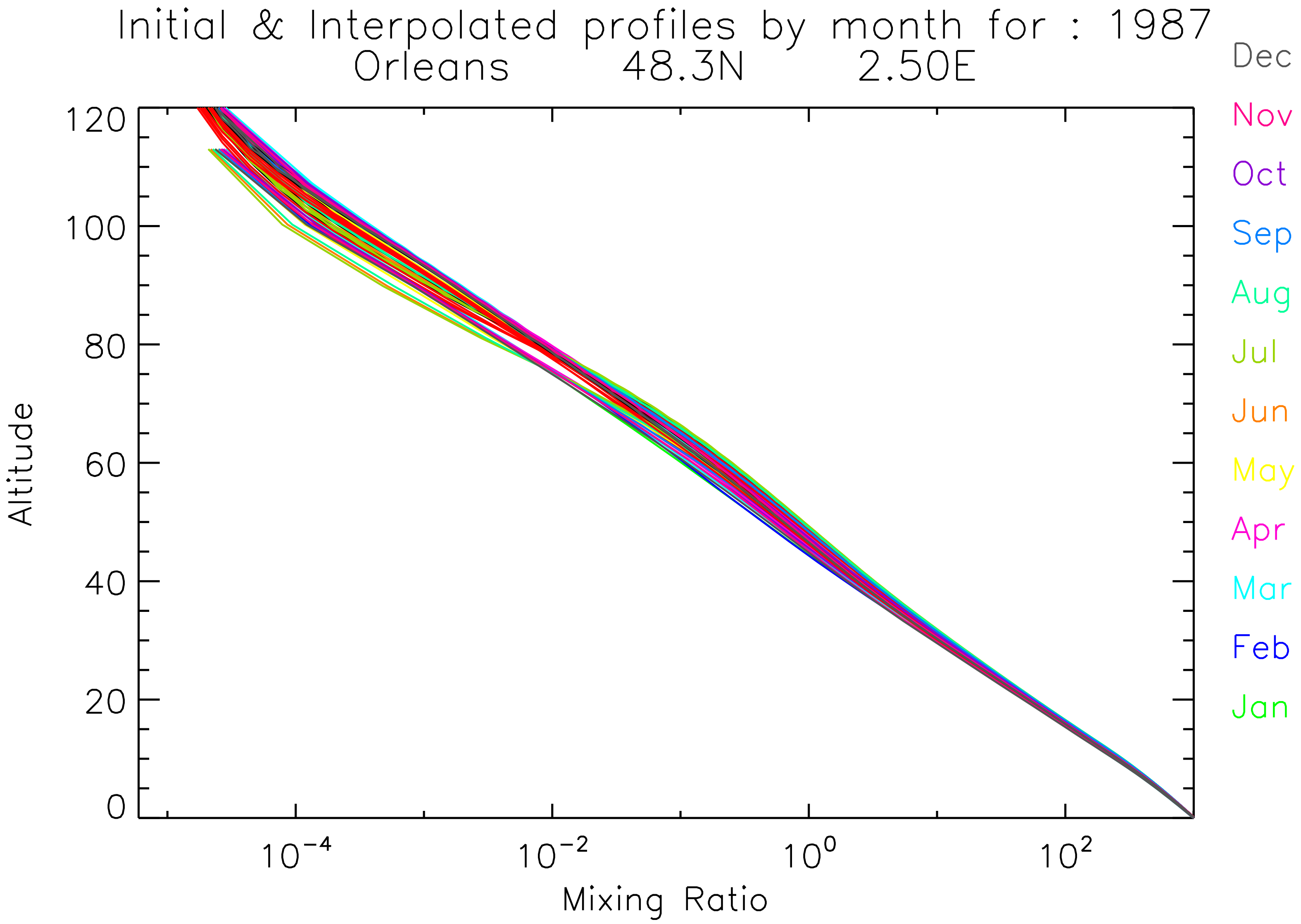


Initial & Interpolated profiles by month for : 1983
Orleans 48.3N 2.50E

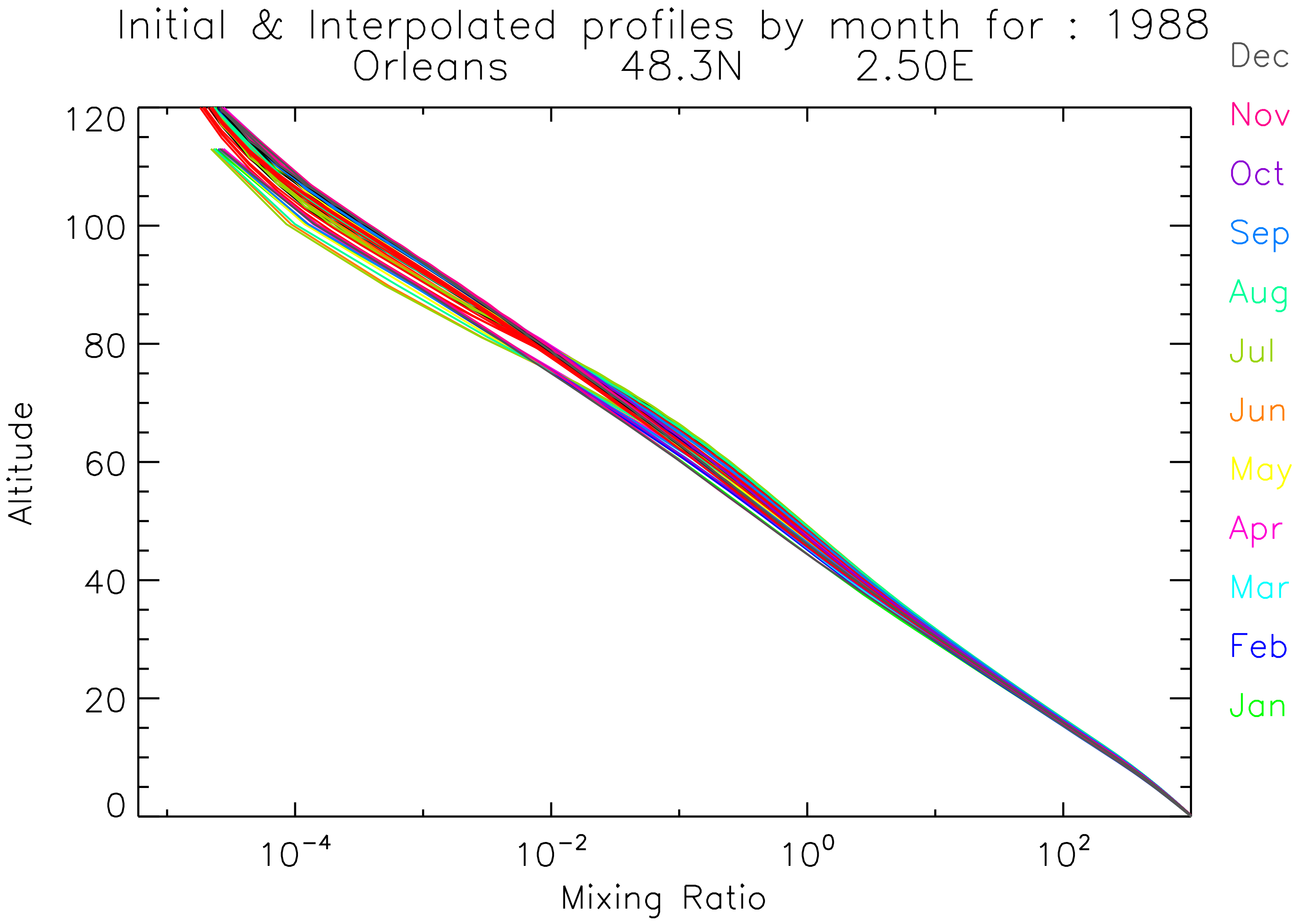

Initial & Interpolated profiles by month for : 1984
Orleans 48.3N 2.50E


Initial & Interpolated profiles by month for : 1985
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

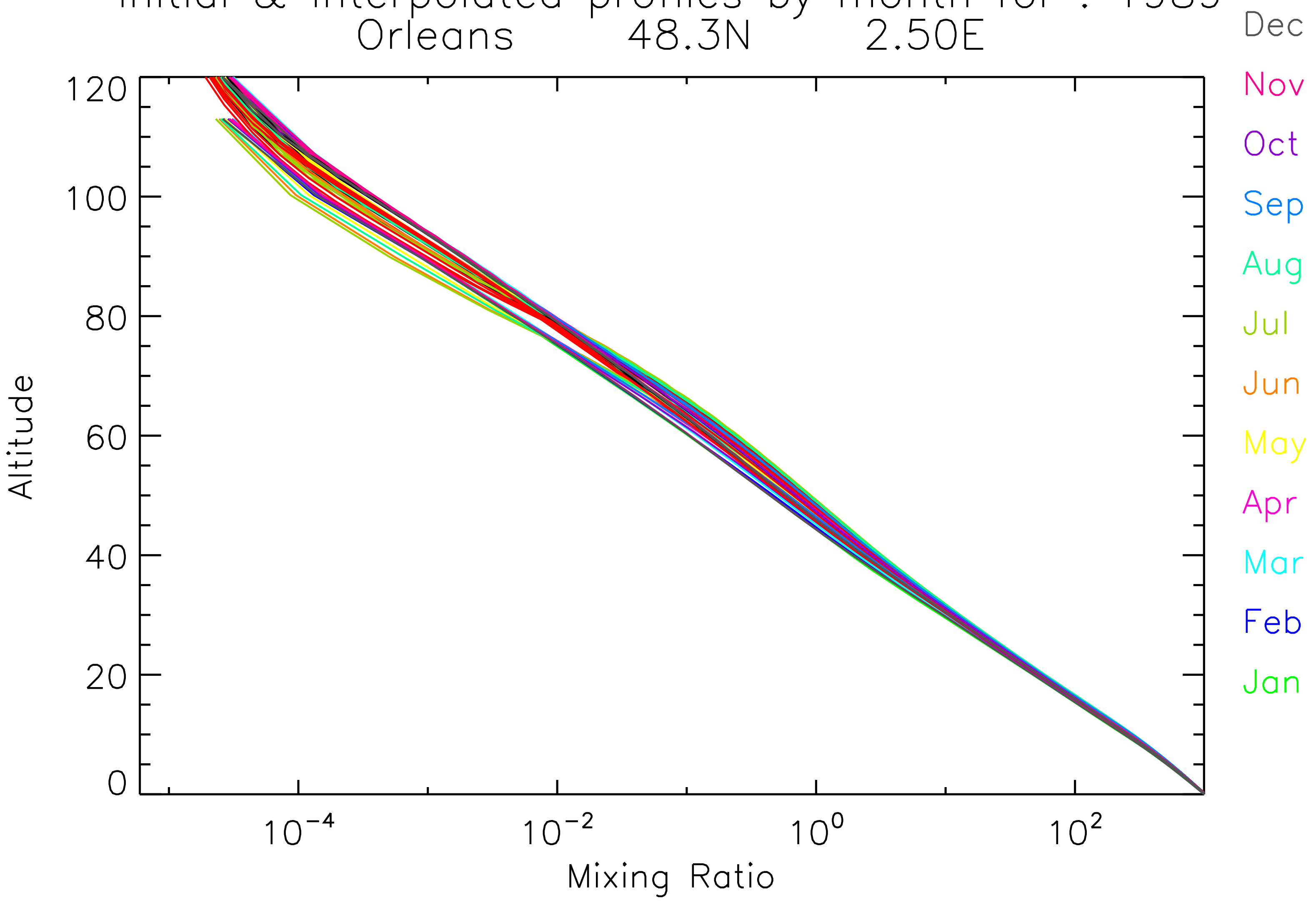

Initial & Interpolated profiles by month for : 1986
Orleans 48.3N 2.50E

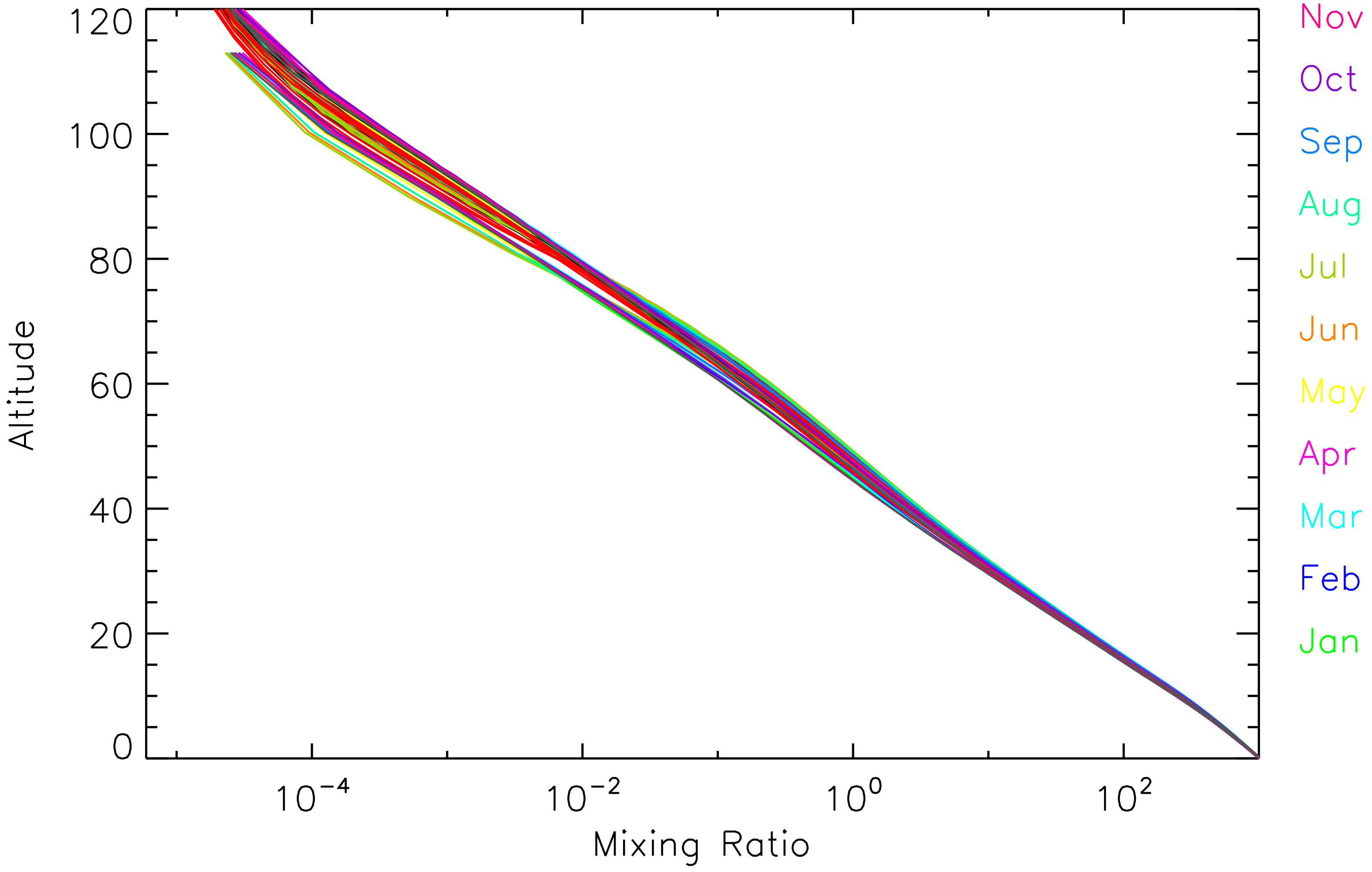


Initial & Interpolated profiles by month for : 1987
Orleans 48.3N 2.50E

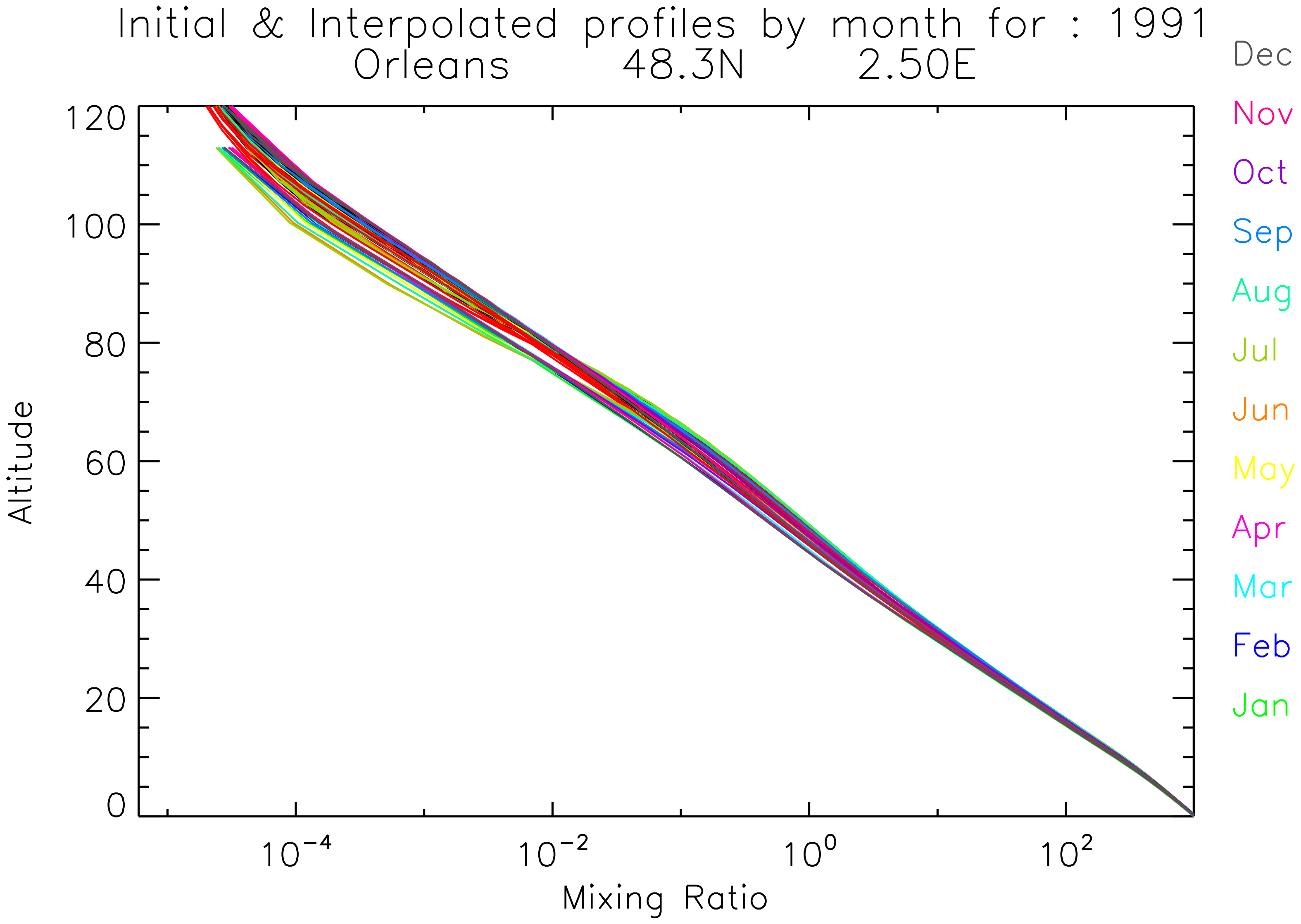

Initial & Interpolated profiles by month for : 1988
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

Initial & Interpolated profiles by month for : 1989
Orleans 48.3N 2.50E

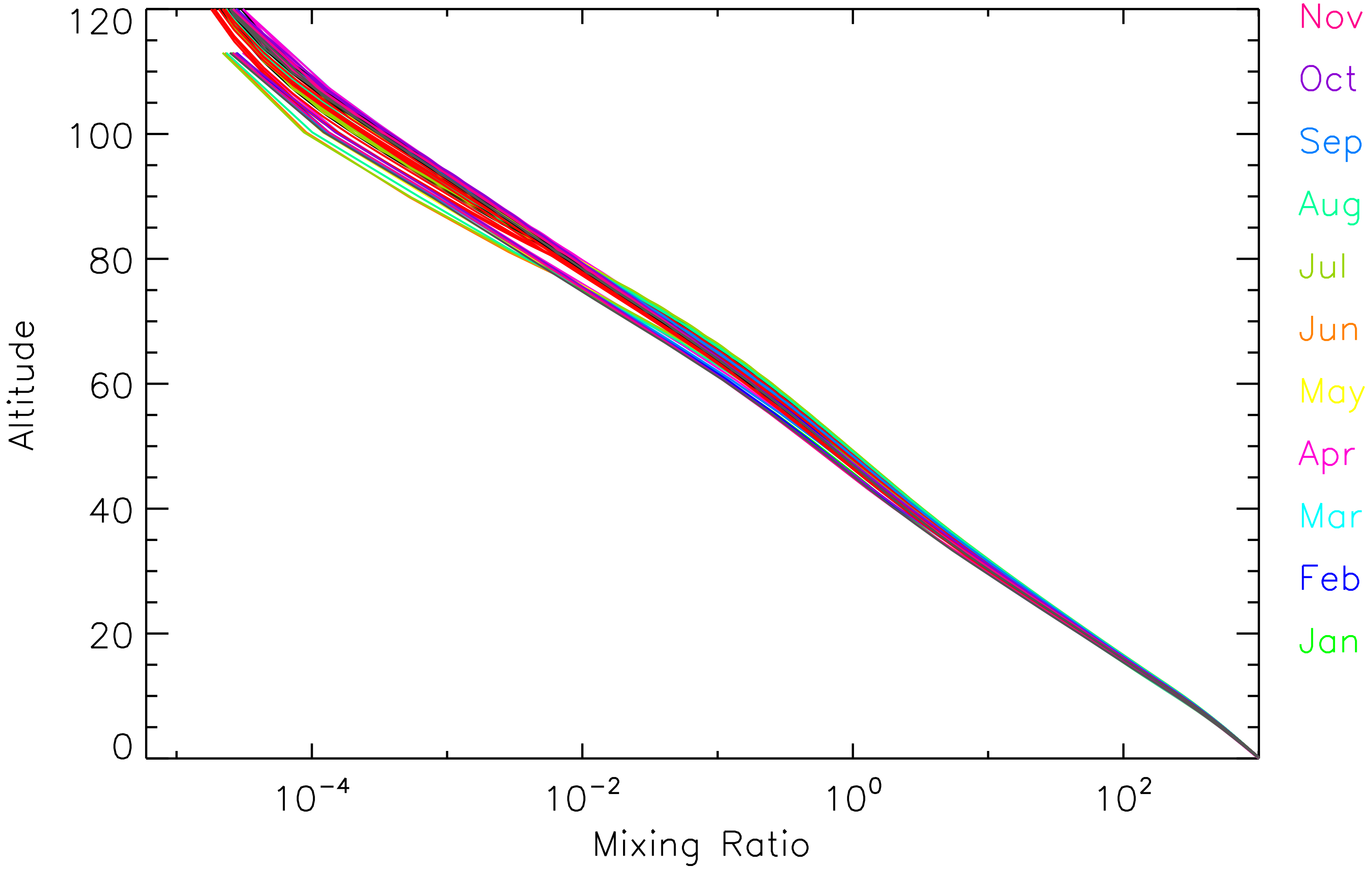




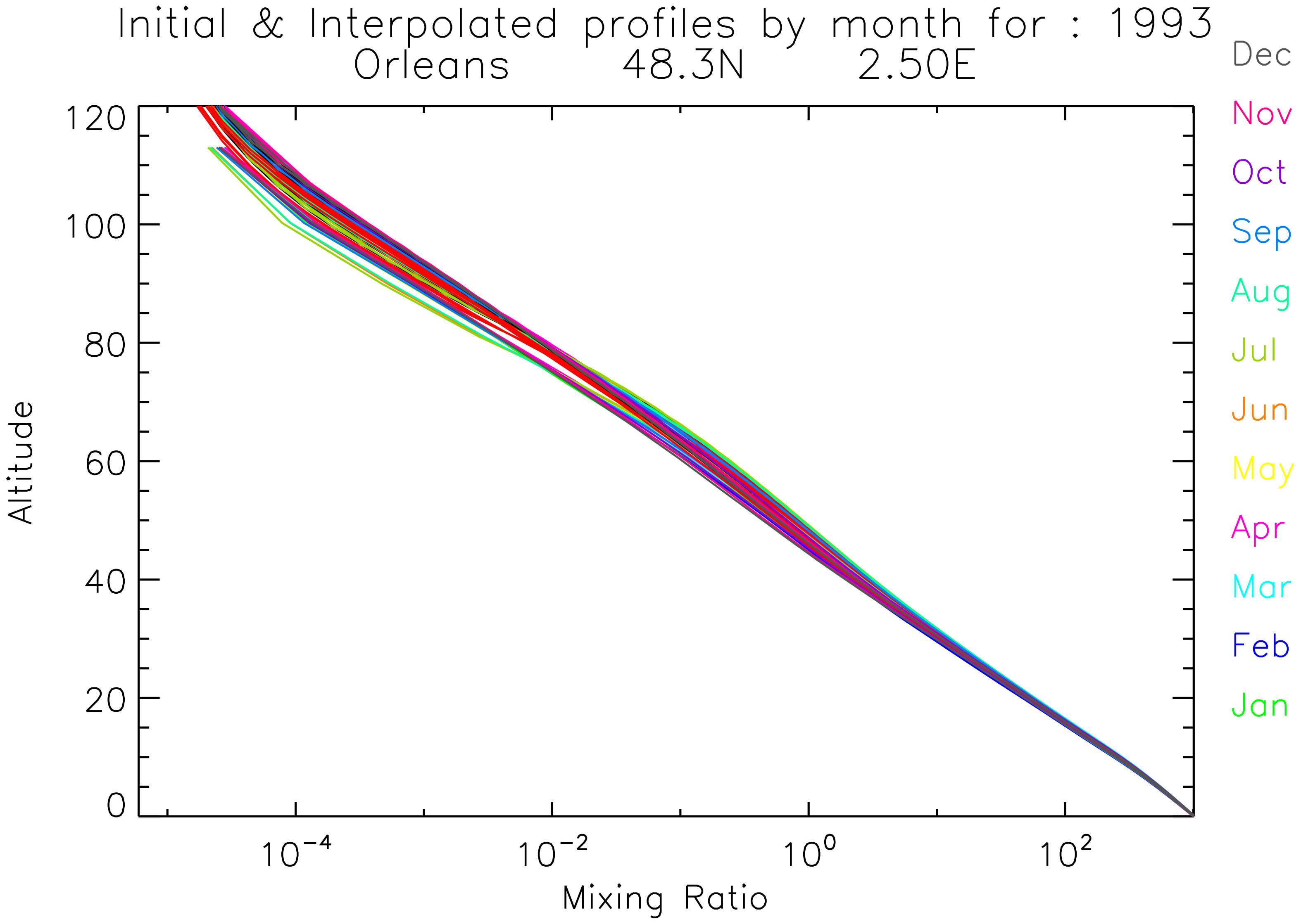
Initial & Interpolated profiles by month for : 1990
Orleans 48.3N 2.50E



Initial & Interpolated profiles by month for : 1991
Orleans 48.3N 2.50E

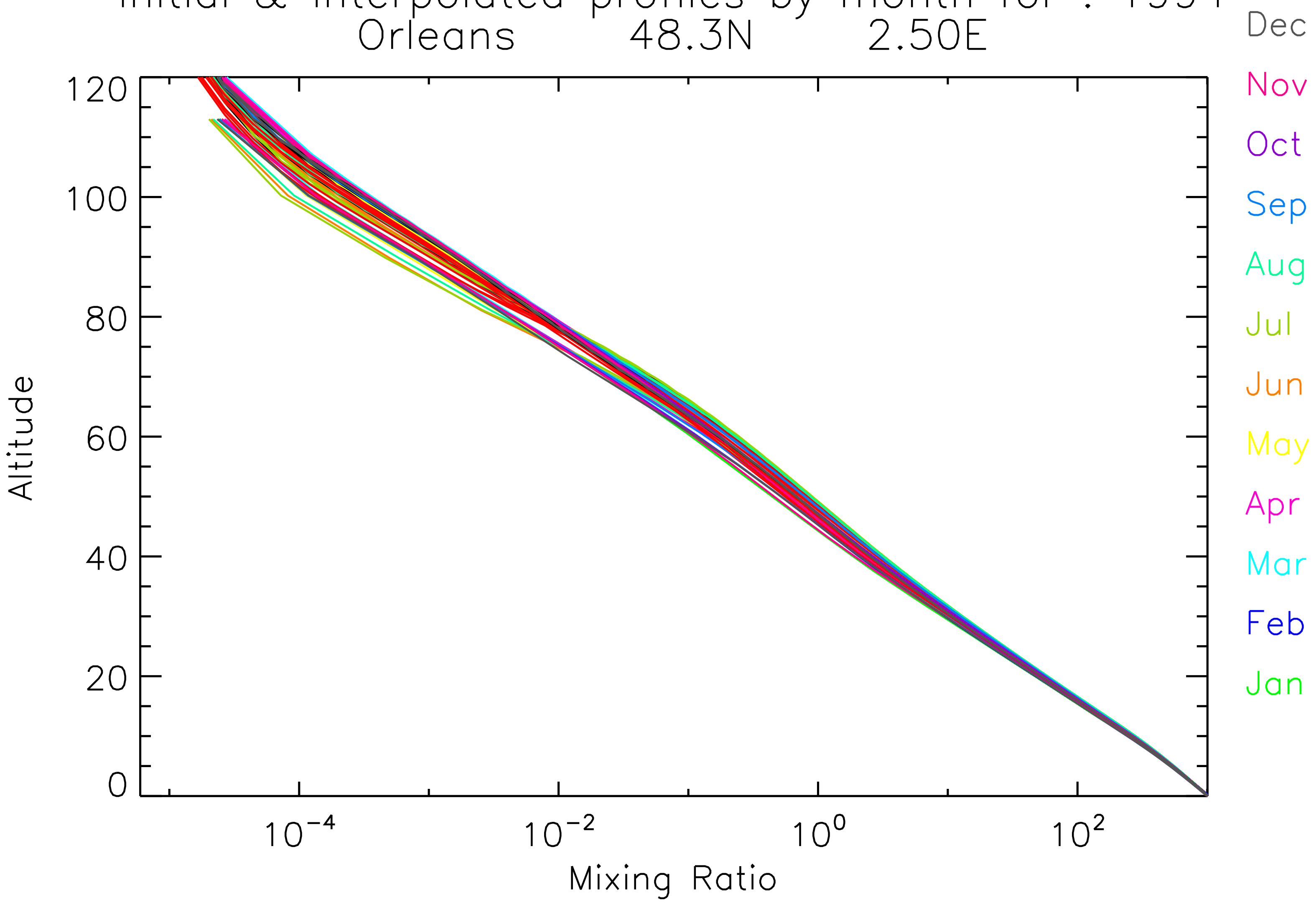


Initial & Interpolated profiles by month for : 1992
Orleans 48.3N 2.50E

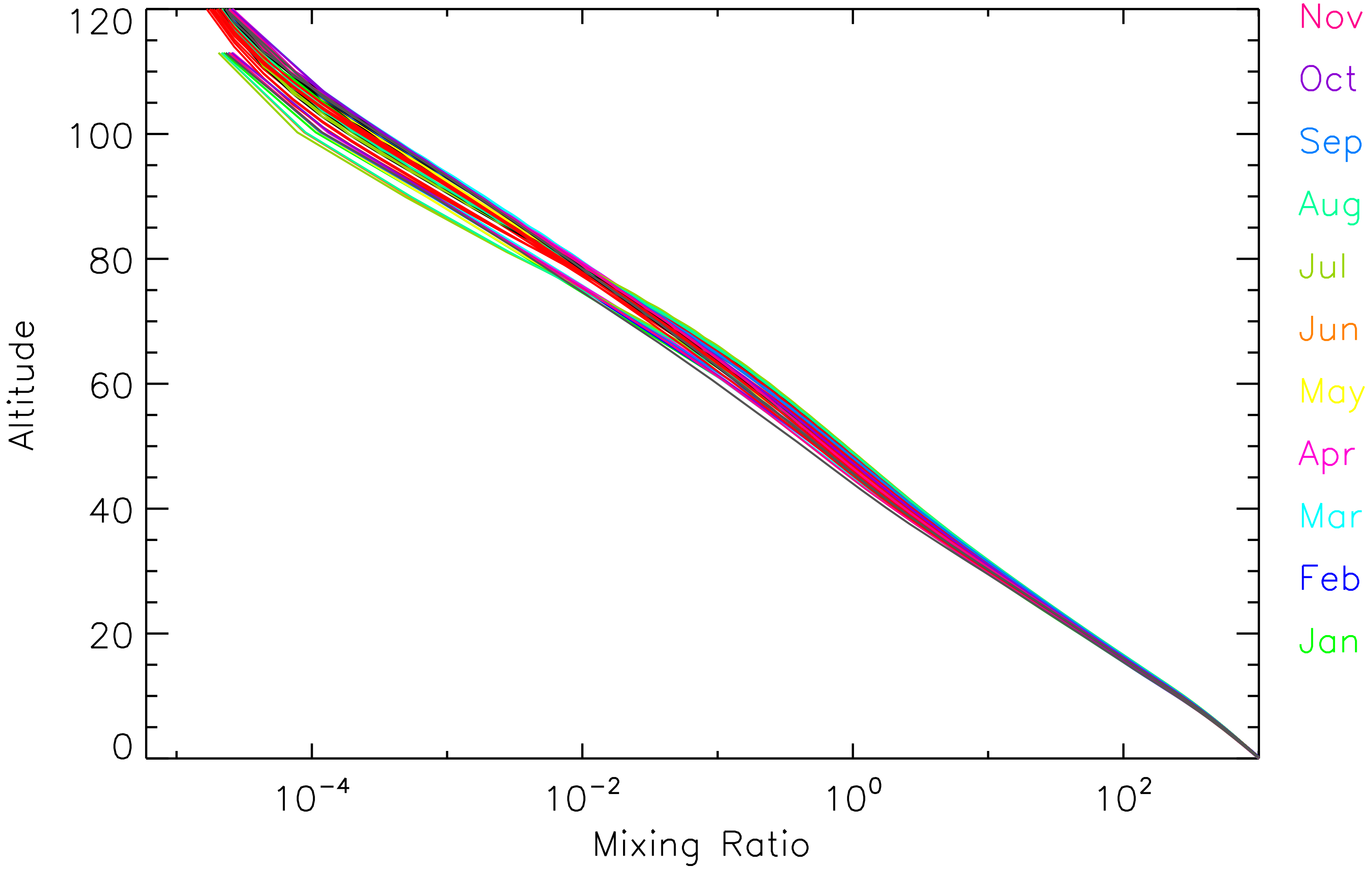


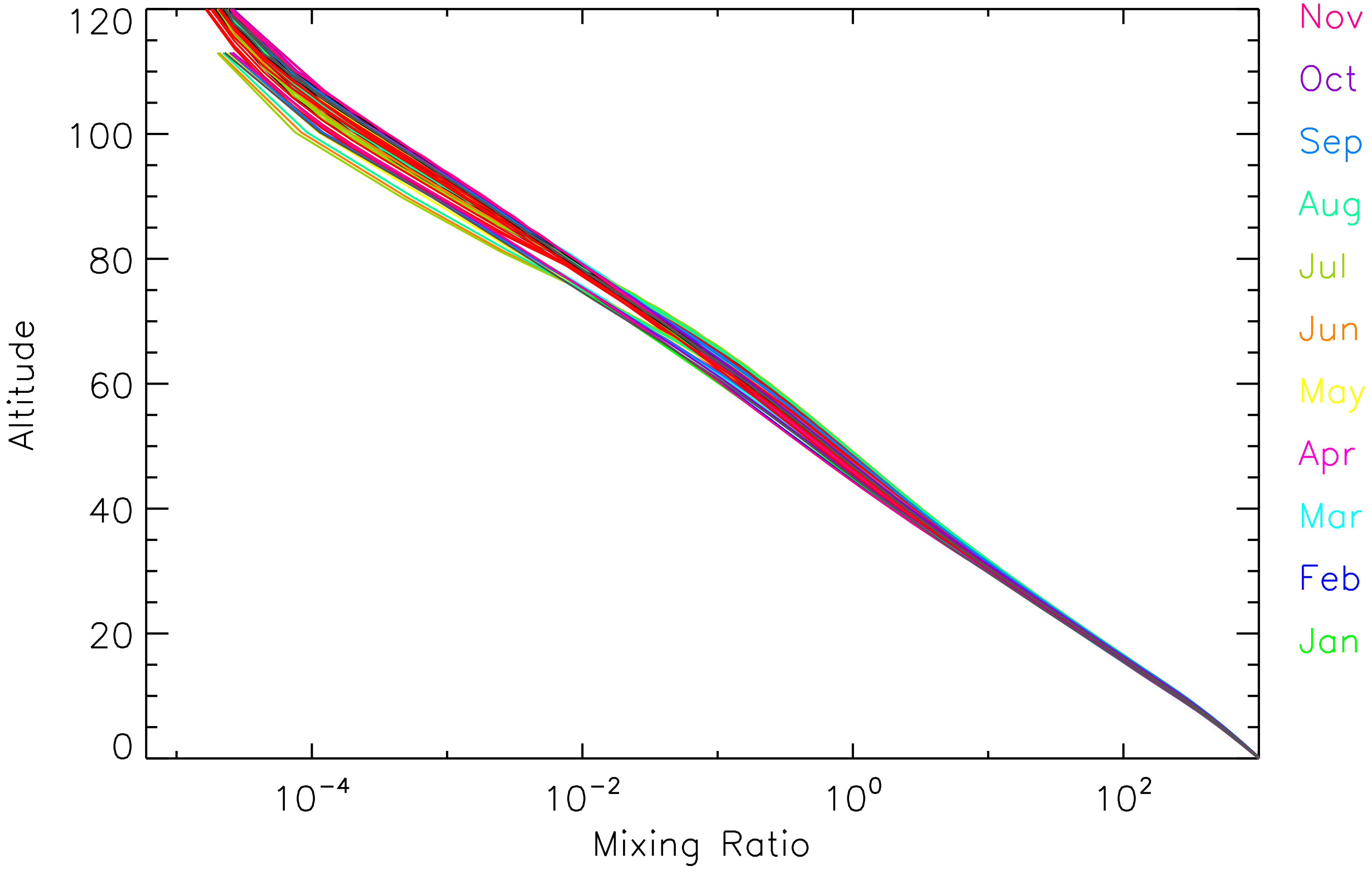
Initial & Interpolated profiles by month for : 1993
Orleans 48.3N 2.50E

Initial & Interpolated profiles by month for : 1994
Orleans 48.3N 2.50E

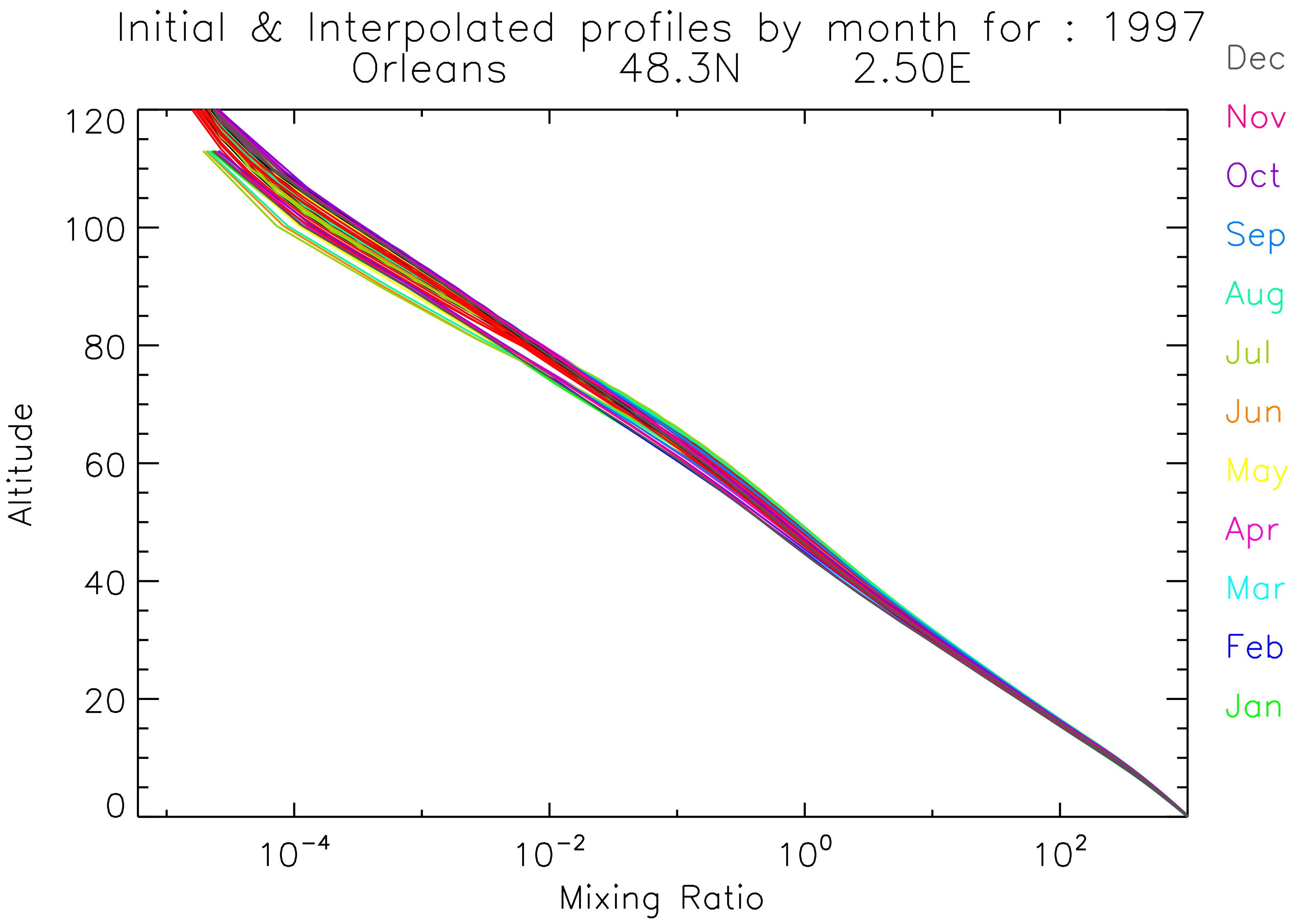


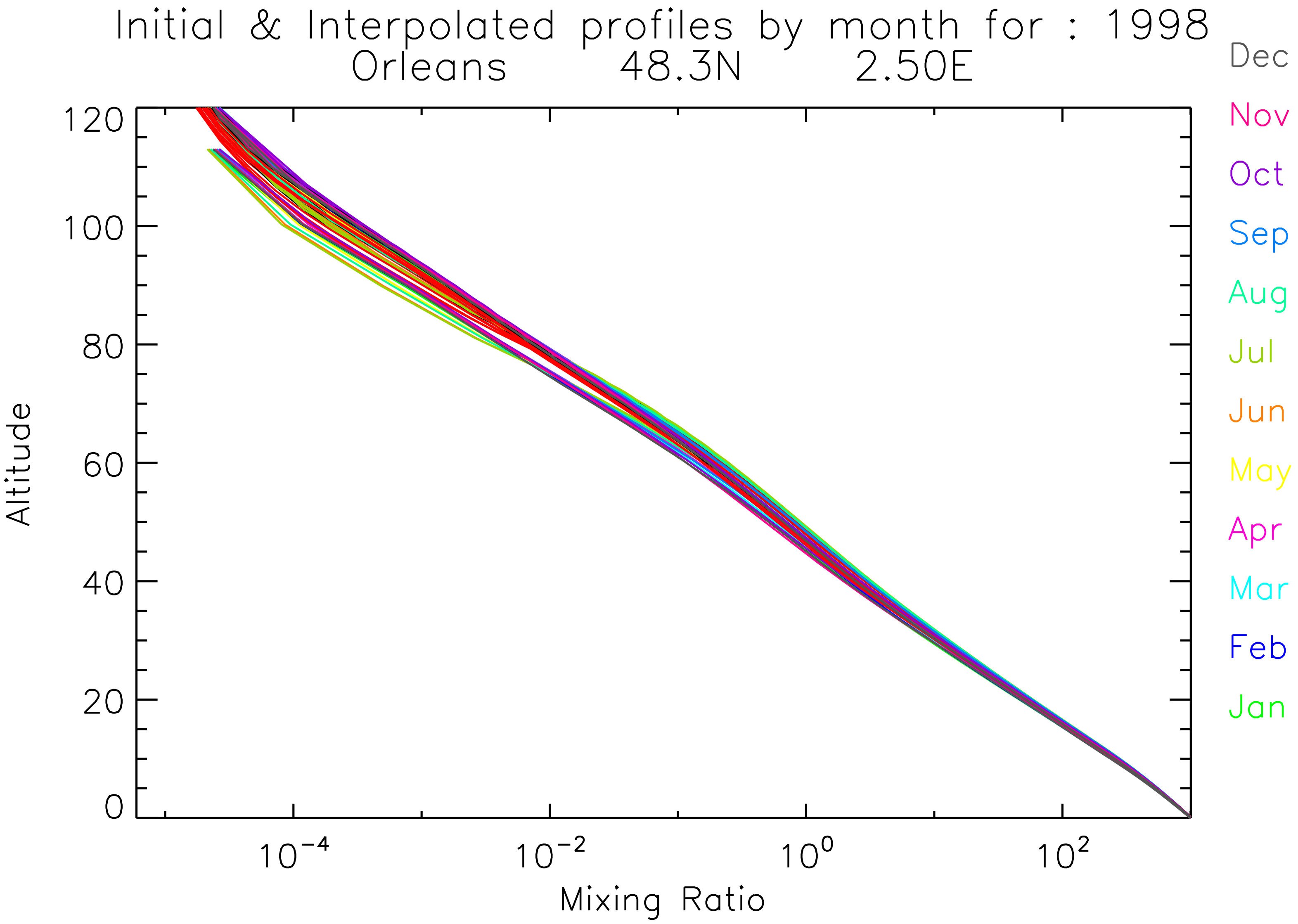
Initial & Interpolated profiles by month for : 1995
Orleans 48.3N 2.50E



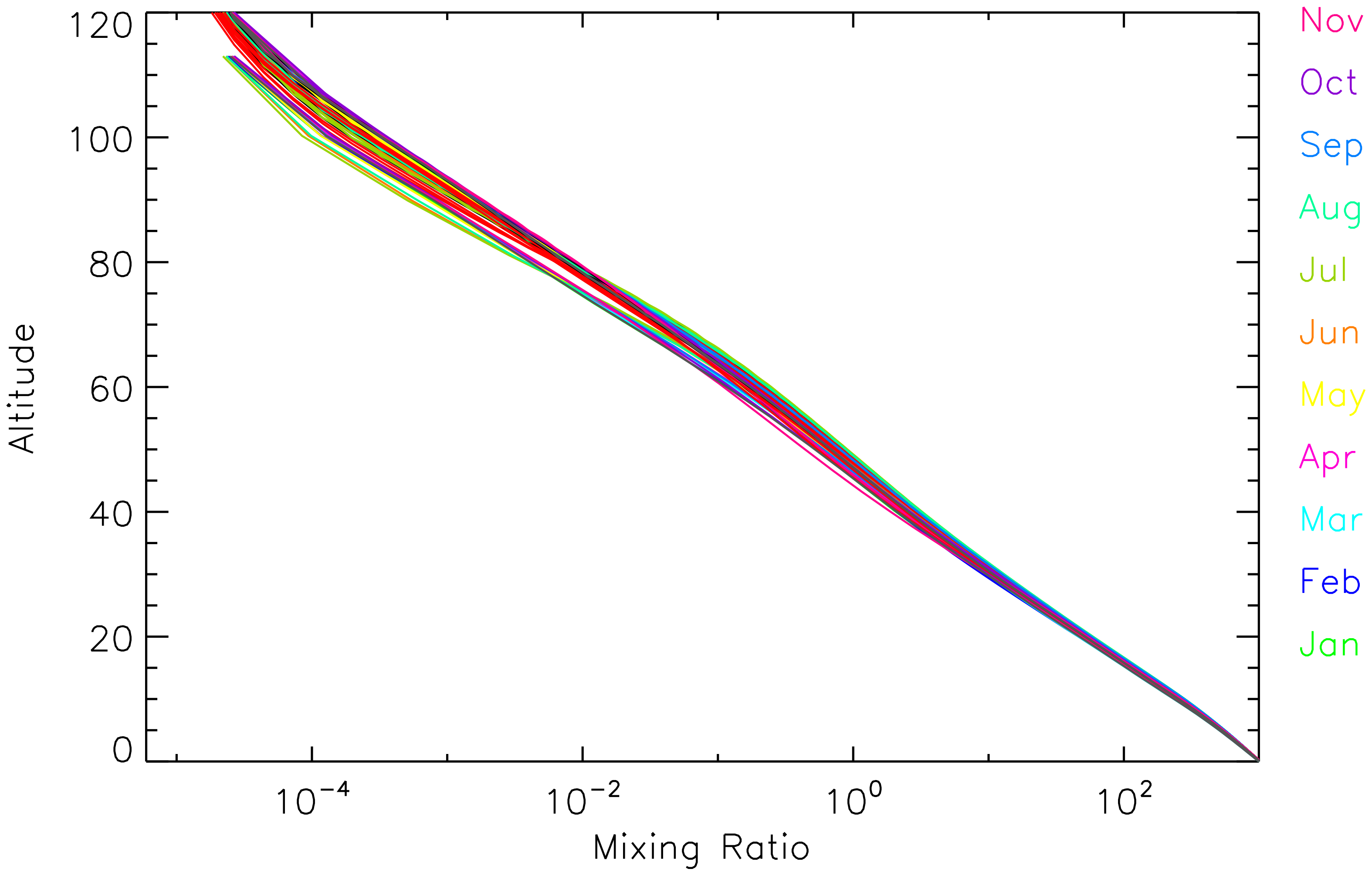


Initial & Interpolated profiles by month for : 1996
Orleans 48.3N 2.50E

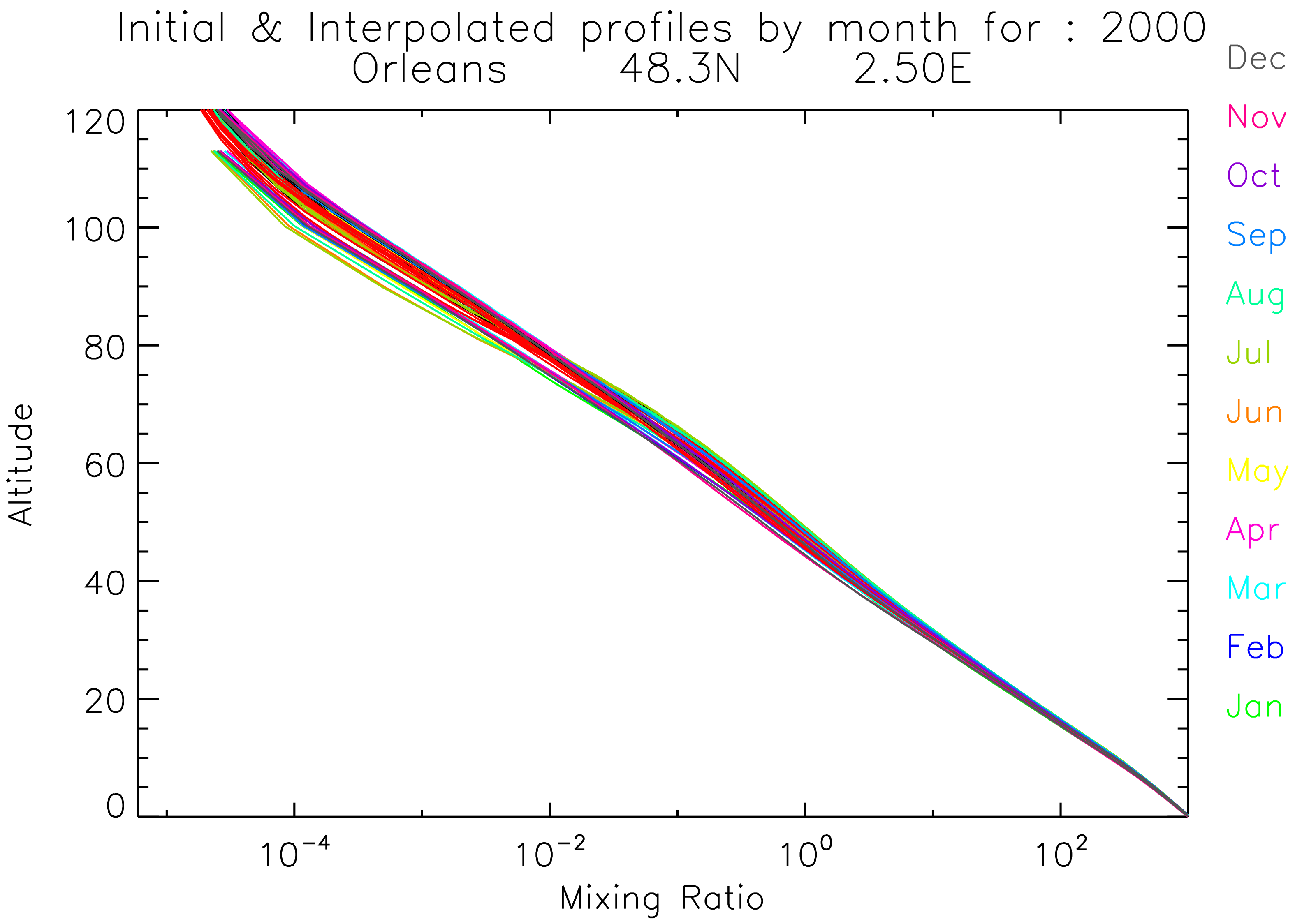

Initial & Interpolated profiles by month for : 1997
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



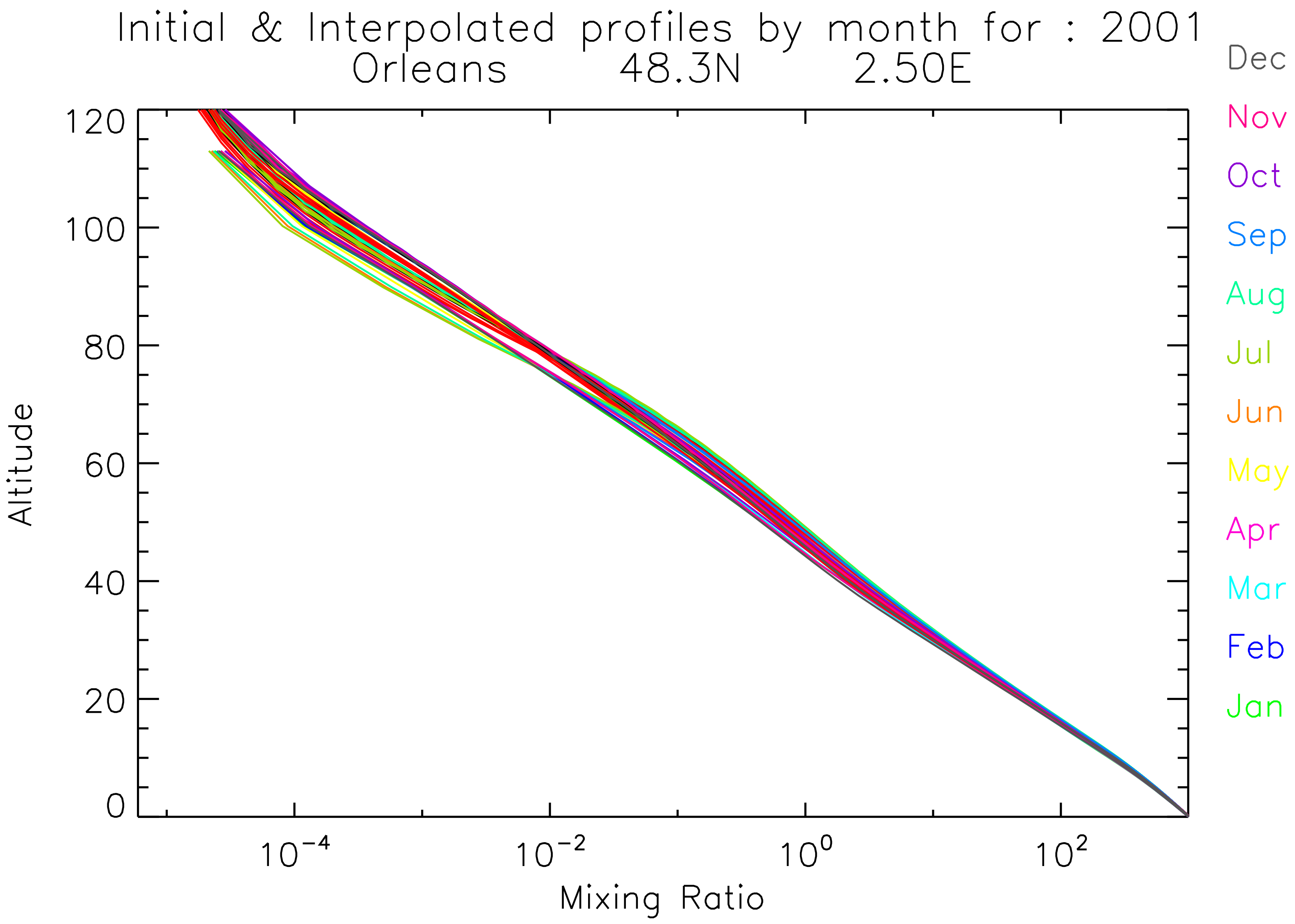
Initial & Interpolated profiles by month for : 1998
Orleans 48.3N 2.50E
Altitude
120
100
80
60
40
20
0
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

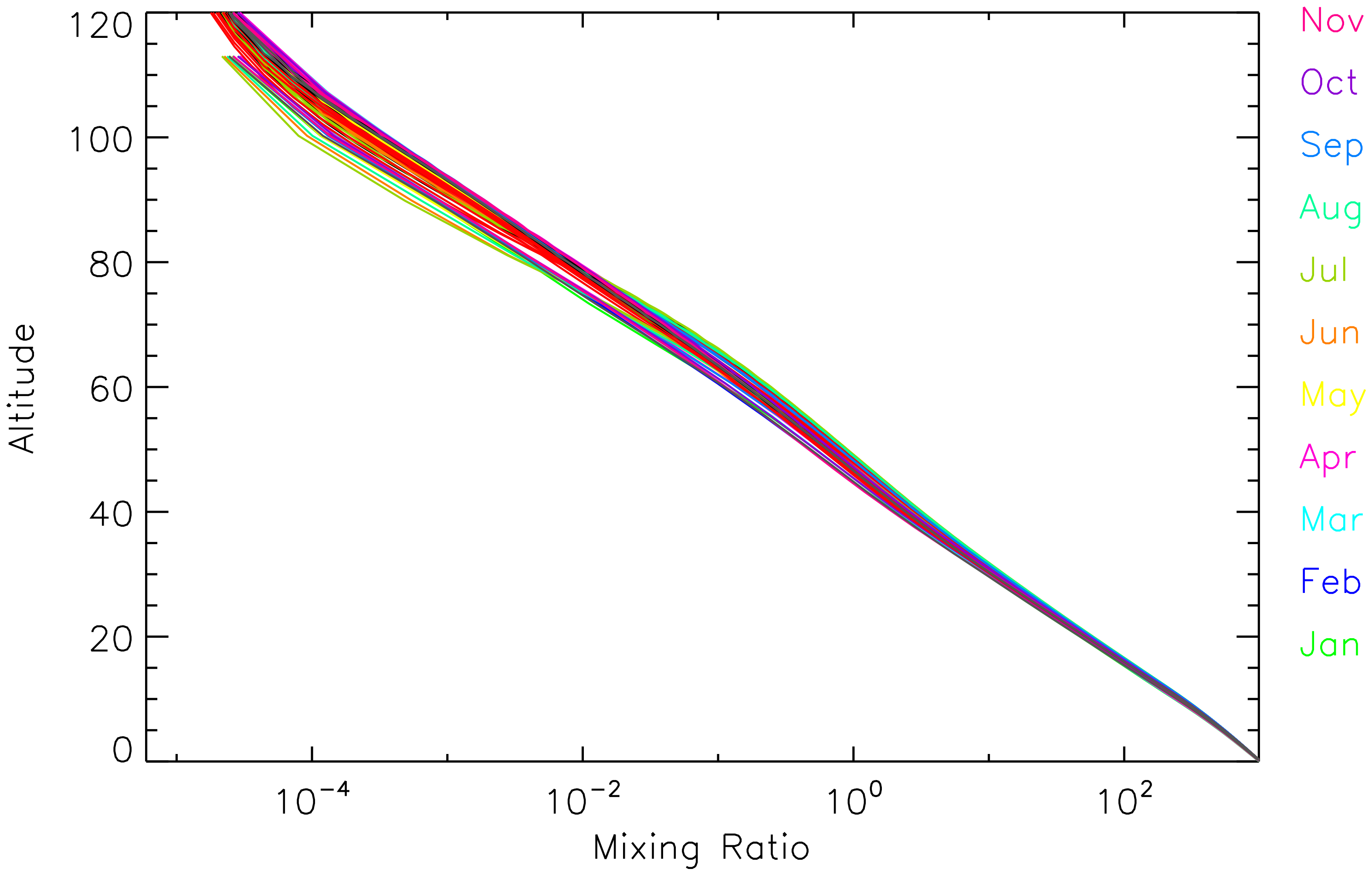


Initial & Interpolated profiles by month for : 1999
Orleans 48.3N 2.50E

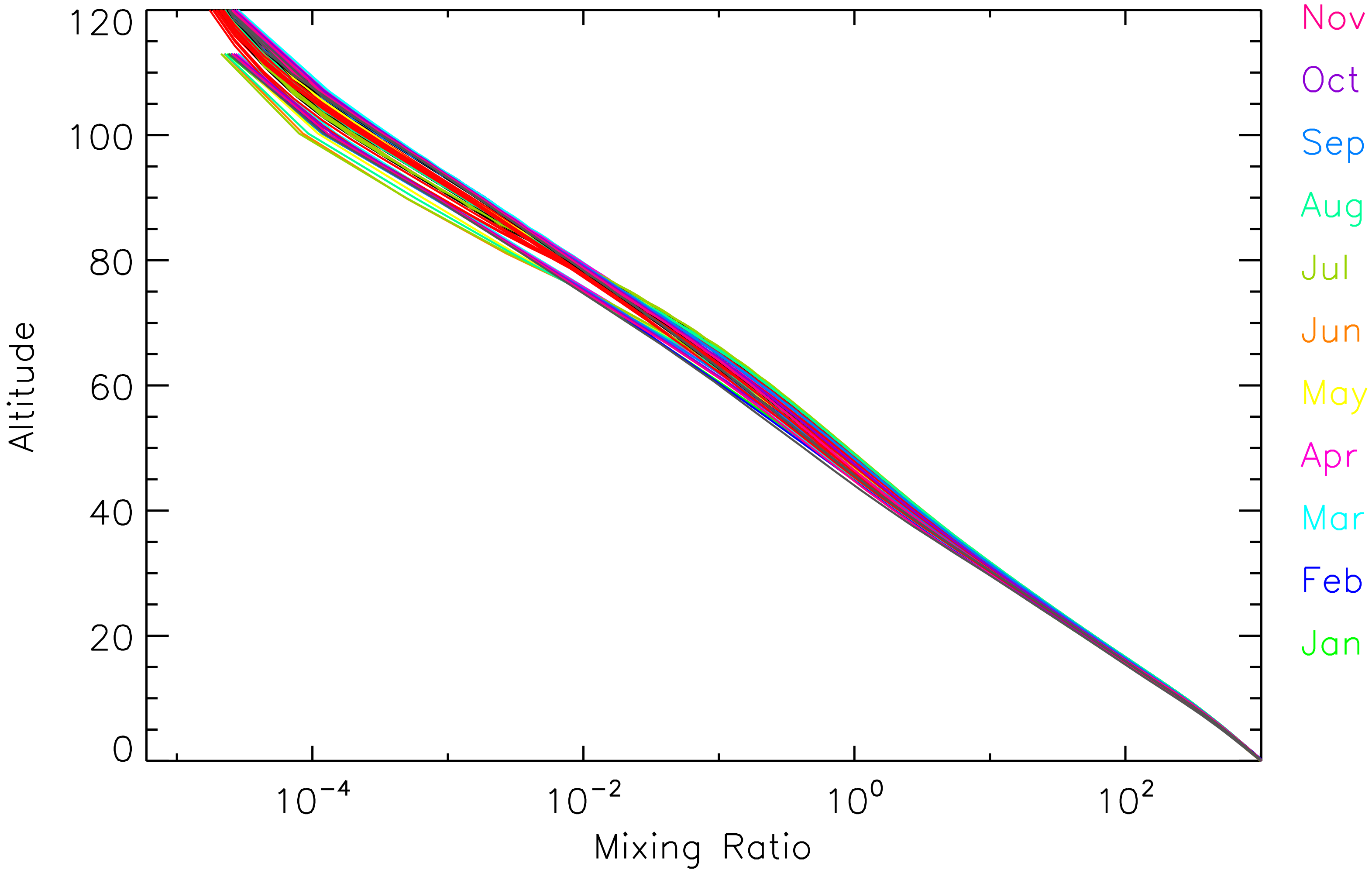


Initial & Interpolated profiles by month for : 2000
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

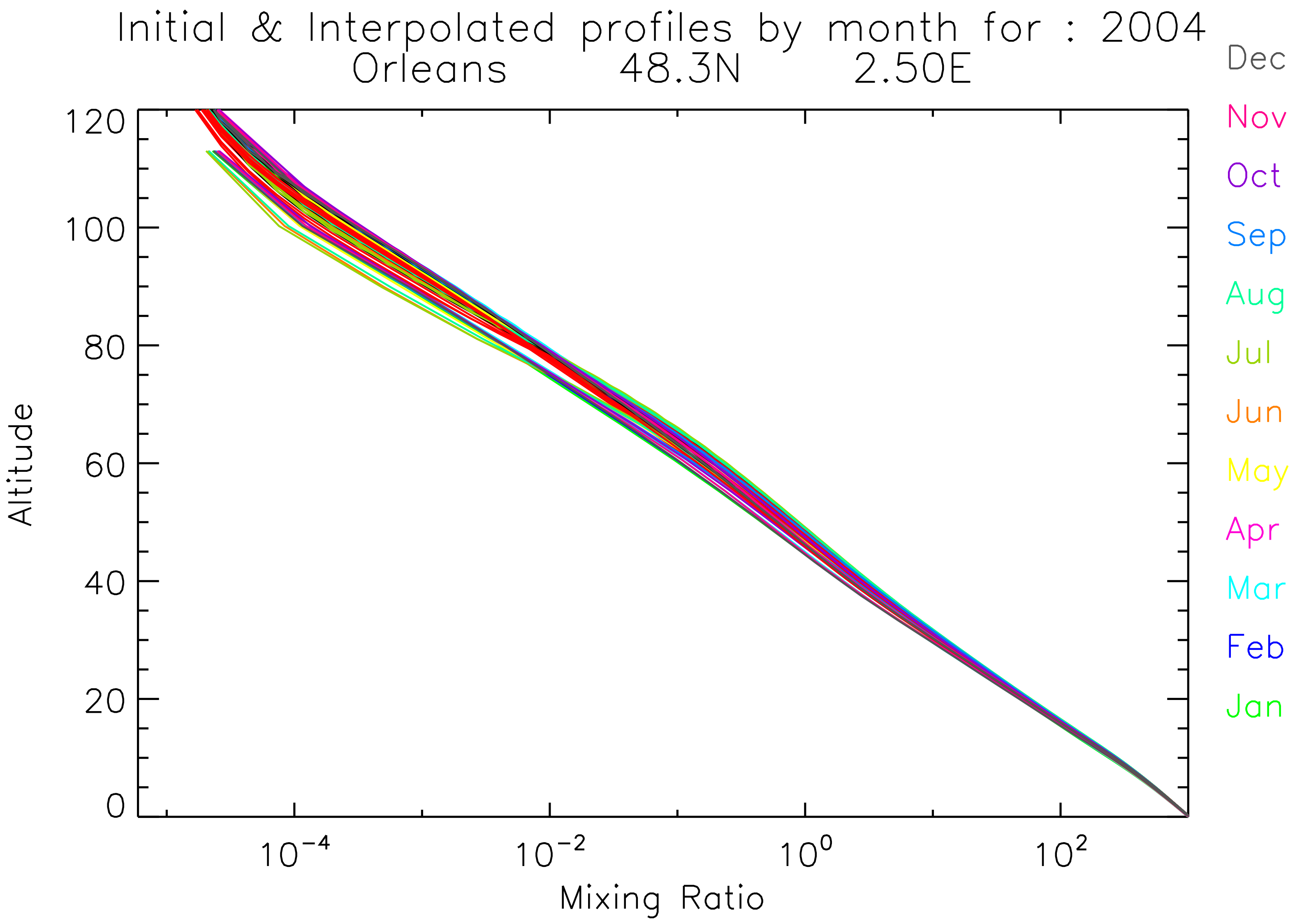

Initial & Interpolated profiles by month for : 2001
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

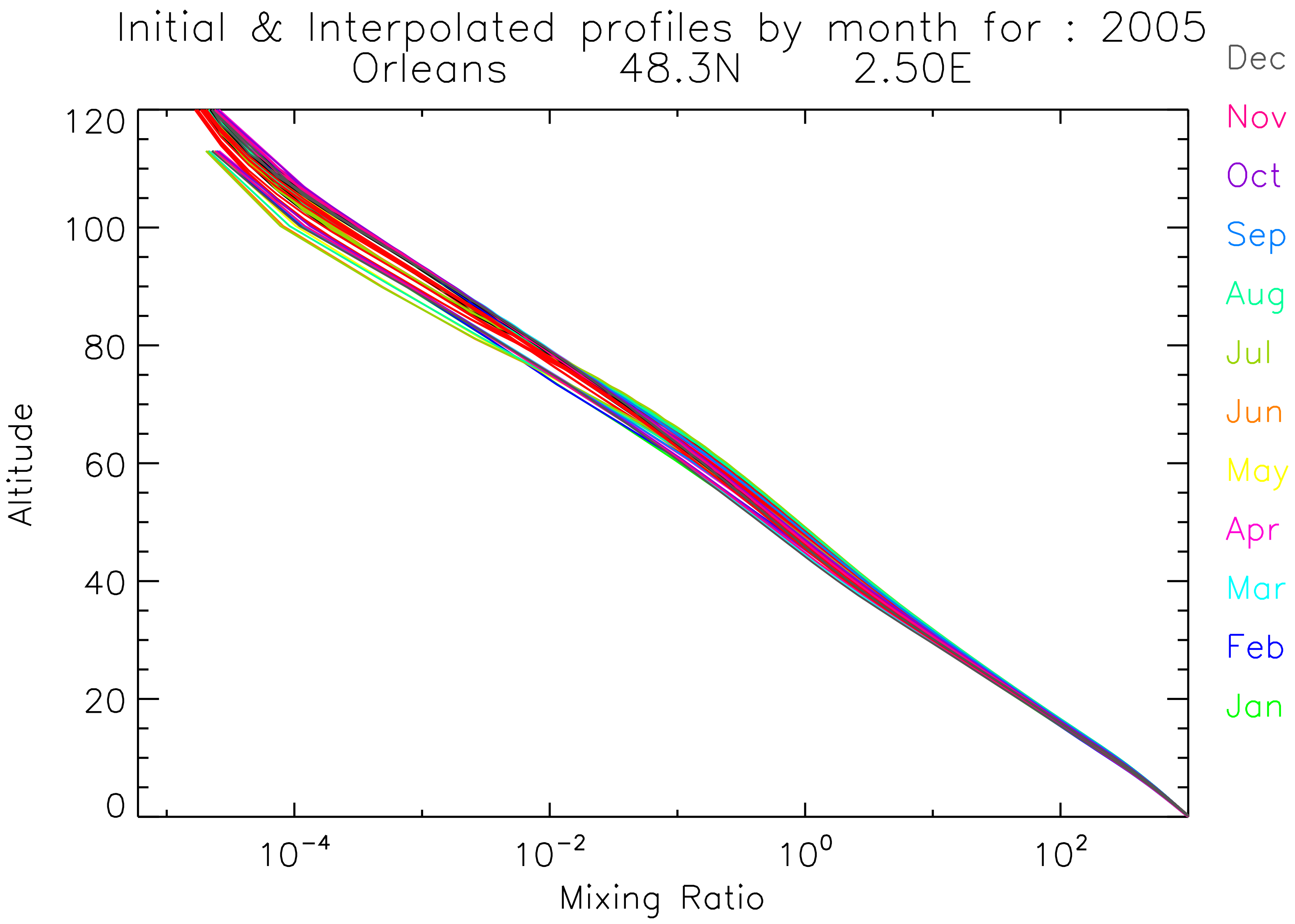


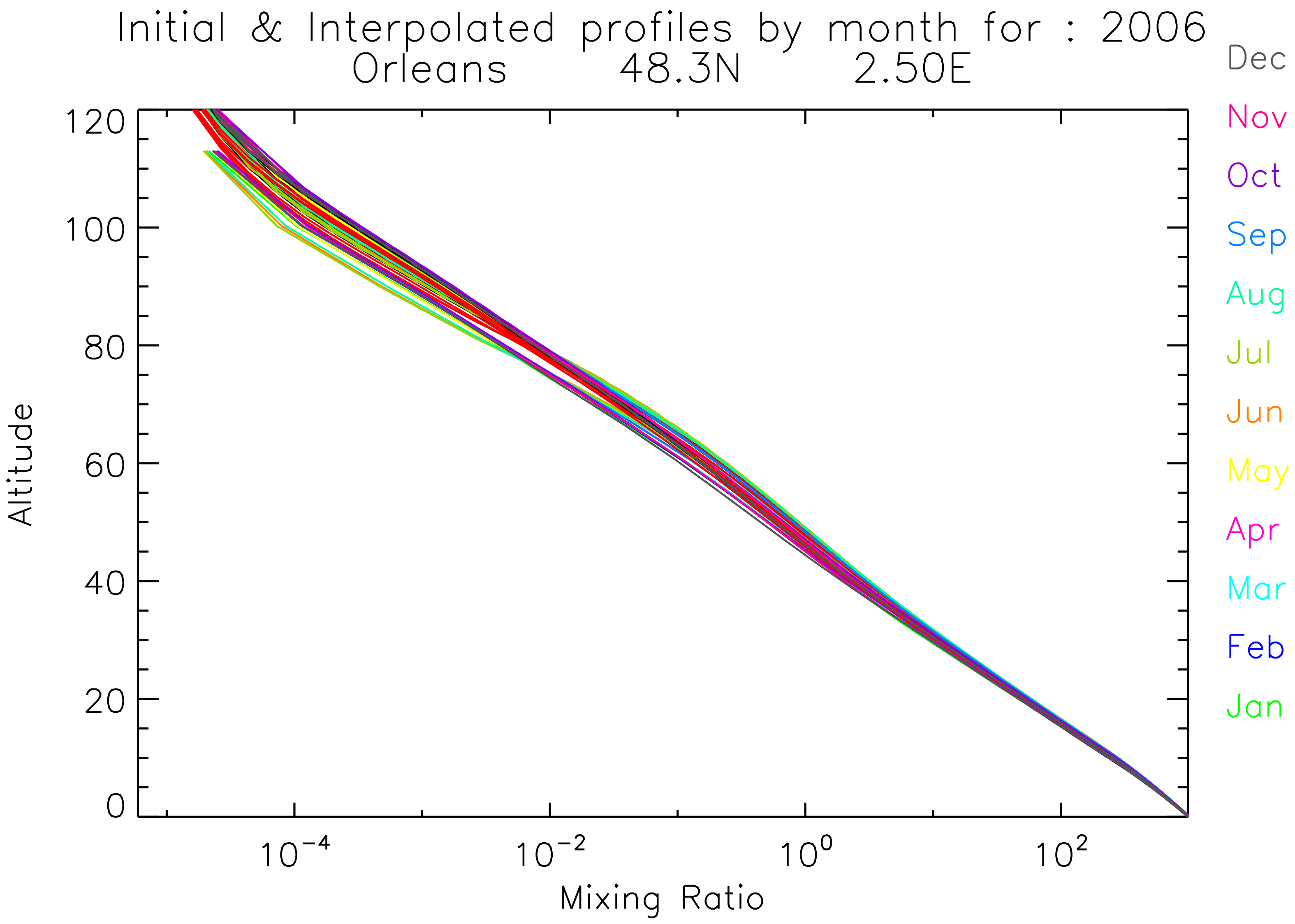
Initial & Interpolated profiles by month for : 2002
Orleans 48.3N 2.50E



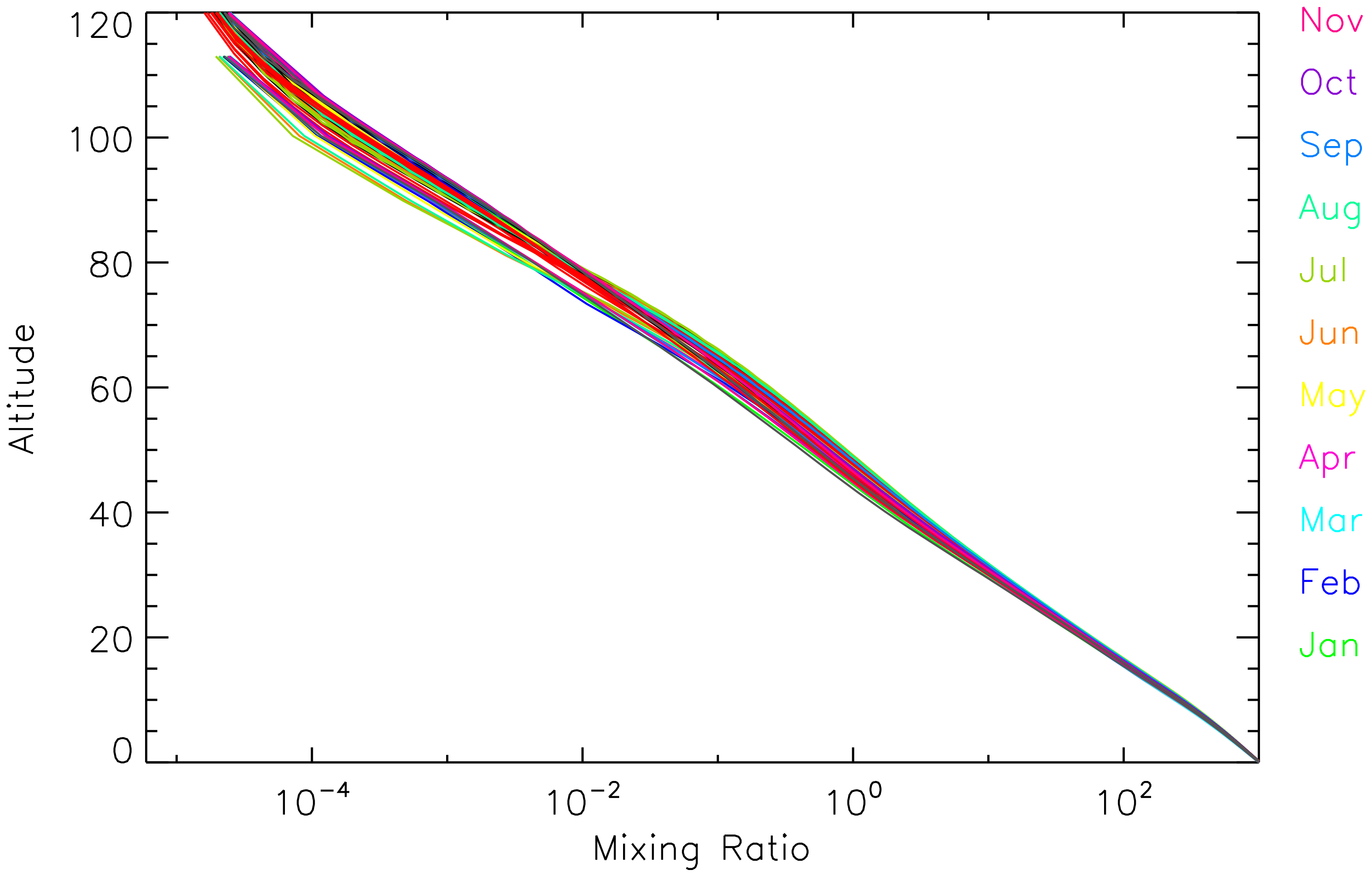
Initial & Interpolated profiles by month for : 2003
Orleans 48.3N 2.50E

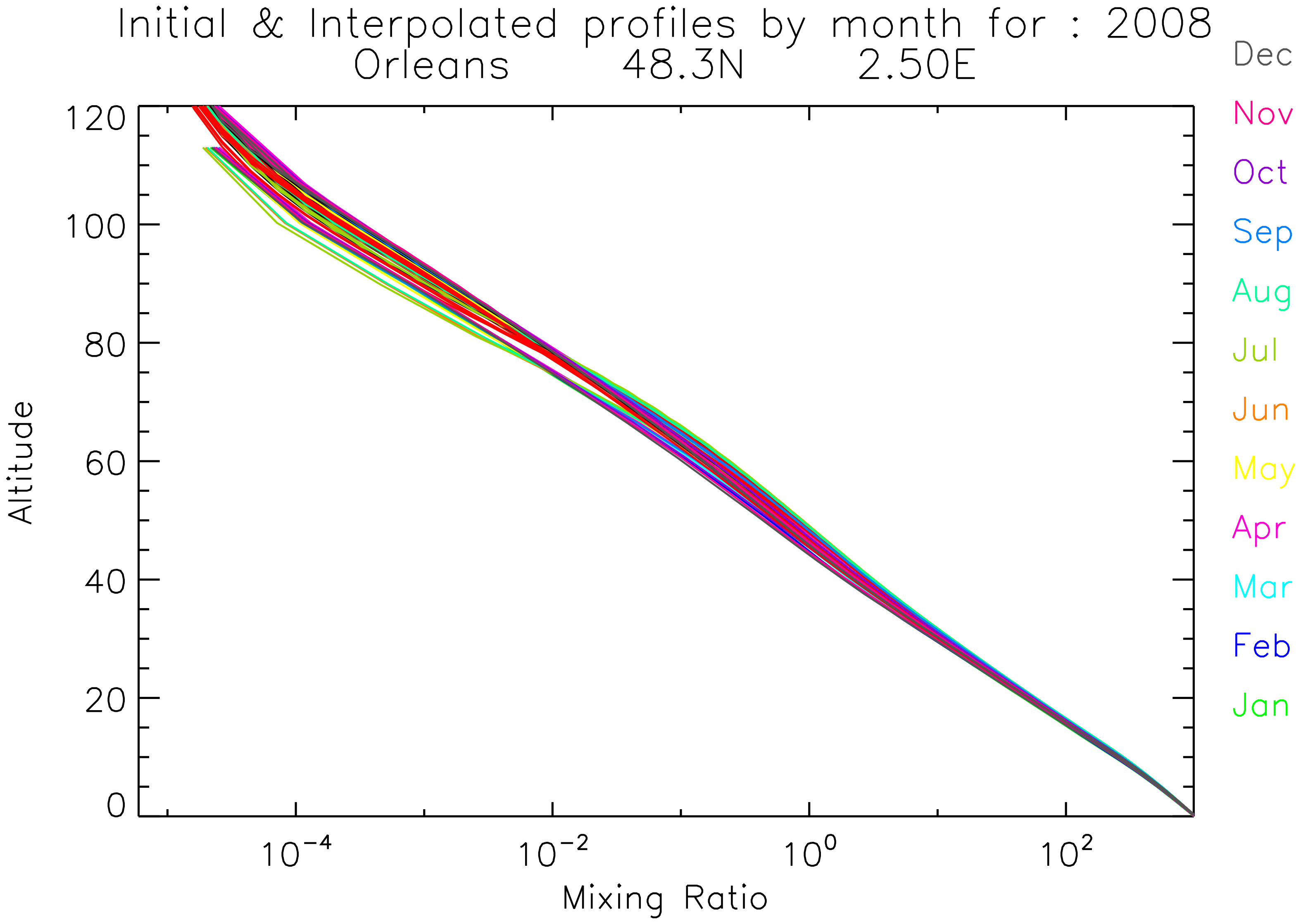

Initial & Interpolated profiles by month for : 2004
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2005
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
10^{-4}
10^{-2}
10^{0}
10^{2}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

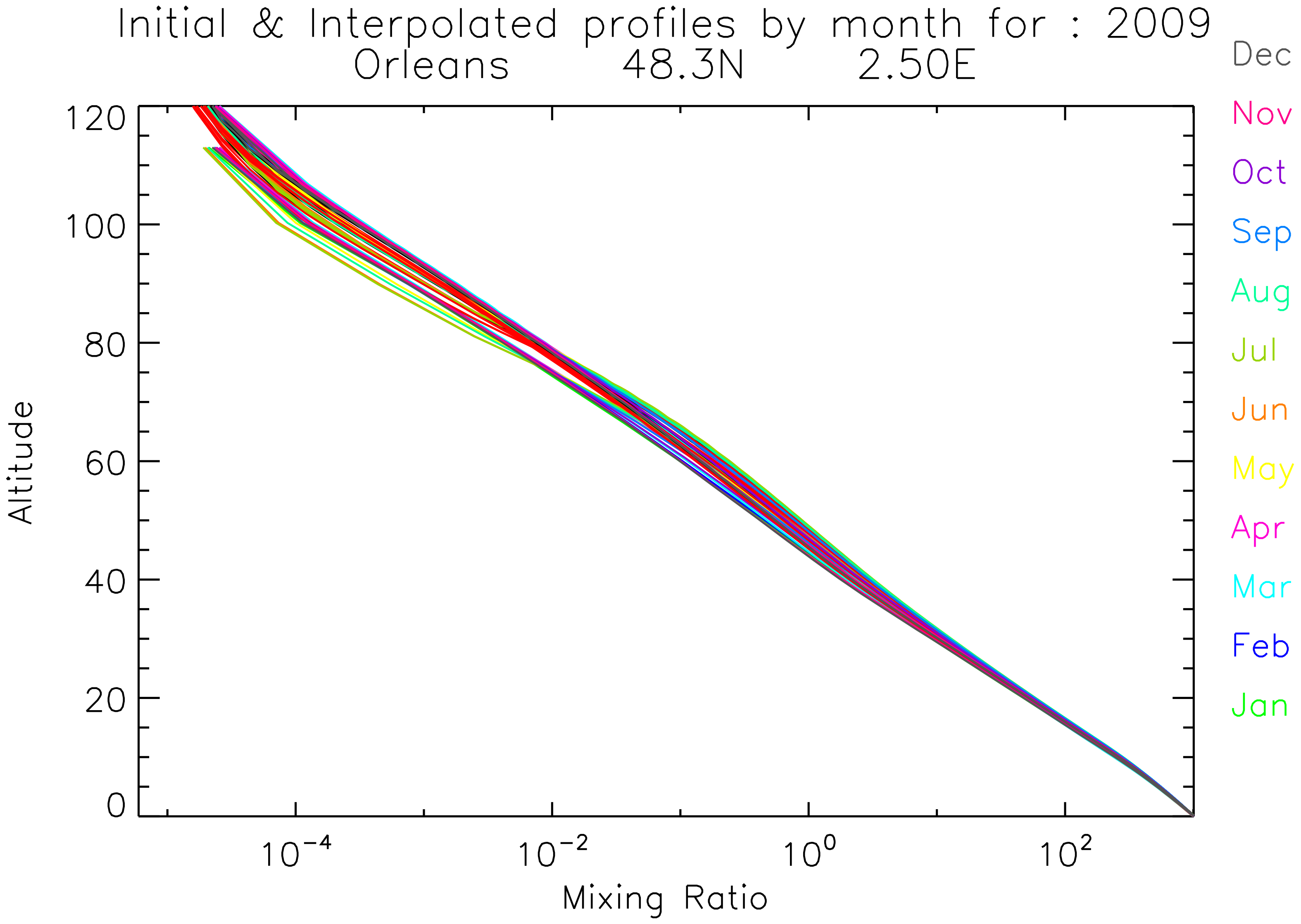

Initial & Interpolated profiles by month for : 2006
Orleans 48.3N 2.50E

Initial & Interpolated profiles by month for : 2007
Orleans 48.3N 2.50E

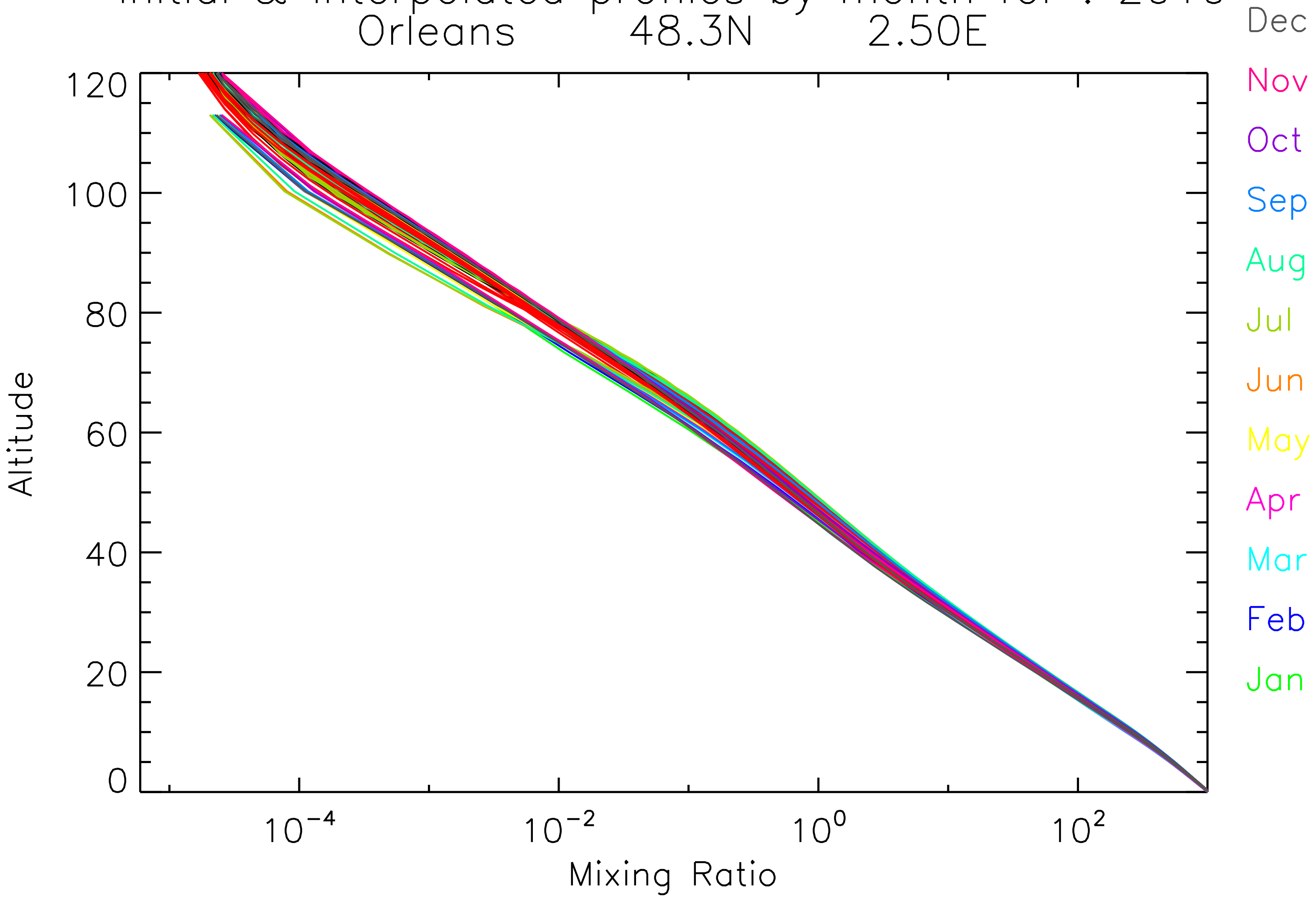


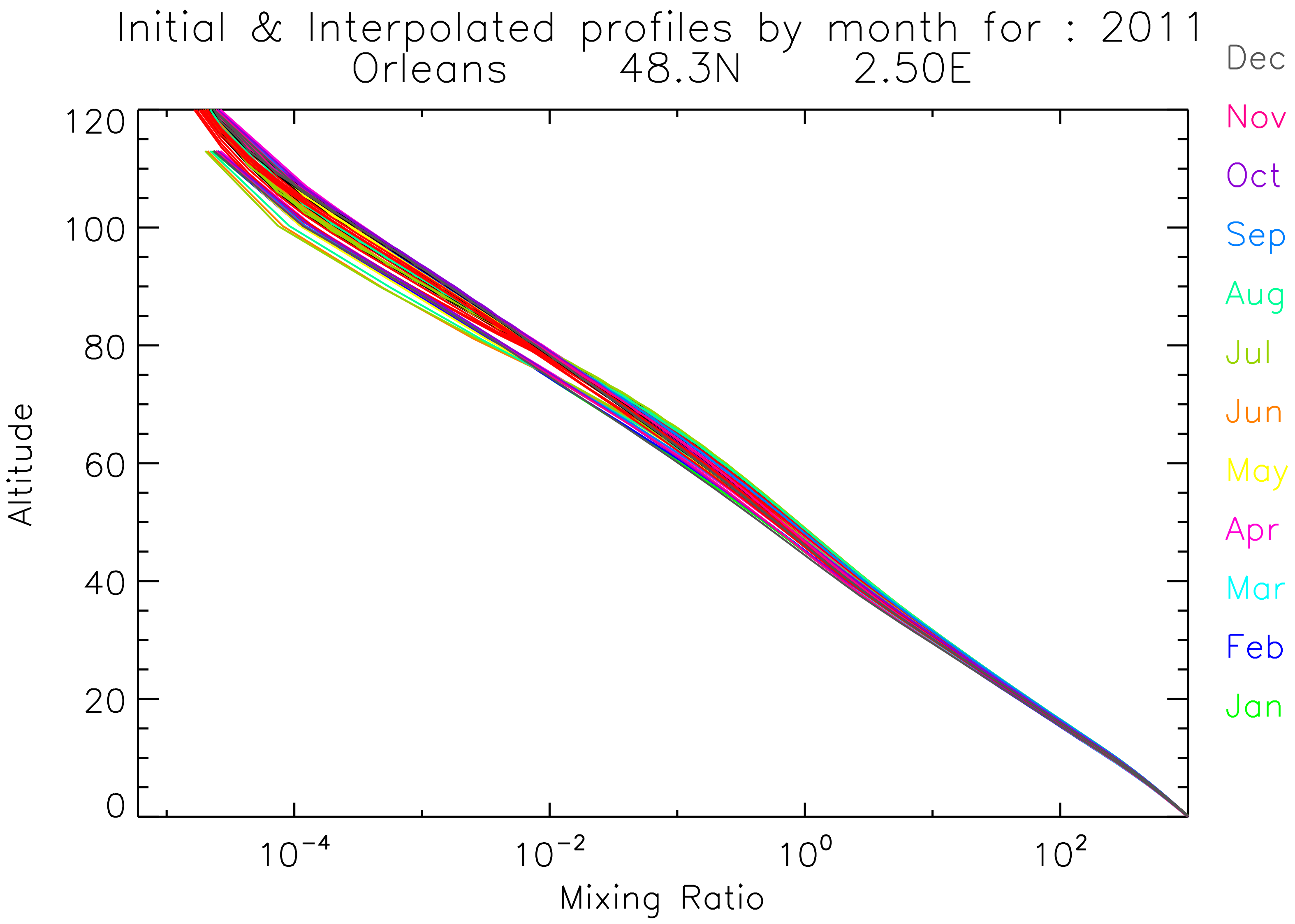


Initial & Interpolated profiles by month for : 2008
Orleans 48.3N 2.50E



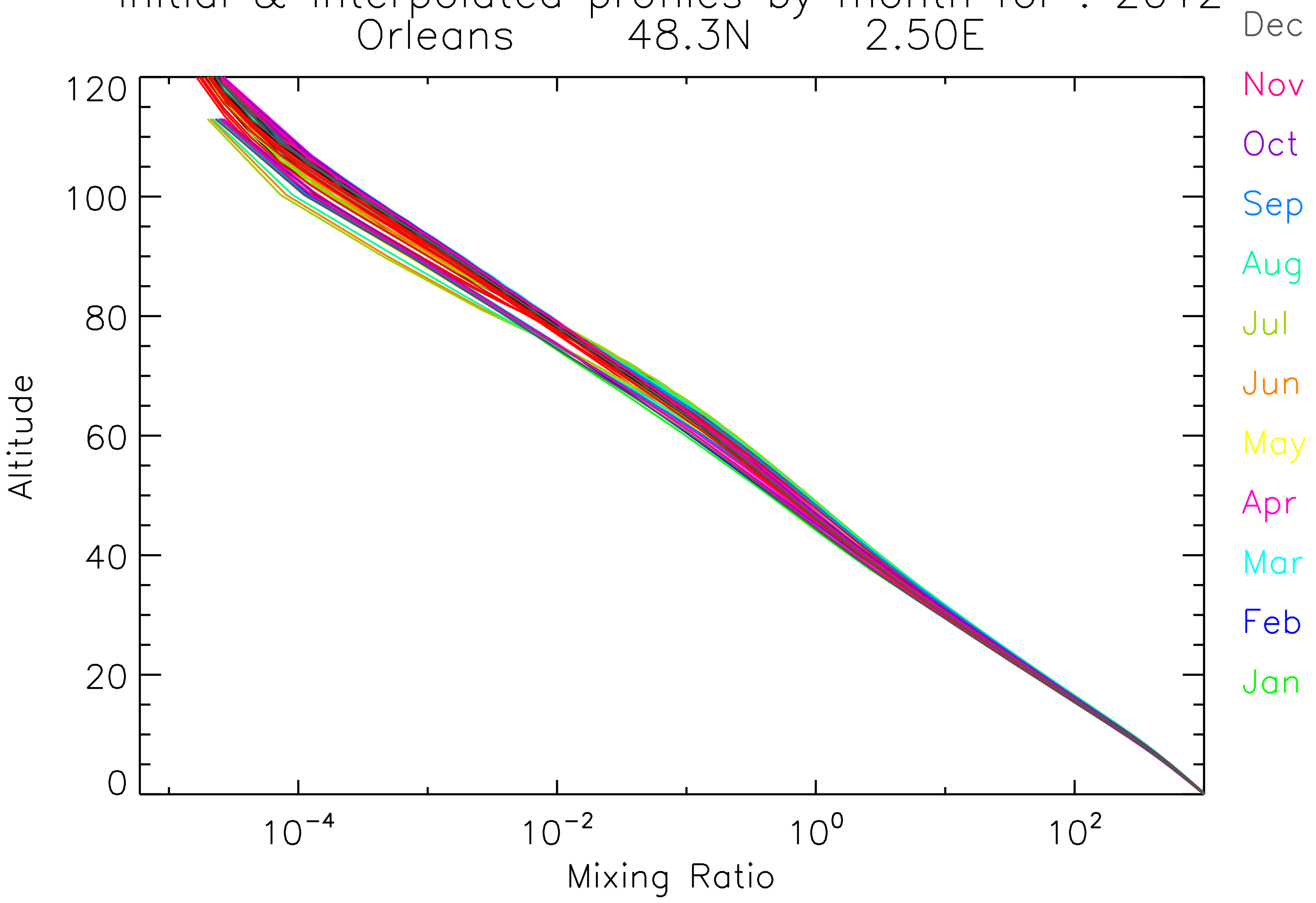
Initial & Interpolated profiles by month for : 2009
Orleans 48.3N 2.50E

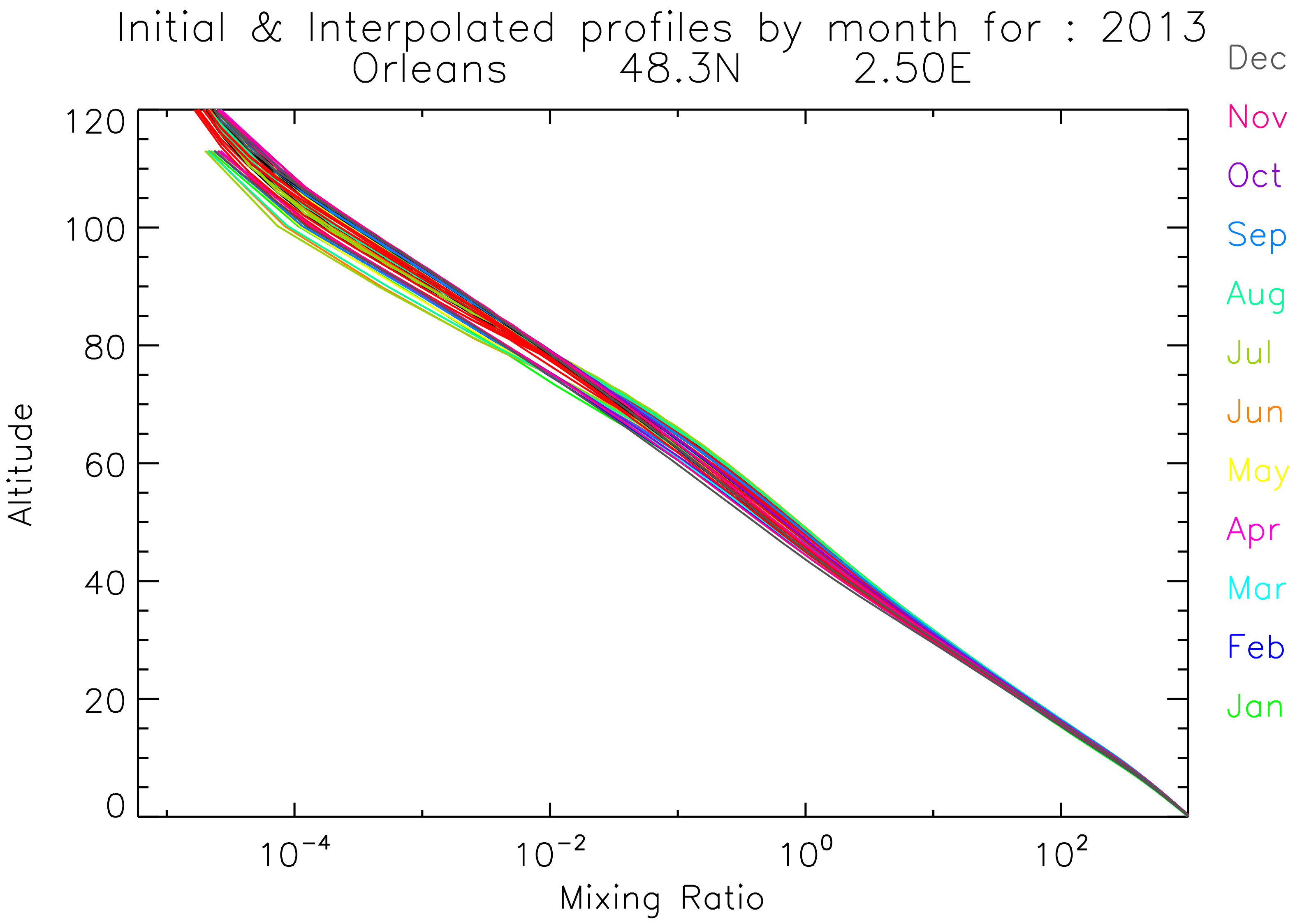

Initial & Interpolated profiles by month for : 2010
Orleans 48.3N 2.50E

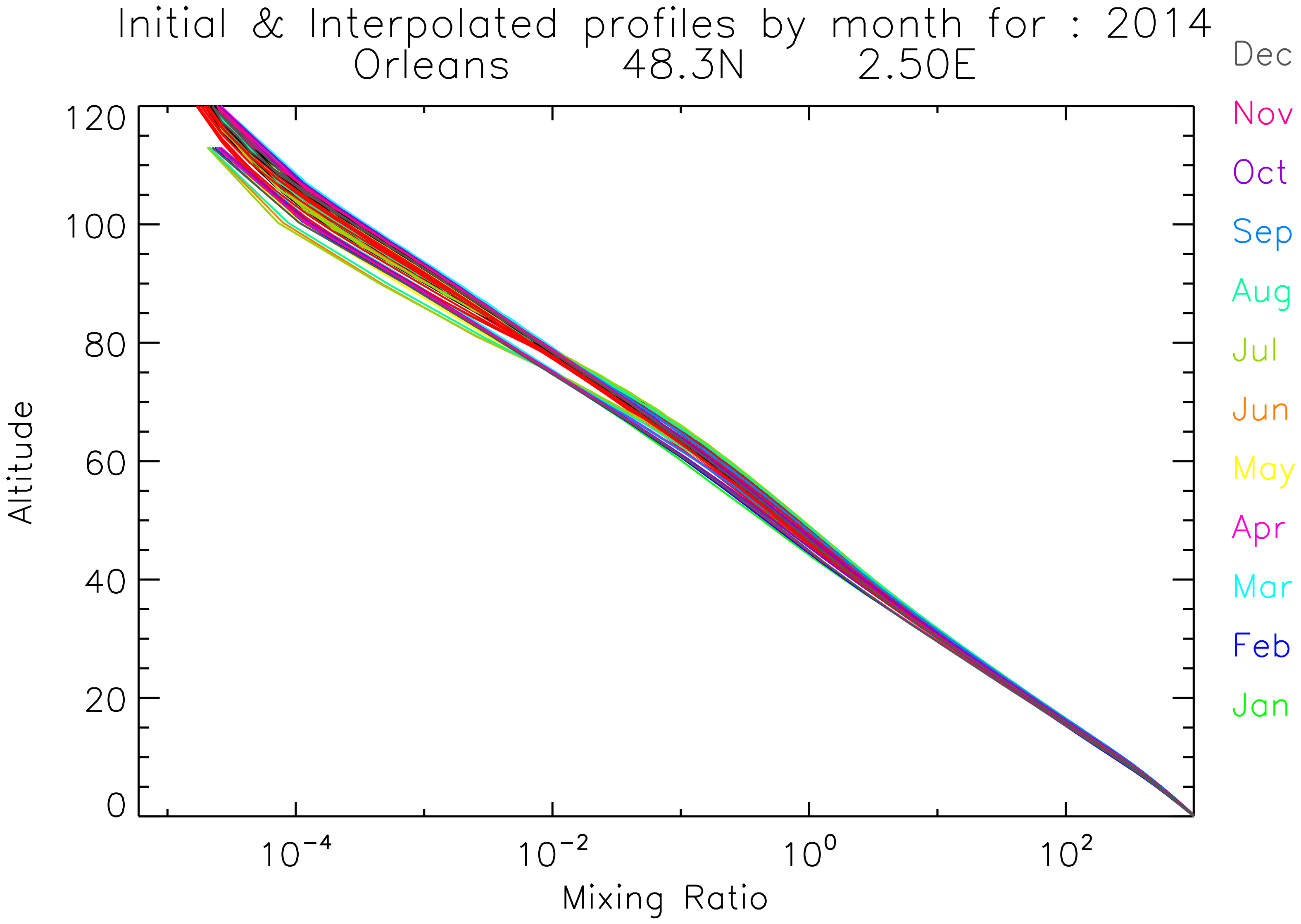


Initial & Interpolated profiles by month for : 2011
Orleans 48.3N 2.50E

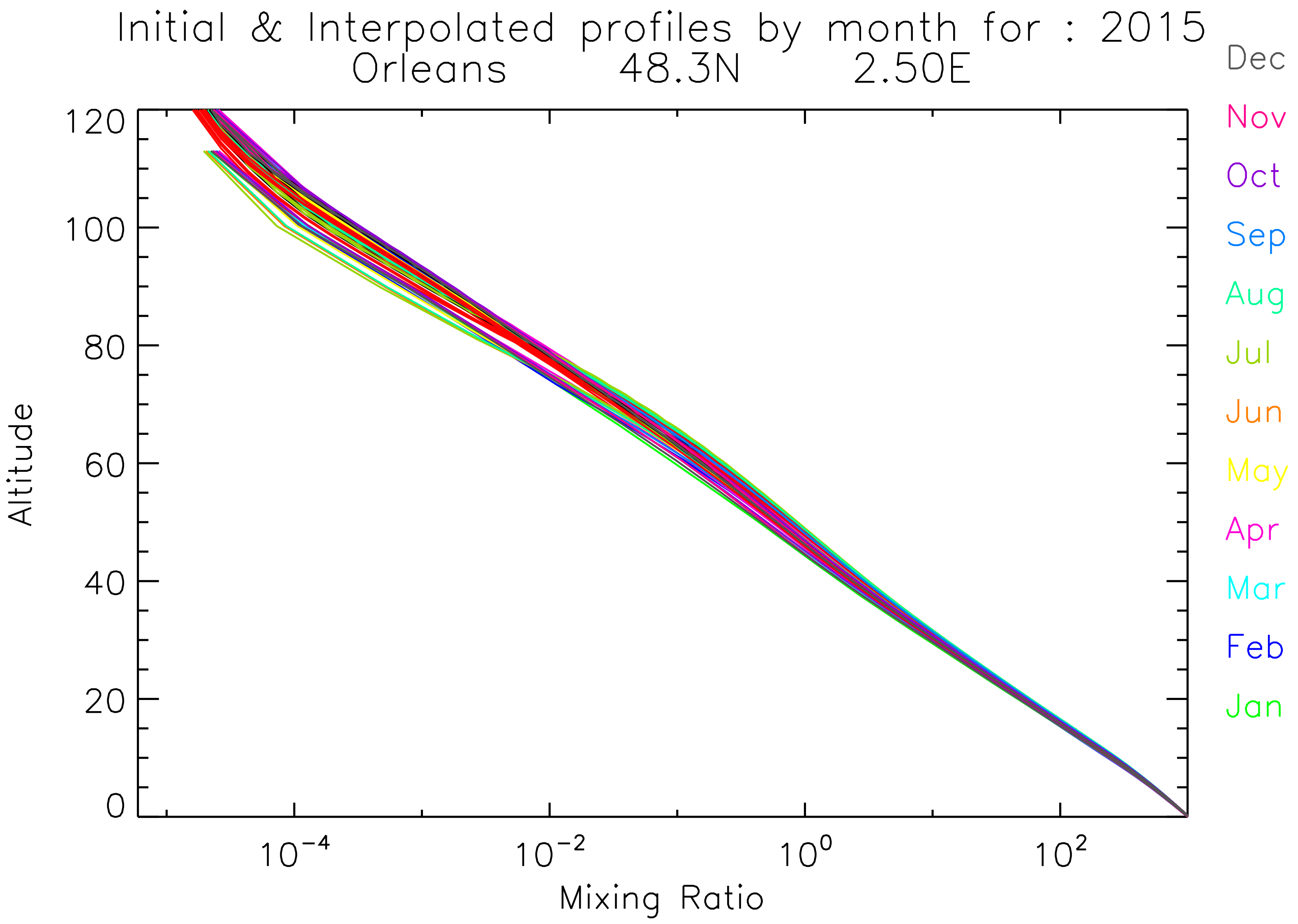
Initial & Interpolated profiles by month for : 2012
Orleans 48.3N 2.50E

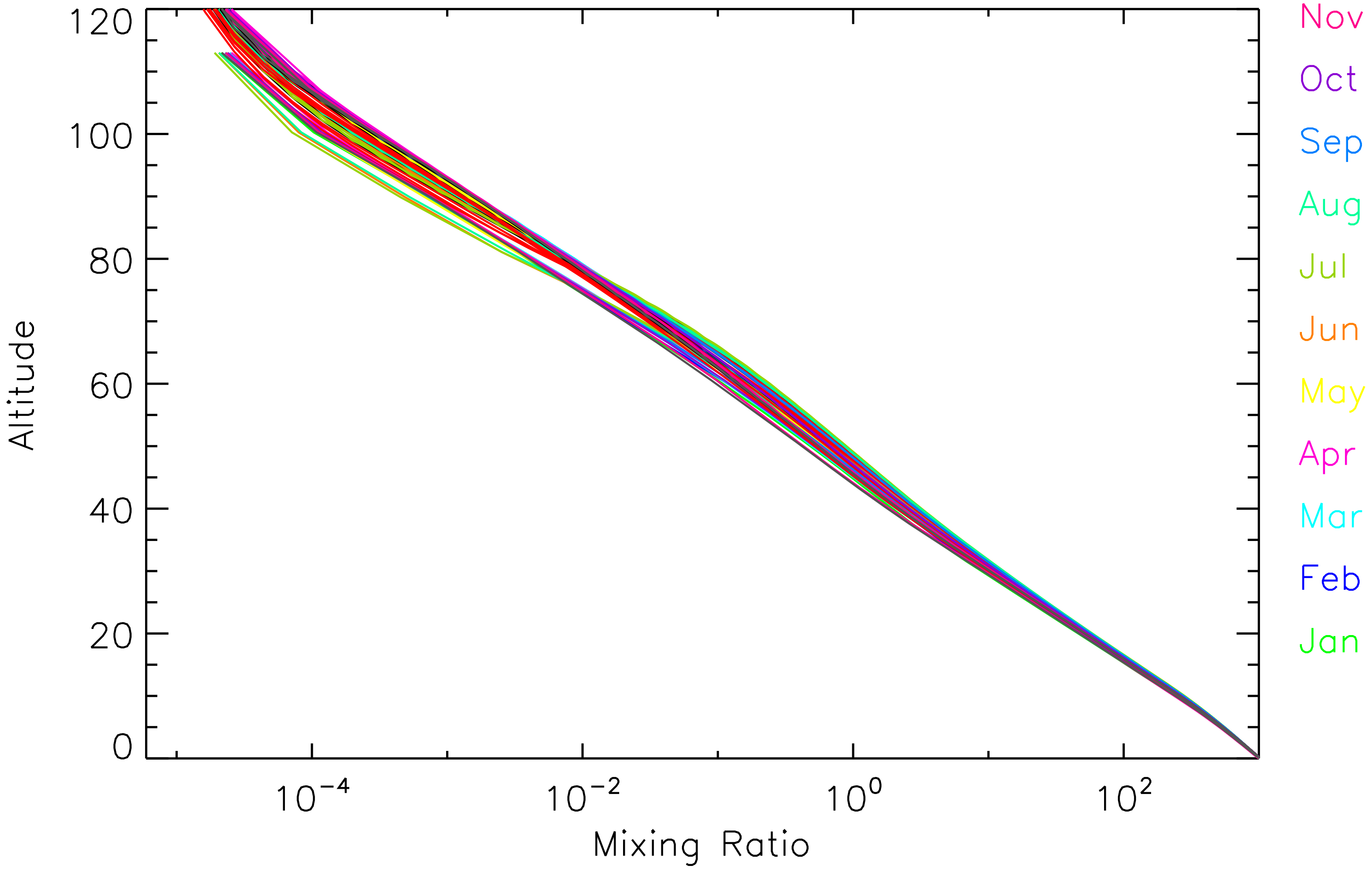



Initial & Interpolated profiles by month for : 2013
Orleans 48.3N 2.50E



Initial & Interpolated profiles by month for : 2014
Orleans 48.3N 2.50E

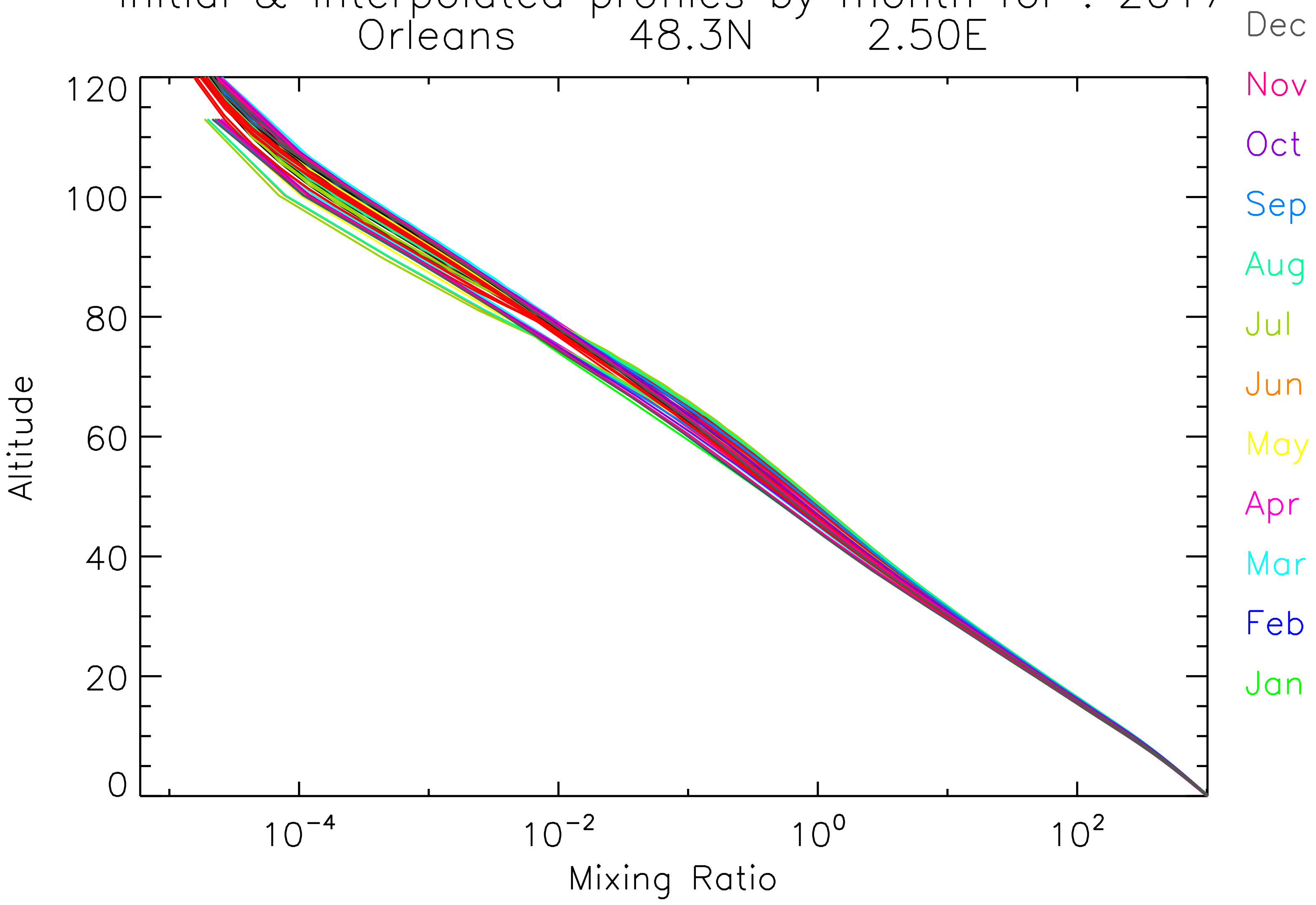

Initial & Interpolated profiles by month for : 2015
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

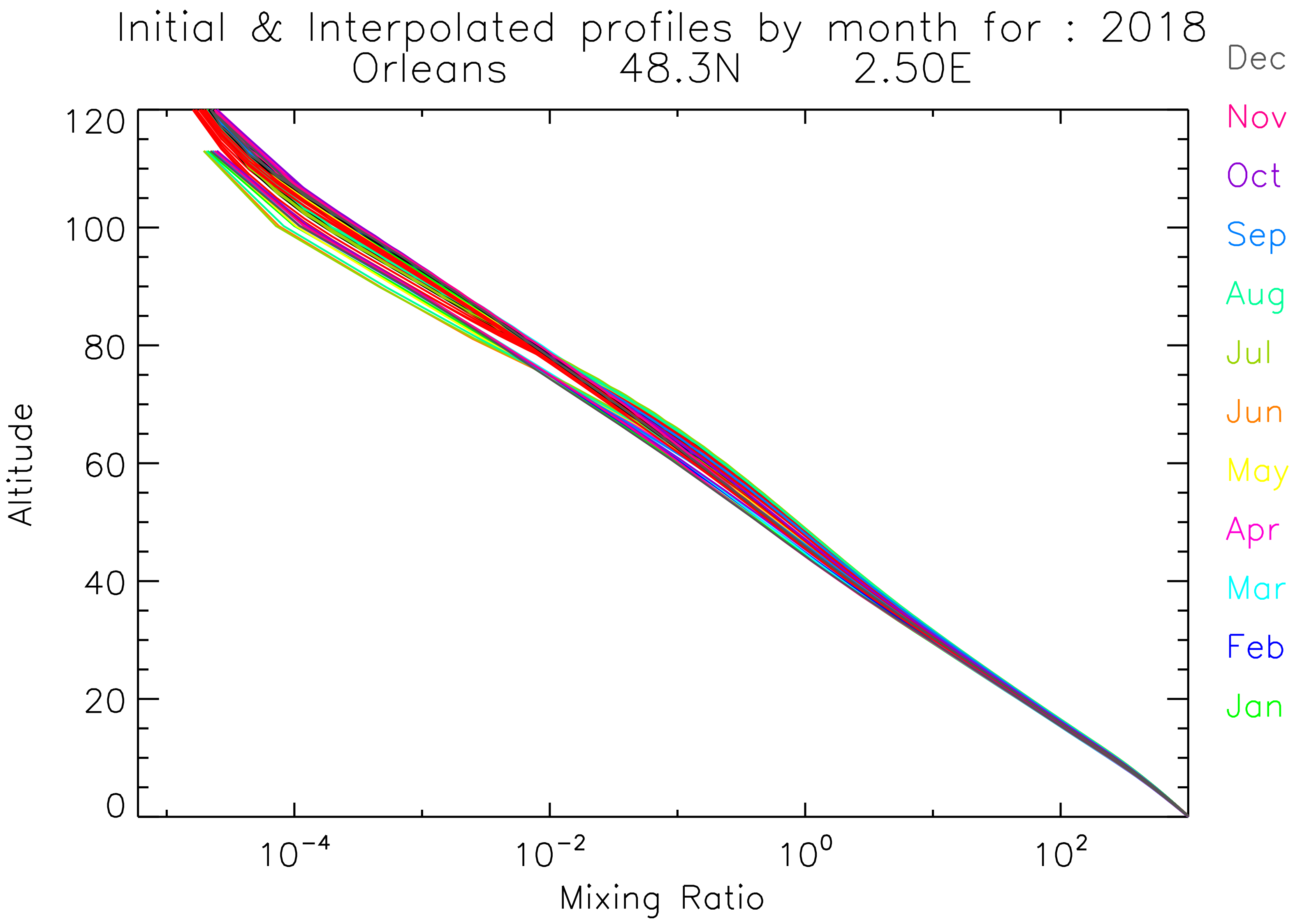


Initial & Interpolated profiles by month for : 2016

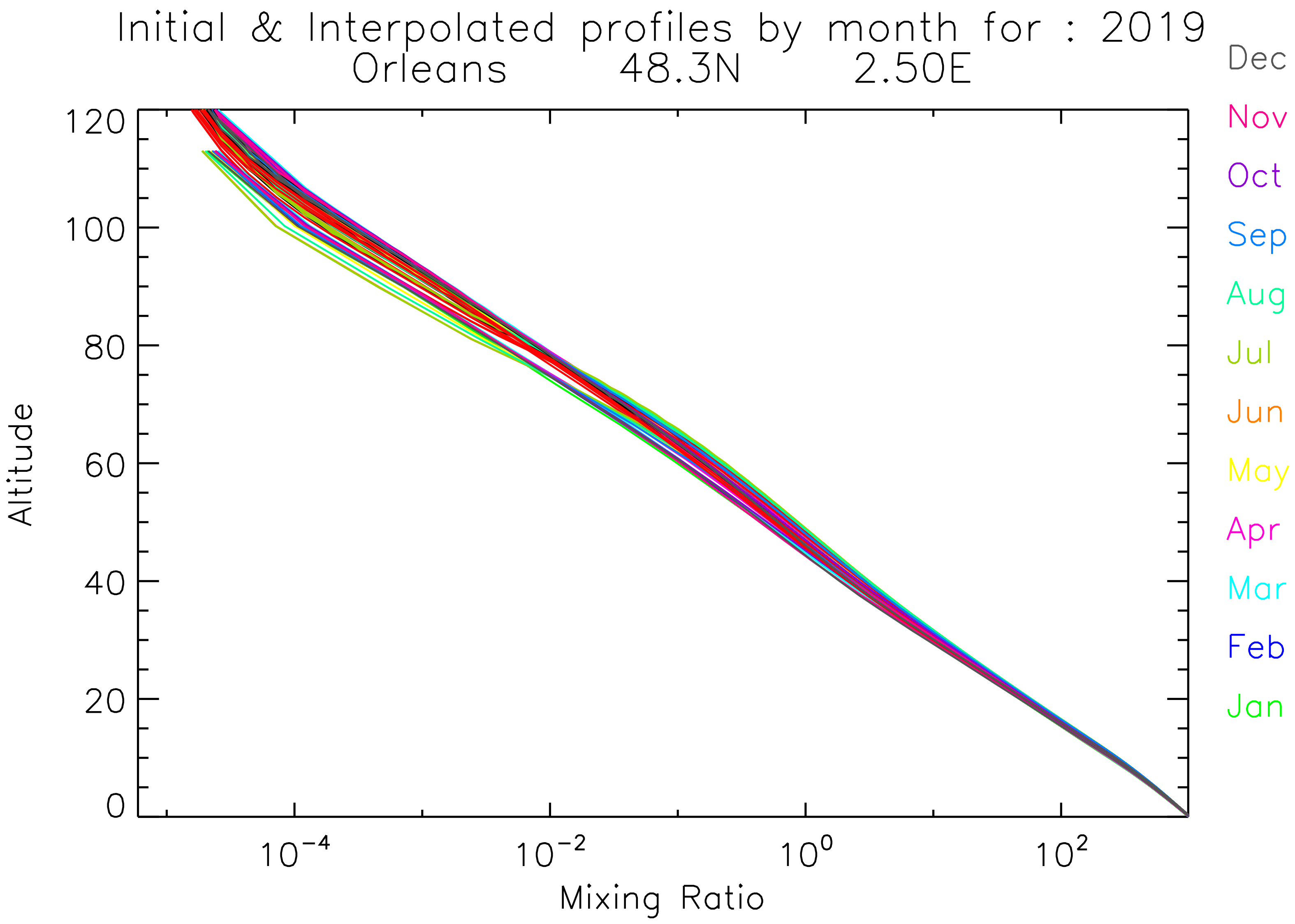
Orleans 48.3N 2.50E

Initial & Interpolated profiles by month for : 2017
Orleans 48.3N 2.50E

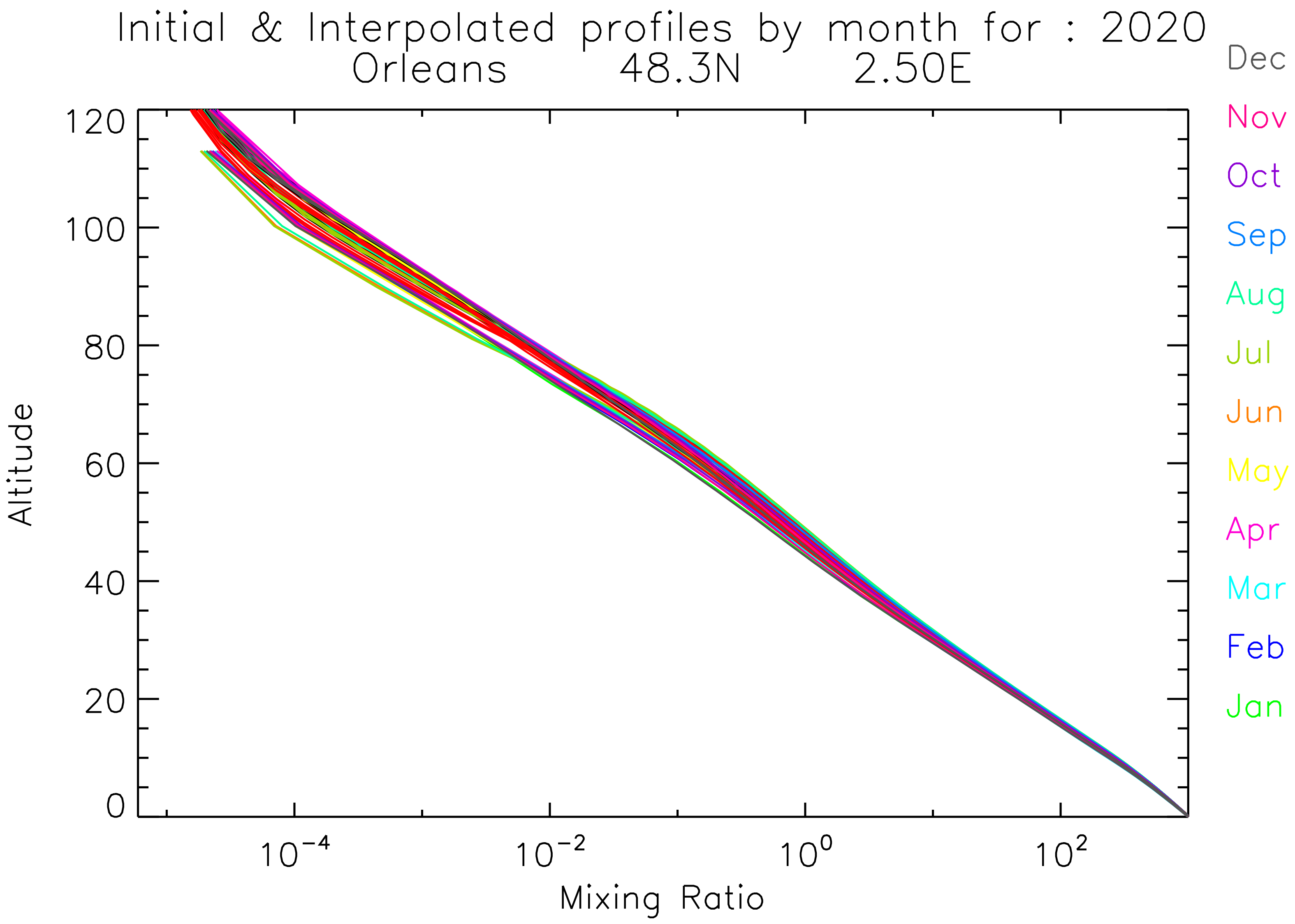


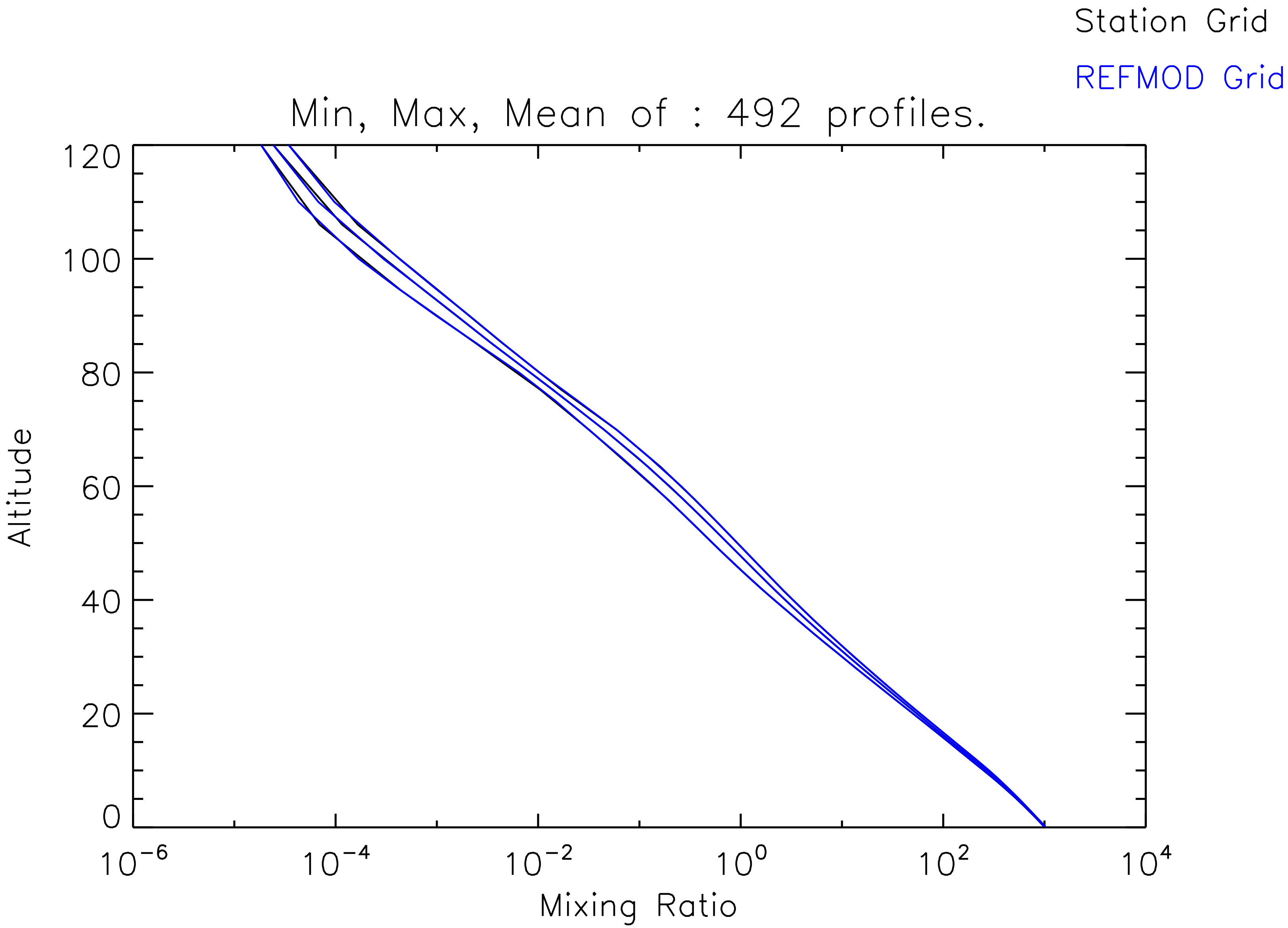


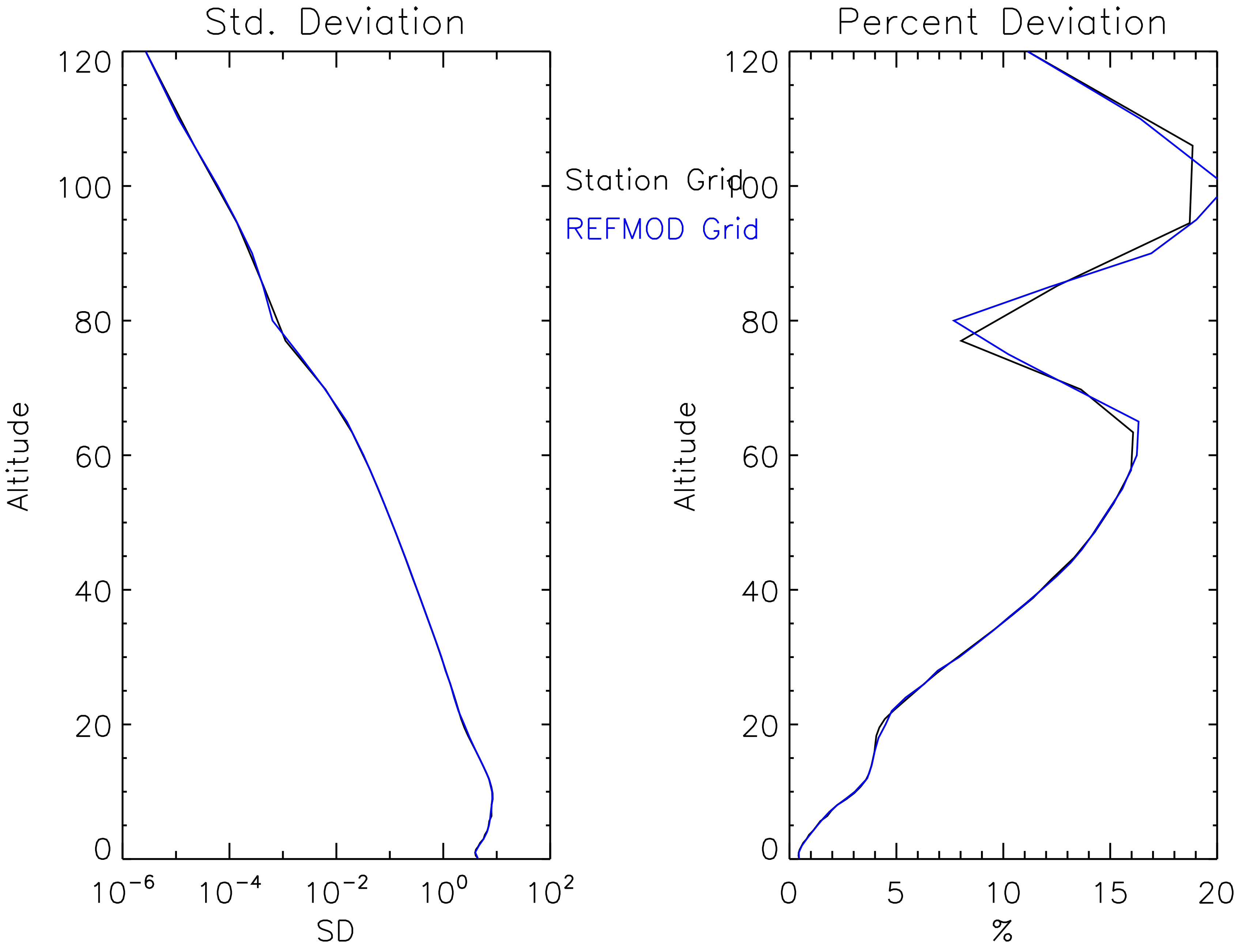
Initial & Interpolated profiles by month for : 2018
Orleans 48.3N 2.50E

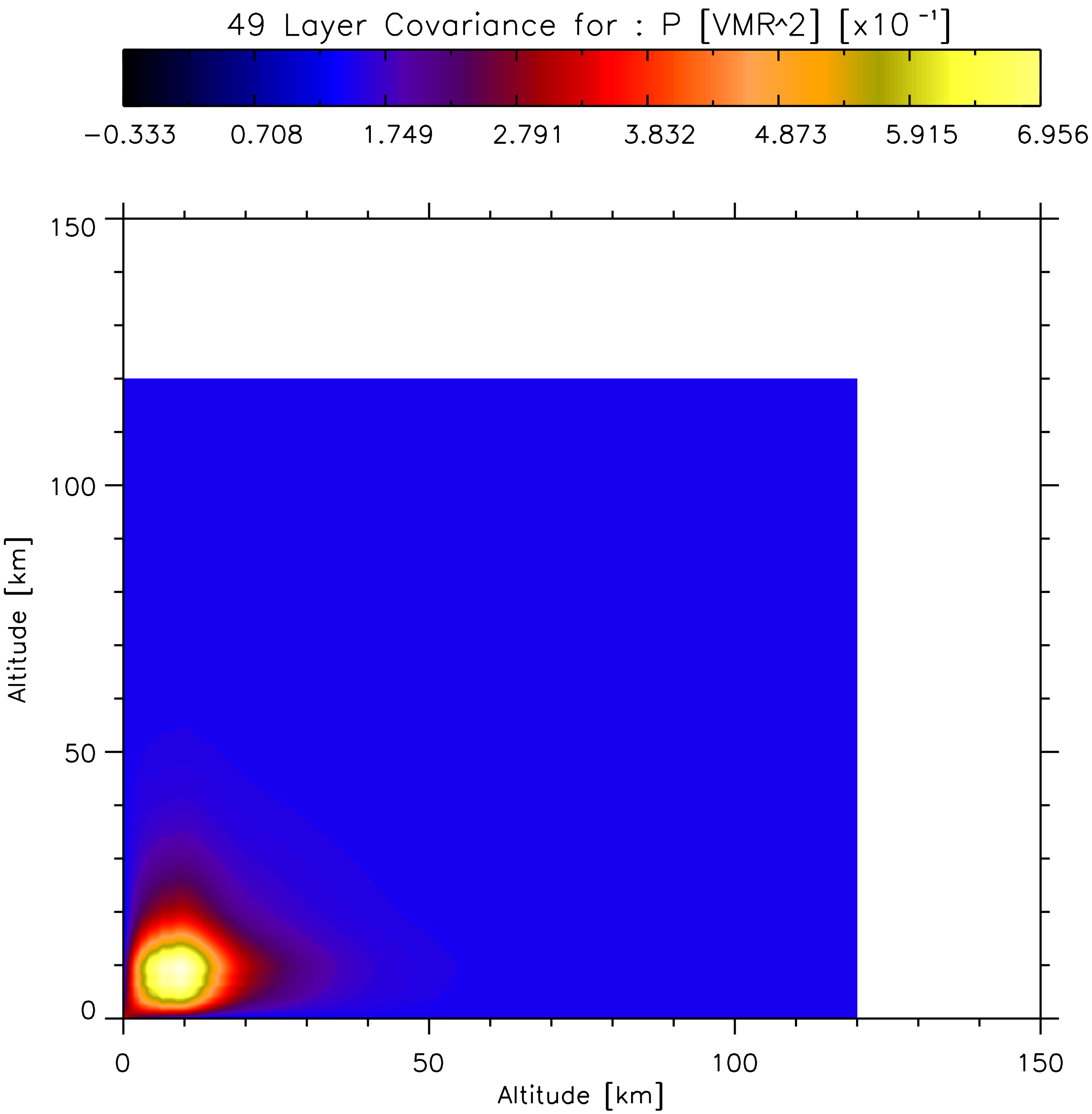


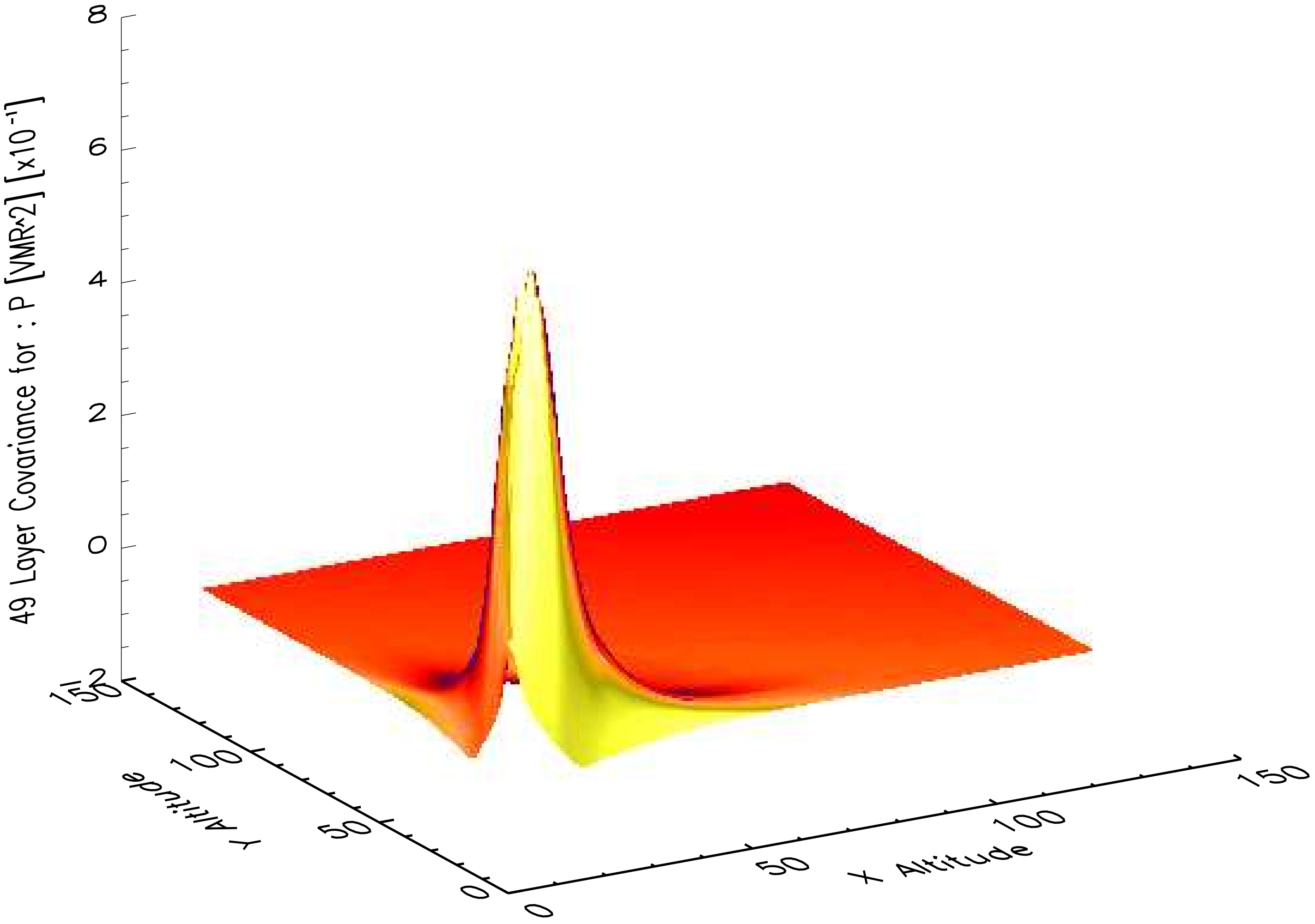
Initial & Interpolated profiles by month for : 2019
Orleans 48.3N 2.50E

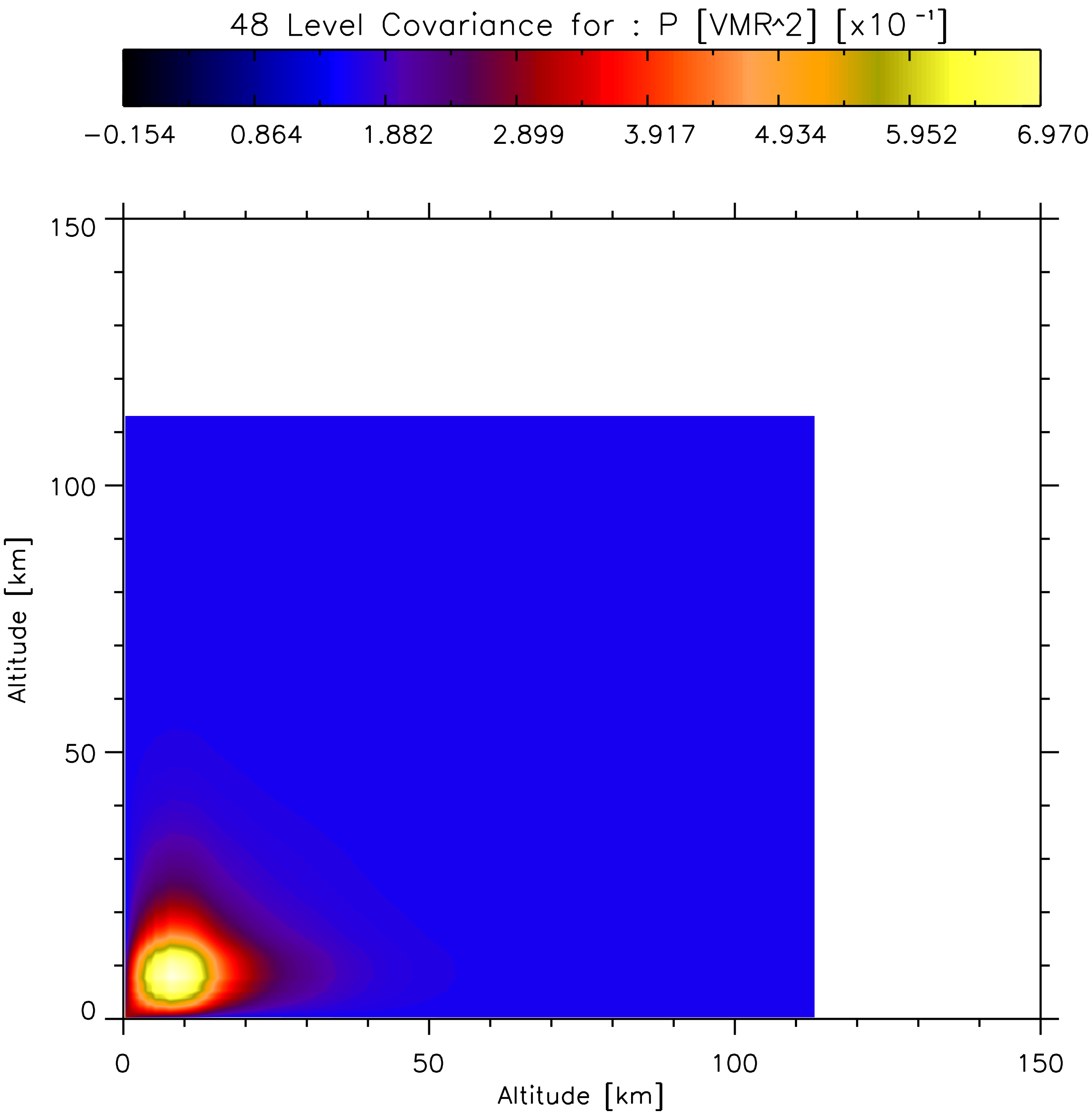

Initial & Interpolated profiles by month for : 2020
Orleans 48.3N 2.50E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10^{-4}
10^{-2}
10^{0}
10^{2}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

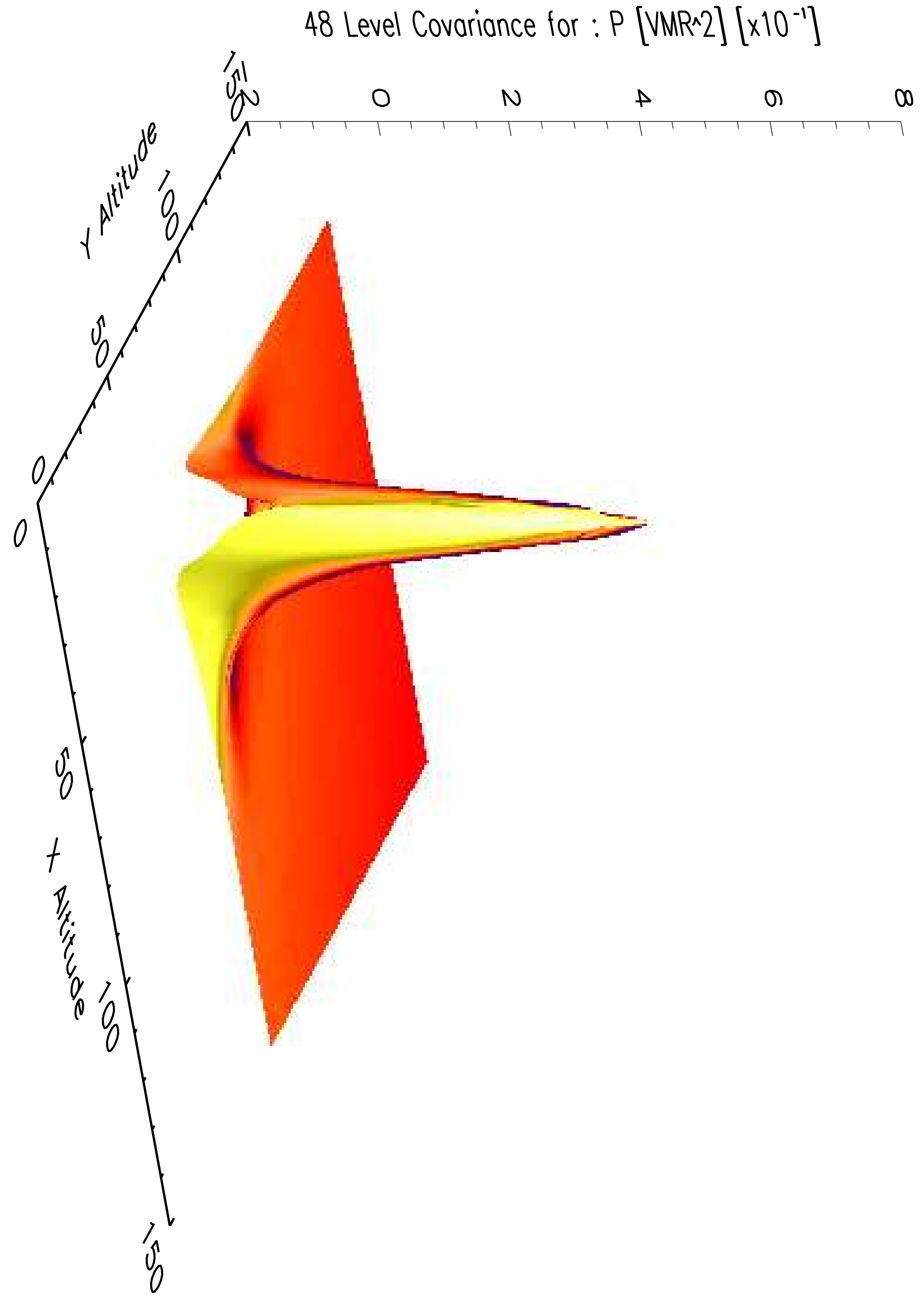

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
0
20
40
60
80
100
120
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
10^{4}
Mixing Ratio


Std. Deviation
Percent Deviation
Altitude
SD
%
Station Grid
REFMOD Grid
0
20
40
60
80
100
120
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
0
5
10
15
20


49 Layer Covariance for : P [VMR^2] [x10 ⁻¹]
−0.333
0.708
1.749
2.791
3.832
4.873
5.915
6.956
Altitude [km]
150
100
50
0
0
50
100
150
Altitude [km]


49 Layer Covariance for : P [VMR^2] [x10^-1]
8
6
4
2
0
-2
Y Altitude
150
100
50
0
X Altitude
0
50
100
150


48 Level Covariance for : P [VMR^2] [x10 ⁻¹]
−0.154
0.864
1.882
2.899
3.917
4.934
5.952
6.970
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Level Covariance for : P [VMR^2] [x10^{-1}]
0
2
4
6
8
Y Altitude
0
50
100
150
X Altitude
0
50
100
150