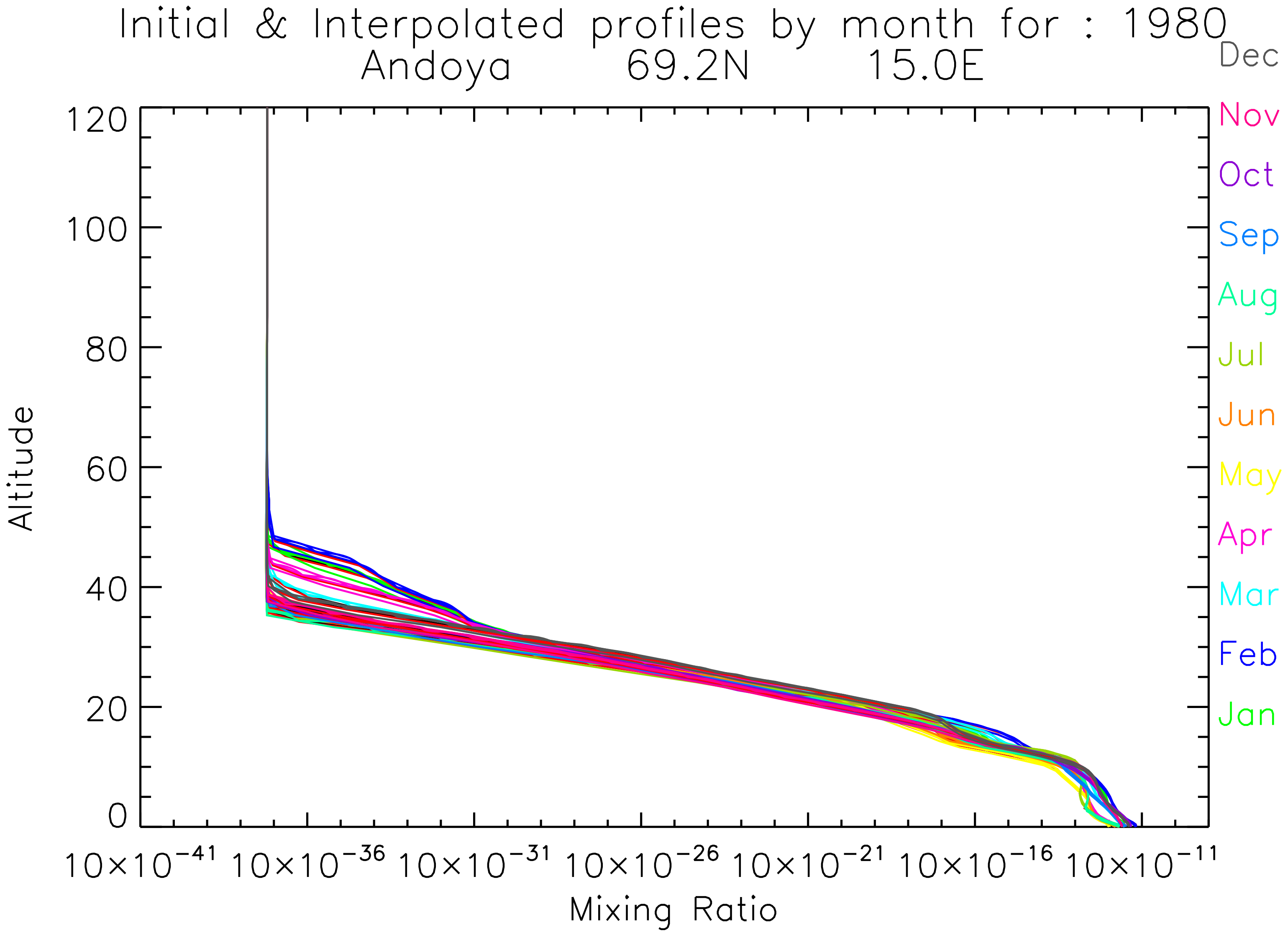
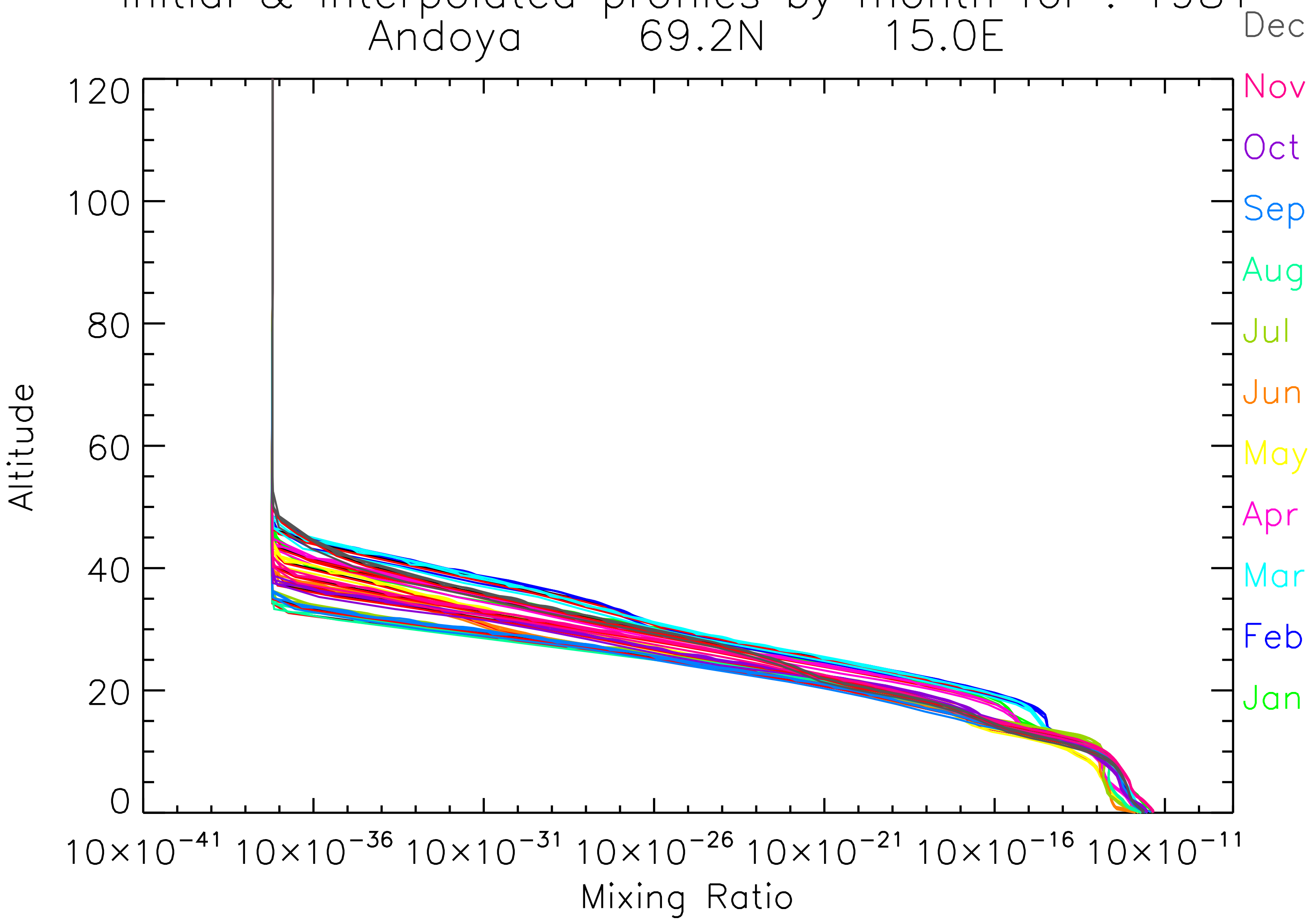
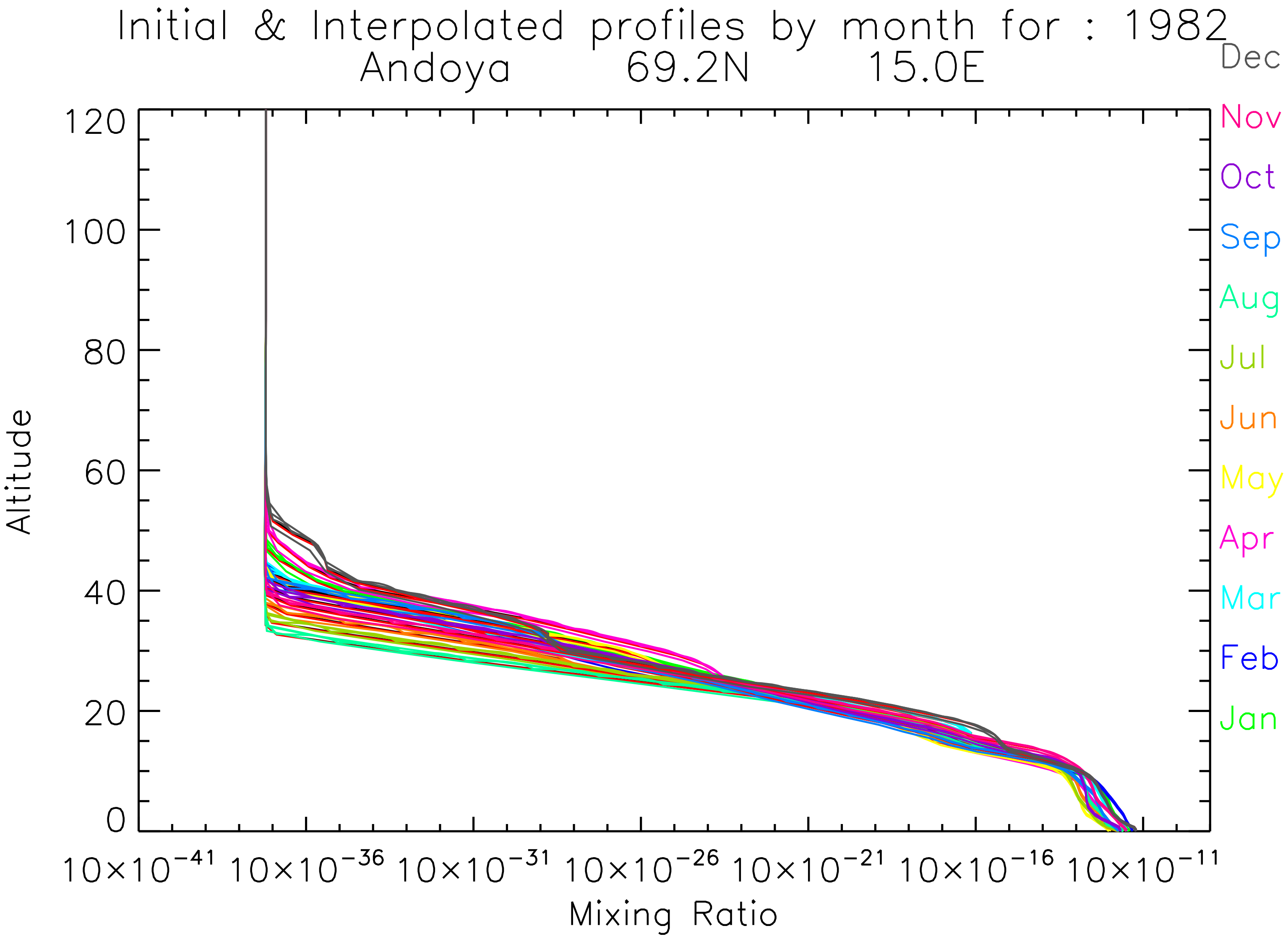
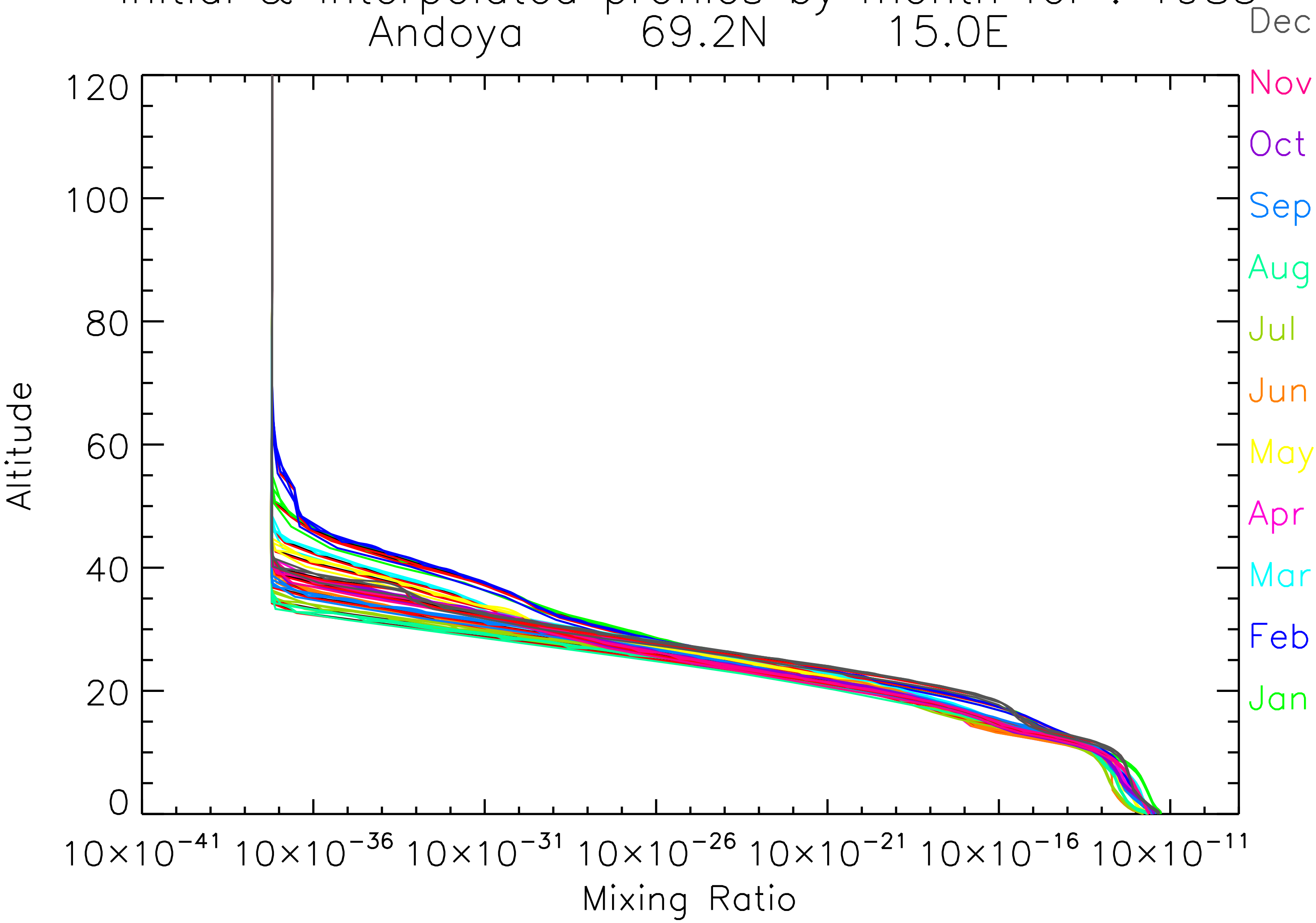

Initial & Interpolated profiles by month for : 1980
Andoya 69.2N 15.0E

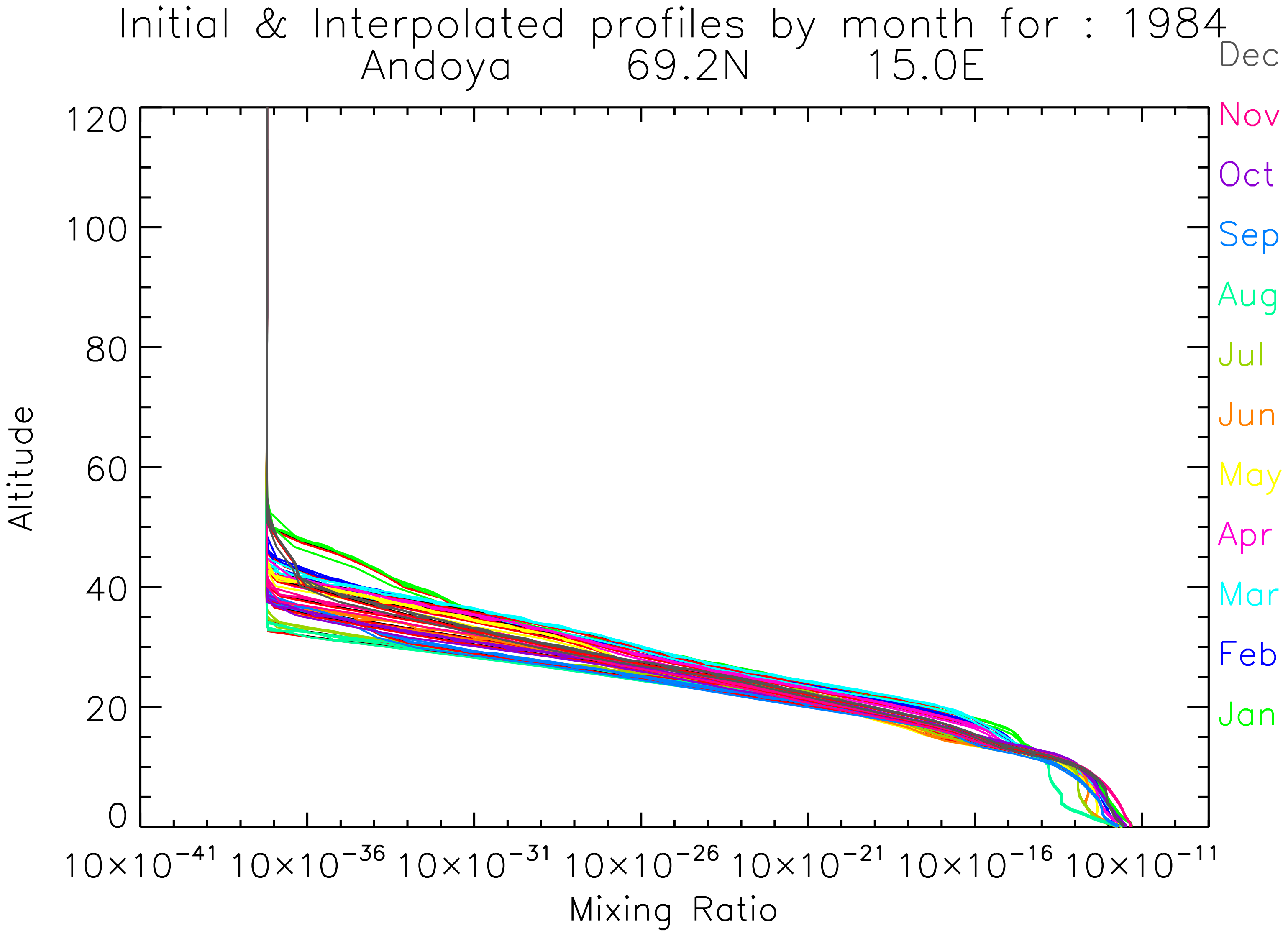


Initial & Interpolated profiles by month for : 1981
Andoya 69.2N 15.0E

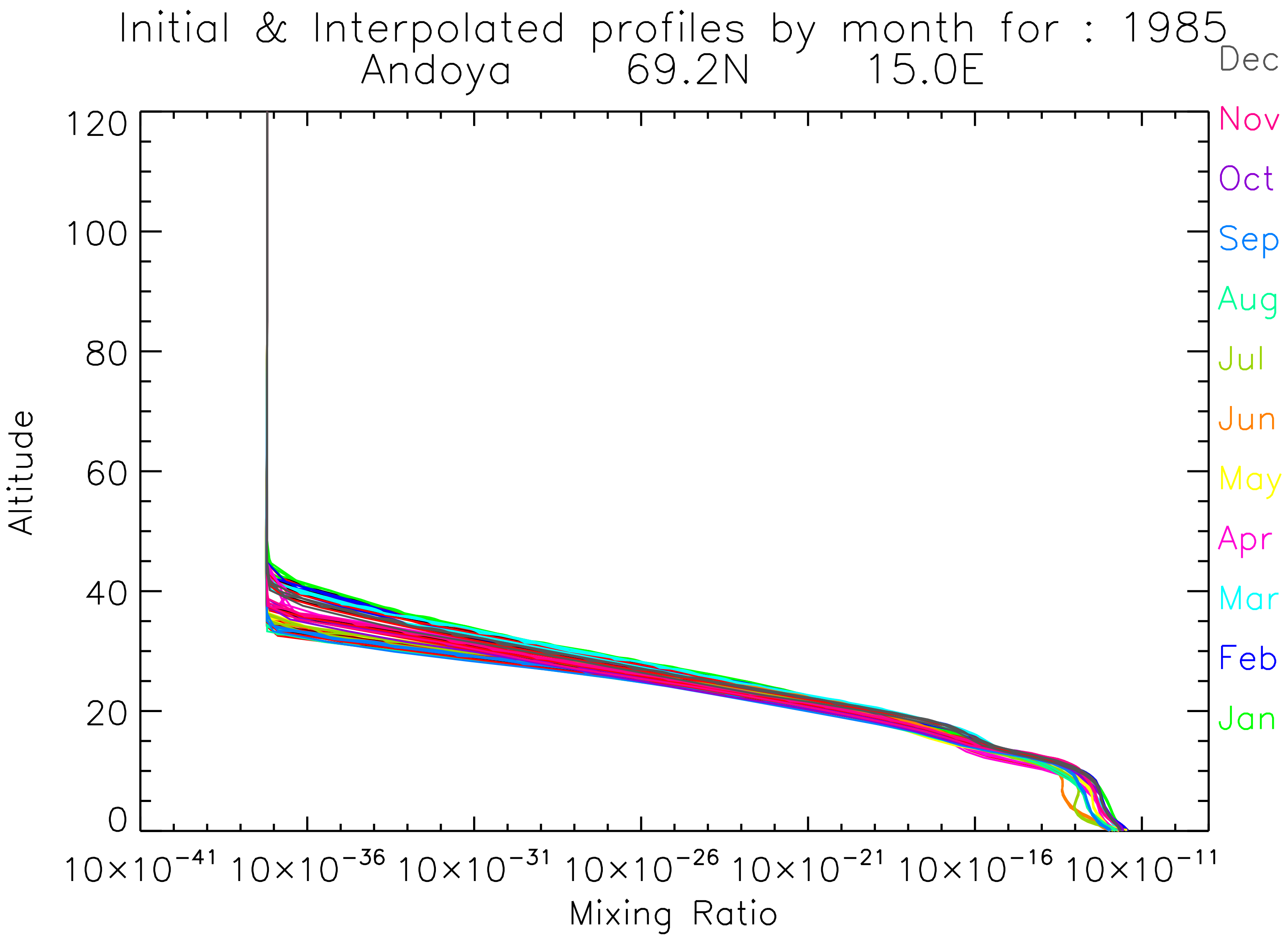

Initial & Interpolated profiles by month for : 1982
Andoya 69.2N 15.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10×10⁻⁴¹
10×10⁻³⁶
10×10⁻³¹
10×10⁻²⁶
10×10⁻²¹
10×10⁻¹⁶
10×10⁻¹¹
Mixing Ratio

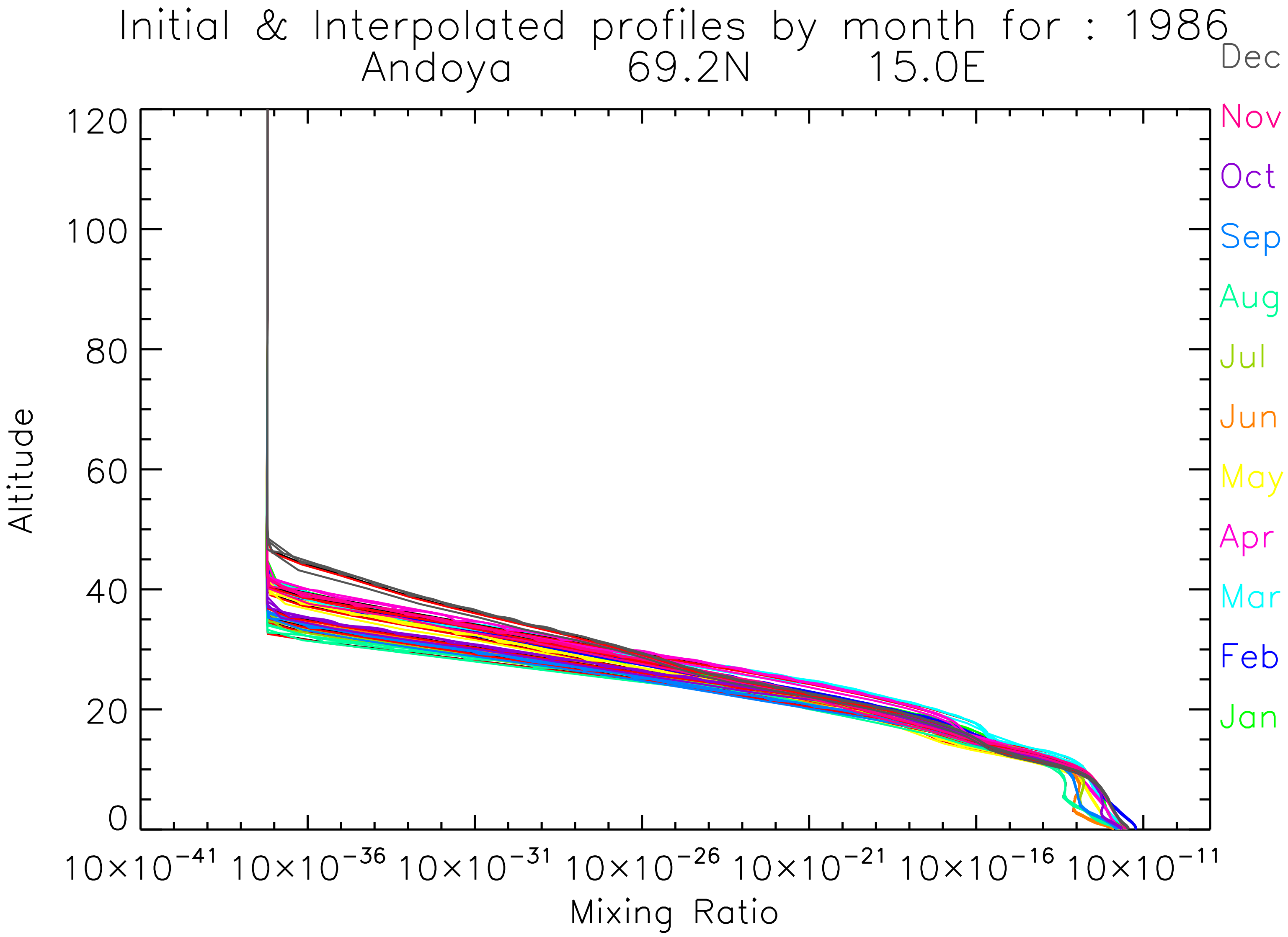
Initial & Interpolated profiles by month for : 1983
Andoya 69.2N 15.0E



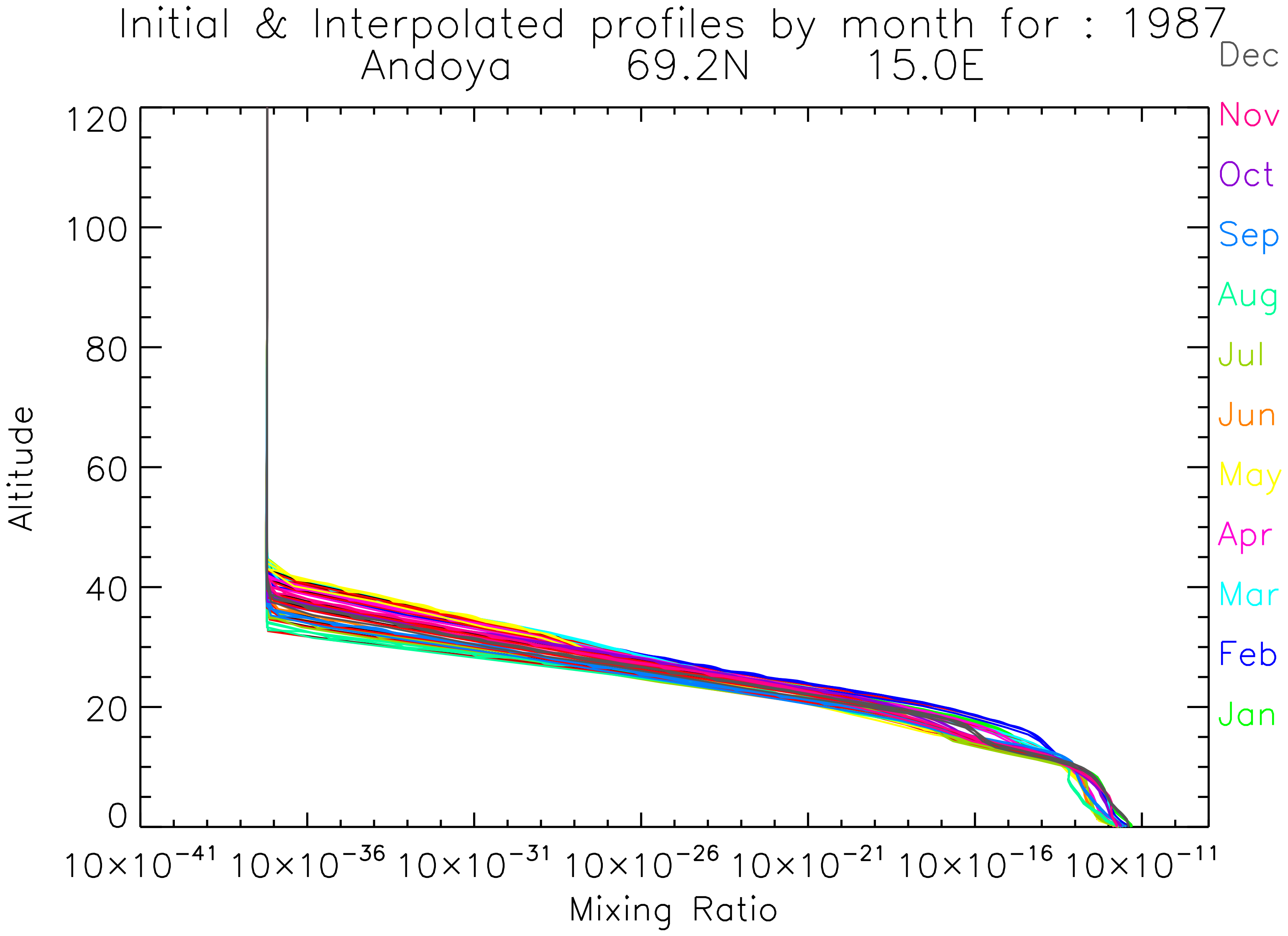


Initial & Interpolated profiles by month for : 1984
Andoya 69.2N 15.0E

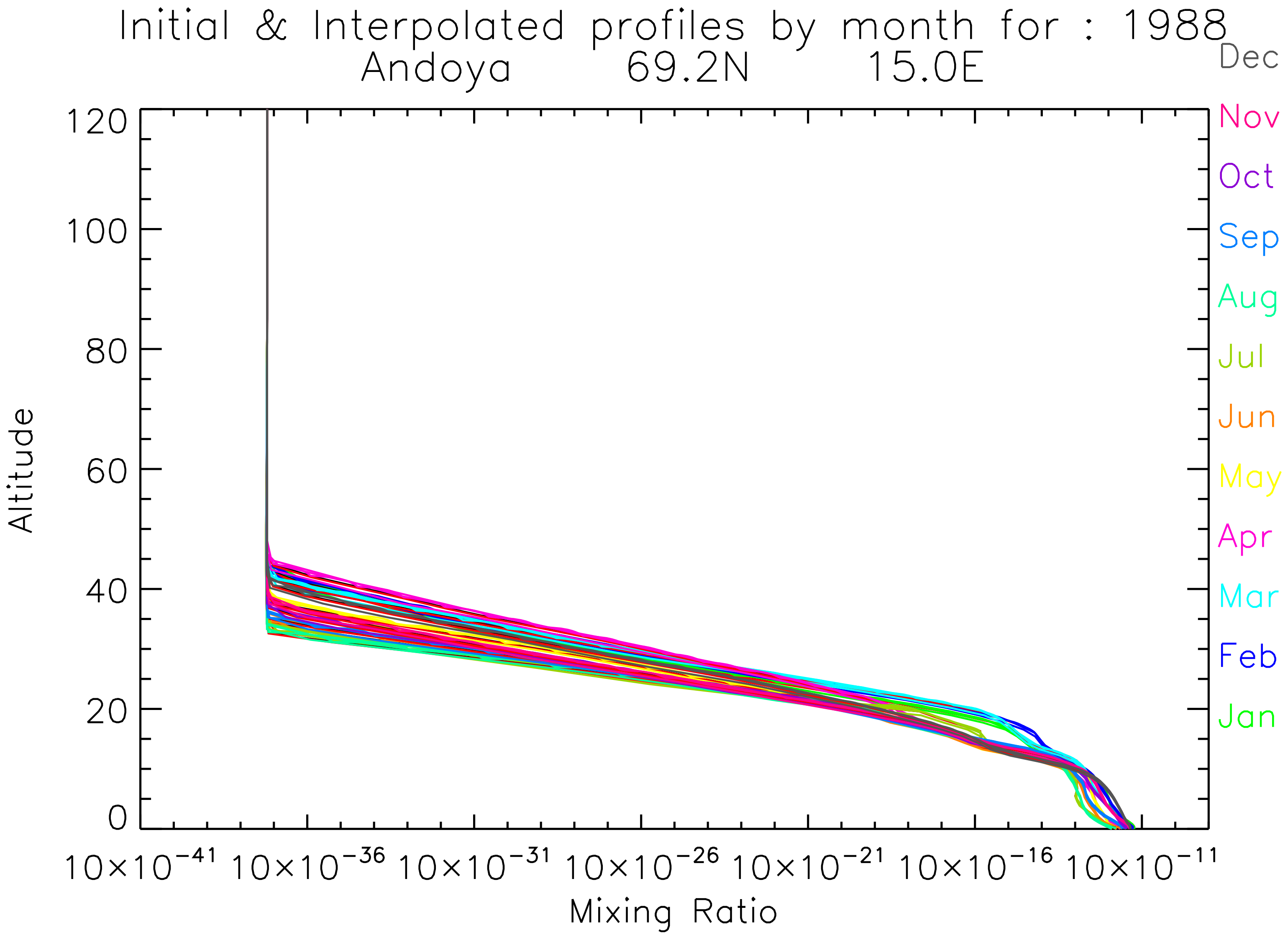
Initial & Interpolated profiles by month for : 1985
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

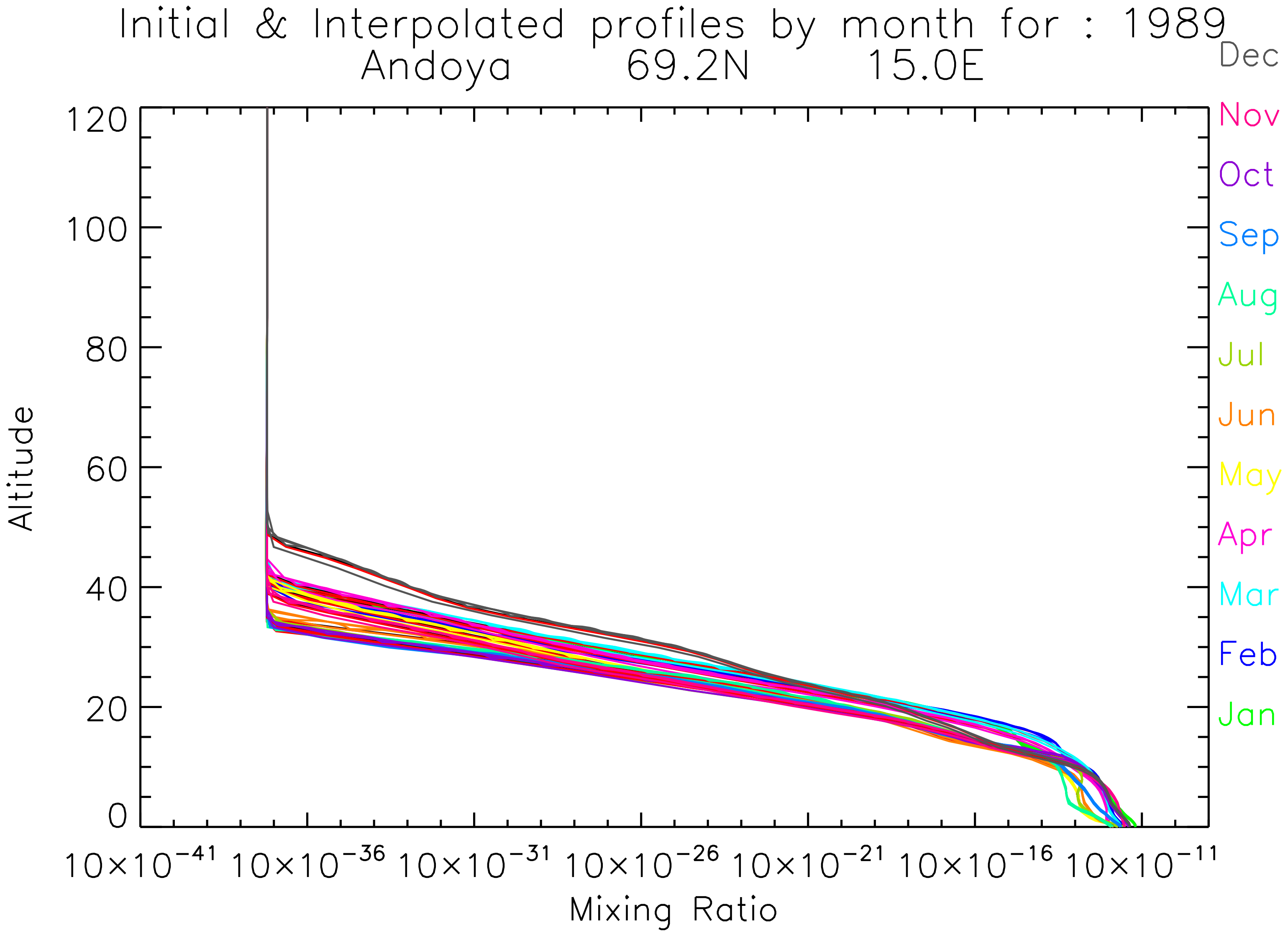


Initial & Interpolated profiles by month for : 1986
Andoya 69.2N 15.0E

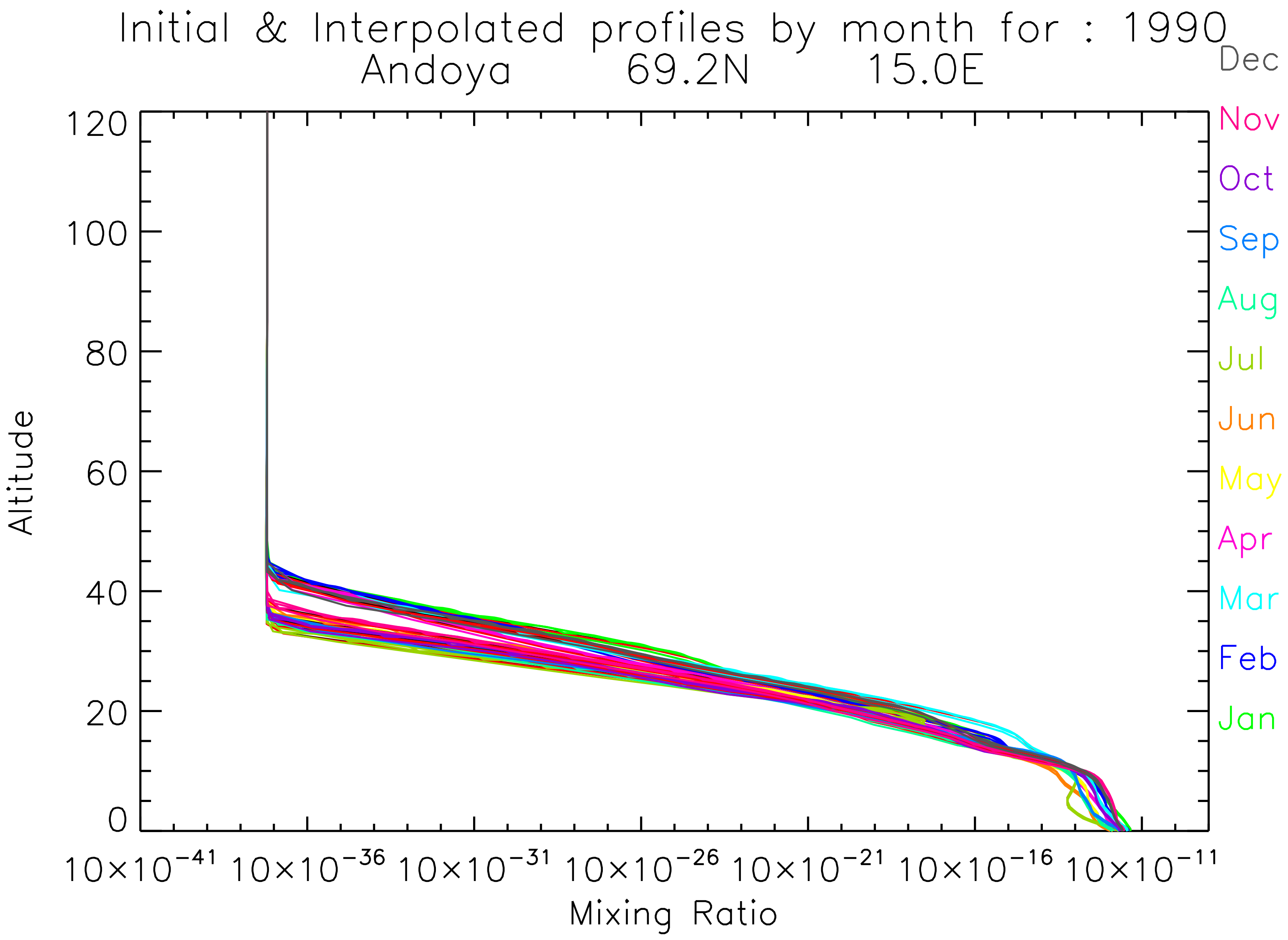


Initial & Interpolated profiles by month for : 1987
Andoya 69.2N 15.0E

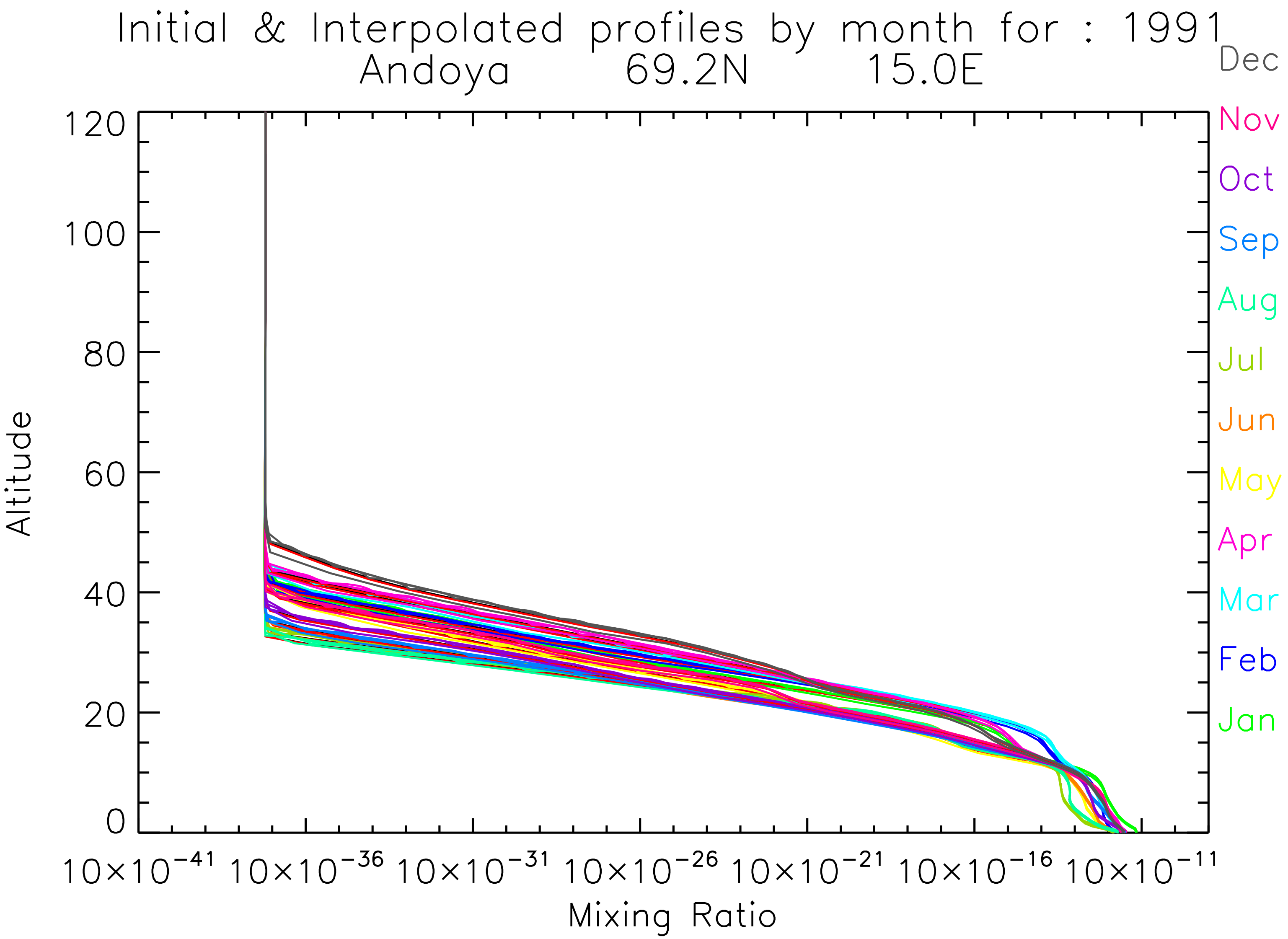

Initial & Interpolated profiles by month for : 1988
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



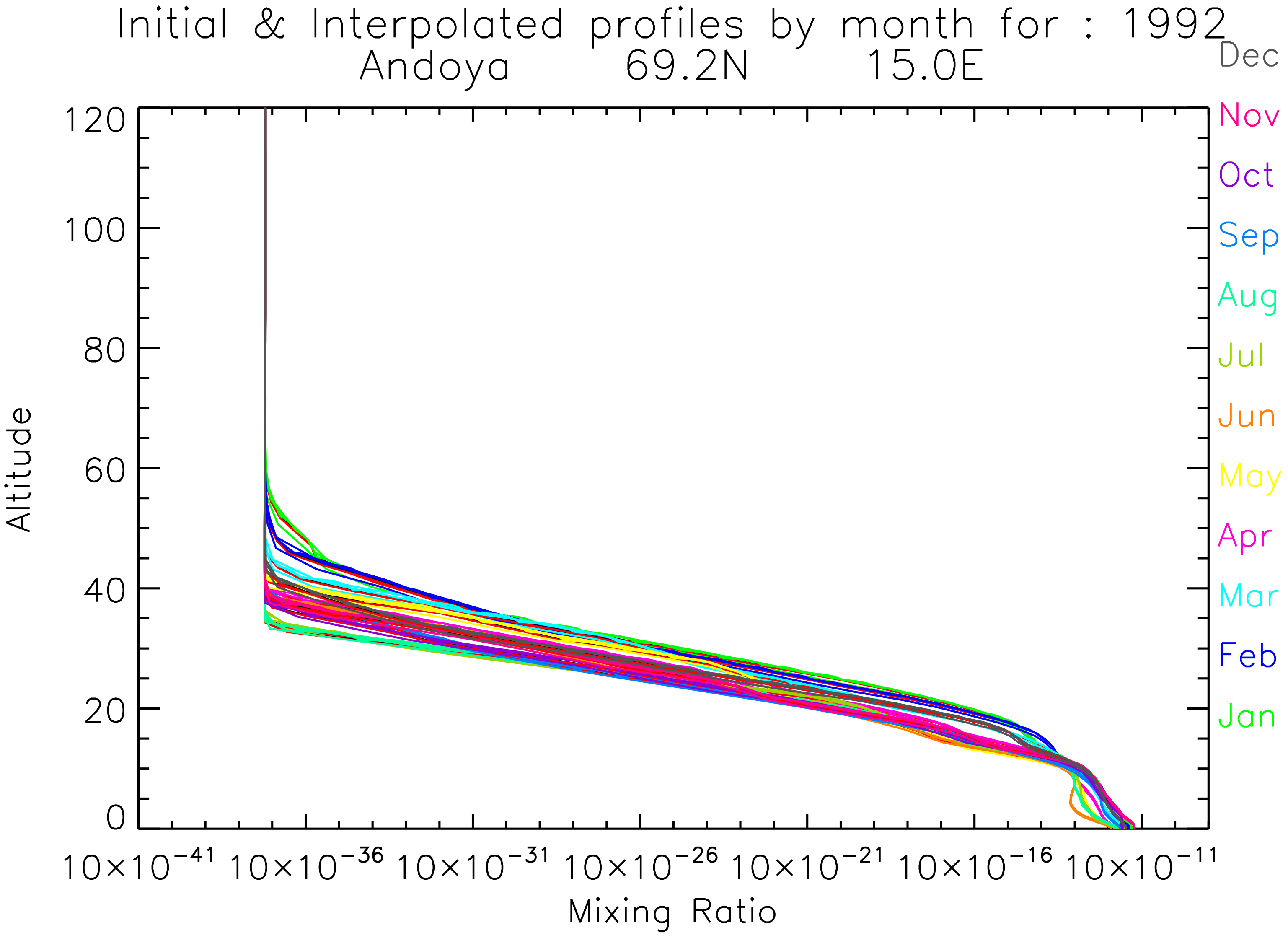
Initial & Interpolated profiles by month for : 1989
Andoya 69.2N 15.0E

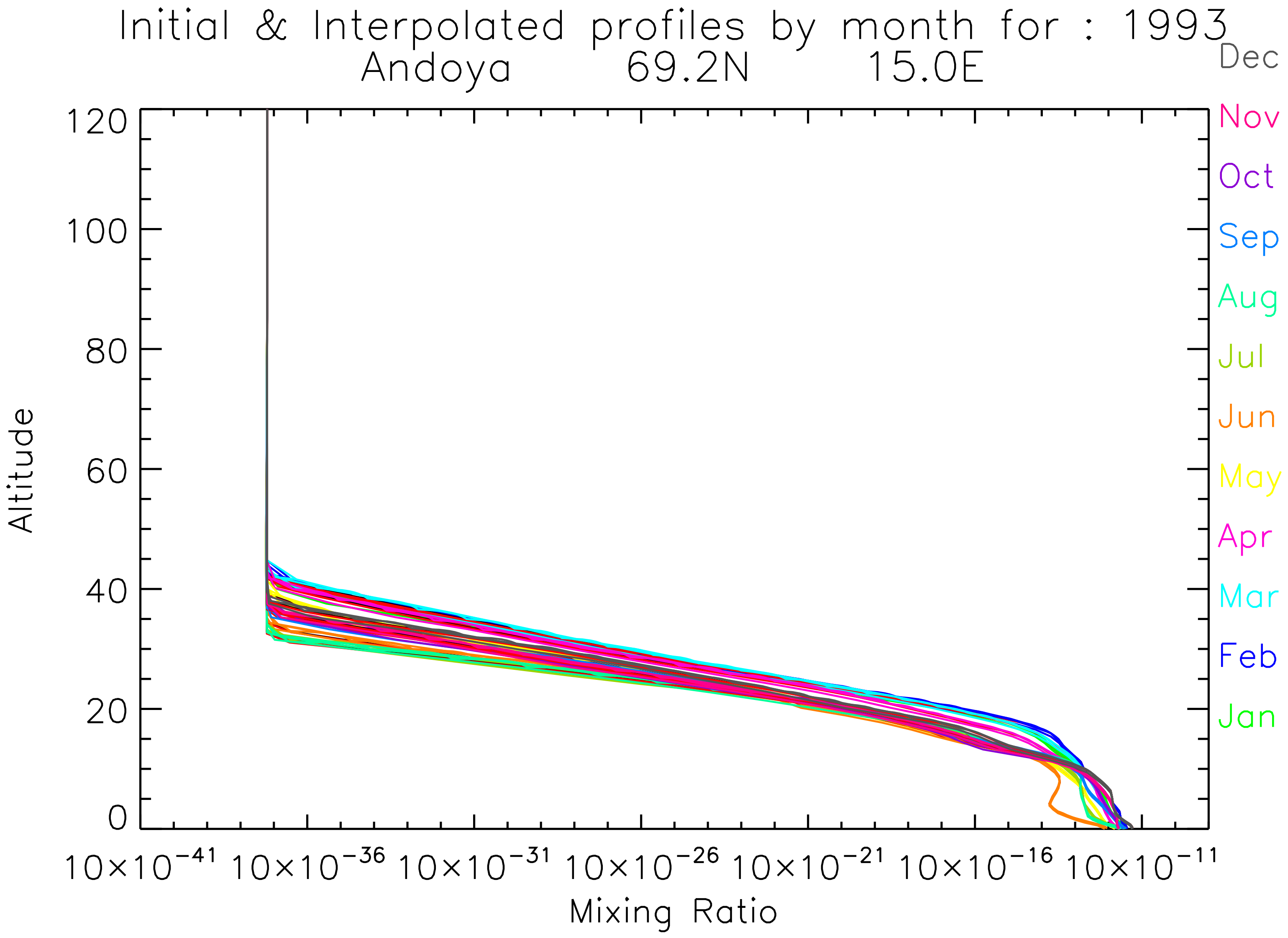


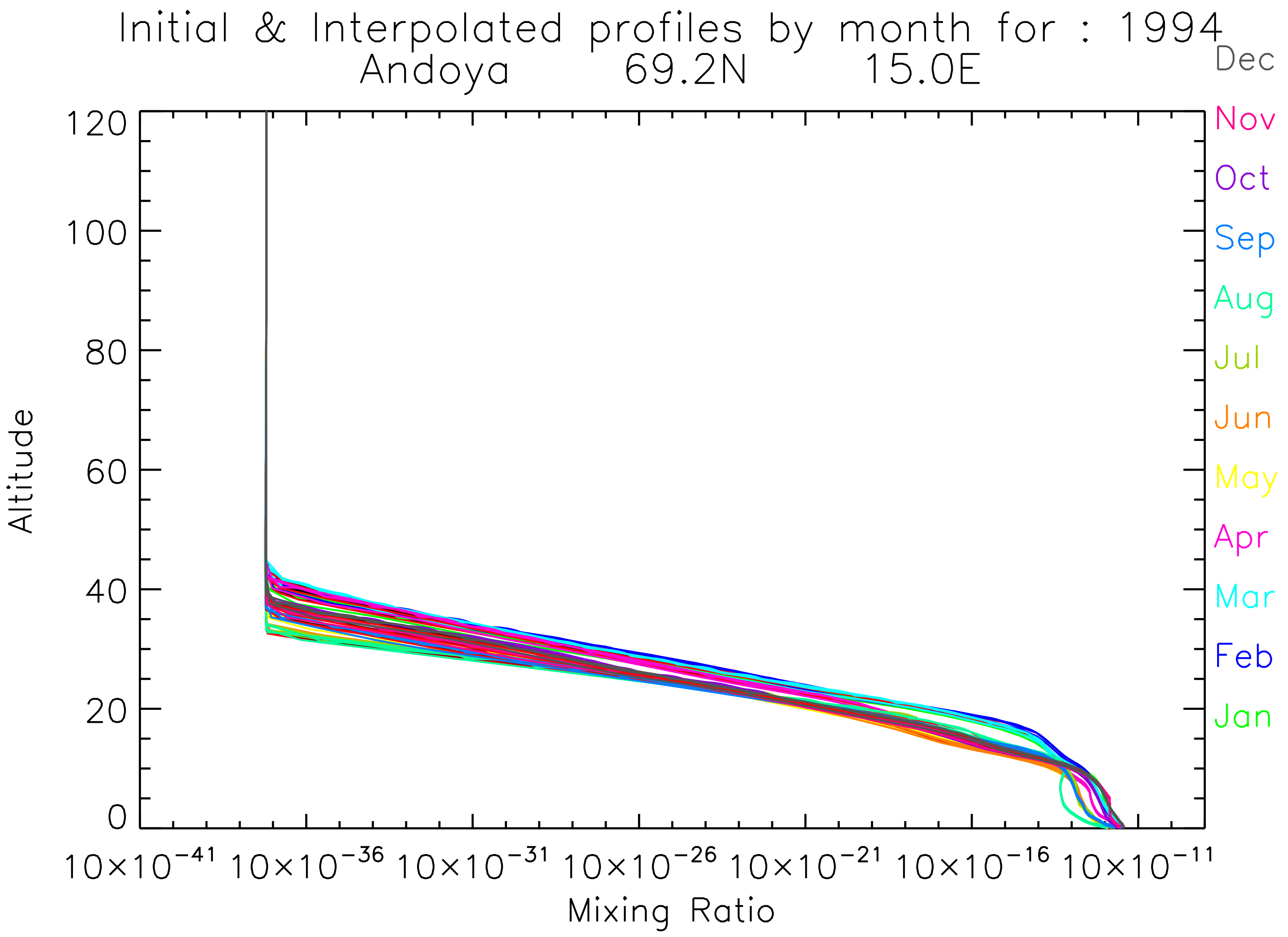
Initial & Interpolated profiles by month for : 1990
Andoya 69.2N 15.0E



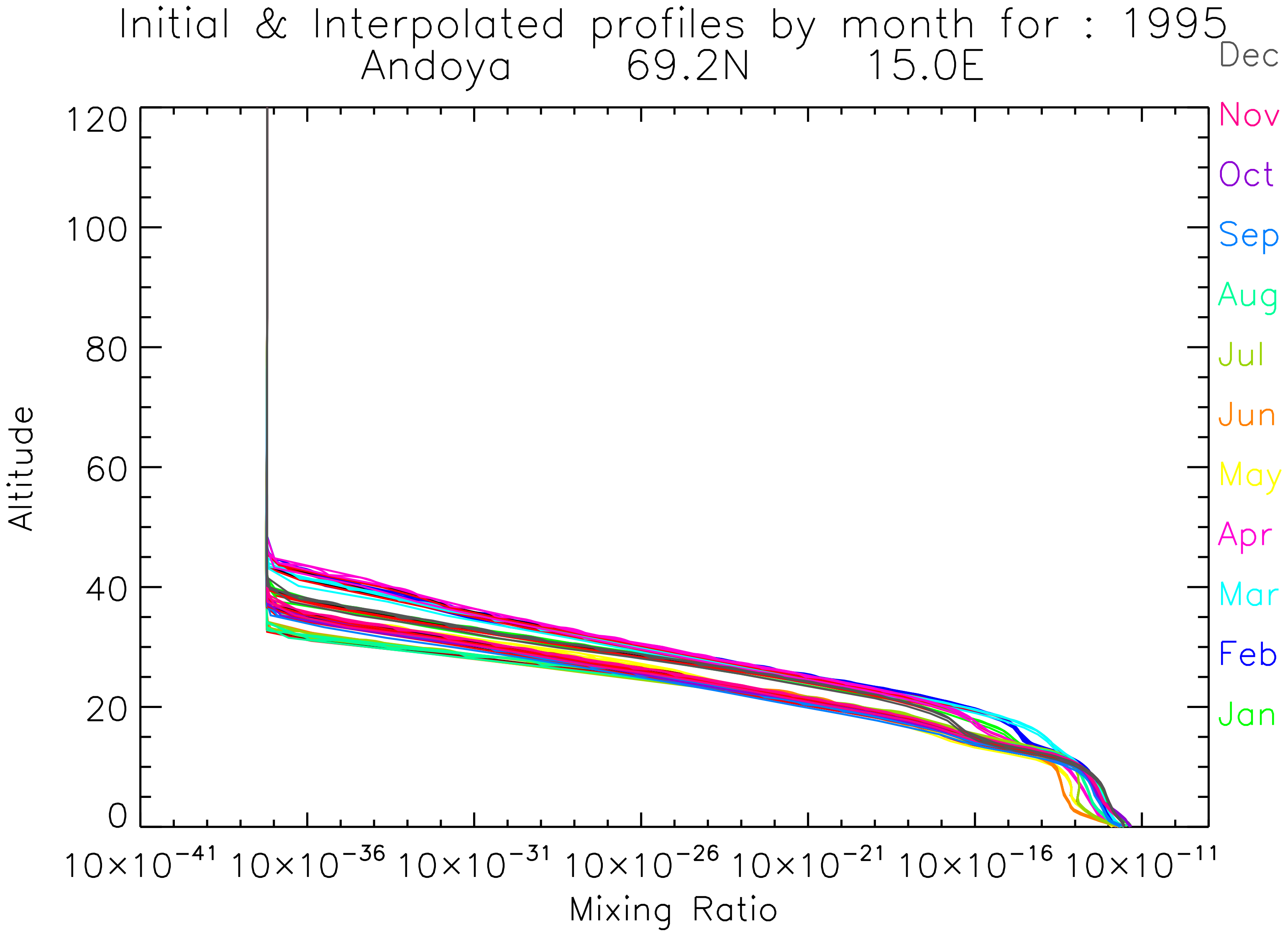
Initial & Interpolated profiles by month for : 1991
Andoya 69.2N 15.0E

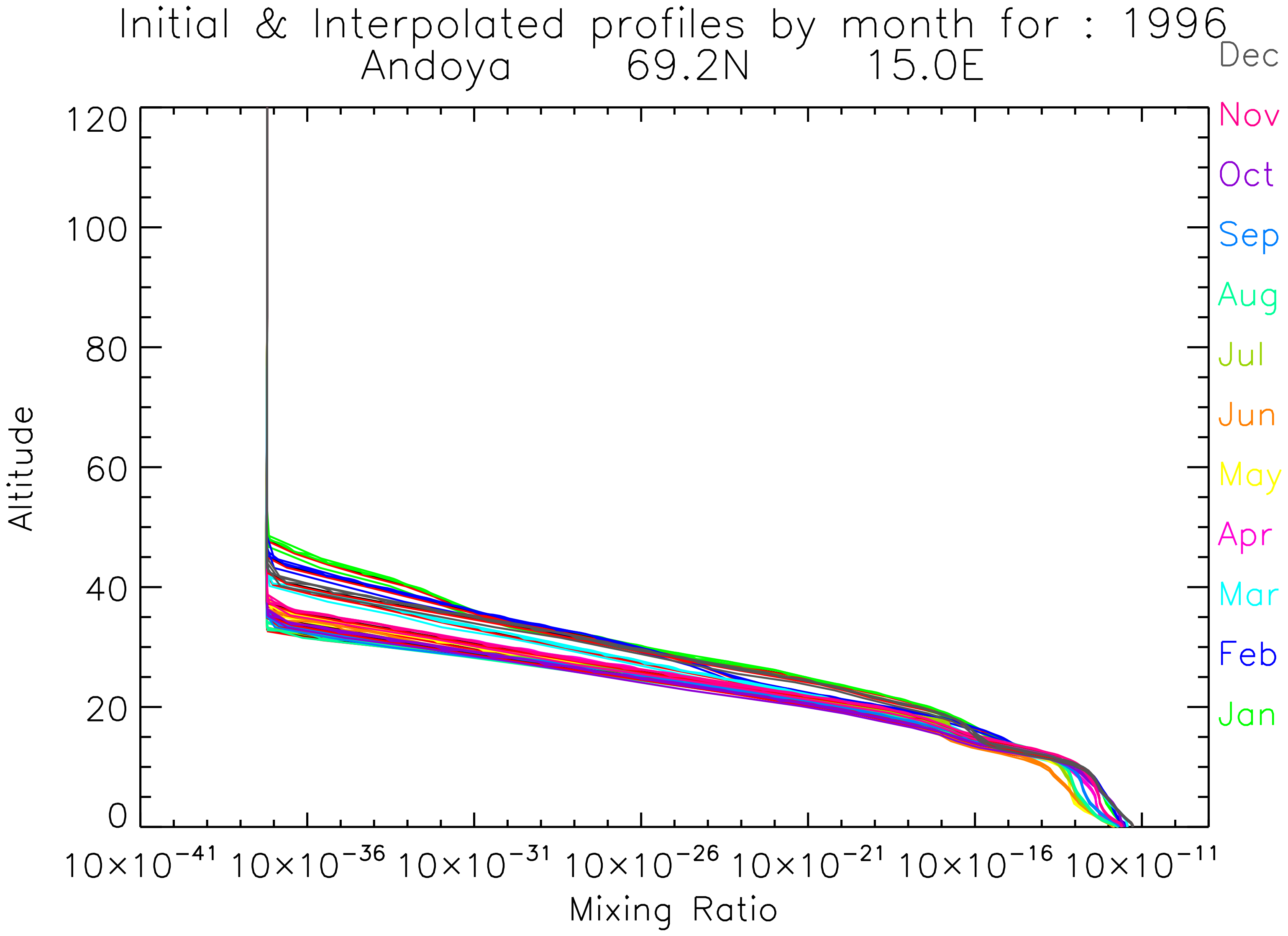

Initial & Interpolated profiles by month for : 1992
Andoya 69.2N 15.0E


Initial & Interpolated profiles by month for : 1993
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

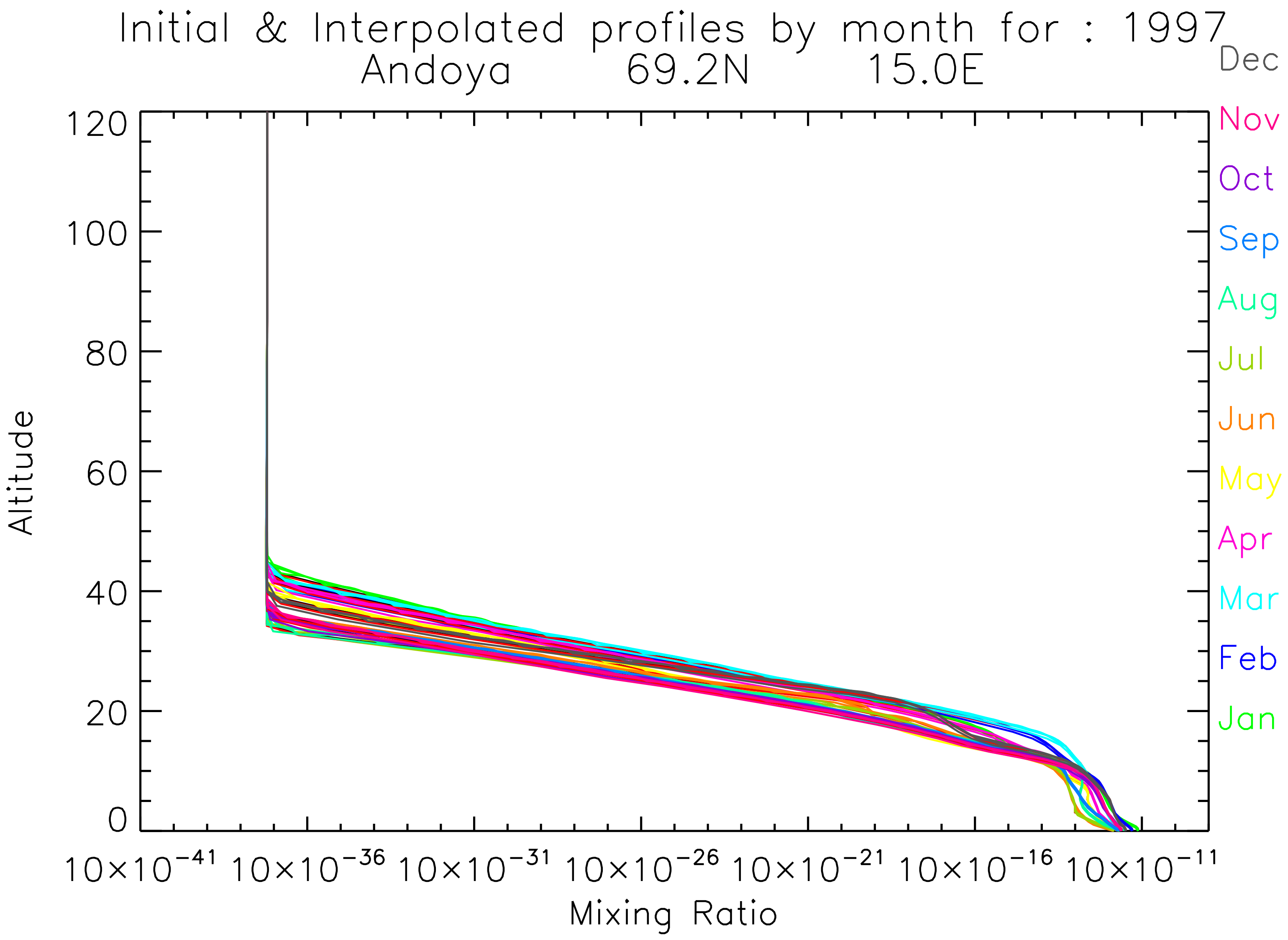


Initial & Interpolated profiles by month for : 1994
Andoya 69.2N 15.0E

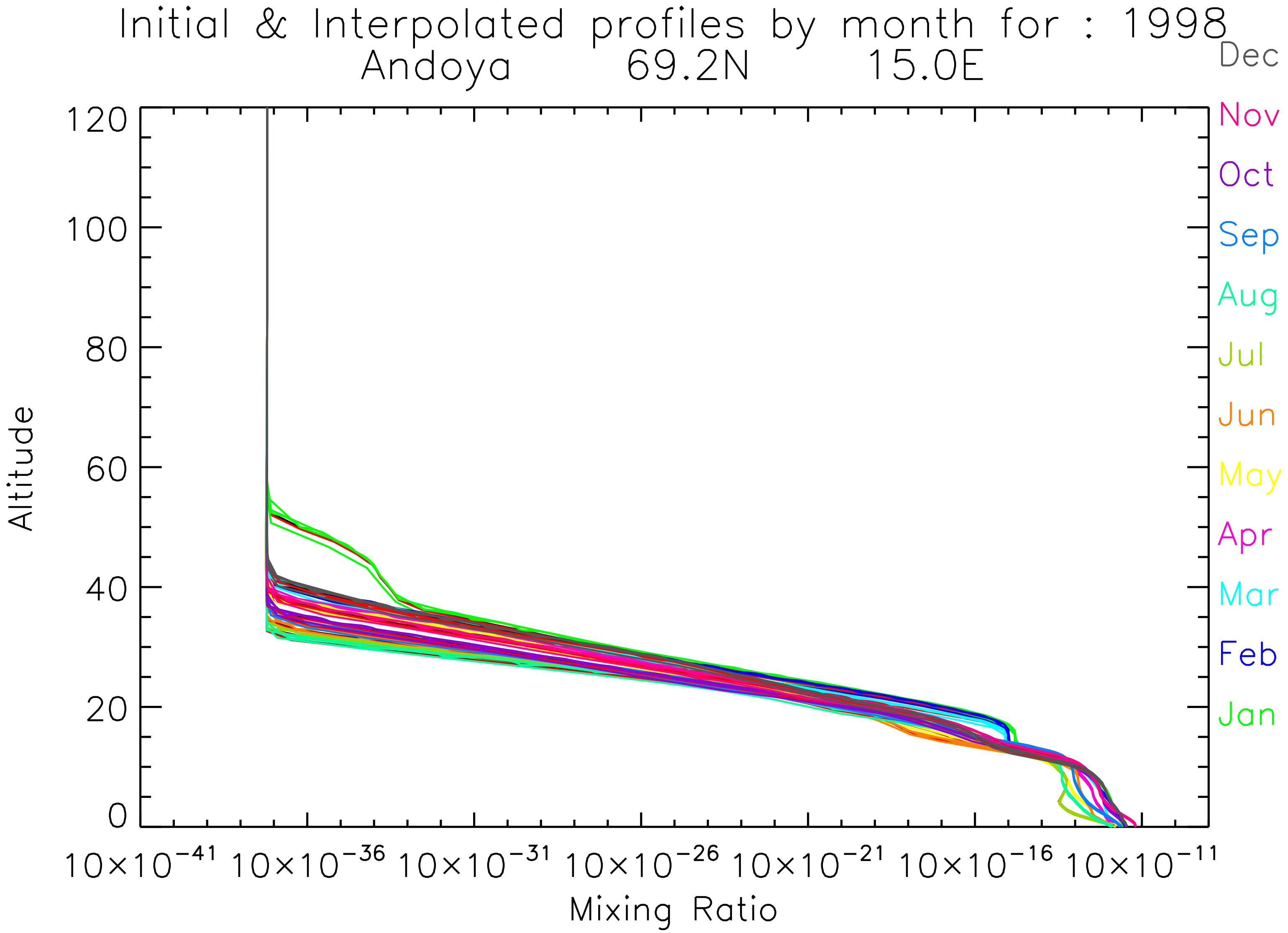

Initial & Interpolated profiles by month for : 1995
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



Initial & Interpolated profiles by month for : 1996
Andoya 69.2N 15.0E

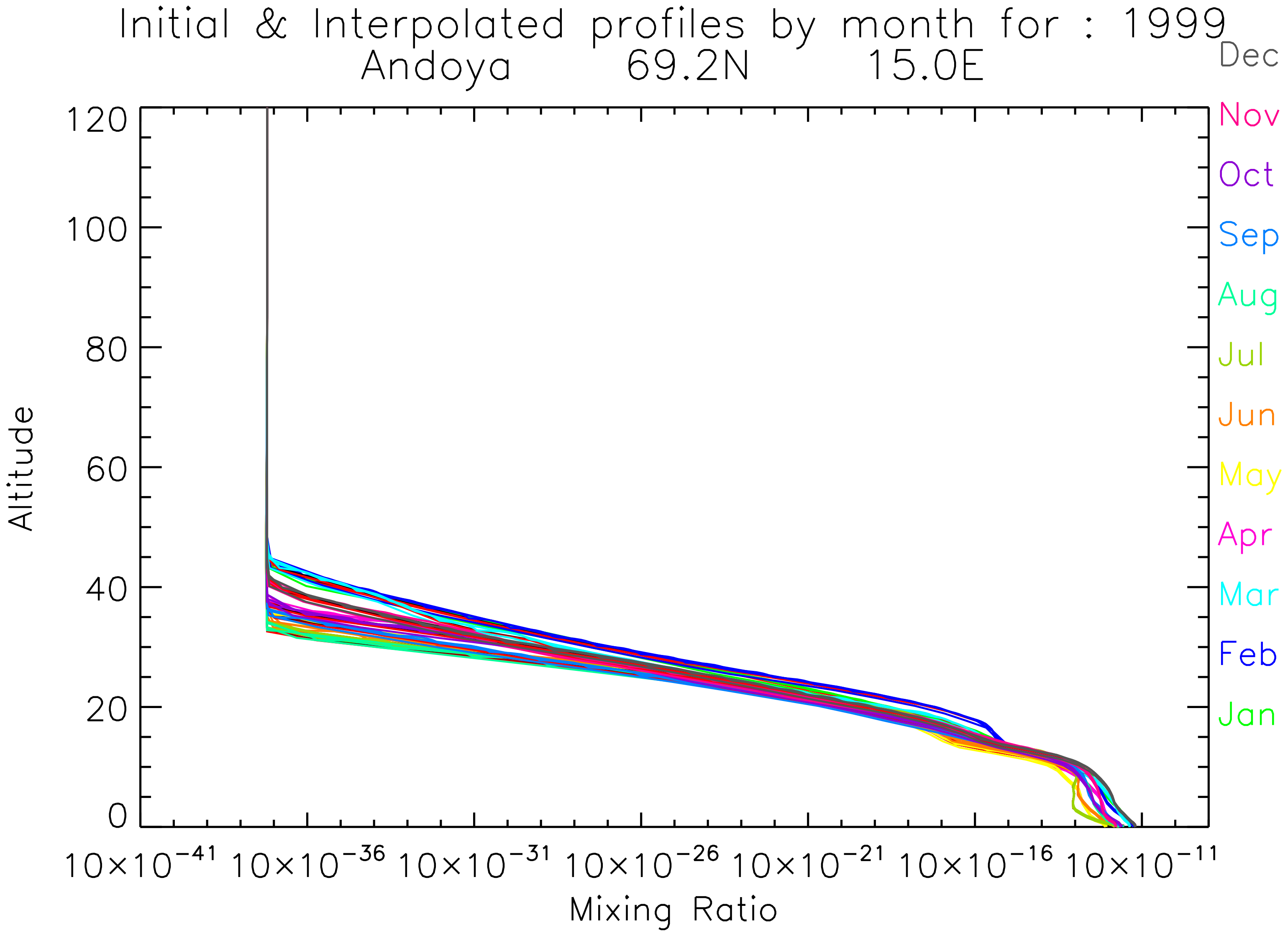


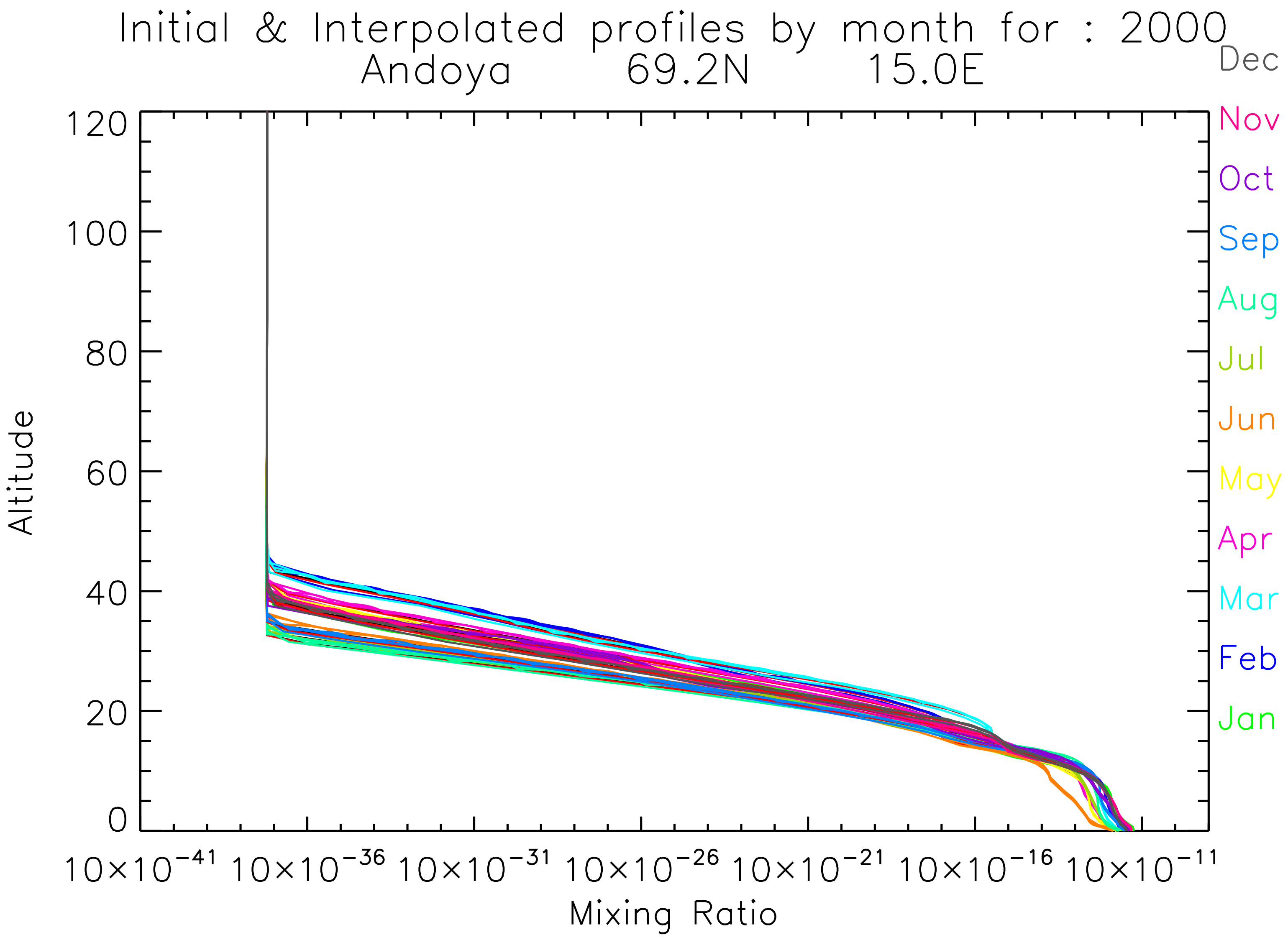
Initial & Interpolated profiles by month for : 1997
Andoya 69.2N 15.0E

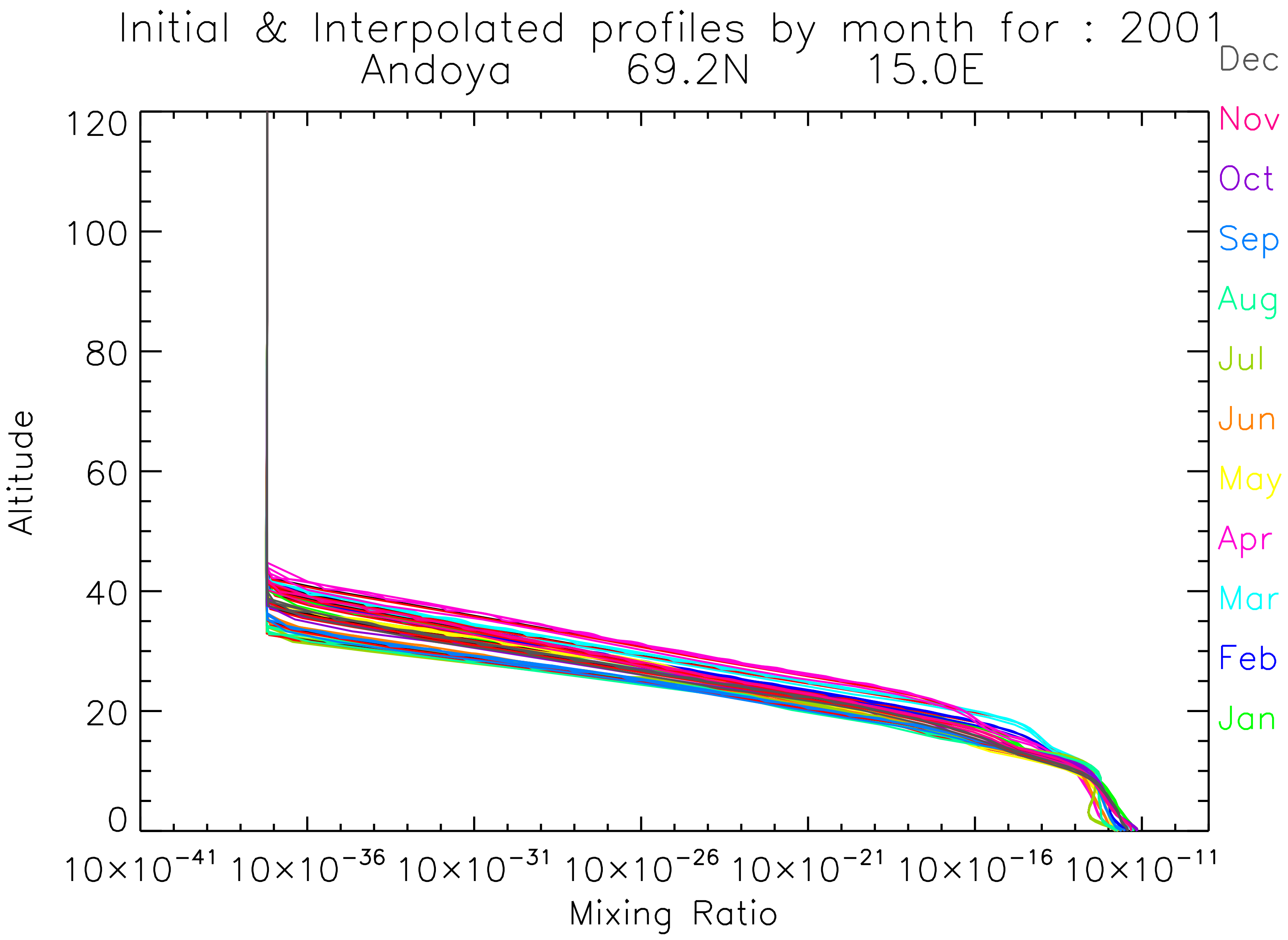


Initial & Interpolated profiles by month for : 1998

Andoya 69.2N 15.0E

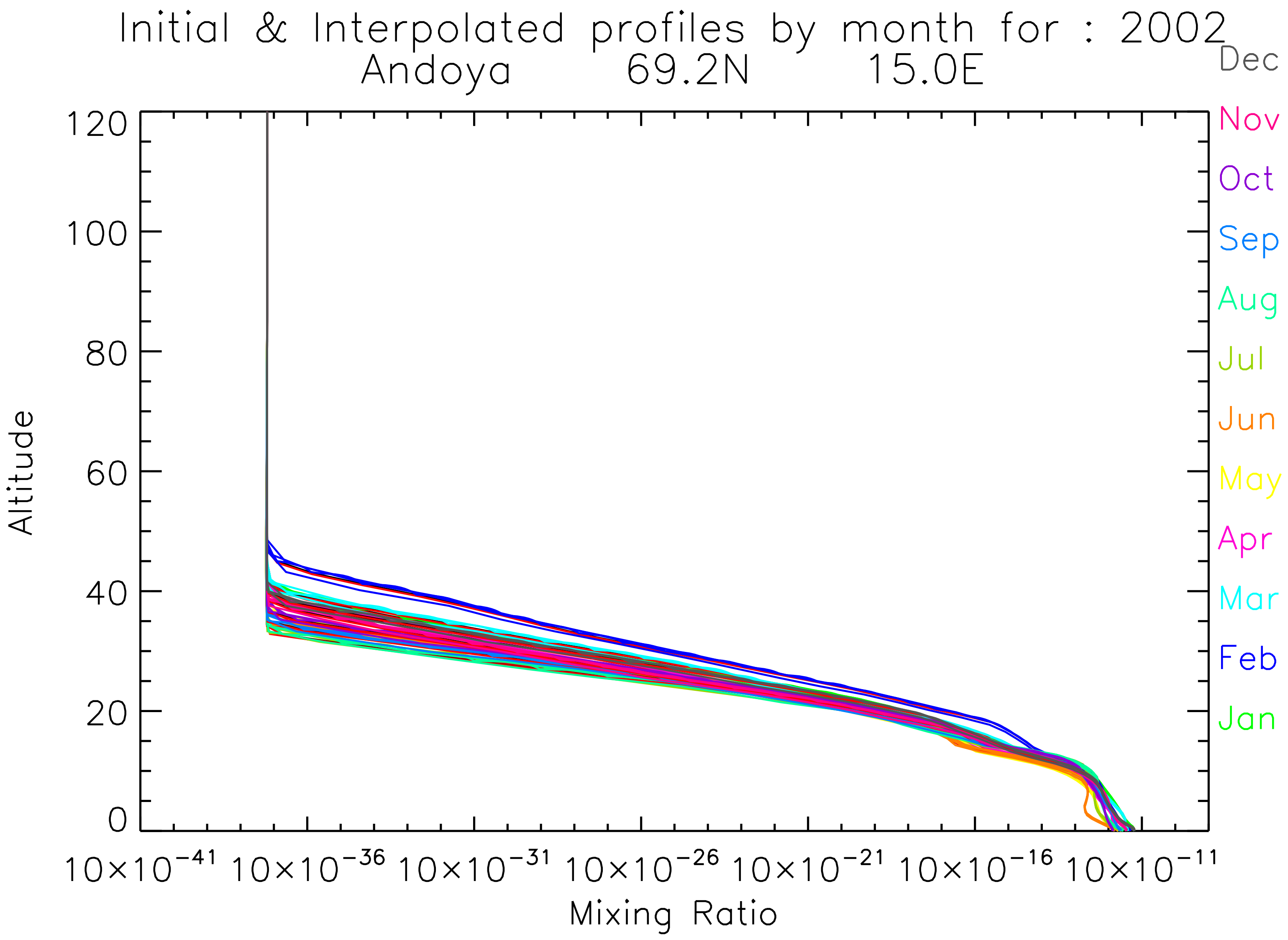

Initial & Interpolated profiles by month for : 1999
Andoya 69.2N 15.0E

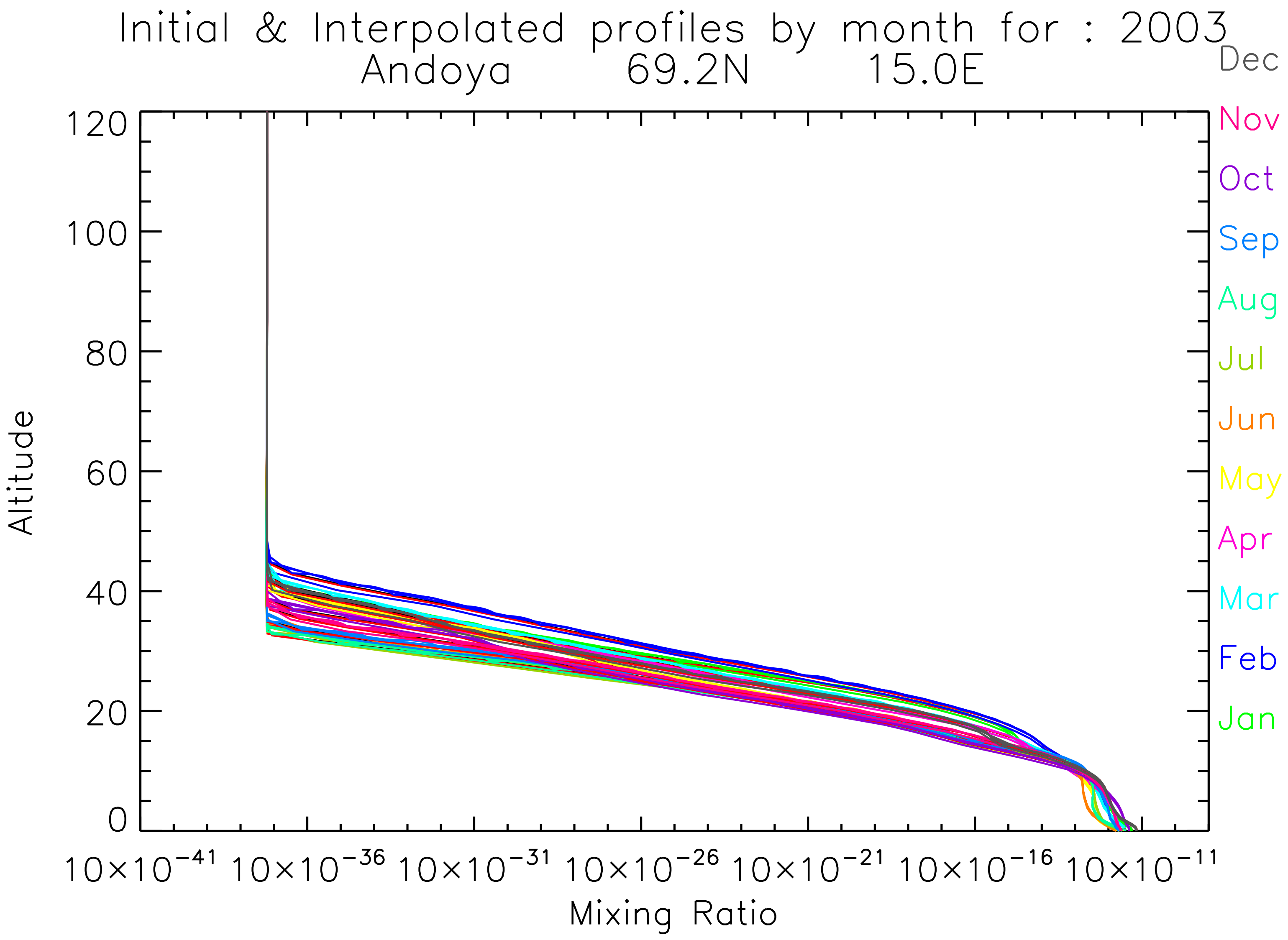

Initial & Interpolated profiles by month for : 2000
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



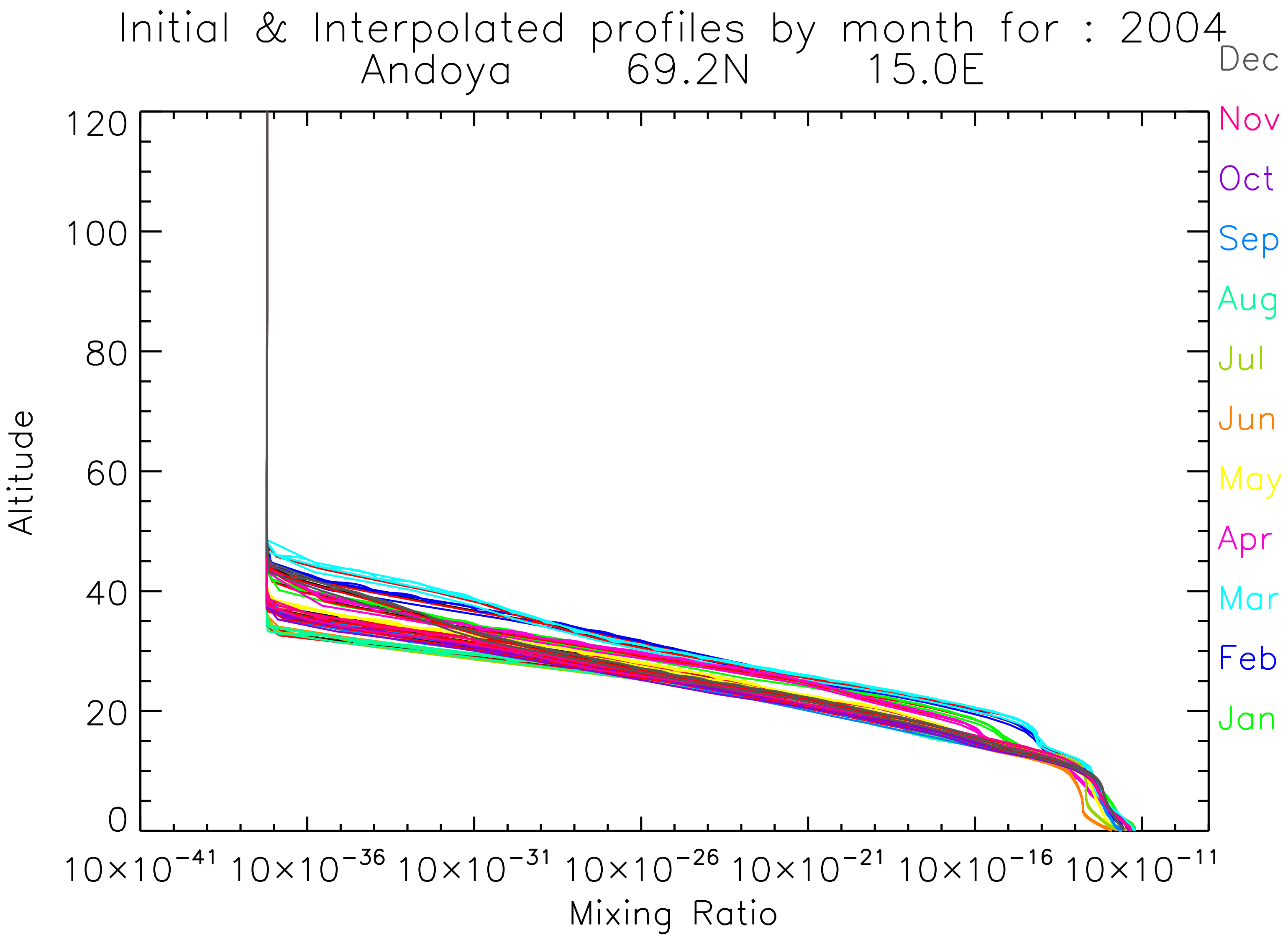
Initial & Interpolated profiles by month for : 2001

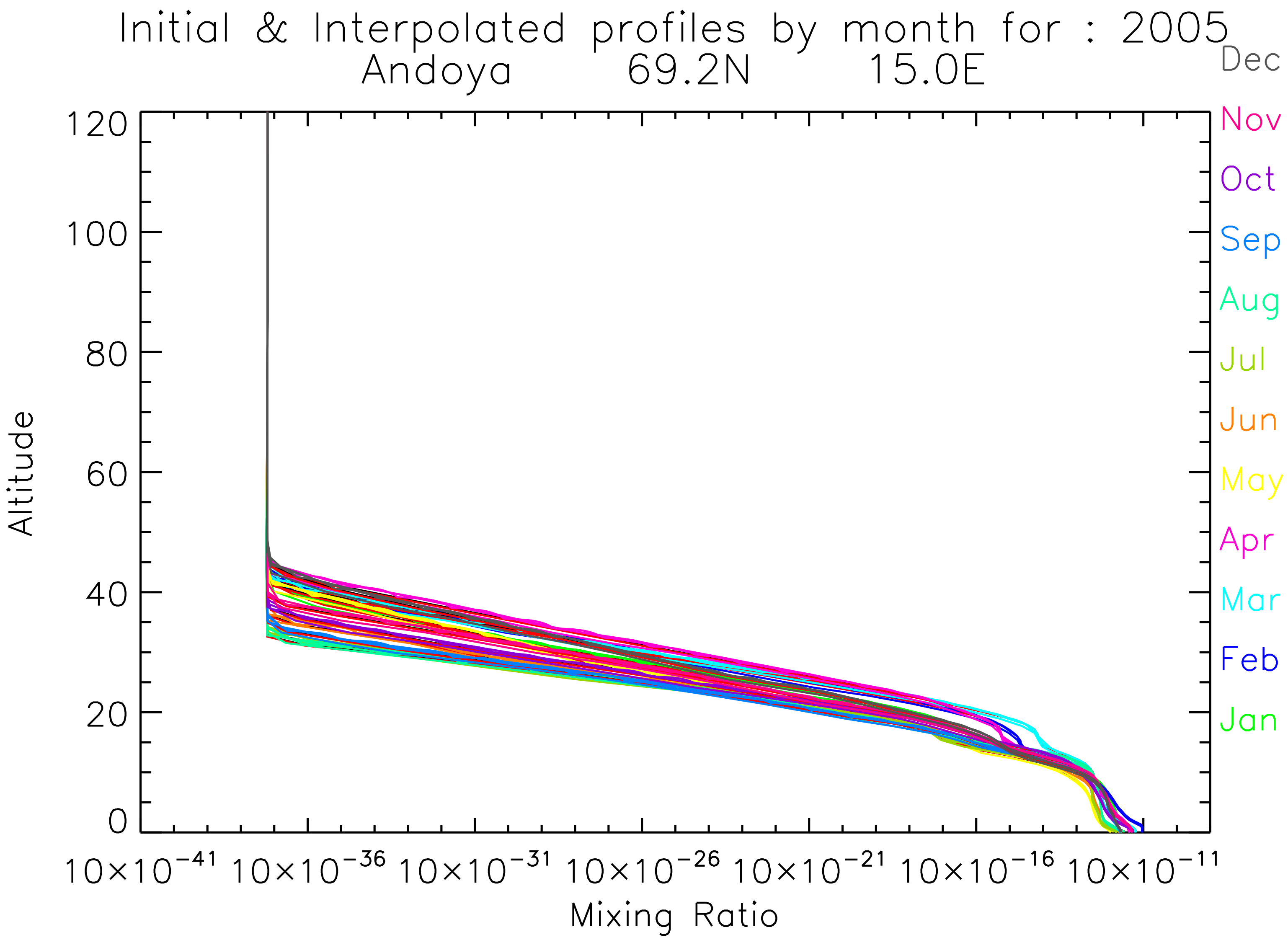
Andoya 69.2N 15.0E

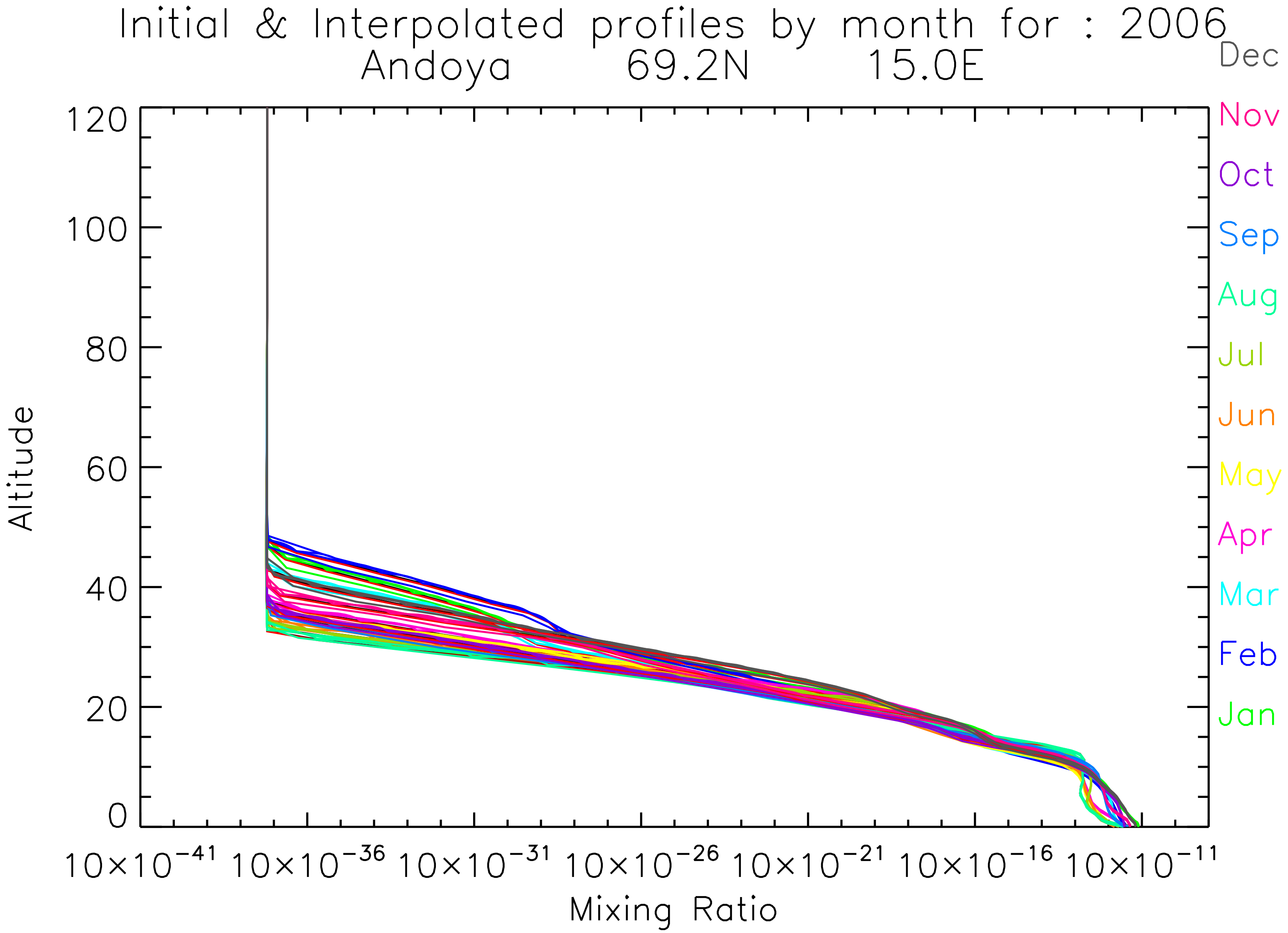

Initial & Interpolated profiles by month for : 2002
Andoya 69.2N 15.0E
Altitude
120
100
80
60
40
20
0
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



Initial & Interpolated profiles by month for : 2003
Andoya 69.2N 15.0E

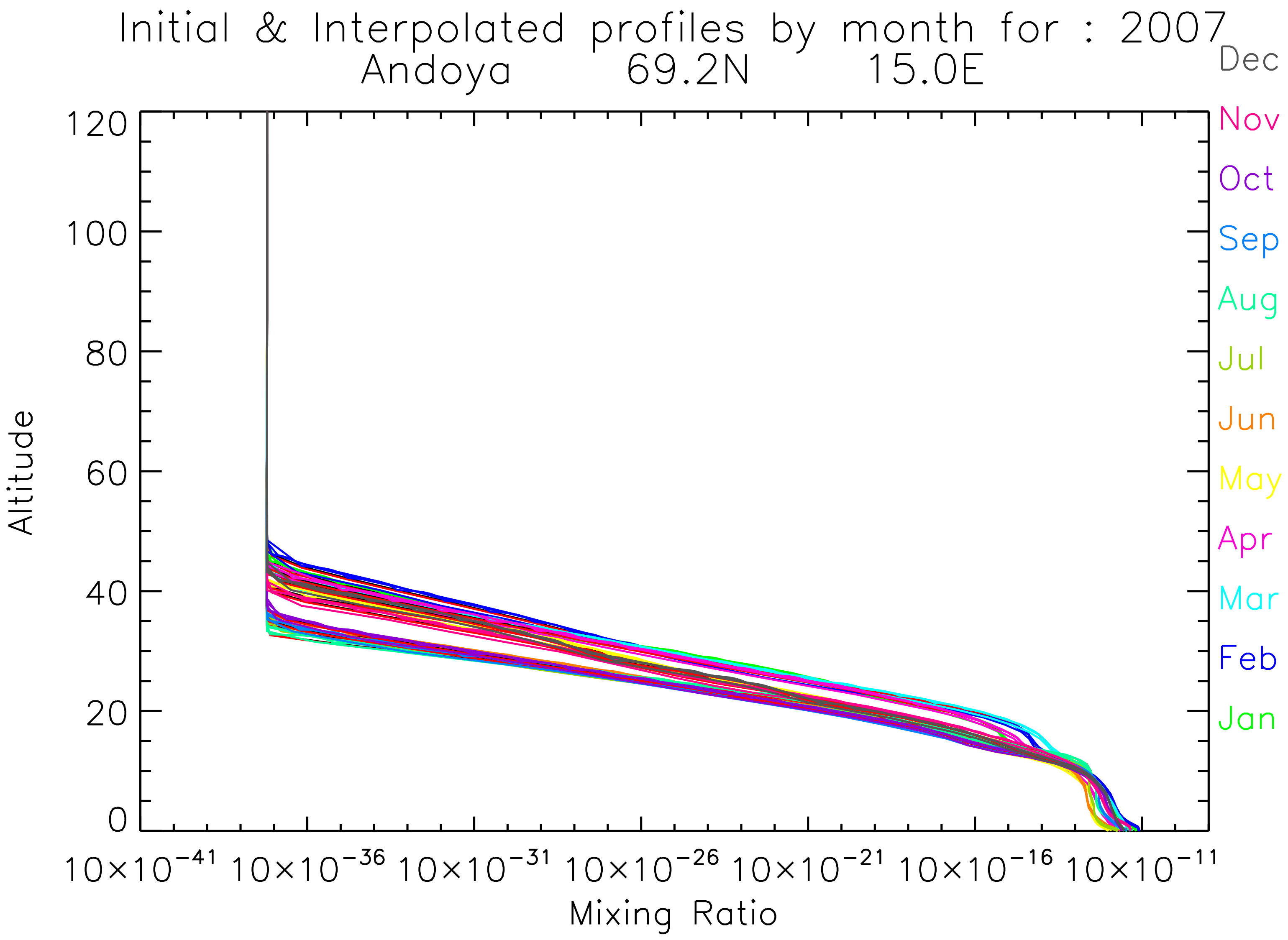

Initial & Interpolated profiles by month for : 2004
Andoya 69.2N 15.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio

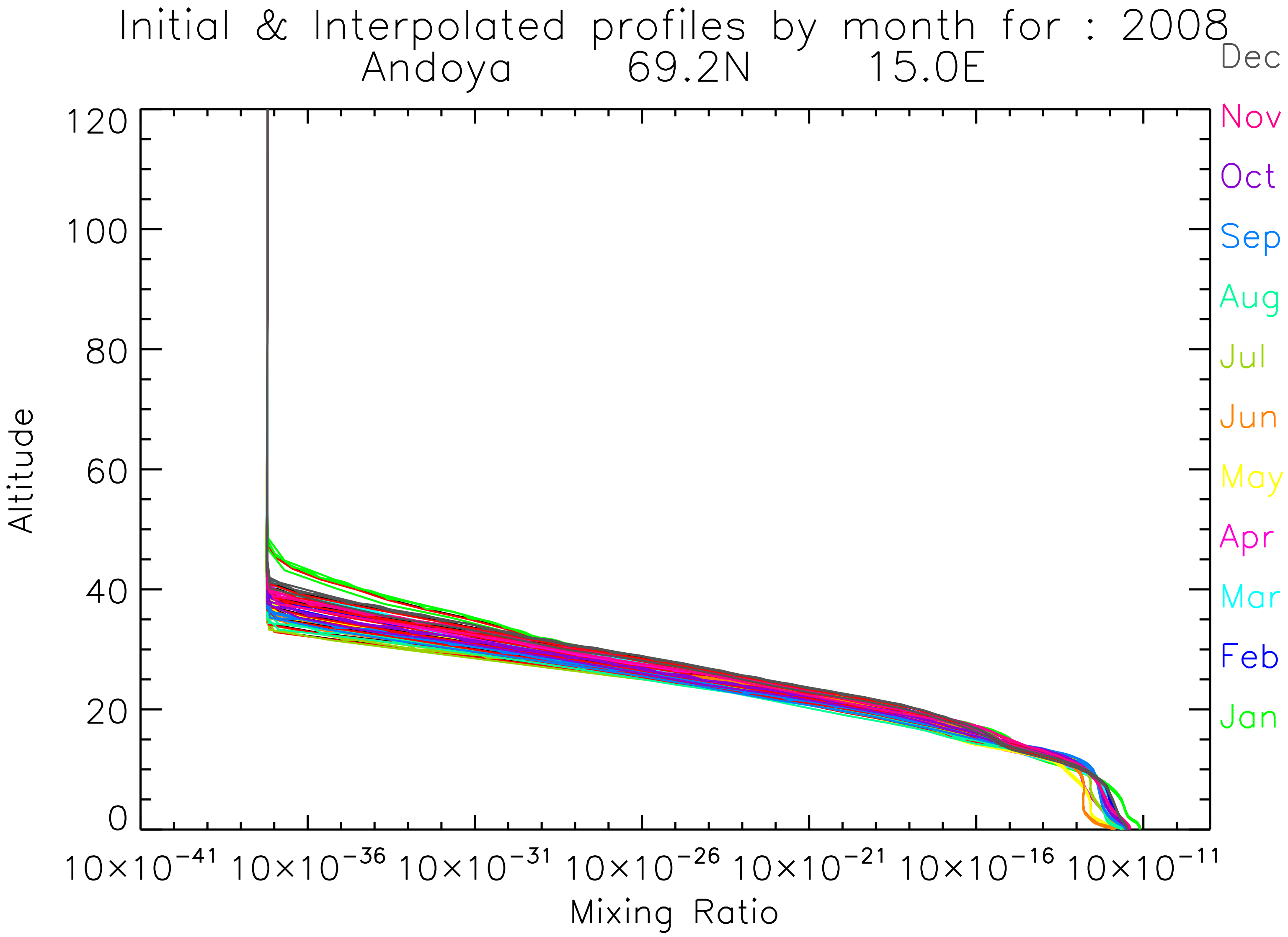

Initial & Interpolated profiles by month for : 2005
Andoya 69.2N 15.0E
Altitude
120
100
80
60
40
20
0
10×10⁻⁴¹
10×10⁻³⁶
10×10⁻³¹
10×10⁻²⁶
10×10⁻²¹
10×10⁻¹⁶
10×10⁻¹¹
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



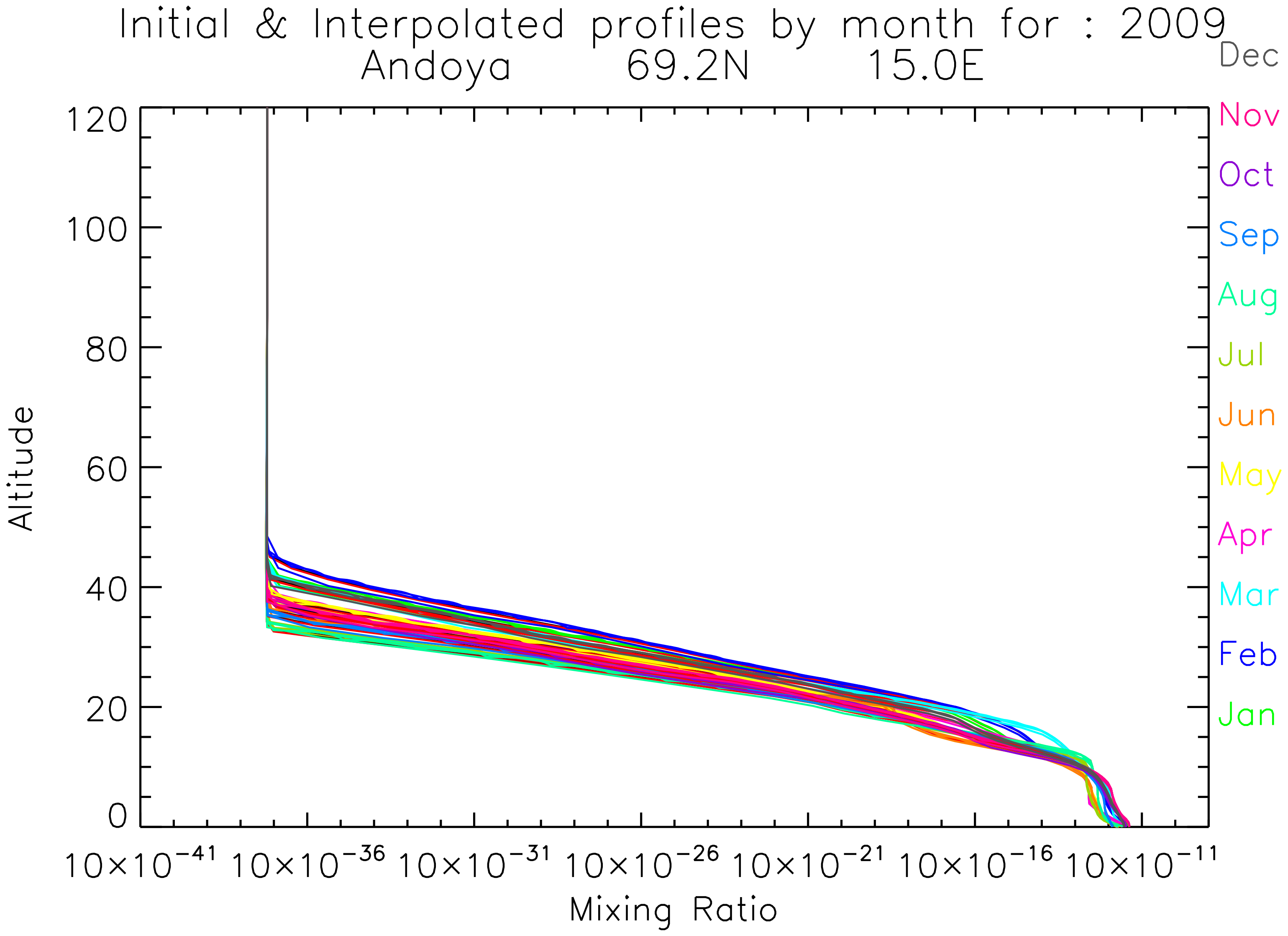
Initial & Interpolated profiles by month for : 2006

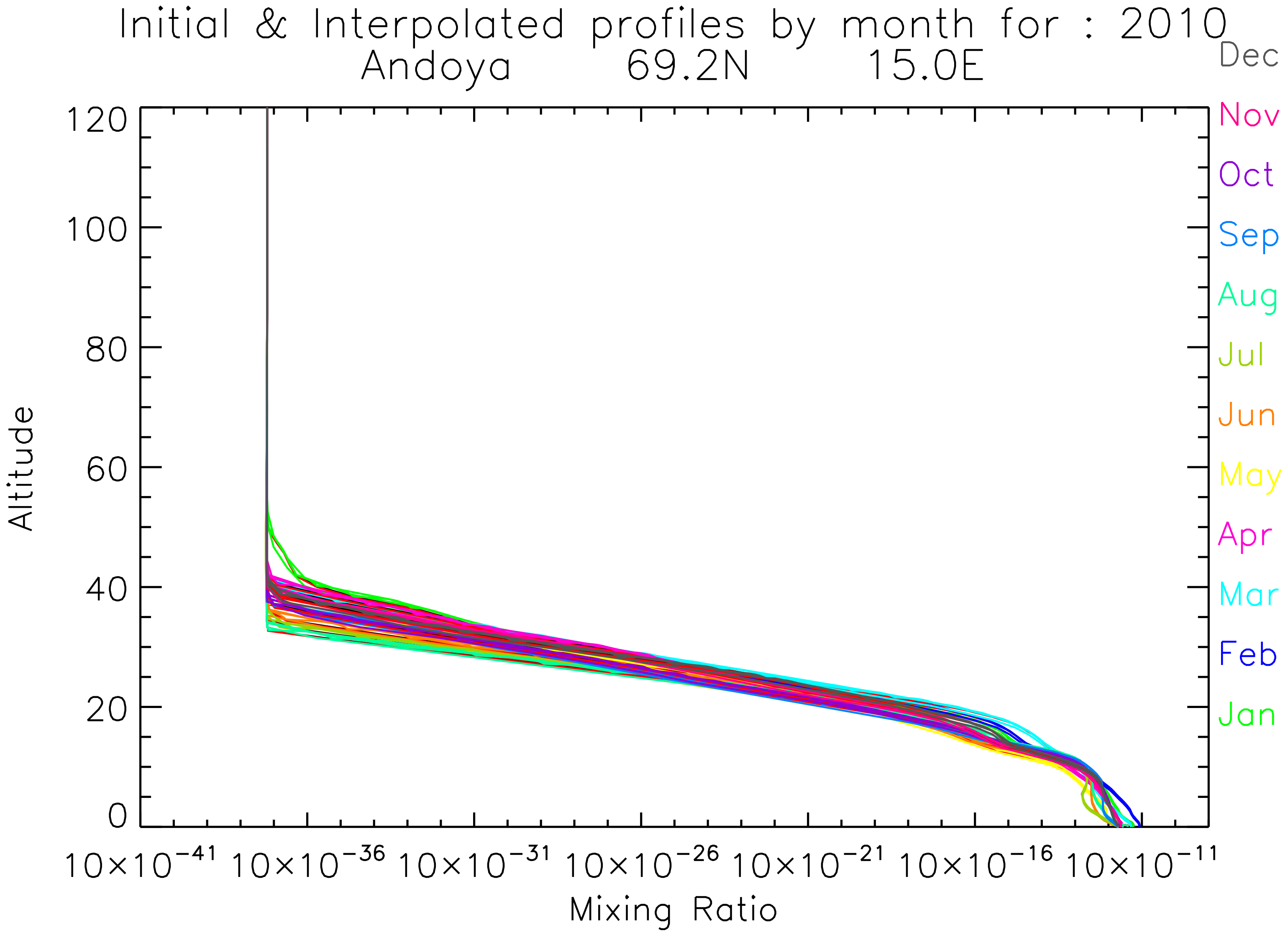
Andoya 69.2N 15.0E

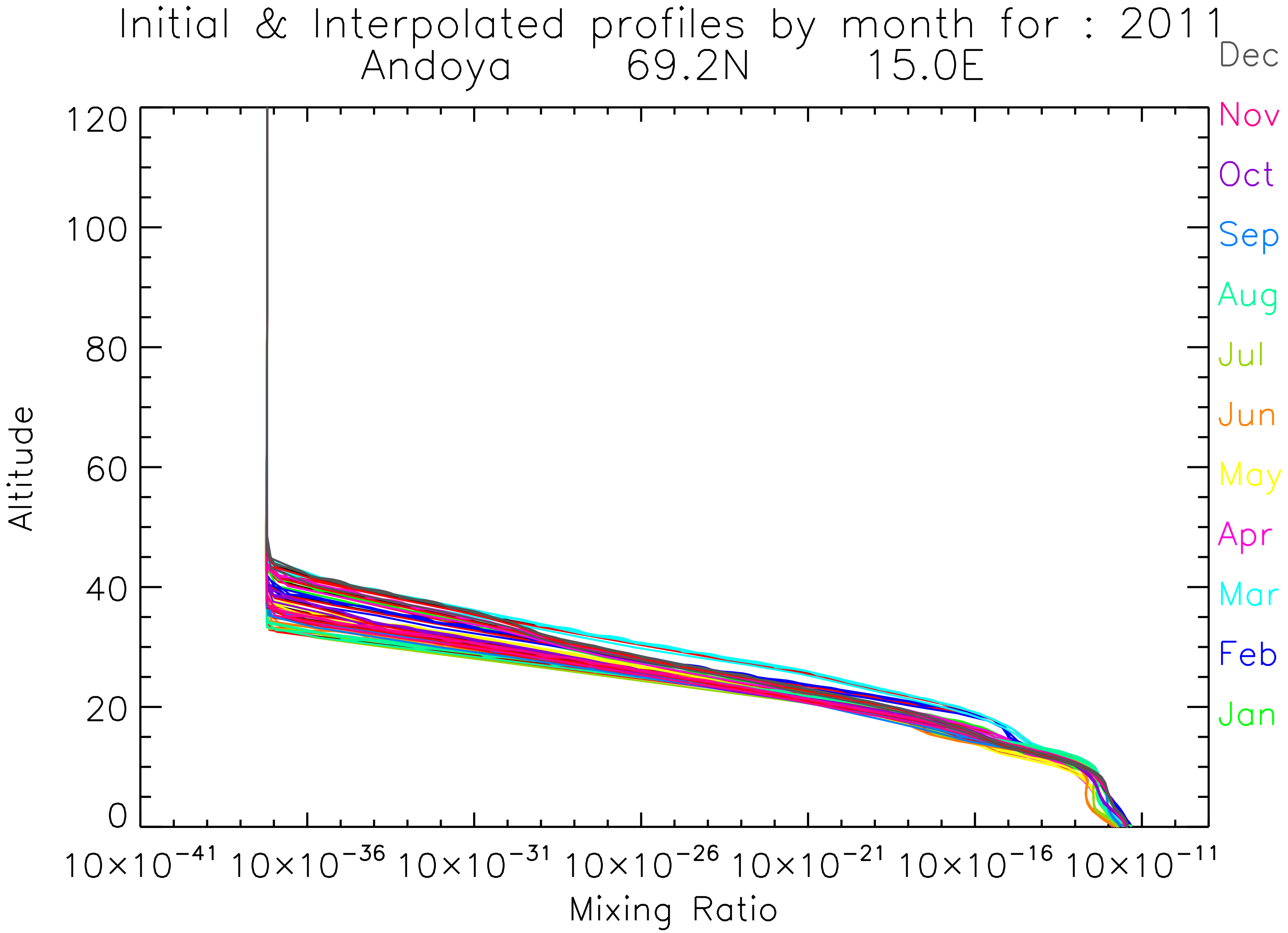

Initial & Interpolated profiles by month for : 2007
Andoya 69.2N 15.0E
Altitude
120
100
80
60
40
20
0
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

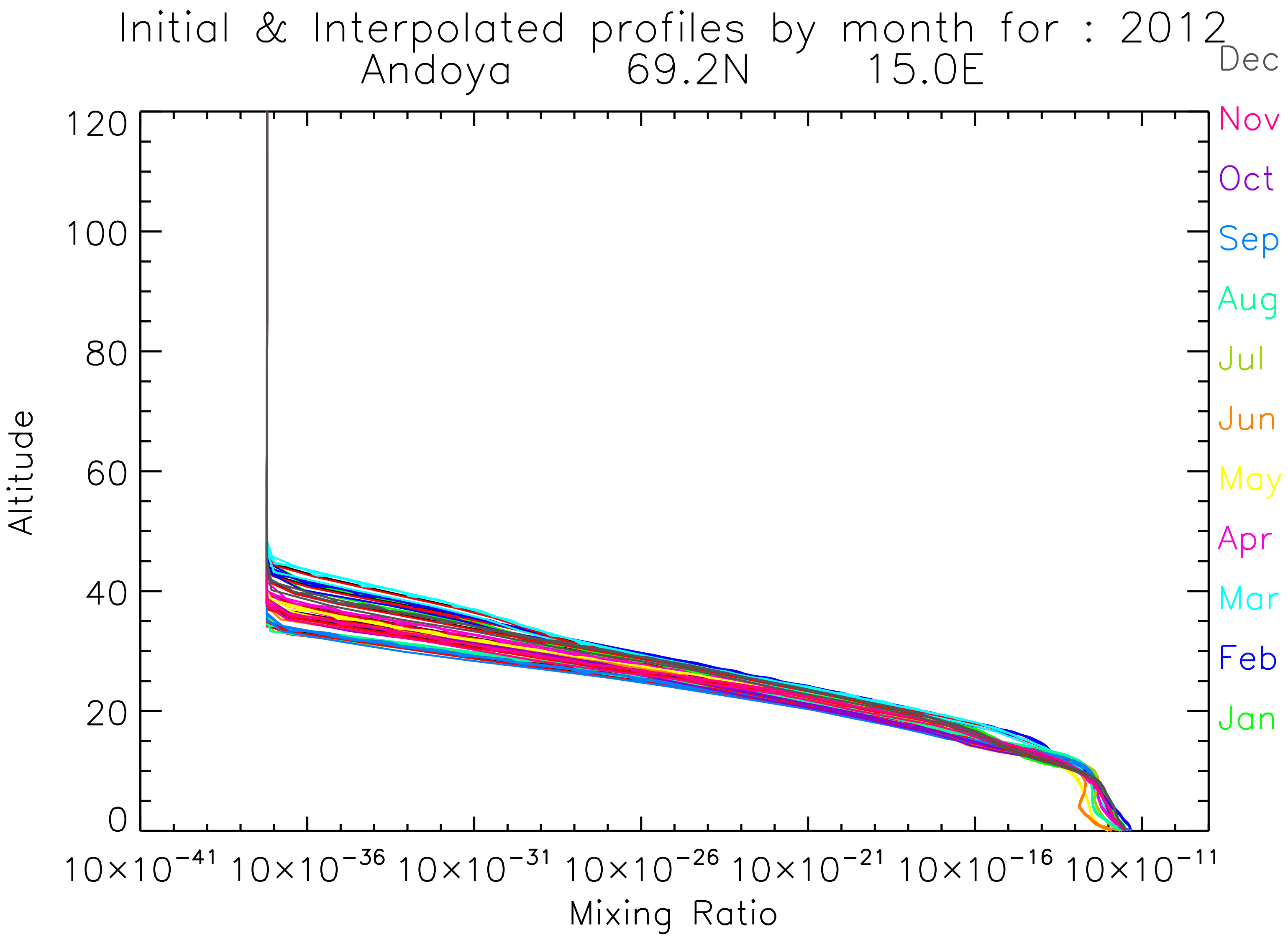


Initial & Interpolated profiles by month for : 2008
Andoya 69.2N 15.0E


Initial & Interpolated profiles by month for : 2009
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

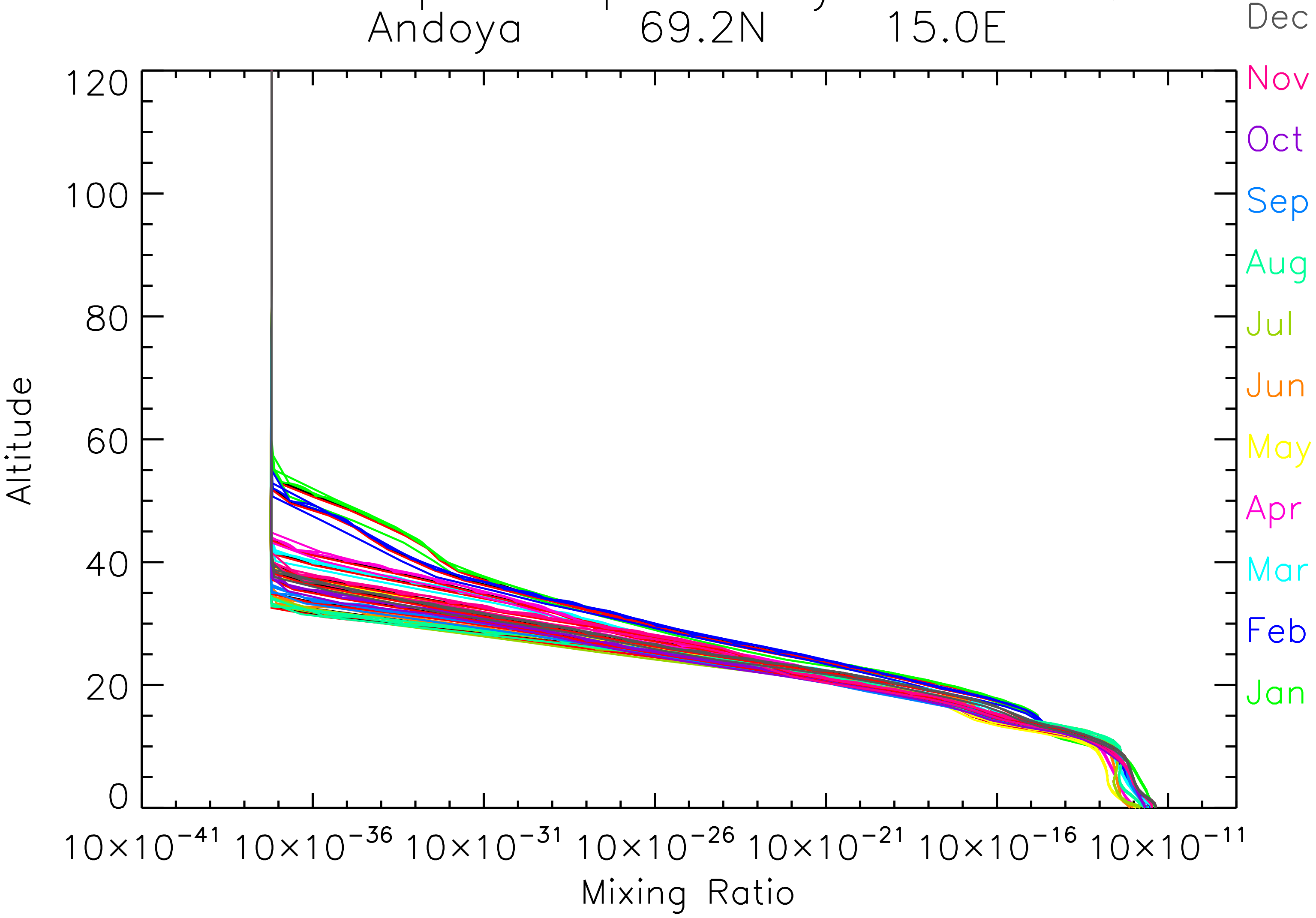

Initial & Interpolated profiles by month for : 2010
Andoya 69.2N 15.0E
Altitude
120
100
80
60
40
20
0
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

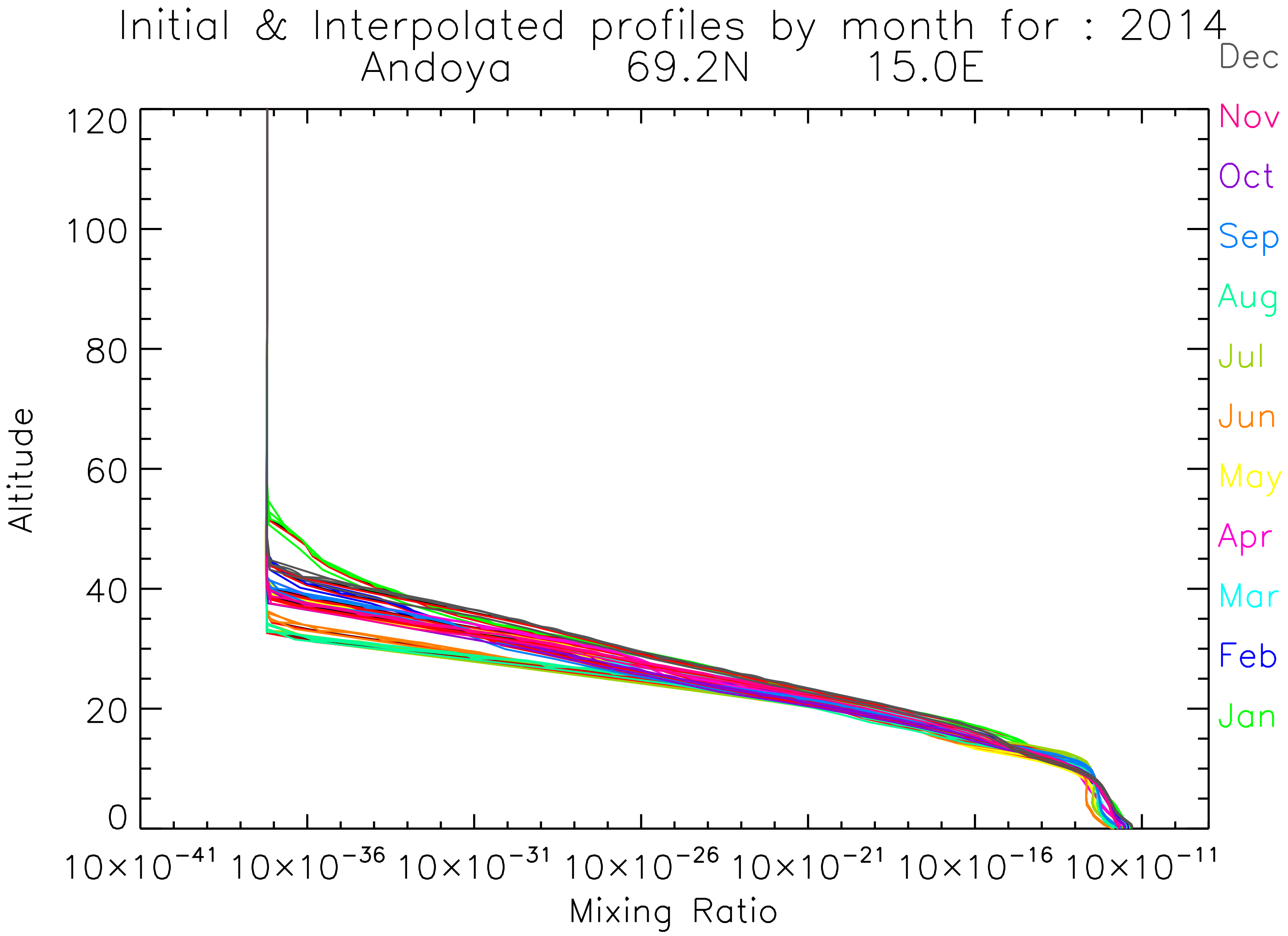

Initial & Interpolated profiles by month for : 2011
Andoya 69.2N 15.0E
Altitude
120
100
80
60
40
20
0
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

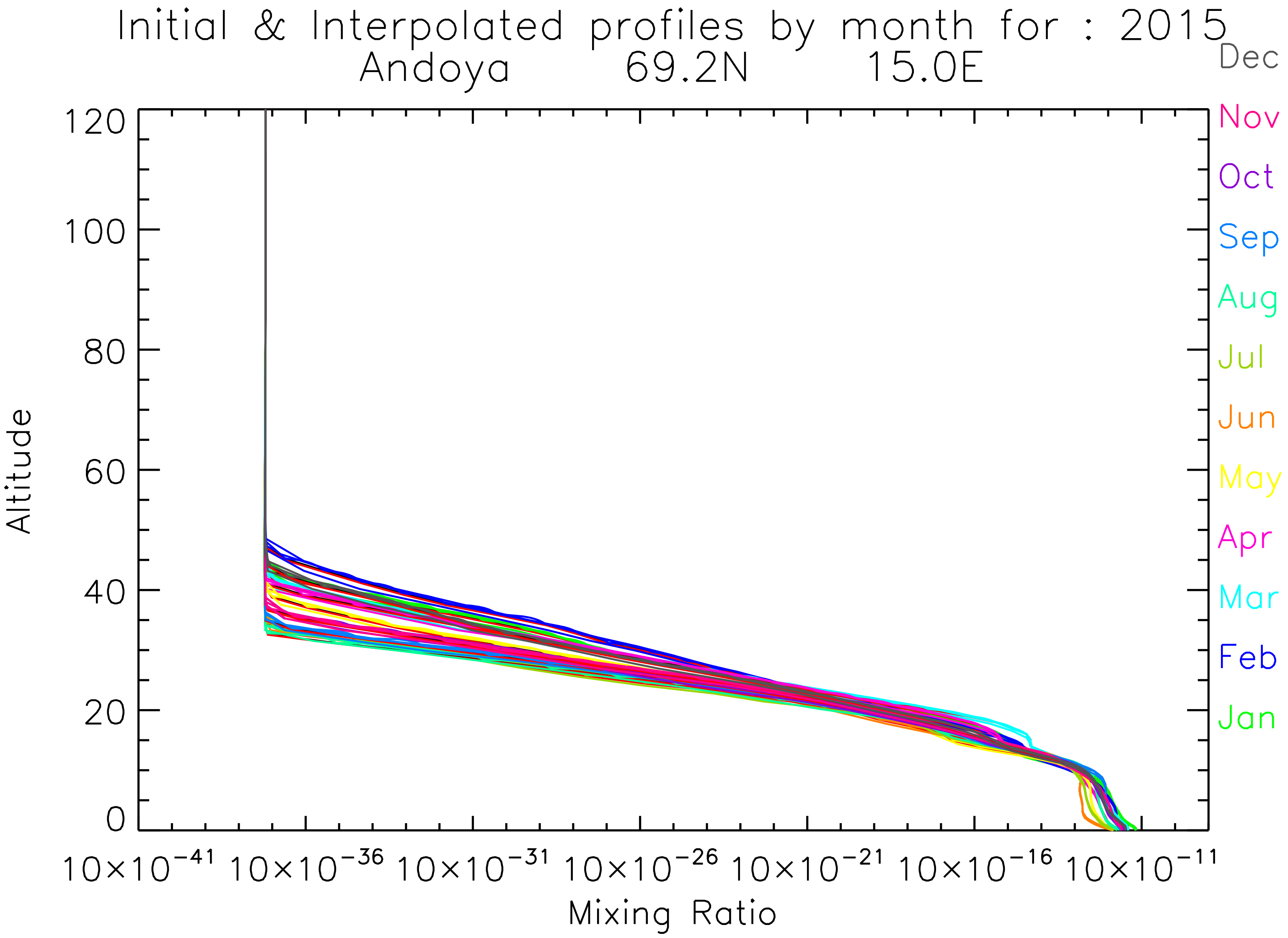


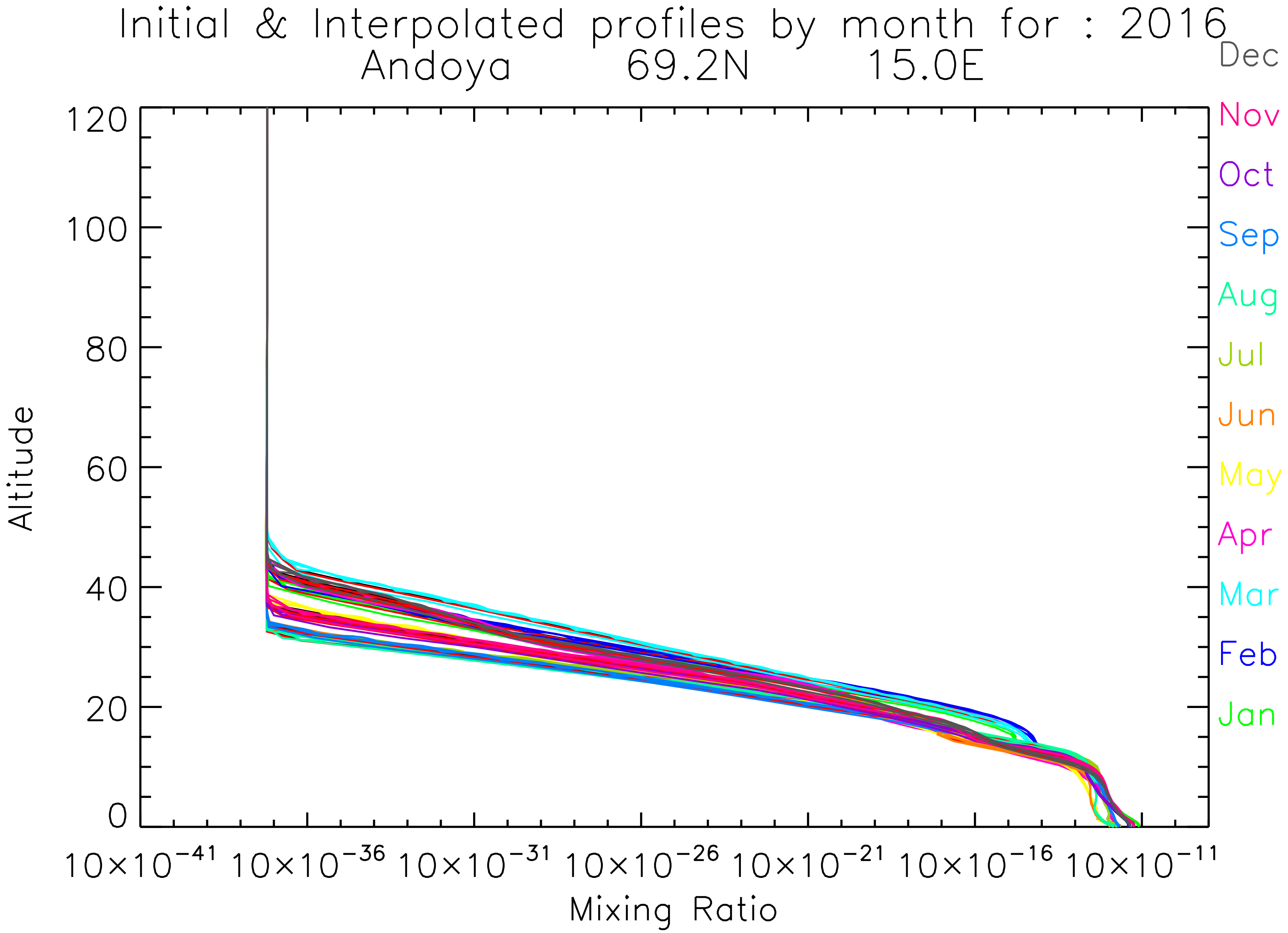
Initial & Interpolated profiles by month for : 2012
Andoya 69.2N 15.0E

Initial & Interpolated profiles by month for : 2013

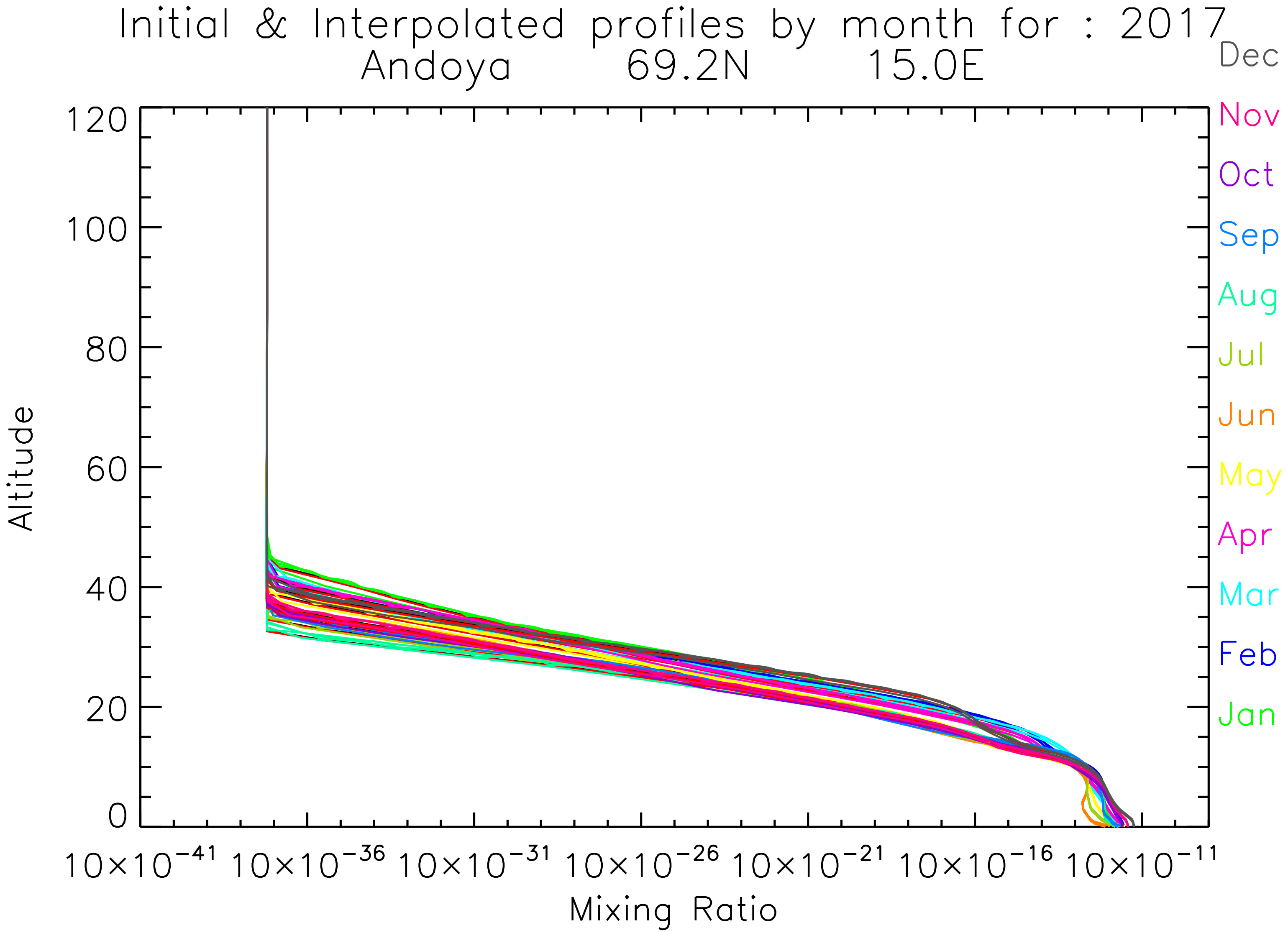


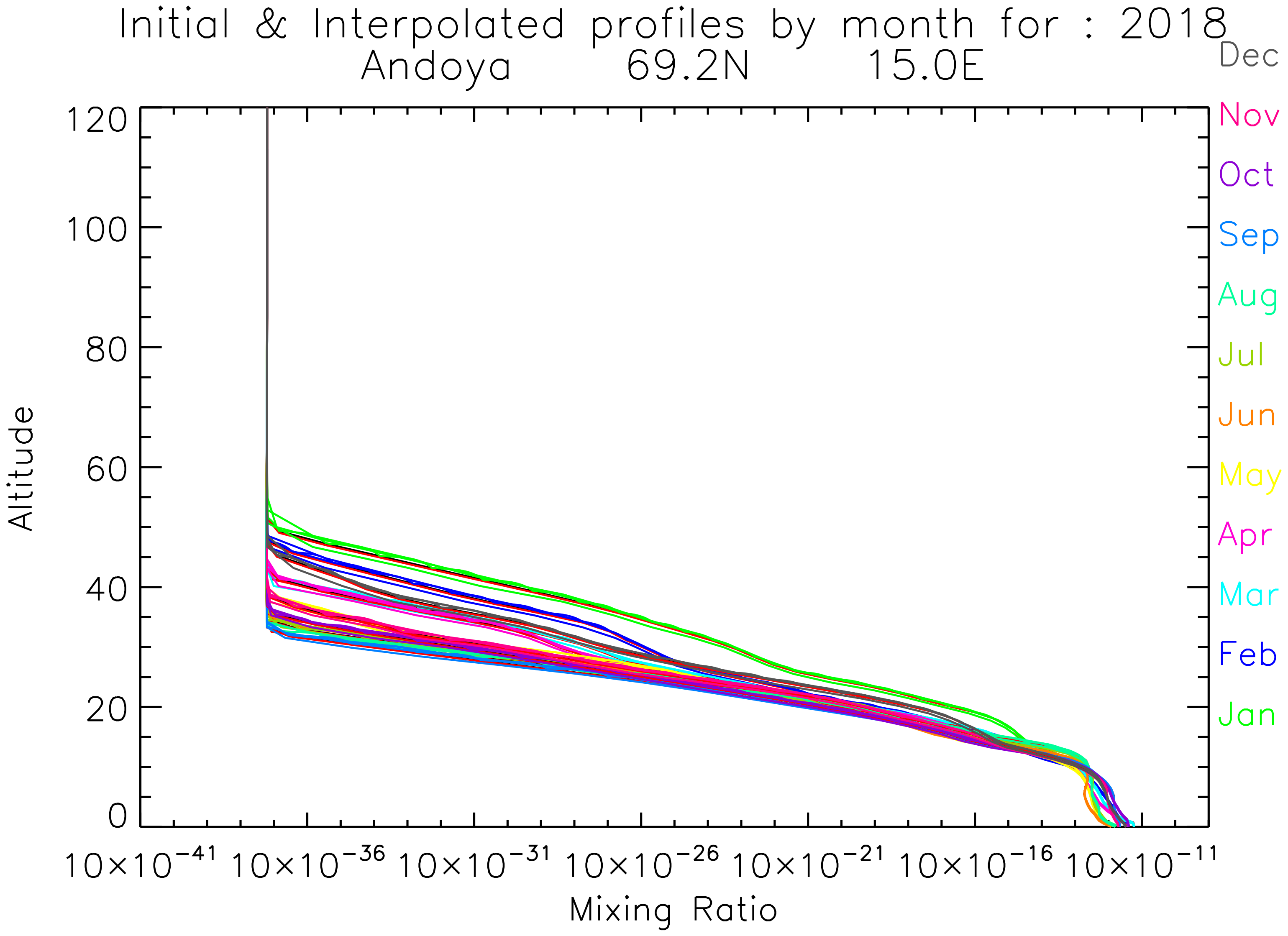

Initial & Interpolated profiles by month for : 2014
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

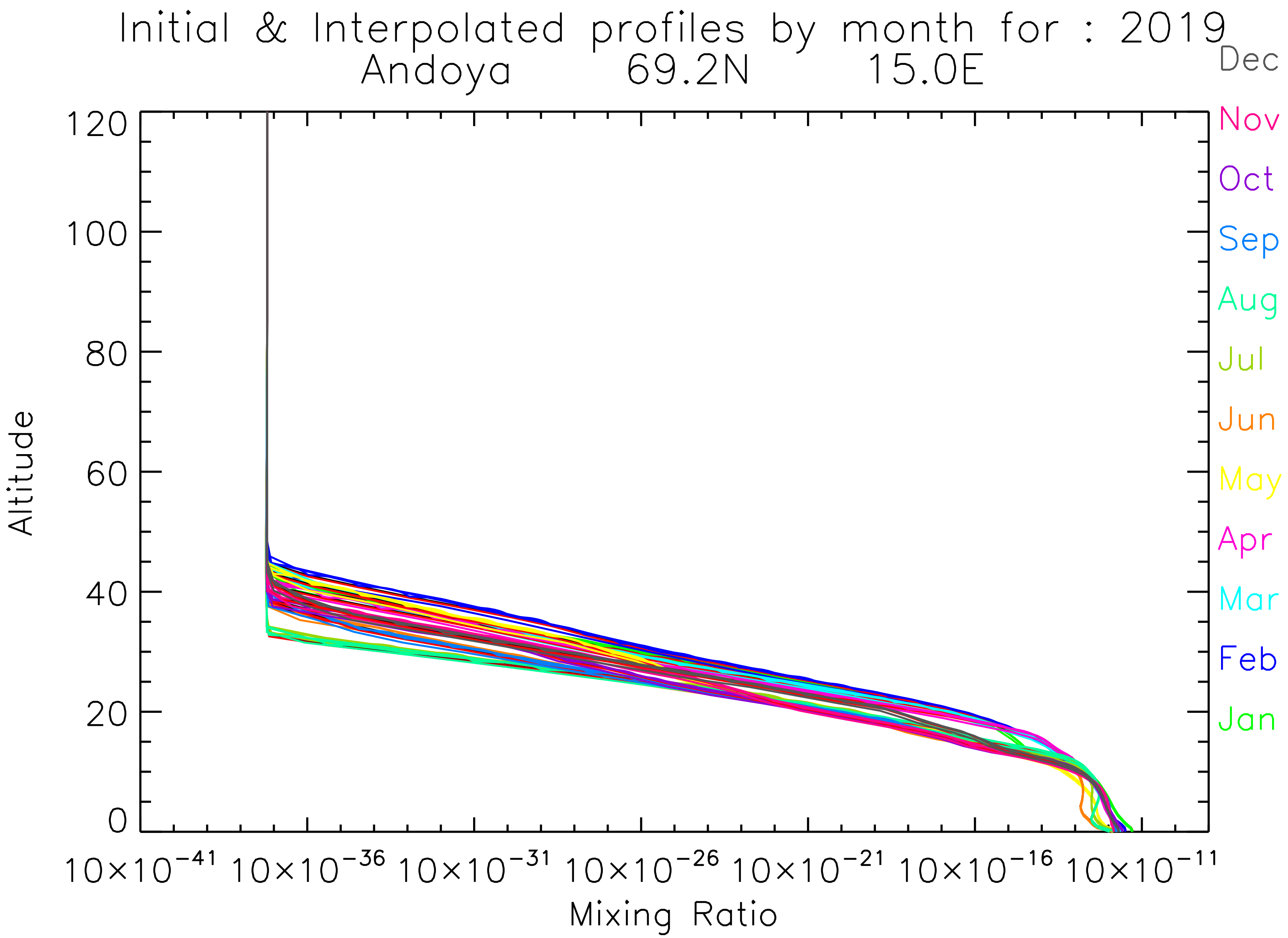

Initial & Interpolated profiles by month for : 2015
Andoya 69.2N 15.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
10×10^-11
Mixing Ratio



Initial & Interpolated profiles by month for : 2016
Andoya 69.2N 15.0E

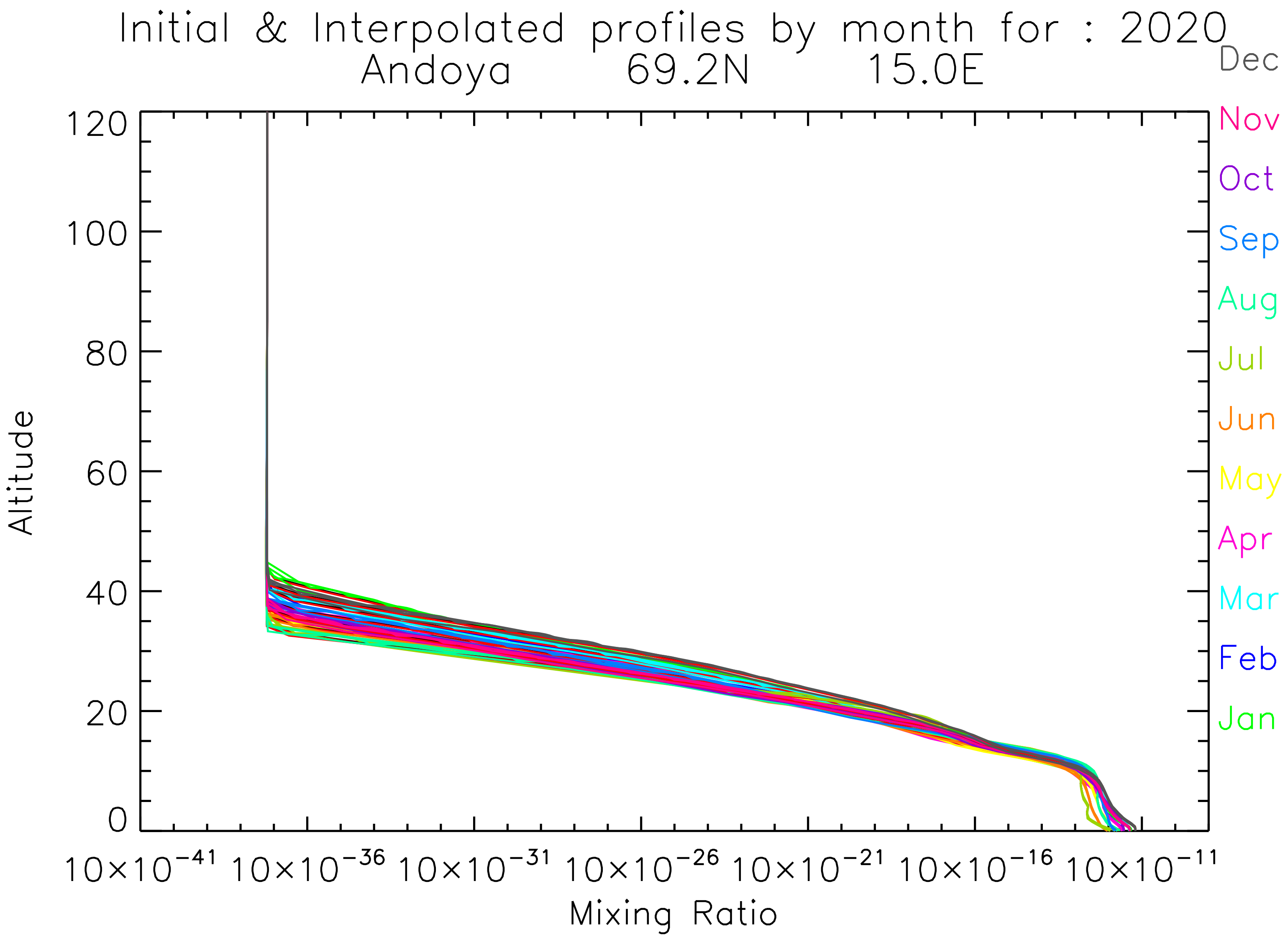

Initial & Interpolated profiles by month for : 2017
Andoya 69.2N 15.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2018
Andoya 69.2N 15.0E
Altitude
120
100
80
60
40
20
0
10×10⁻⁴¹
10×10⁻³⁶
10×10⁻³¹
10×10⁻²⁶
10×10⁻²¹
10×10⁻¹⁶
10×10⁻¹¹
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

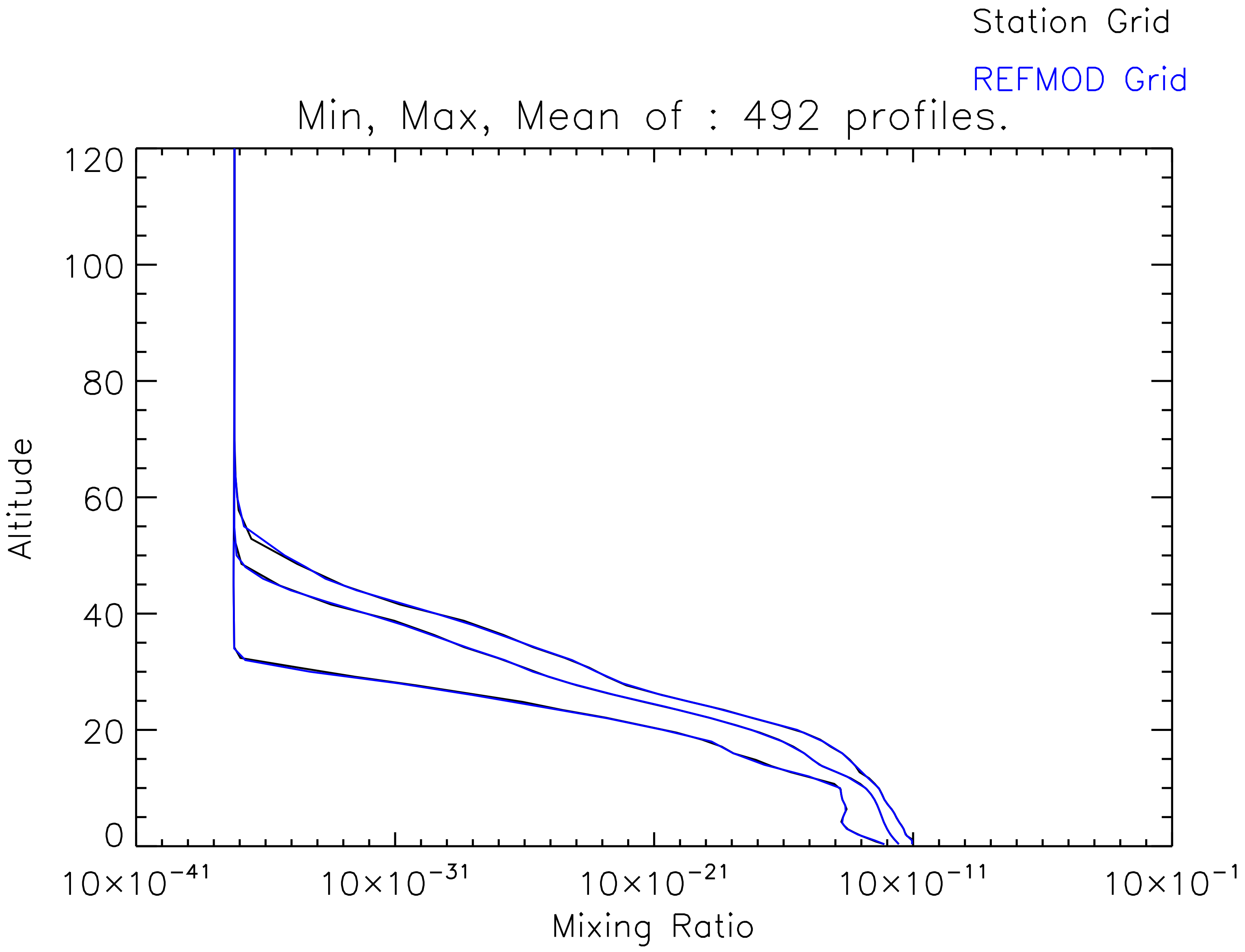


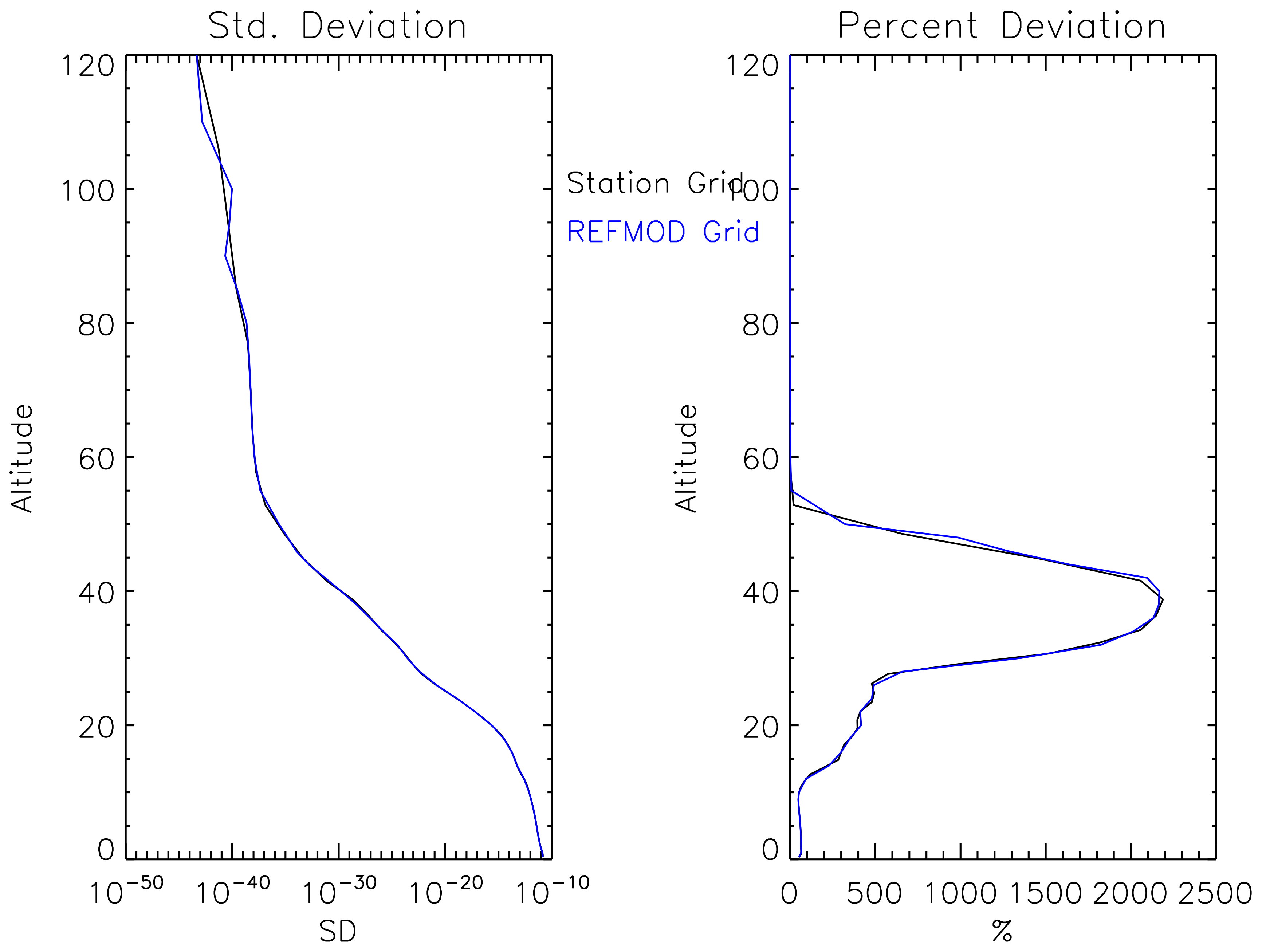
Initial & Interpolated profiles by month for : 2019

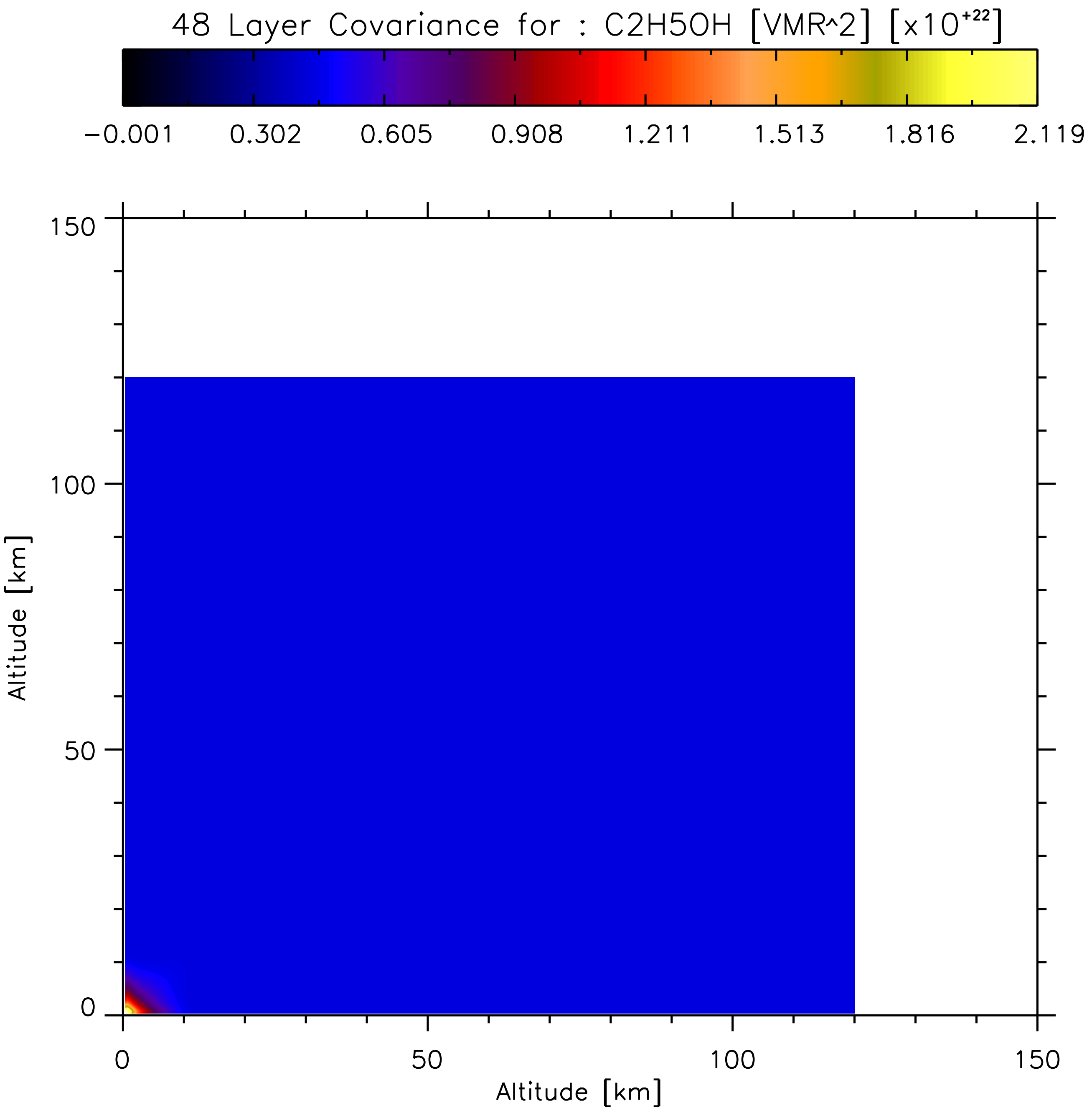
Andoya 69.2N 15.0E

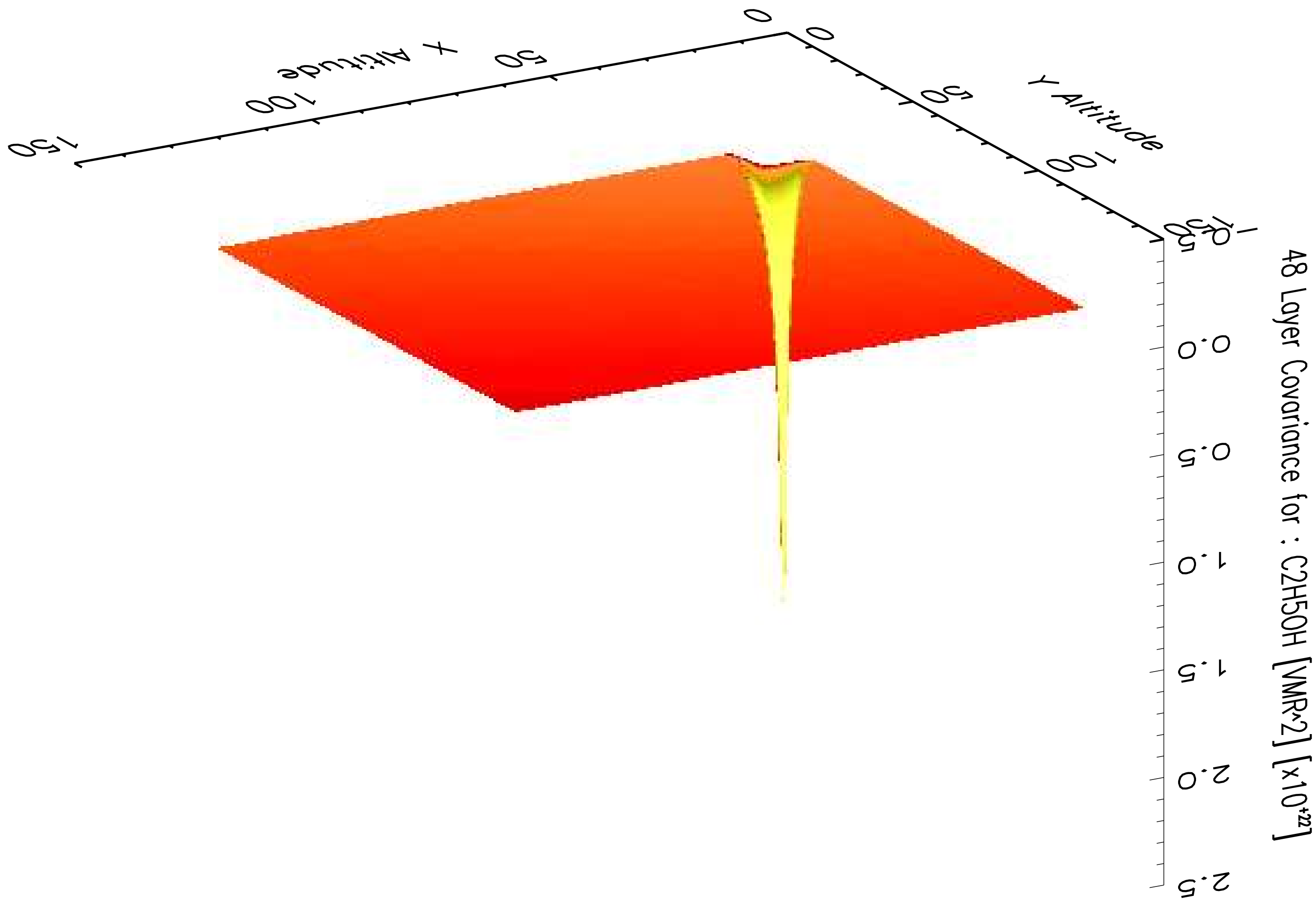


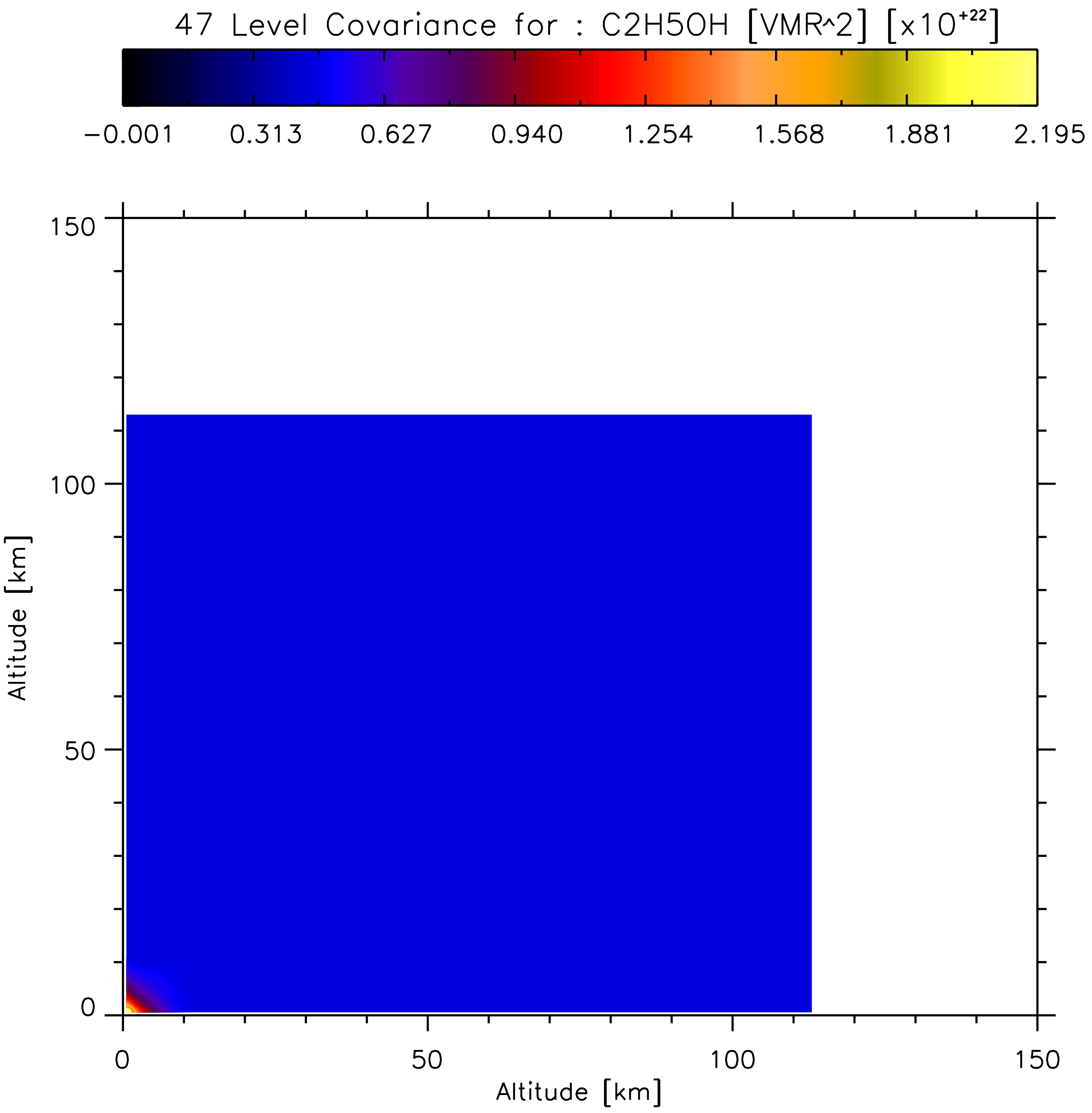
Initial & Interpolated profiles by month for : 2020
Andoya 69.2N 15.0E

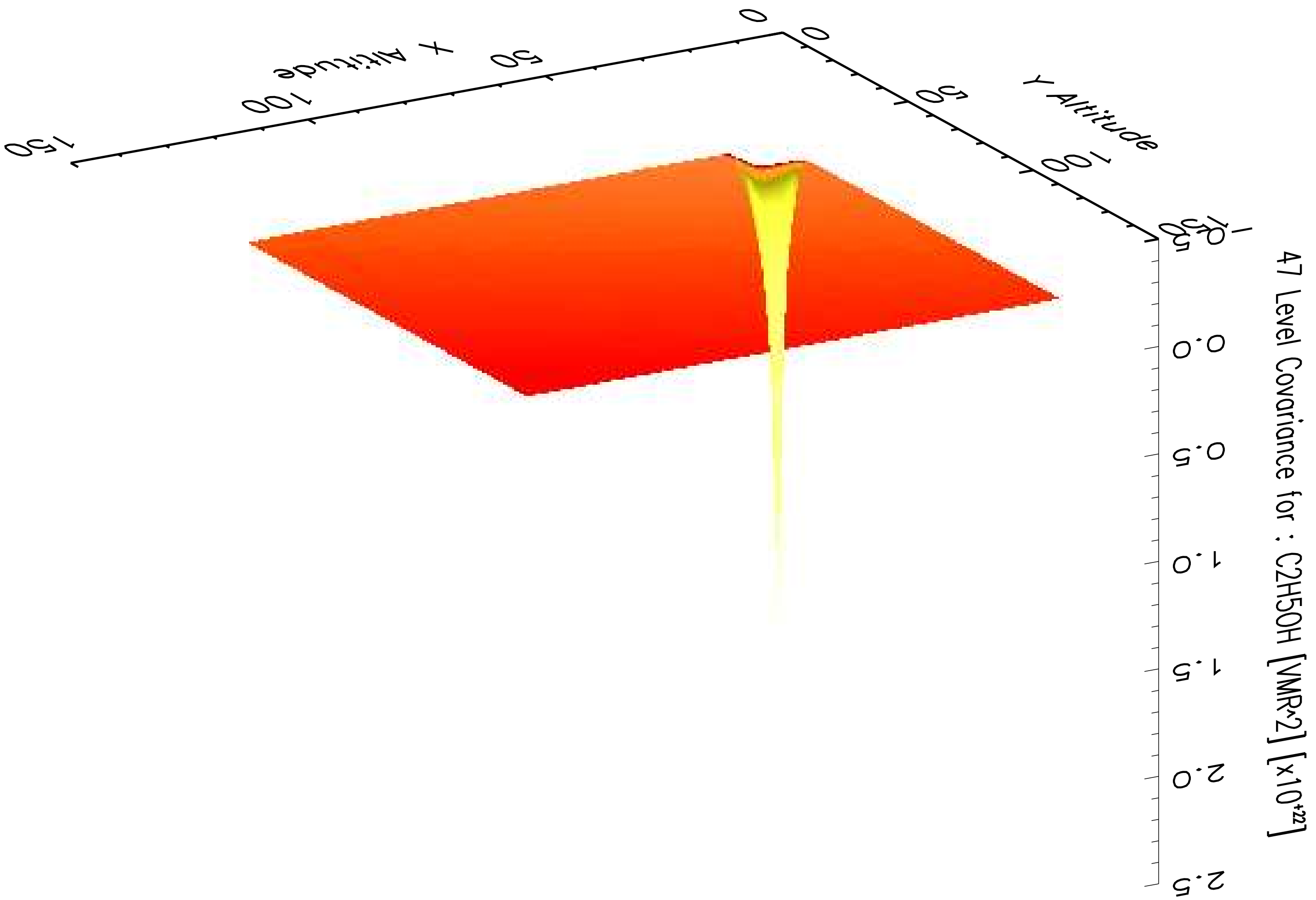

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10×10^{-41}
10×10^{-31}
10×10^{-21}
10×10^{-11}
10×10^{-1}
Mixing Ratio


Std. Deviation
Altitude
120
100
80
60
40
20
0
10^{-50}
10^{-40}
10^{-30}
10^{-20}
10^{-10}
SD
Station Grid
REFMOD Grid
Percent Deviation
Altitude
120
100
80
60
40
20
0
0
500
1000
1500
2000
2500
%

48 Layer Covariance for : C2H5OH [VMR^2] [x10^{+22}]
−0.001
0.302
0.605
0.908
1.211
1.513
1.816
2.119
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : C2H5OH [VMR^2] [x10^+22]
X Altitude
0
50
100
150
Y Altitude
0
50
100
150
-0.5
0.0
0.5
1.0
1.5
2.0
2.5


47 Level Covariance for : C2H5OH [VMR^2] [x10^{+22}]
−0.001
0.313
0.627
0.940
1.254
1.568
1.881
2.195
Altitude [km]
0
50
100
150
Altitude [km]
0
50
100
150


47 Level Covariance for : C2H5OH [VMR^2] [x10^+22]
X Altitude
Y Altitude
0
50
100
150
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5