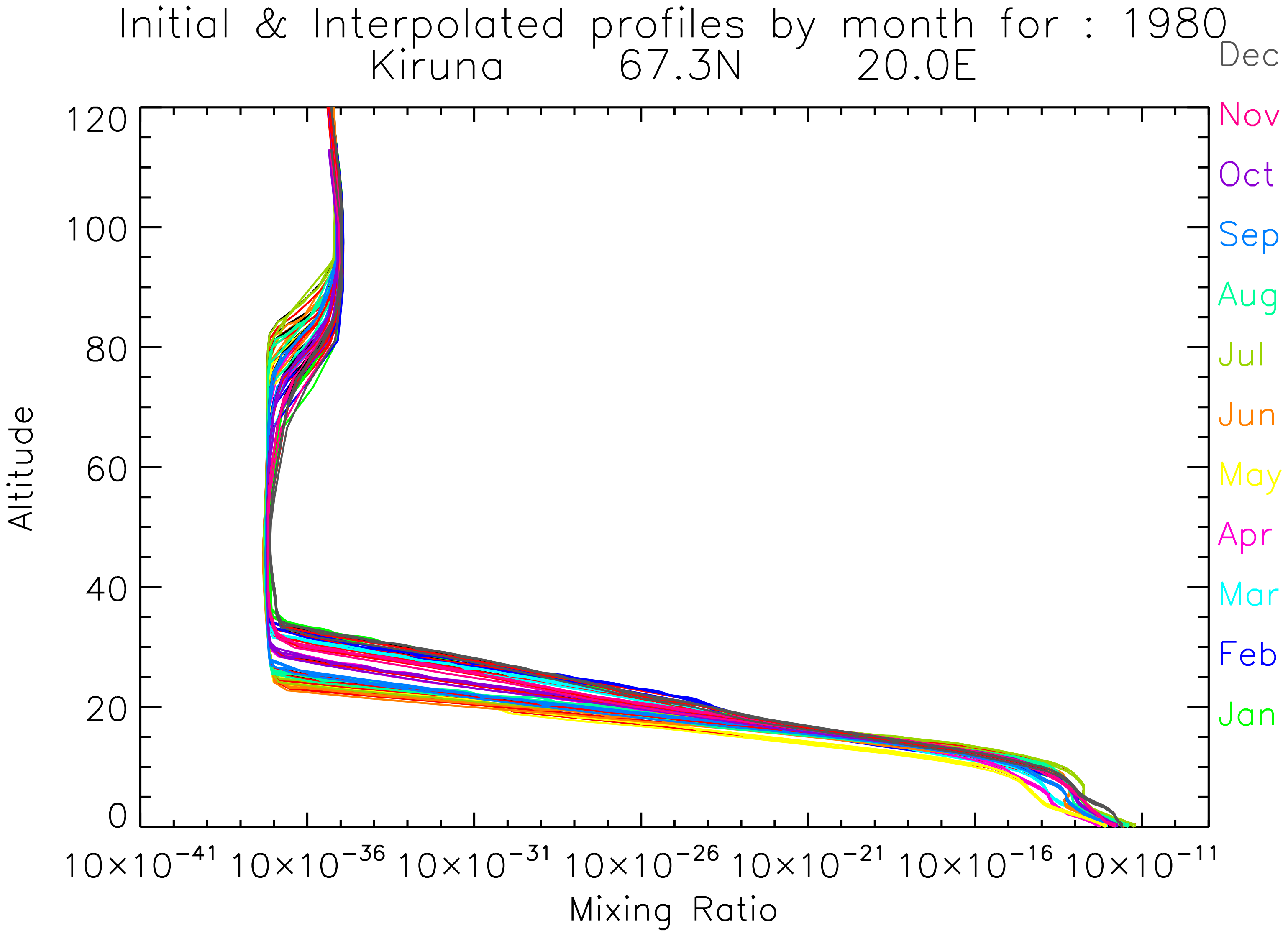
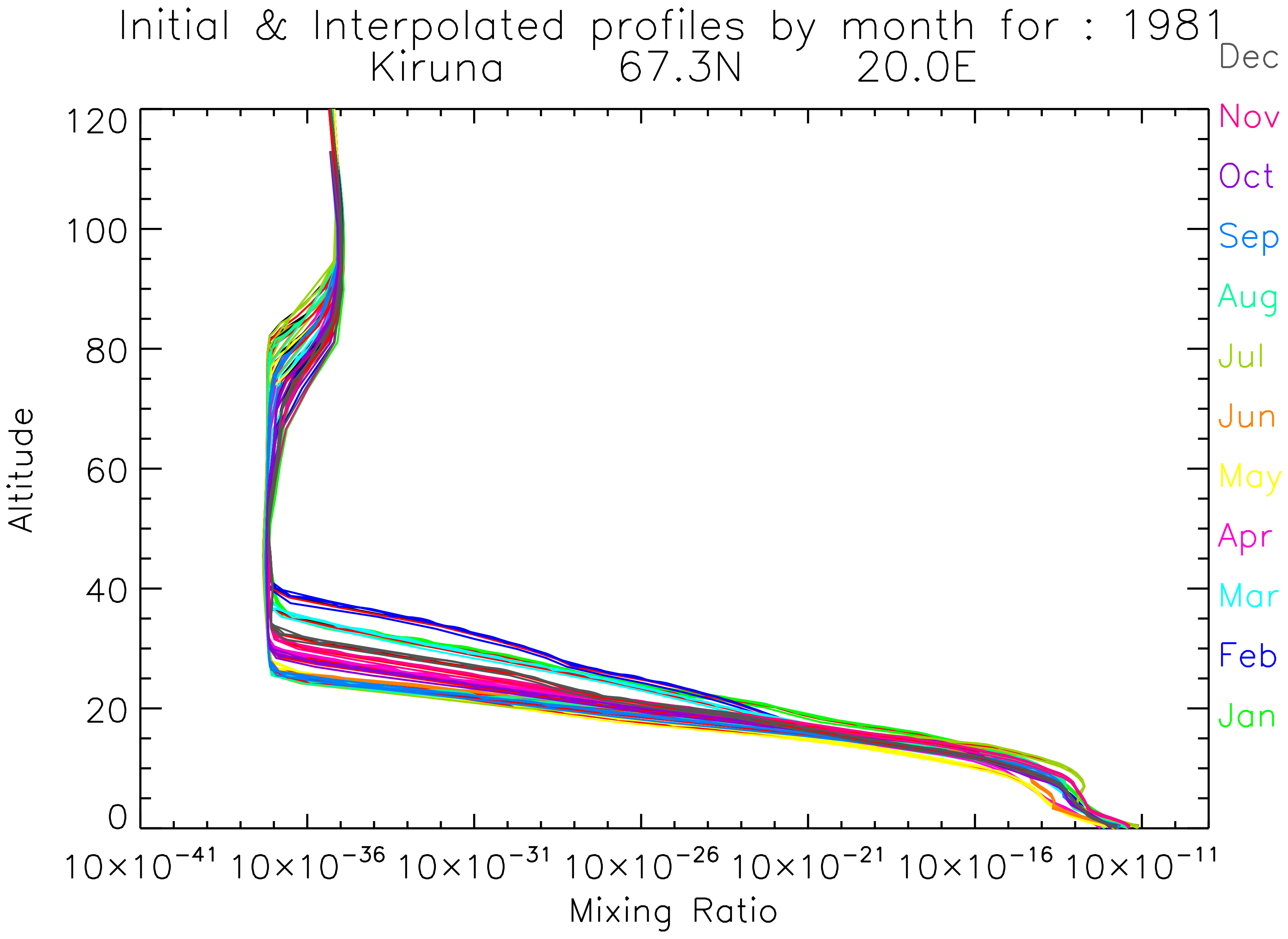
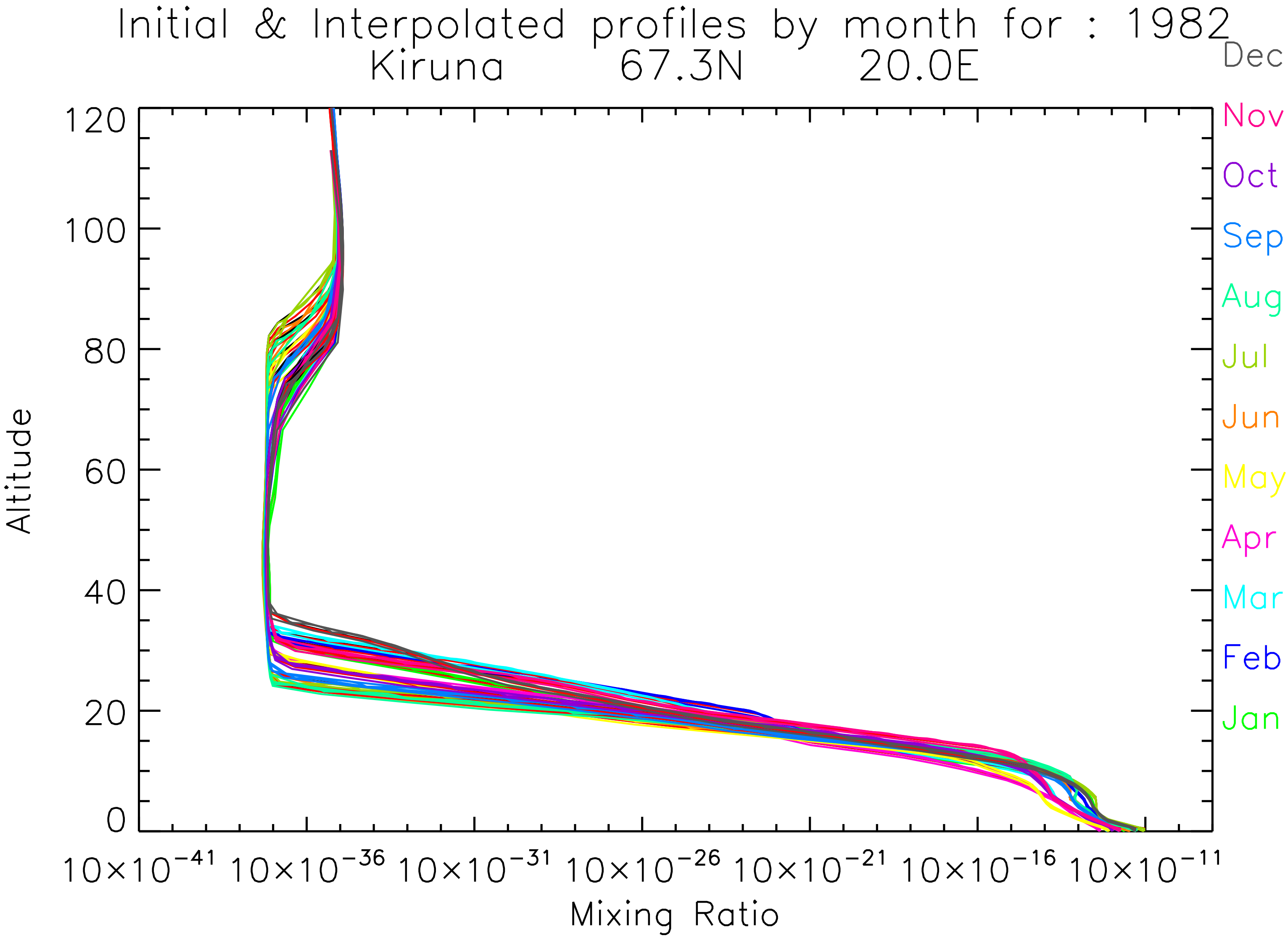
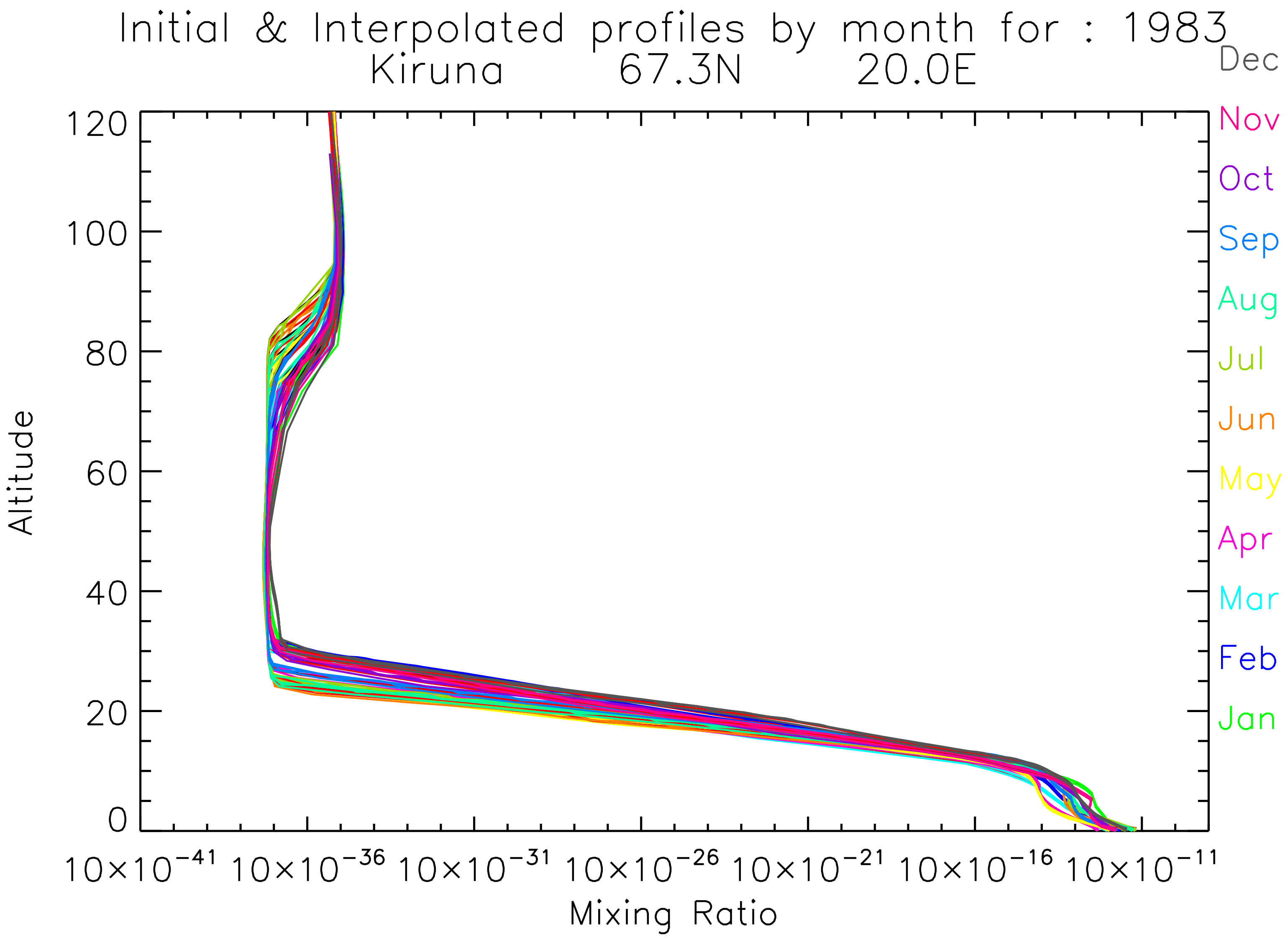


Initial & Interpolated profiles by month for : 1980
Kiruna 67.3N 20.0E

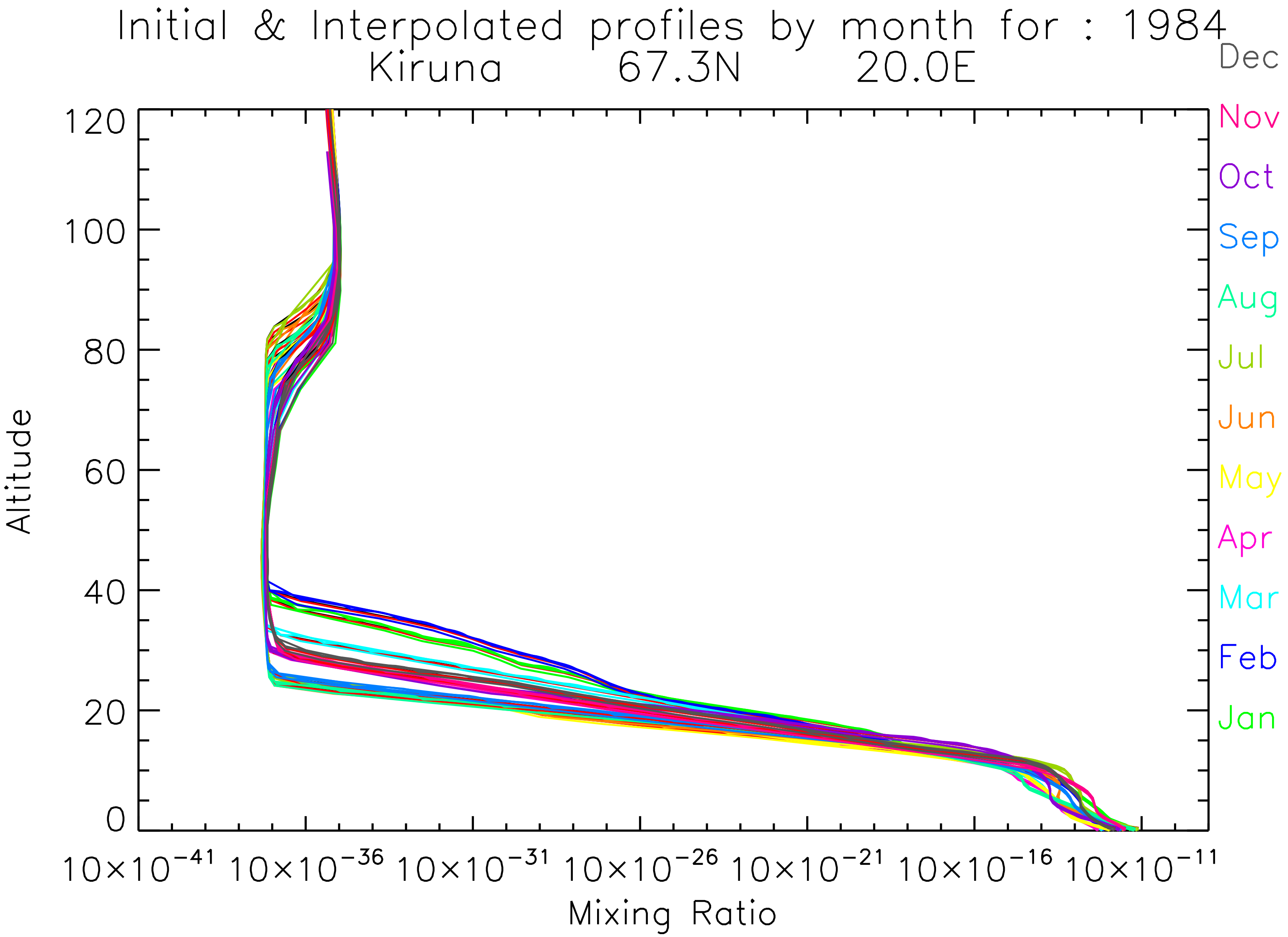

Initial & Interpolated profiles by month for : 1981
Kiruna 67.3N 20.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10⁻⁴¹
10×10⁻³⁶
10×10⁻³¹
10×10⁻²⁶
10×10⁻²¹
10×10⁻¹⁶
10×10⁻¹¹
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

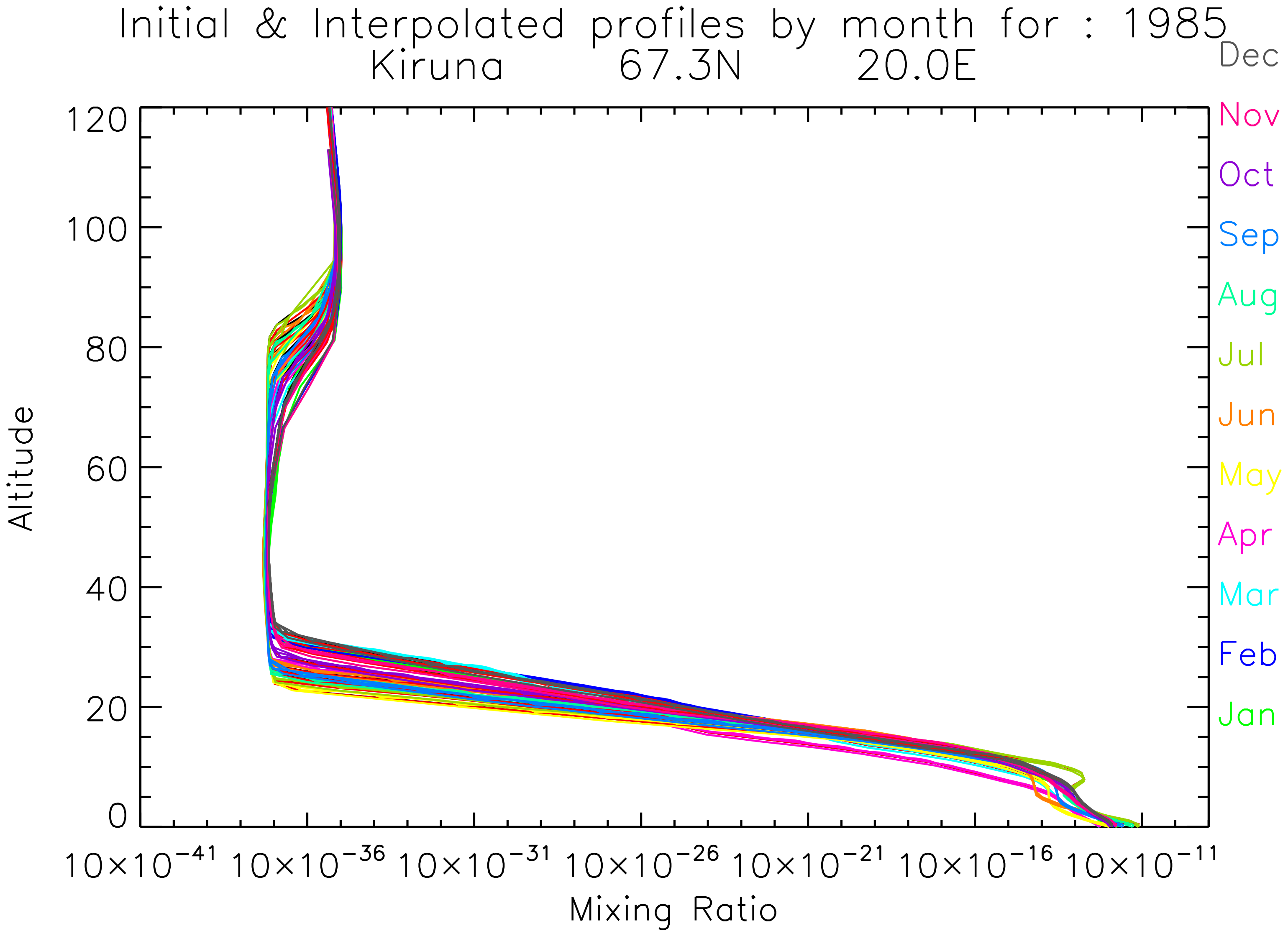


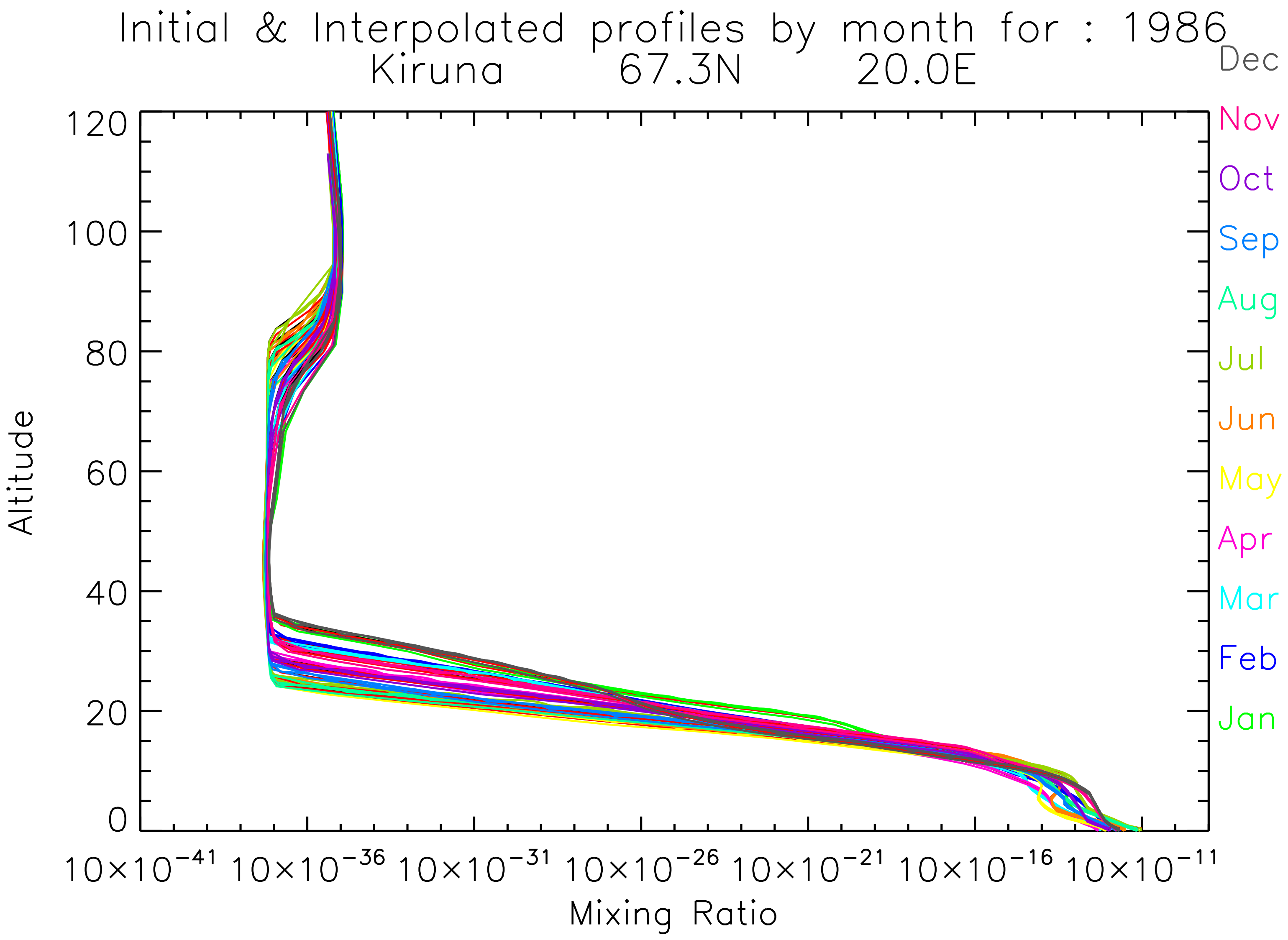
Initial & Interpolated profiles by month for : 1982
Kiruna 67.3N 20.0E



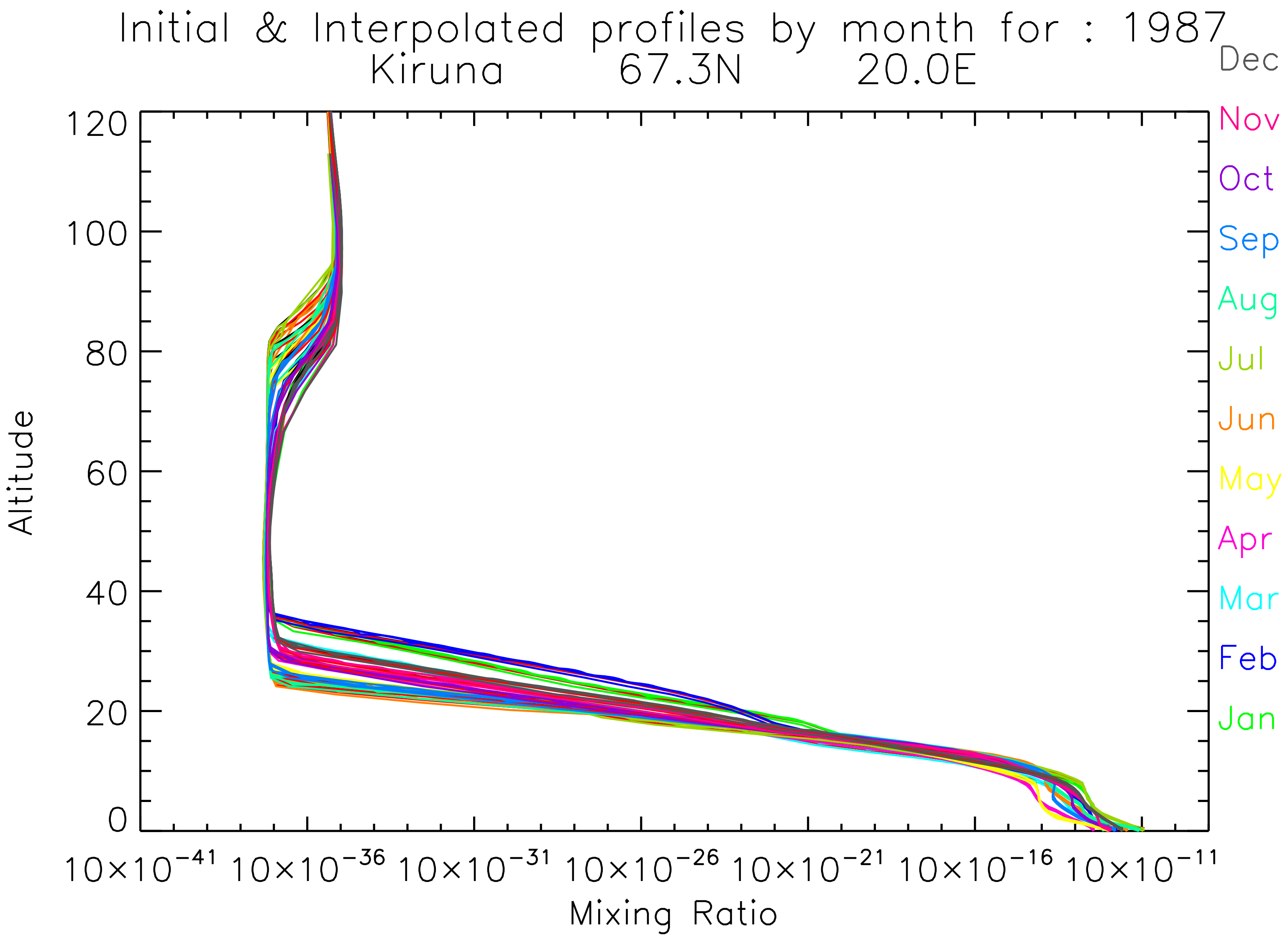
Initial & Interpolated profiles by month for : 1983
Kiruna 67.3N 20.0E


Initial & Interpolated profiles by month for : 1984
Kiruna 67.3N 20.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10×10⁻⁴¹
10×10⁻³⁶
10×10⁻³¹
10×10⁻²⁶
10×10⁻²¹
10×10⁻¹⁶
10×10⁻¹¹
Mixing Ratio

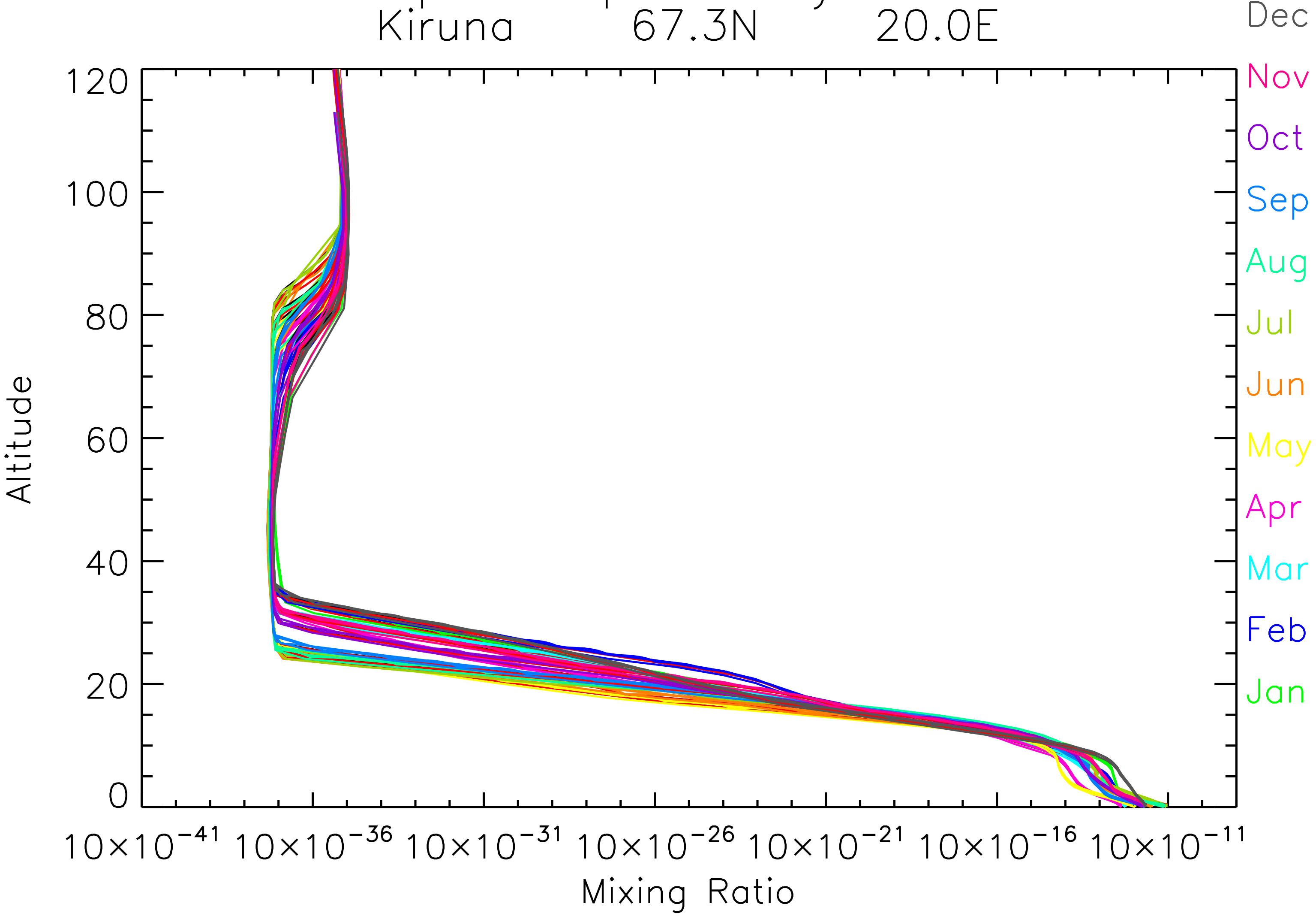

Initial & Interpolated profiles by month for : 1985
Kiruna 67.3N 20.0E

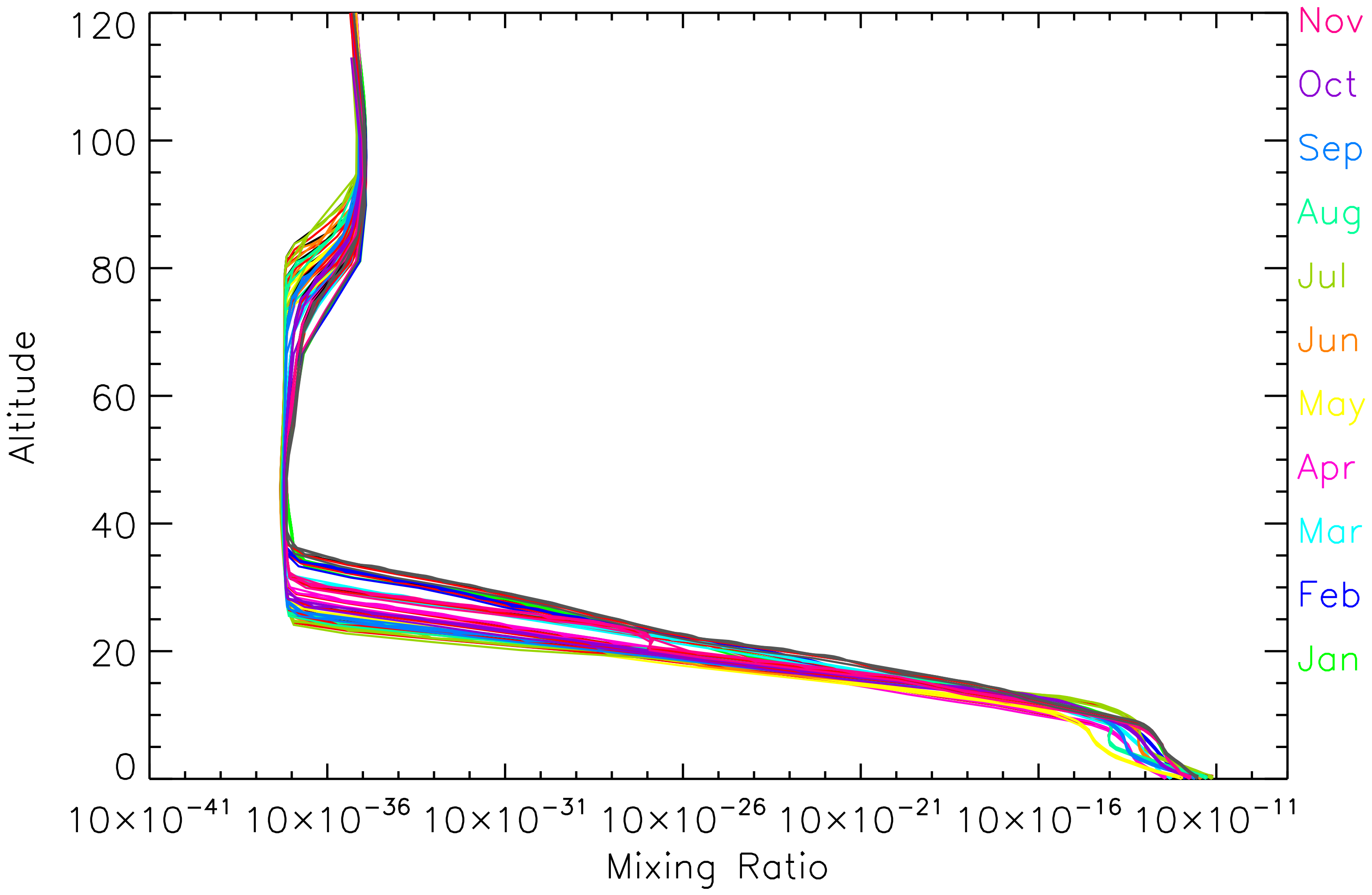


Initial & Interpolated profiles by month for : 1986
Kiruna 67.3N 20.0E

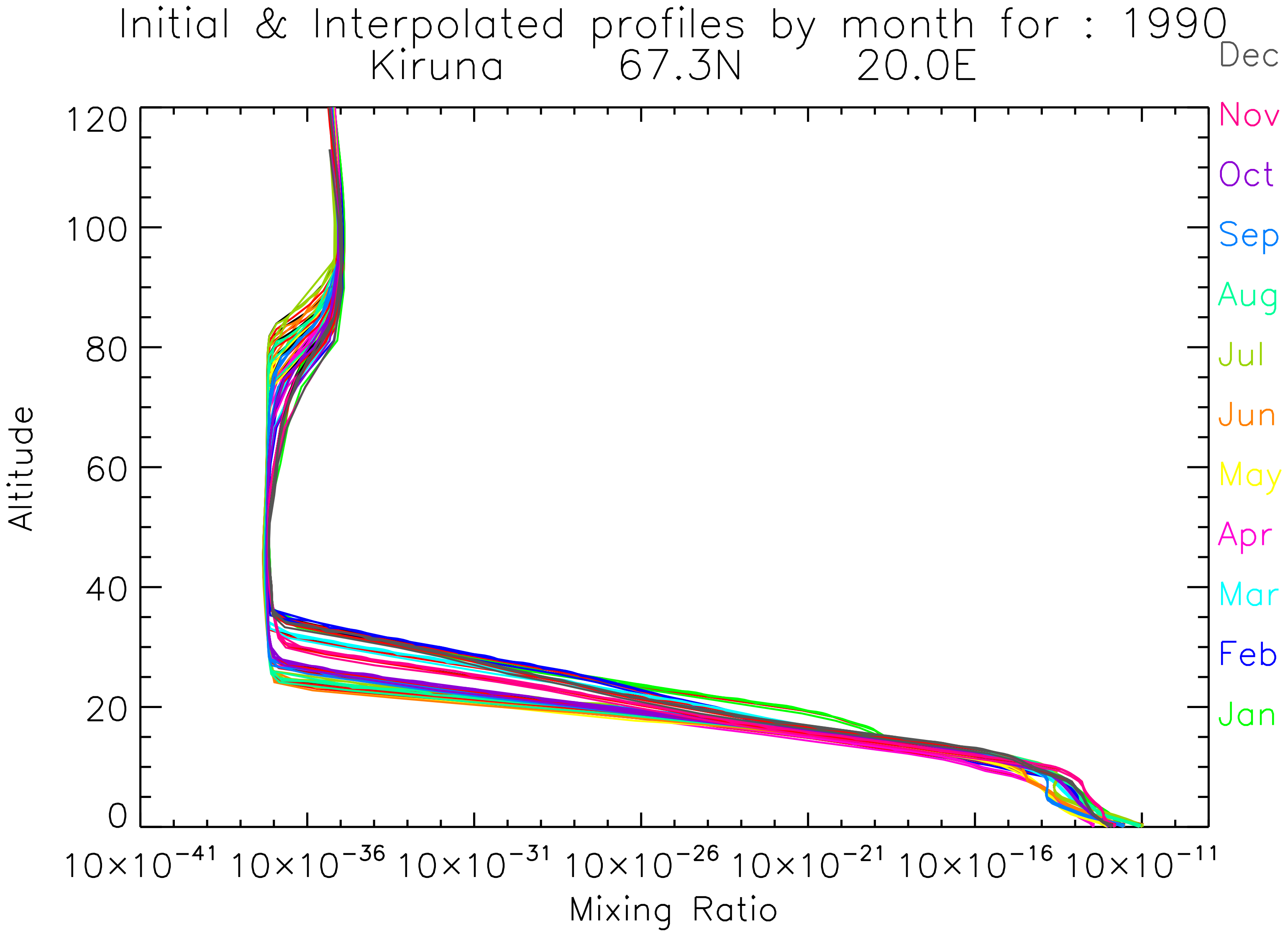

Initial & Interpolated profiles by month for : 1987
Kiruna 67.3N 20.0E
Altitude
0
20
40
60
80
100
120
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

Initial & Interpolated profiles by month for : 1988
Kiruna 67.3N 20.0E

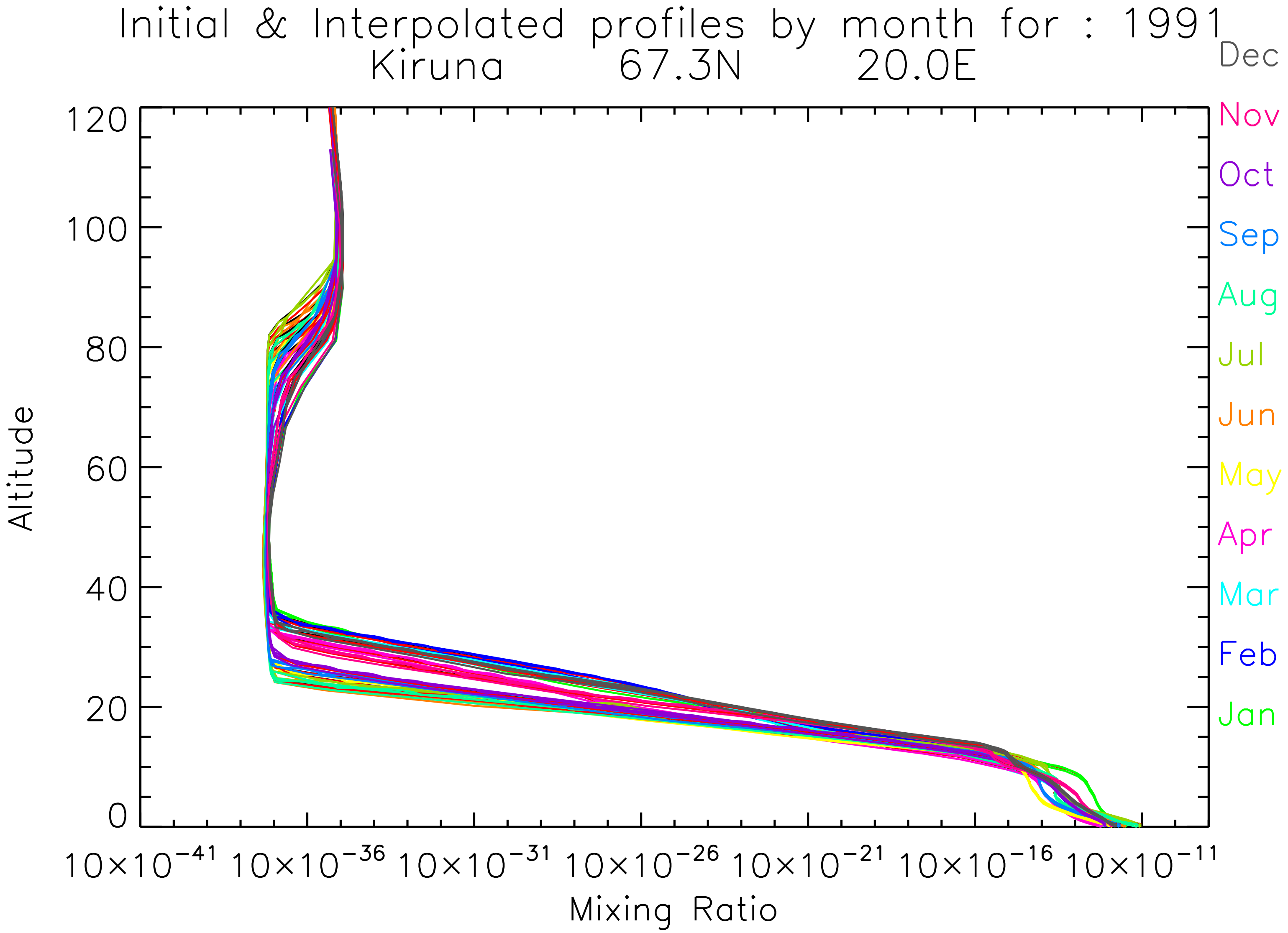


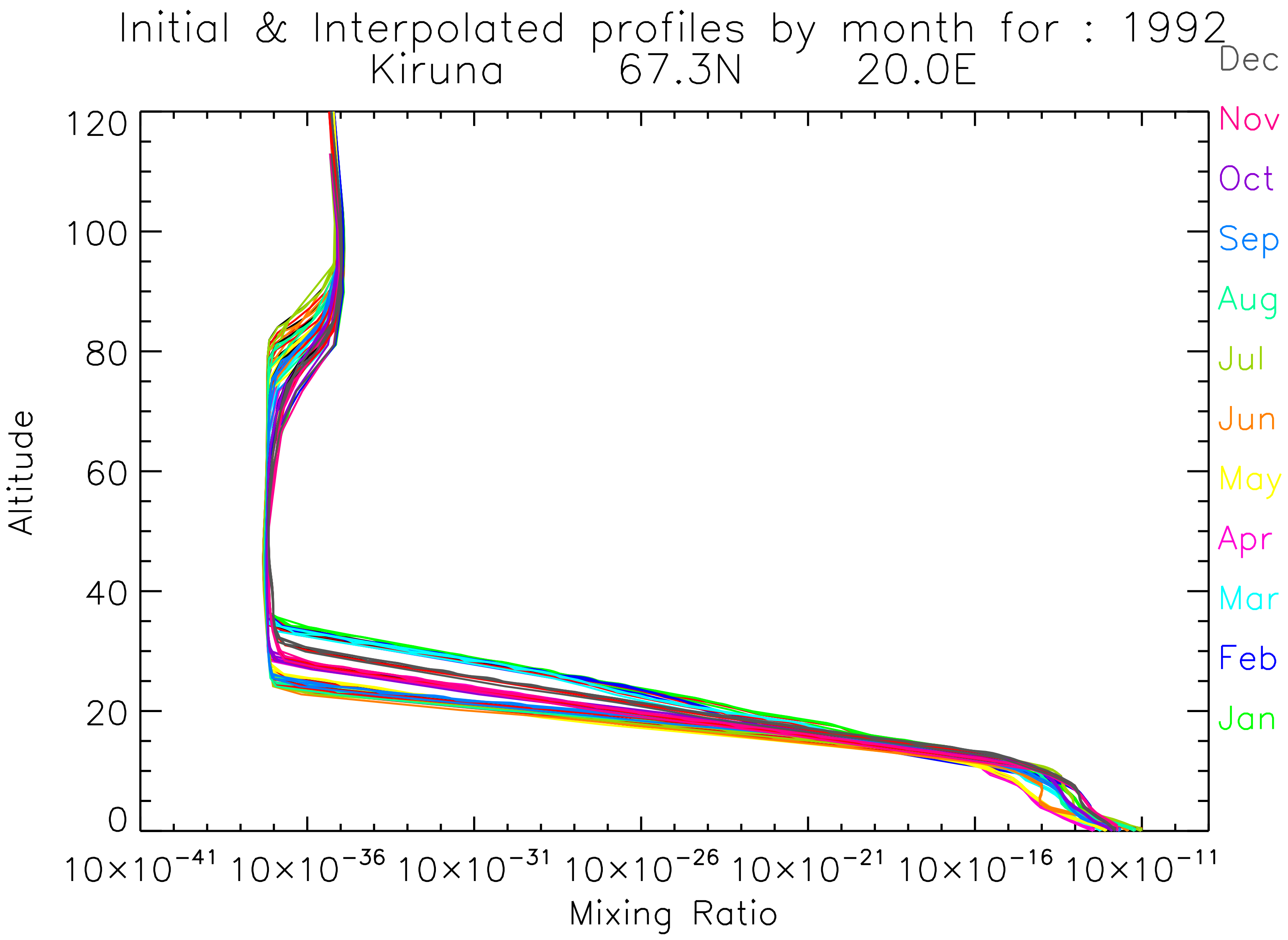


Initial & Interpolated profiles by month for : 1989
Kiruna 67.3N 20.0E

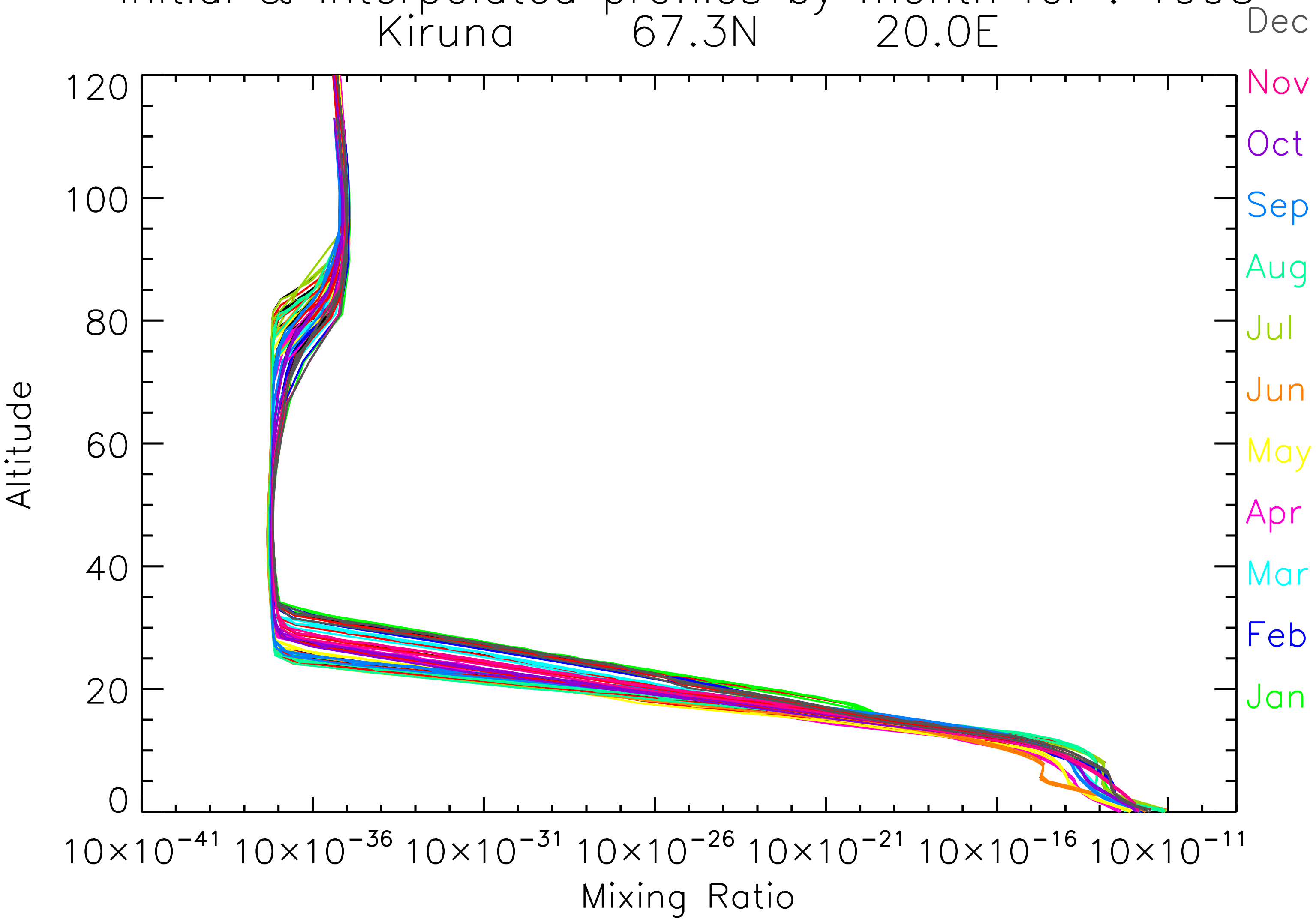


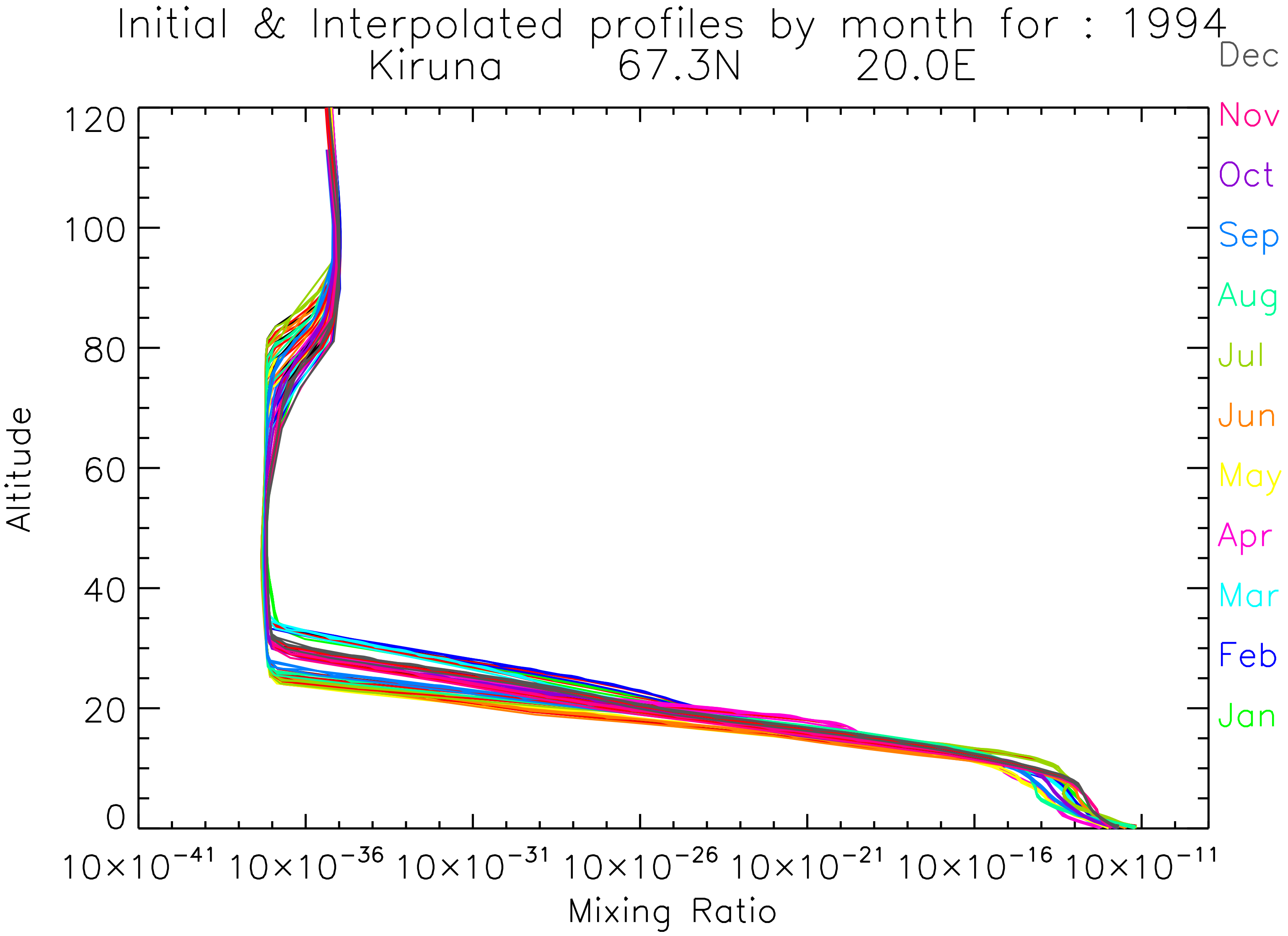
Initial & Interpolated profiles by month for : 1990
Kiruna 67.3N 20.0E


Initial & Interpolated profiles by month for : 1991
Kiruna 67.3N 20.0E
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

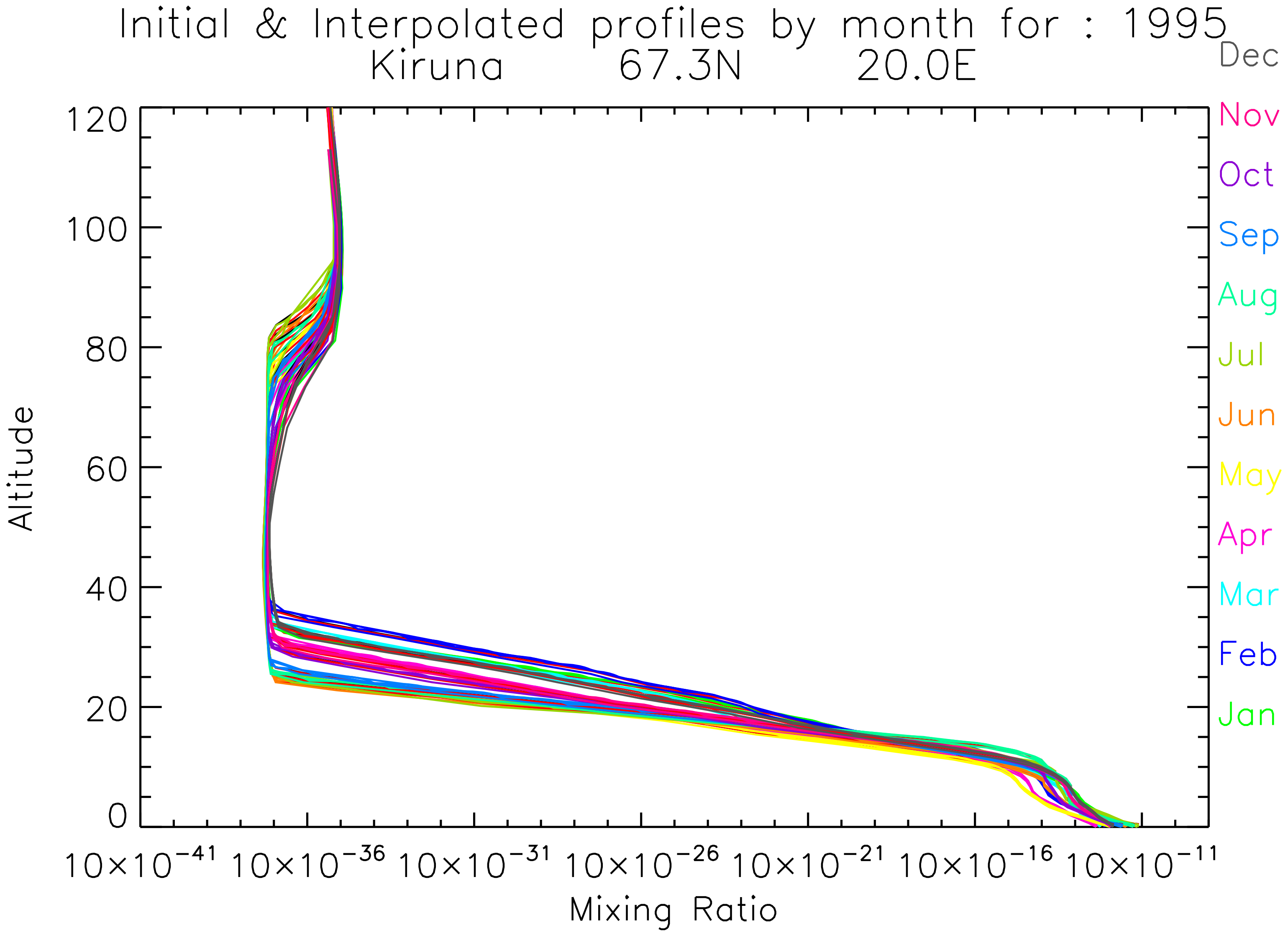

Initial & Interpolated profiles by month for : 1992
Kiruna 67.3N 20.0E

Initial & Interpolated profiles by month for : 1993
Kiruna 67.3N 20.0E

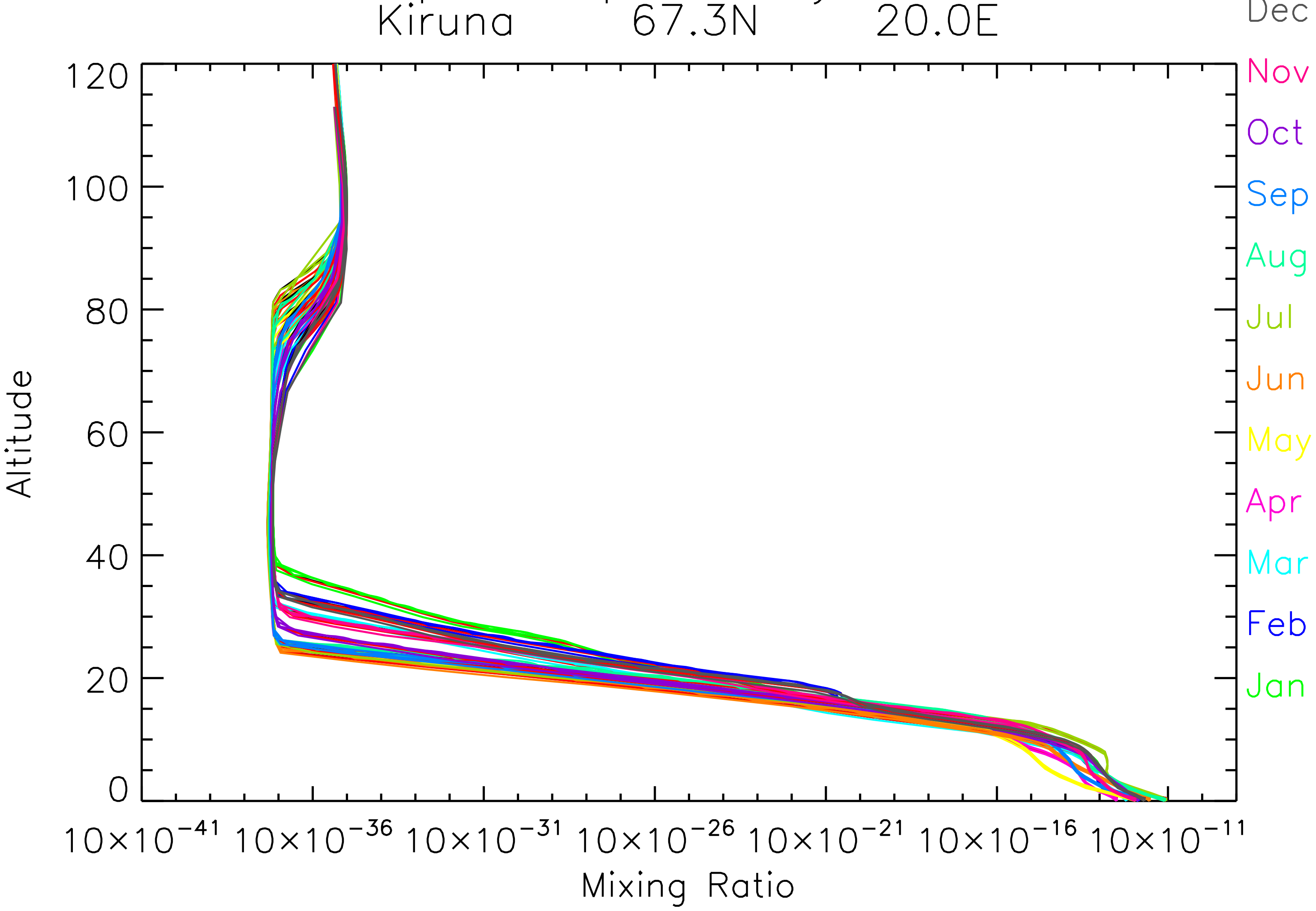


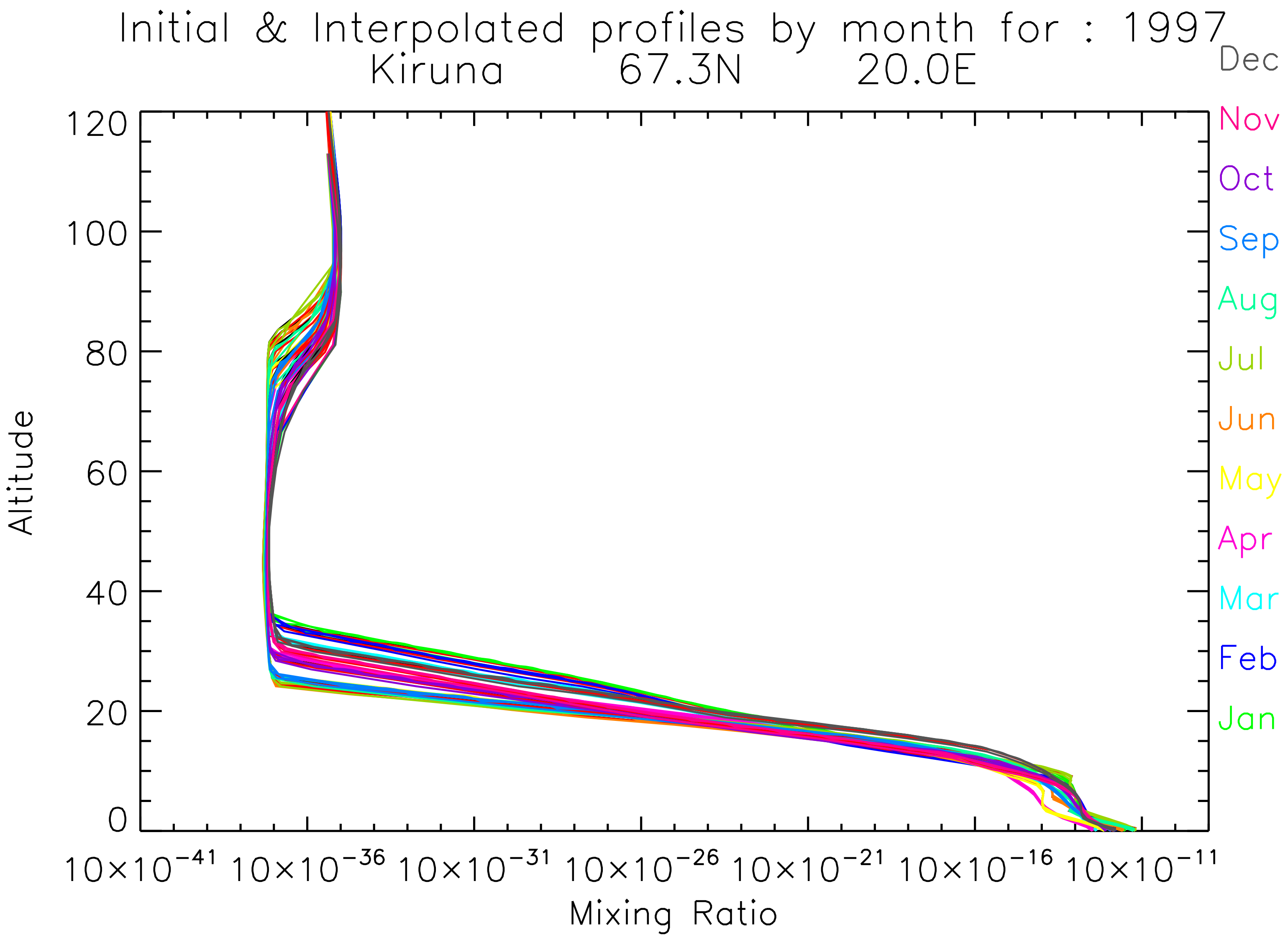


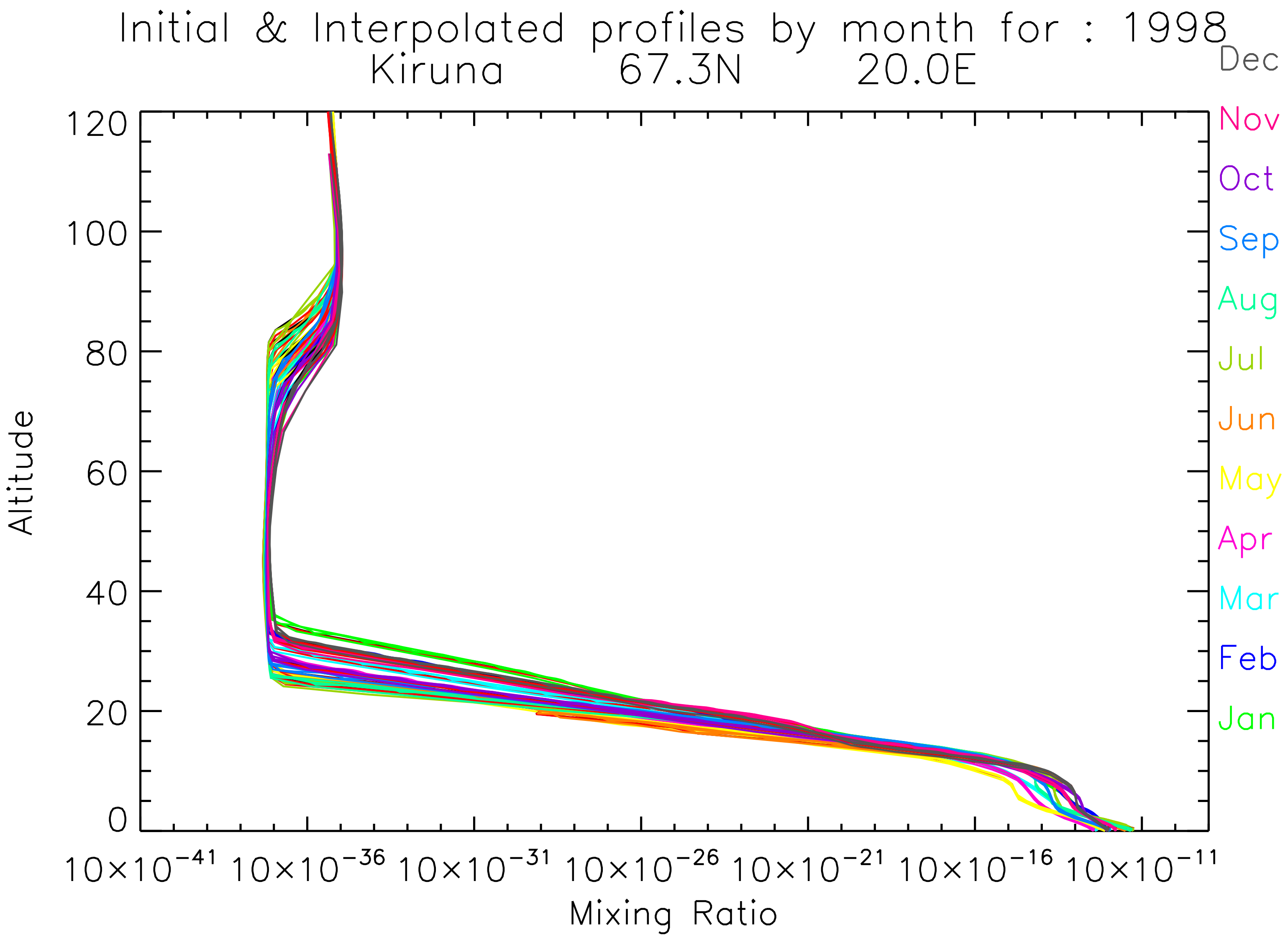
Initial & Interpolated profiles by month for : 1994
Kiruna 67.3N 20.0E

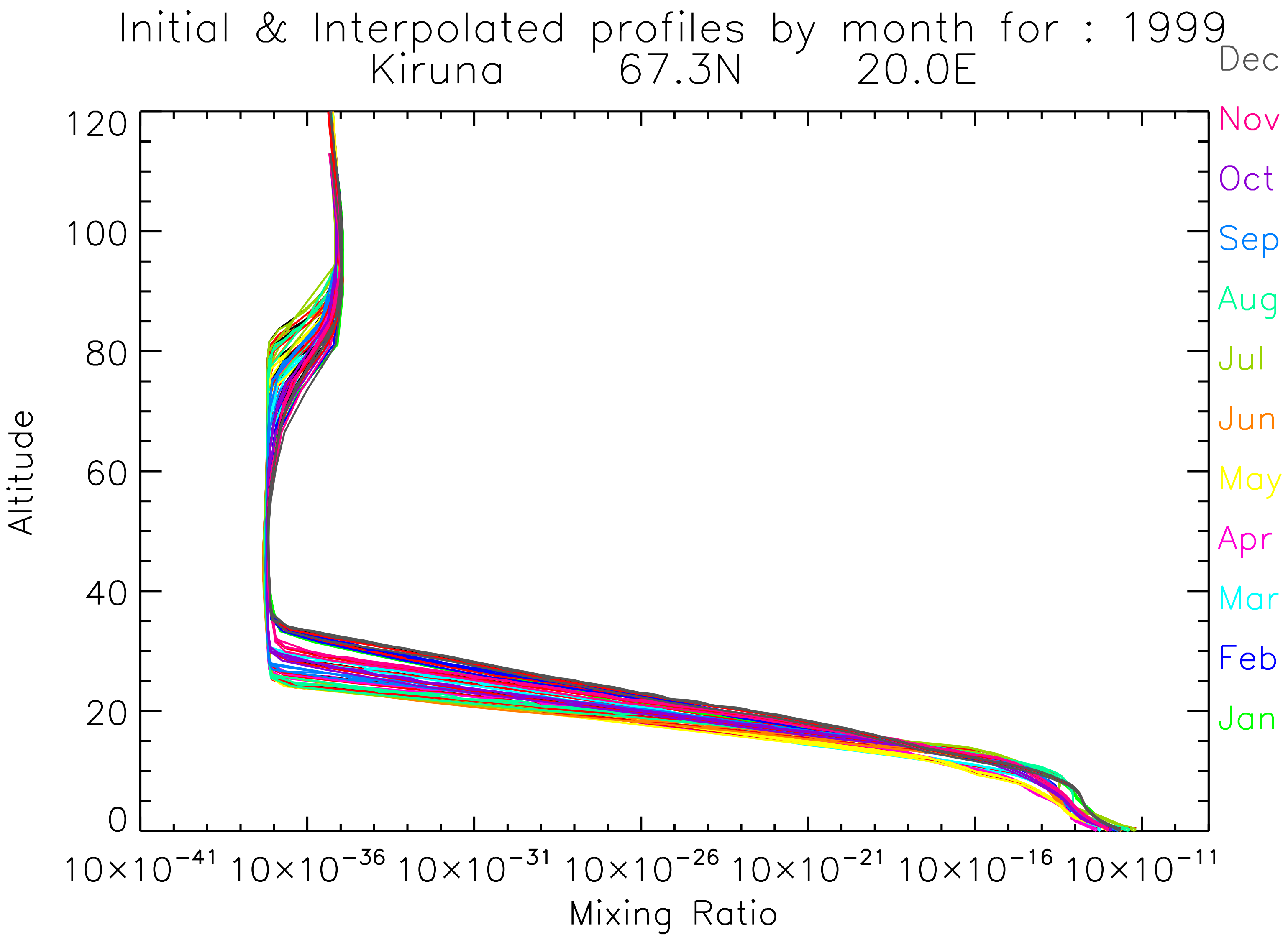

Initial & Interpolated profiles by month for : 1995
Kiruna 67.3N 20.0E

Initial & Interpolated profiles by month for : 1996
Kiruna 67.3N 20.0E

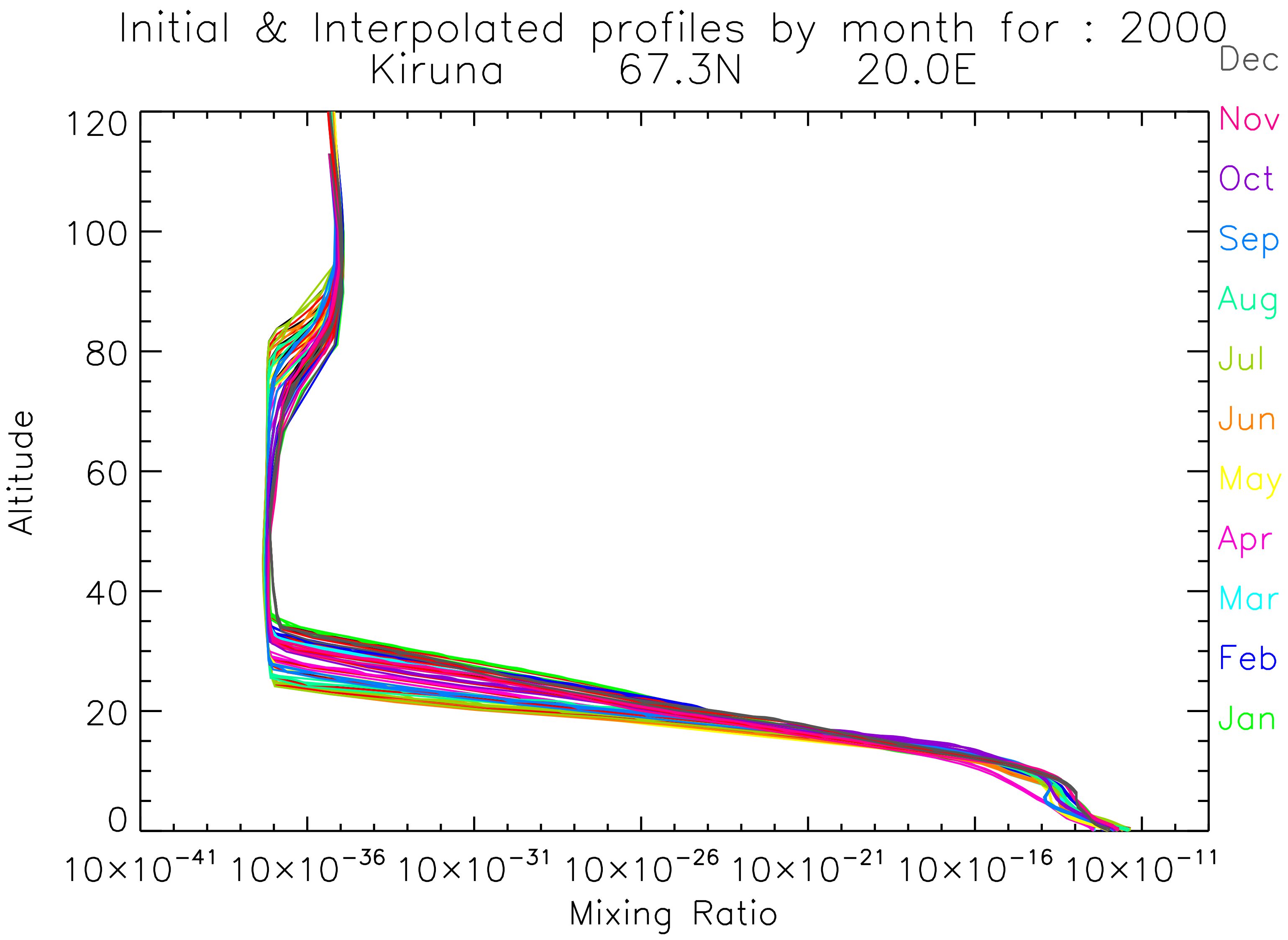



Initial & Interpolated profiles by month for : 1997
Kiruna 67.3N 20.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
0
20
40
60
80
100
120
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio

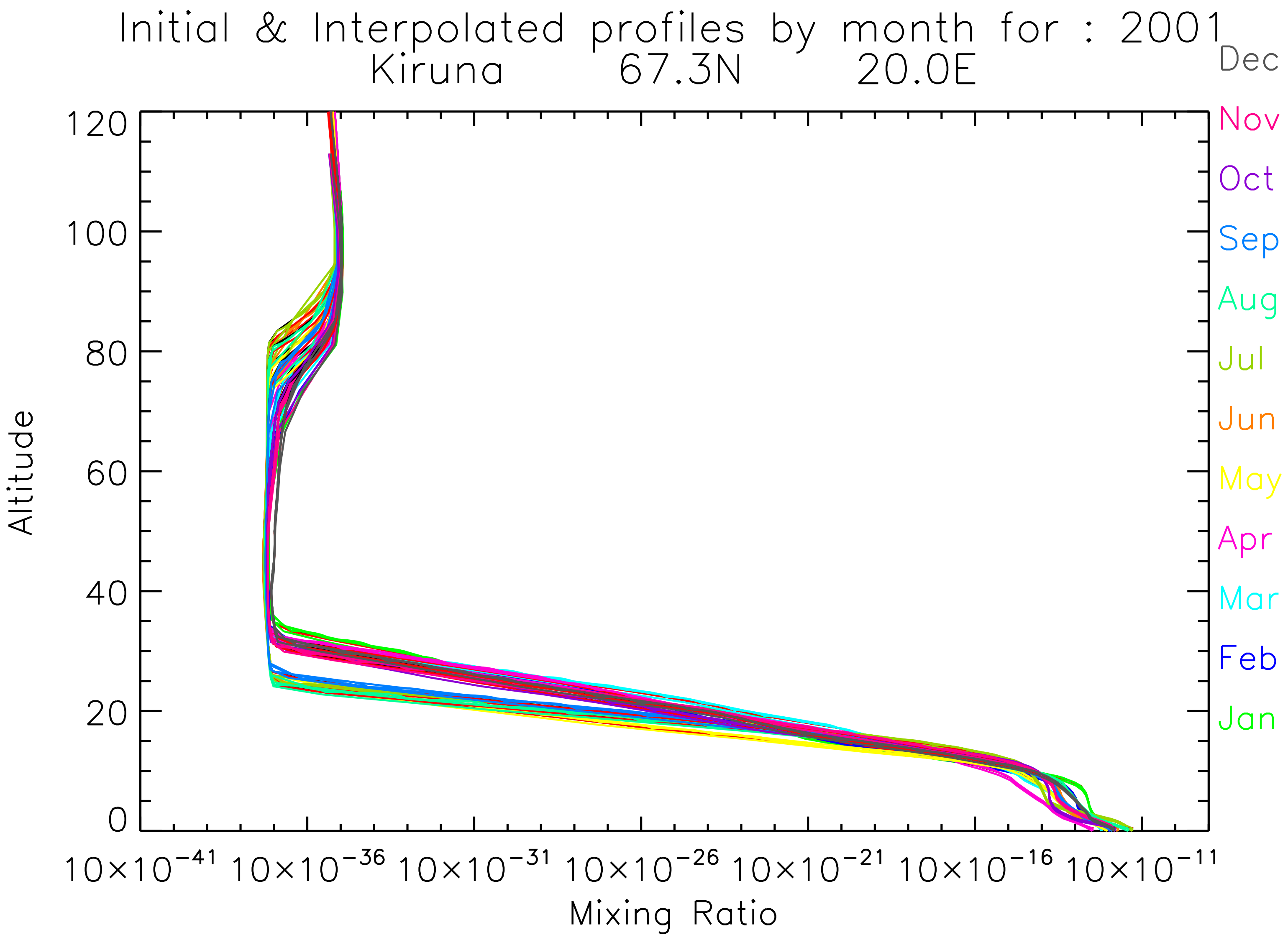

Initial & Interpolated profiles by month for : 1998
Kiruna 67.3N 20.0E
Altitude
120
100
80
60
40
20
0
10×10⁻⁴¹
10×10⁻³⁶
10×10⁻³¹
10×10⁻²⁶
10×10⁻²¹
10×10⁻¹⁶
10×10⁻¹¹
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



Initial & Interpolated profiles by month for : 1999
Kiruna 67.3N 20.0E

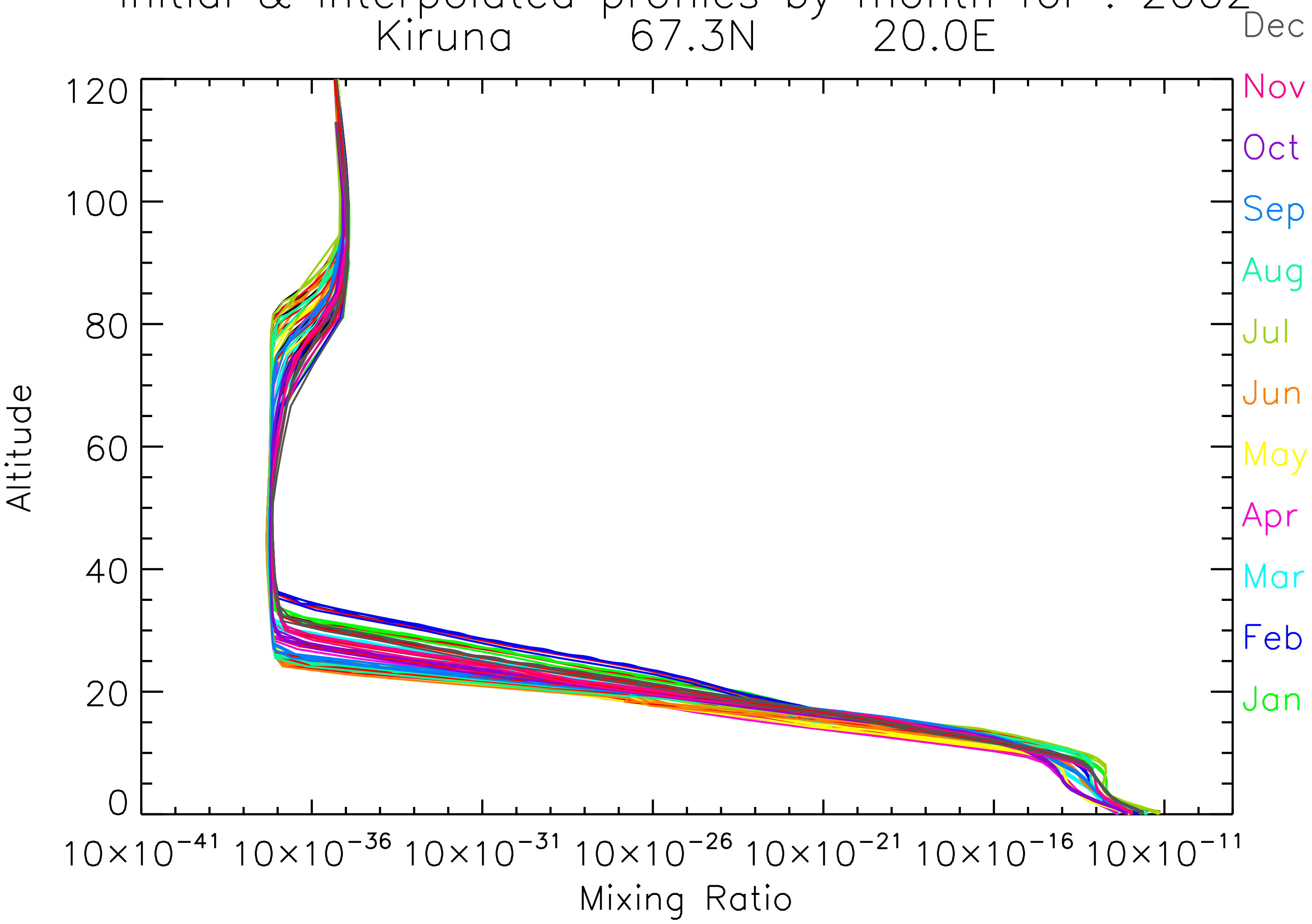


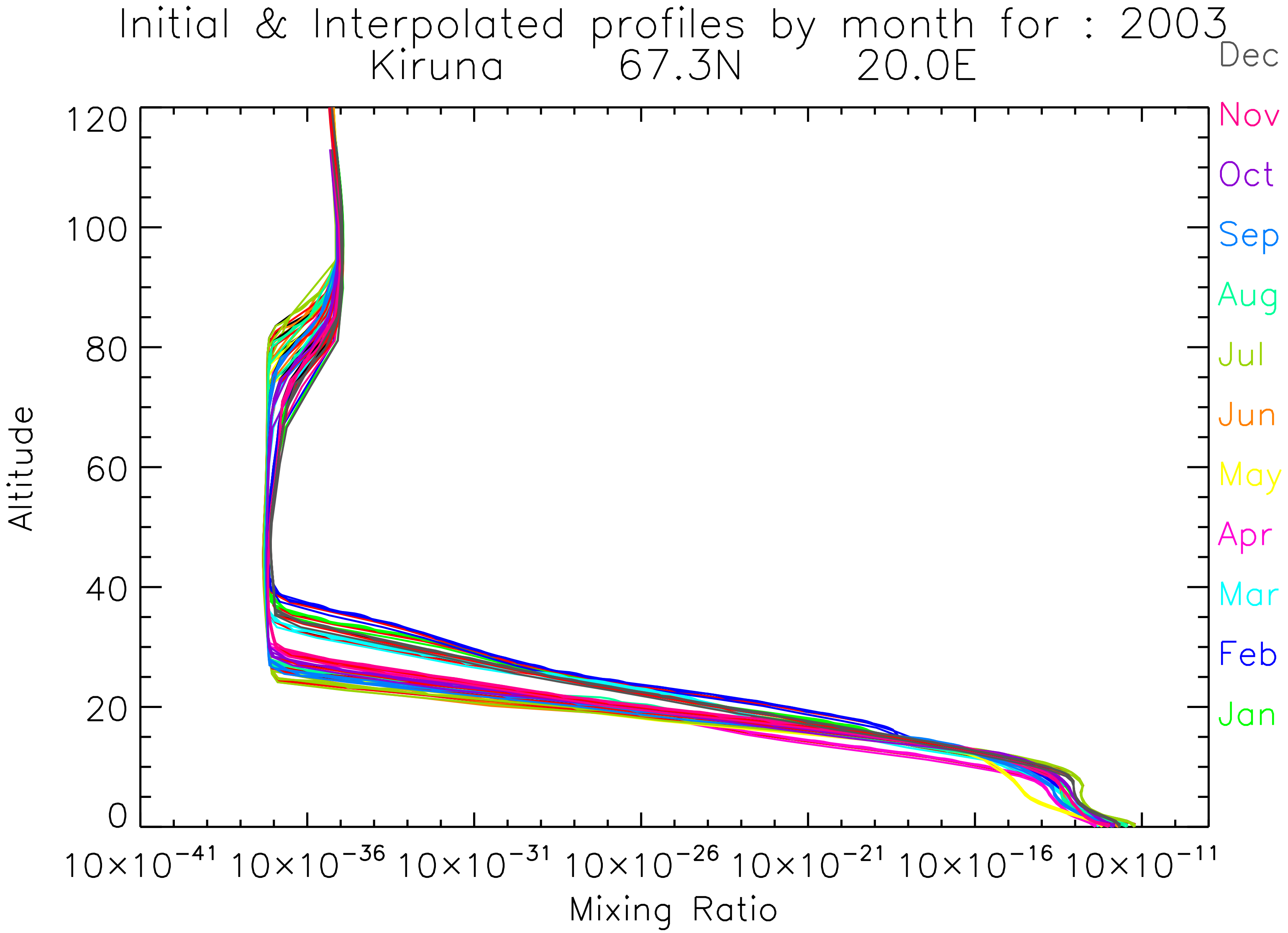
Initial & Interpolated profiles by month for : 2000
Kiruna 67.3N 20.0E

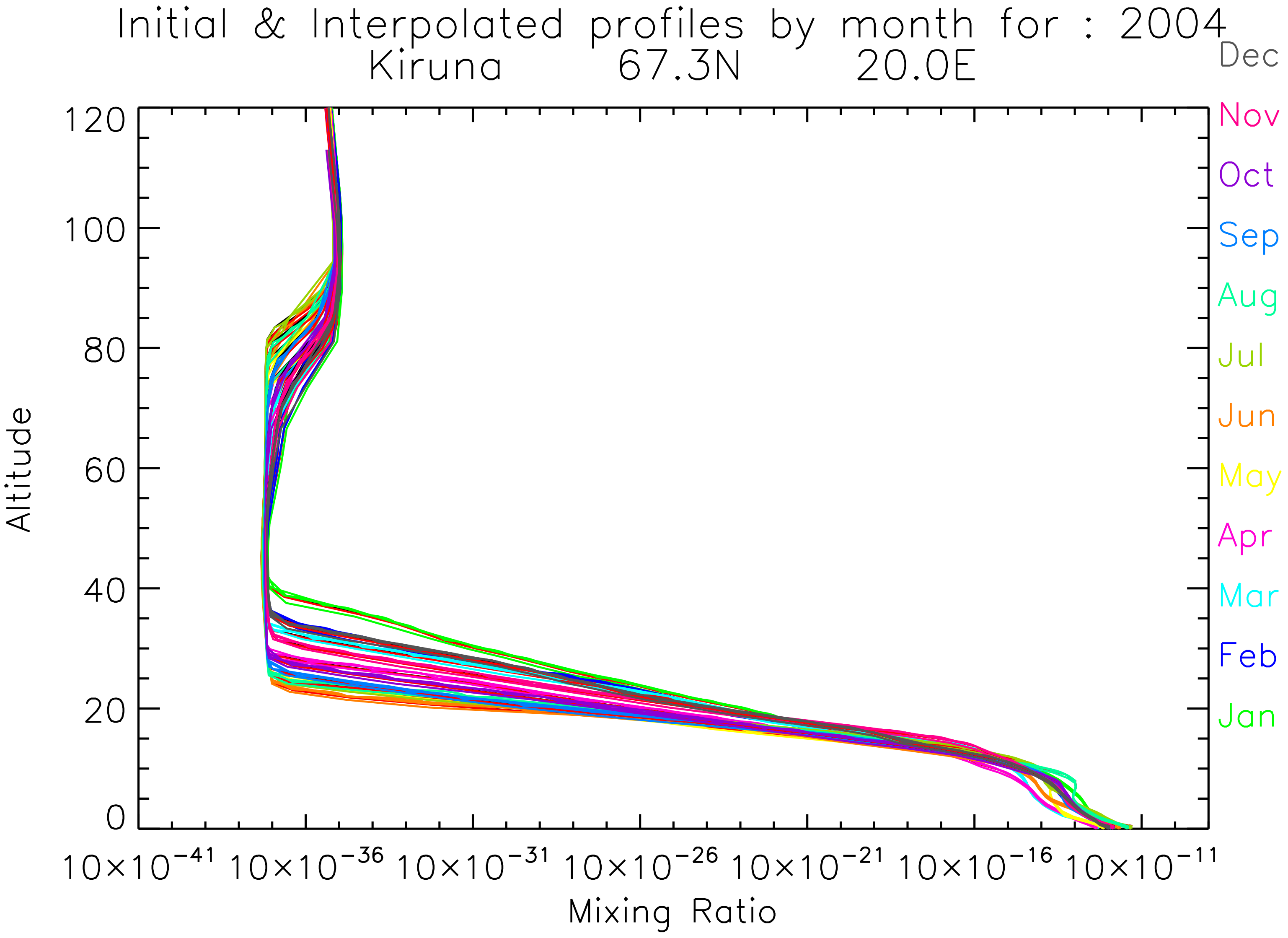


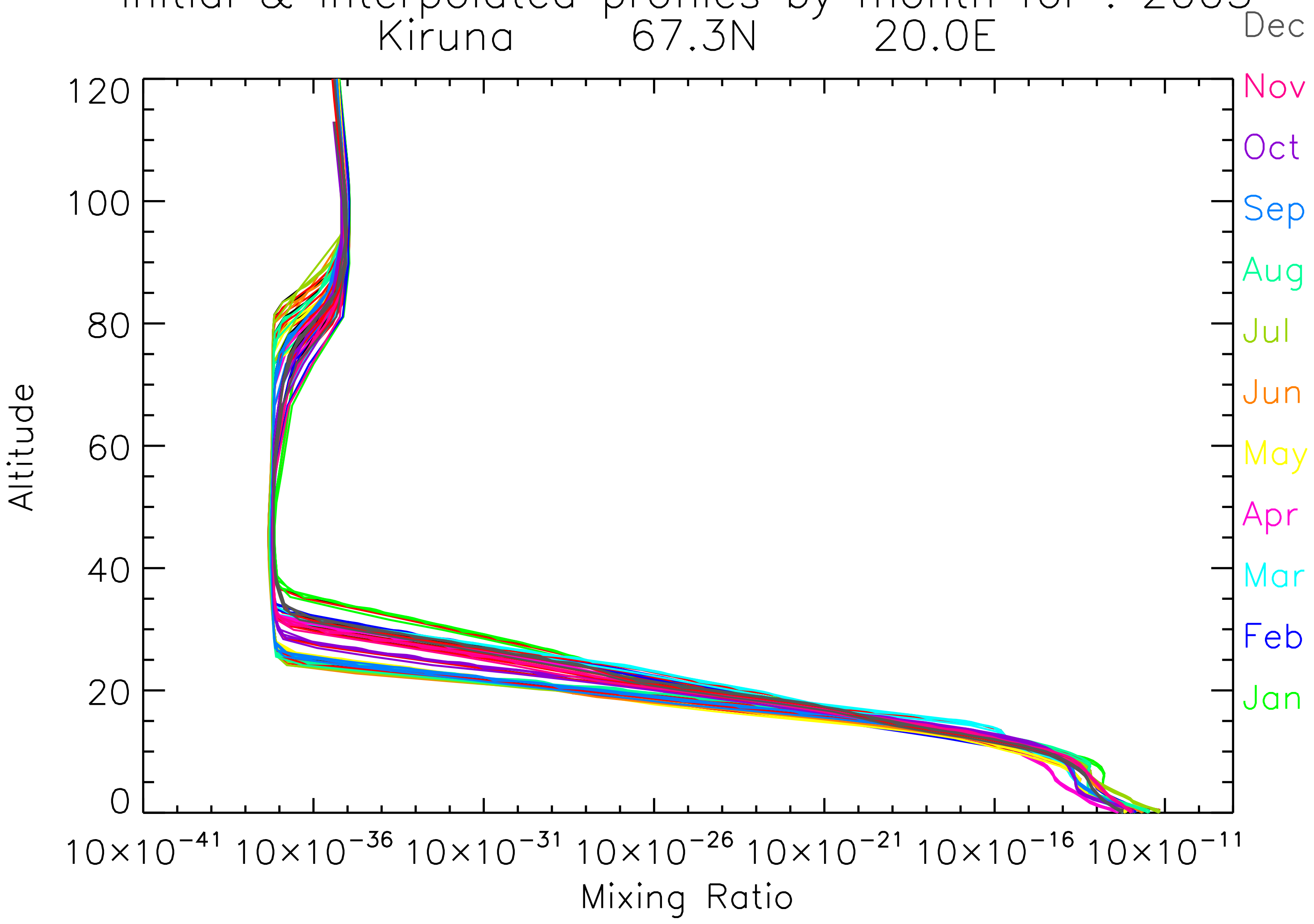
Initial & Interpolated profiles by month for : 2001
Kiruna 67.3N 20.0E

Initial & Interpolated profiles by month for : 2002
Kiruna 67.3N 20.0E

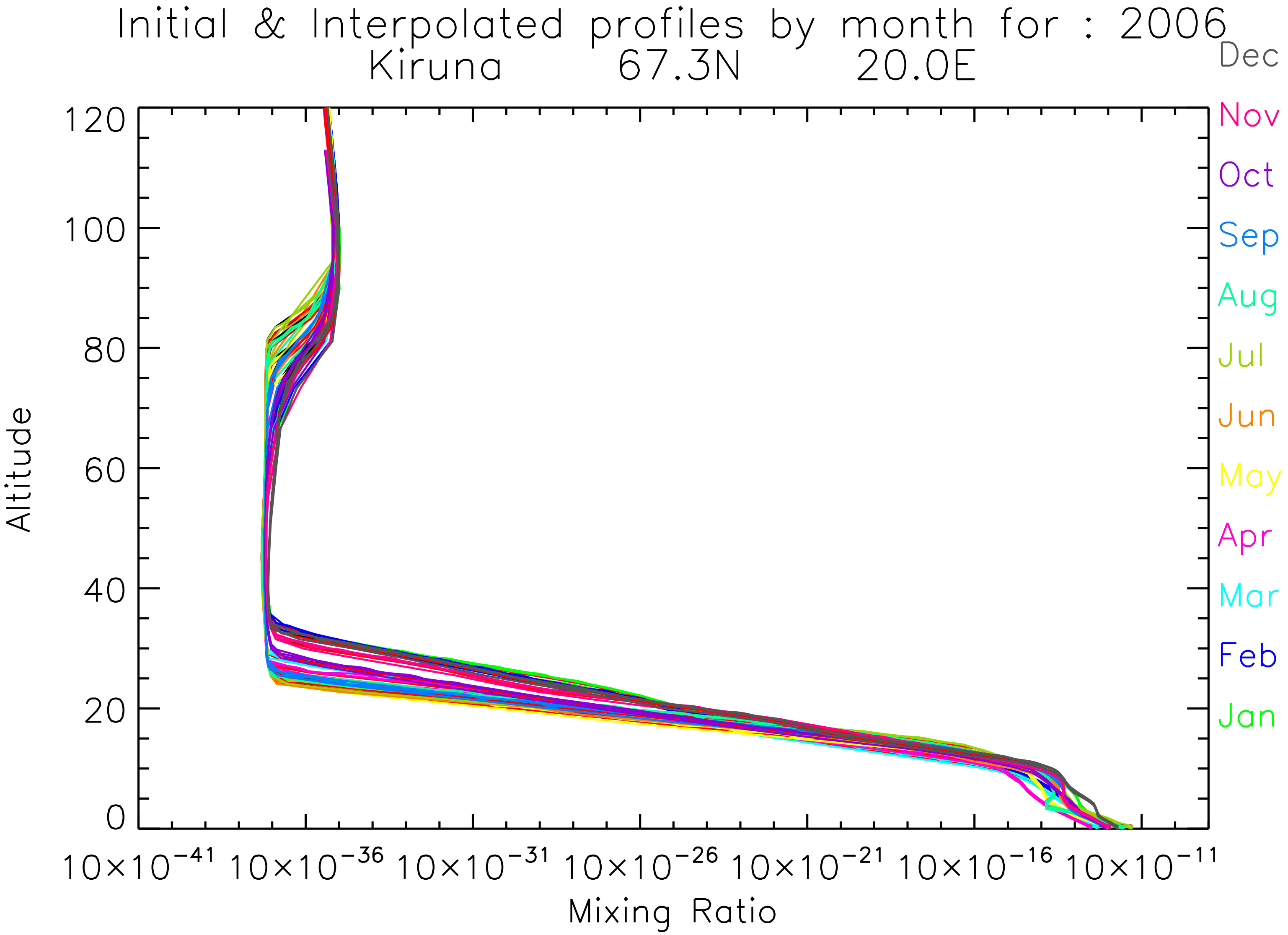


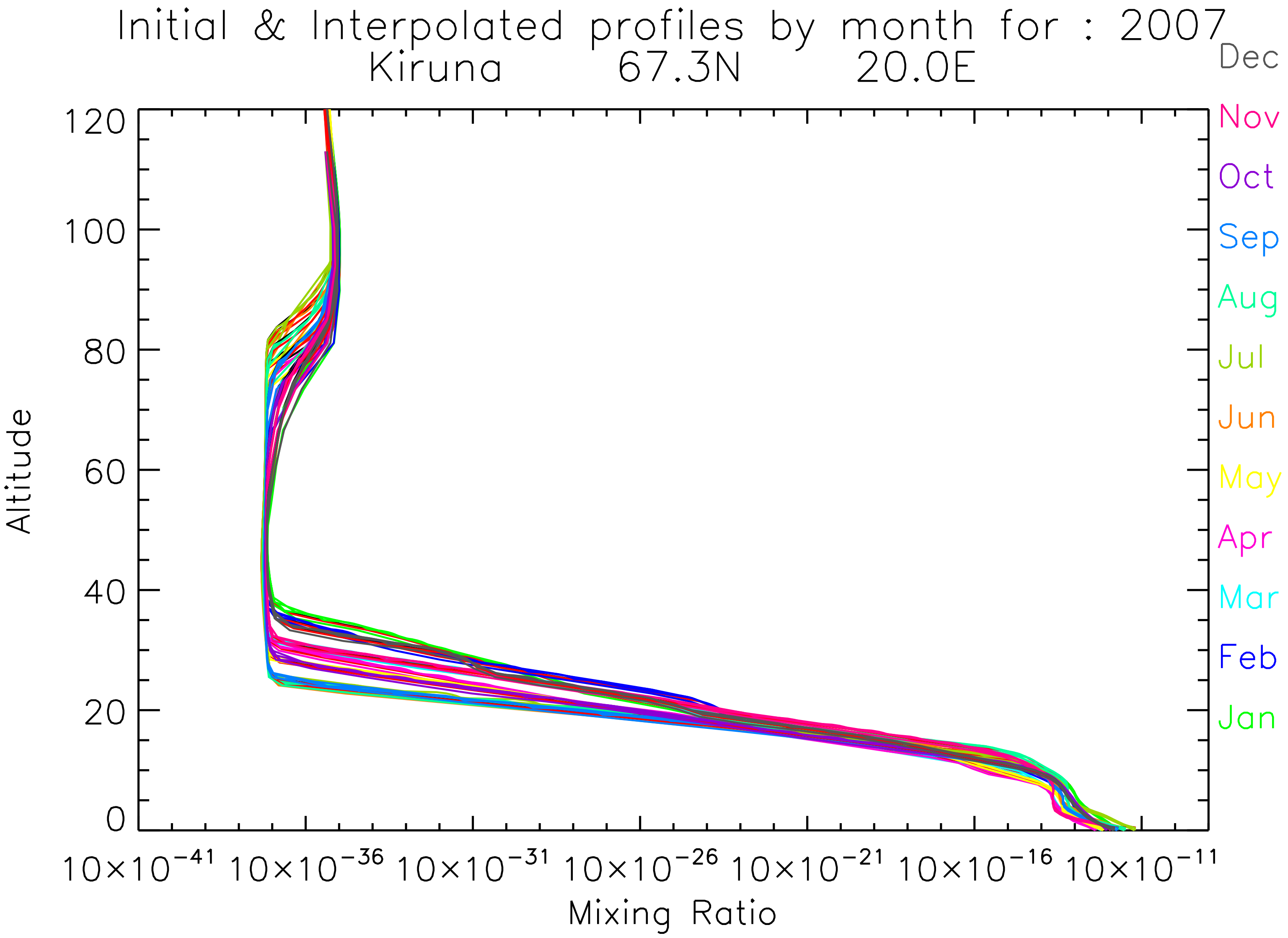

Initial & Interpolated profiles by month for : 2003
Kiruna 67.3N 20.0E
Altitude
0
20
40
60
80
100
120
Mixing Ratio
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan


Initial & Interpolated profiles by month for : 2004
Kiruna 67.3N 20.0E
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

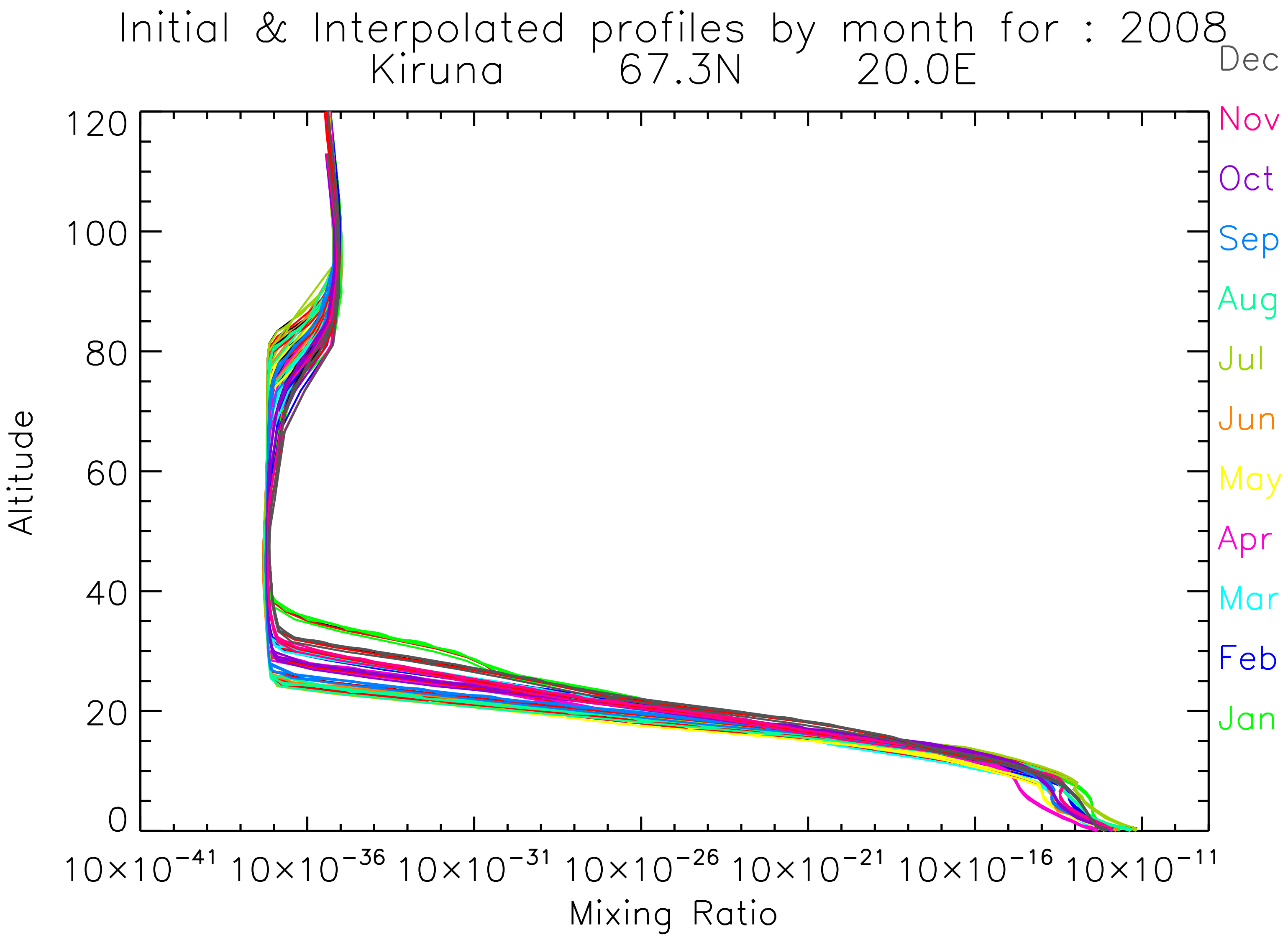


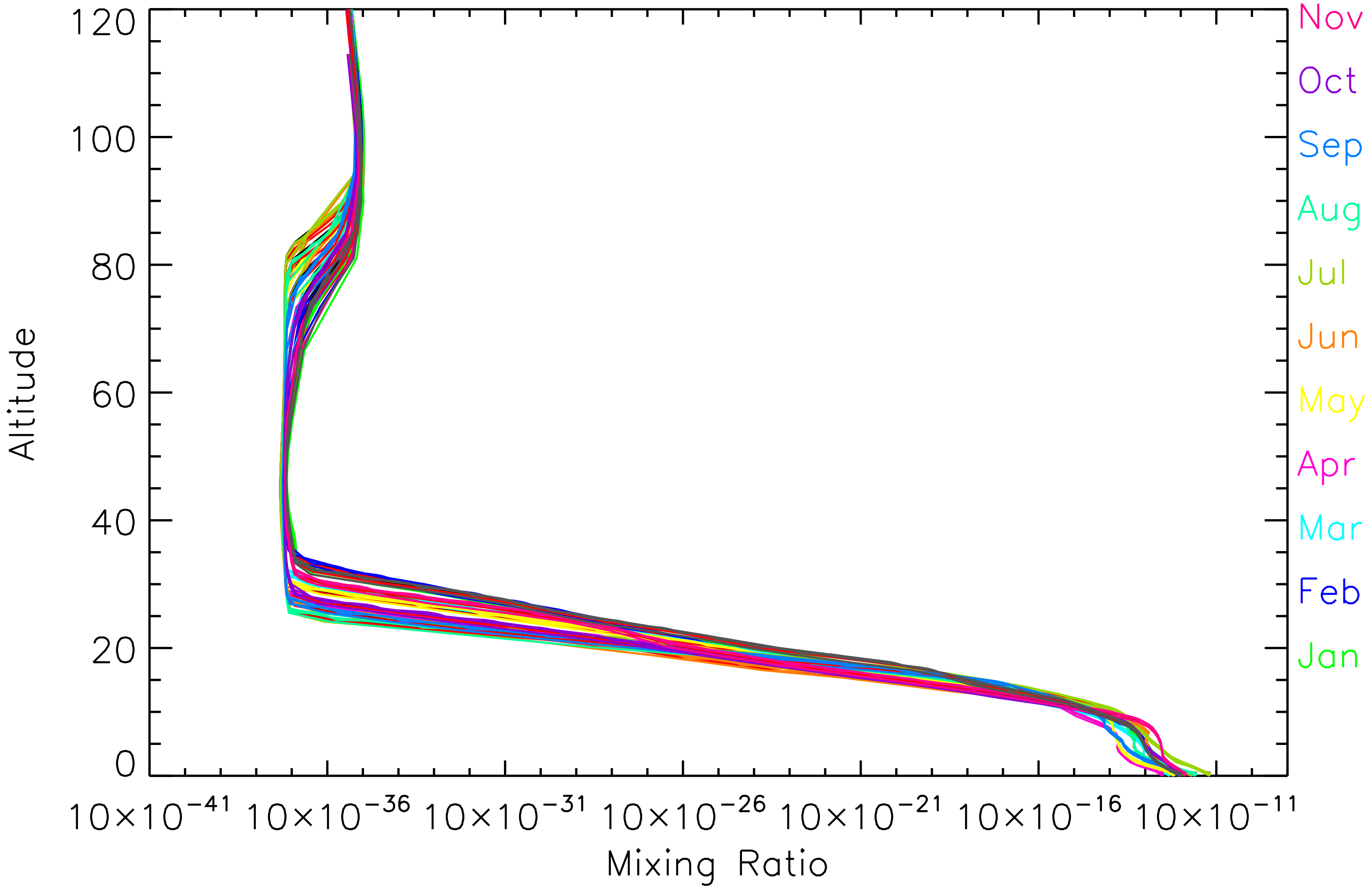
Initial & Interpolated profiles by month for : 2005
Kiruna 67.3N 20.0E


Initial & Interpolated profiles by month for : 2006
Kiruna 67.3N 20.0E
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

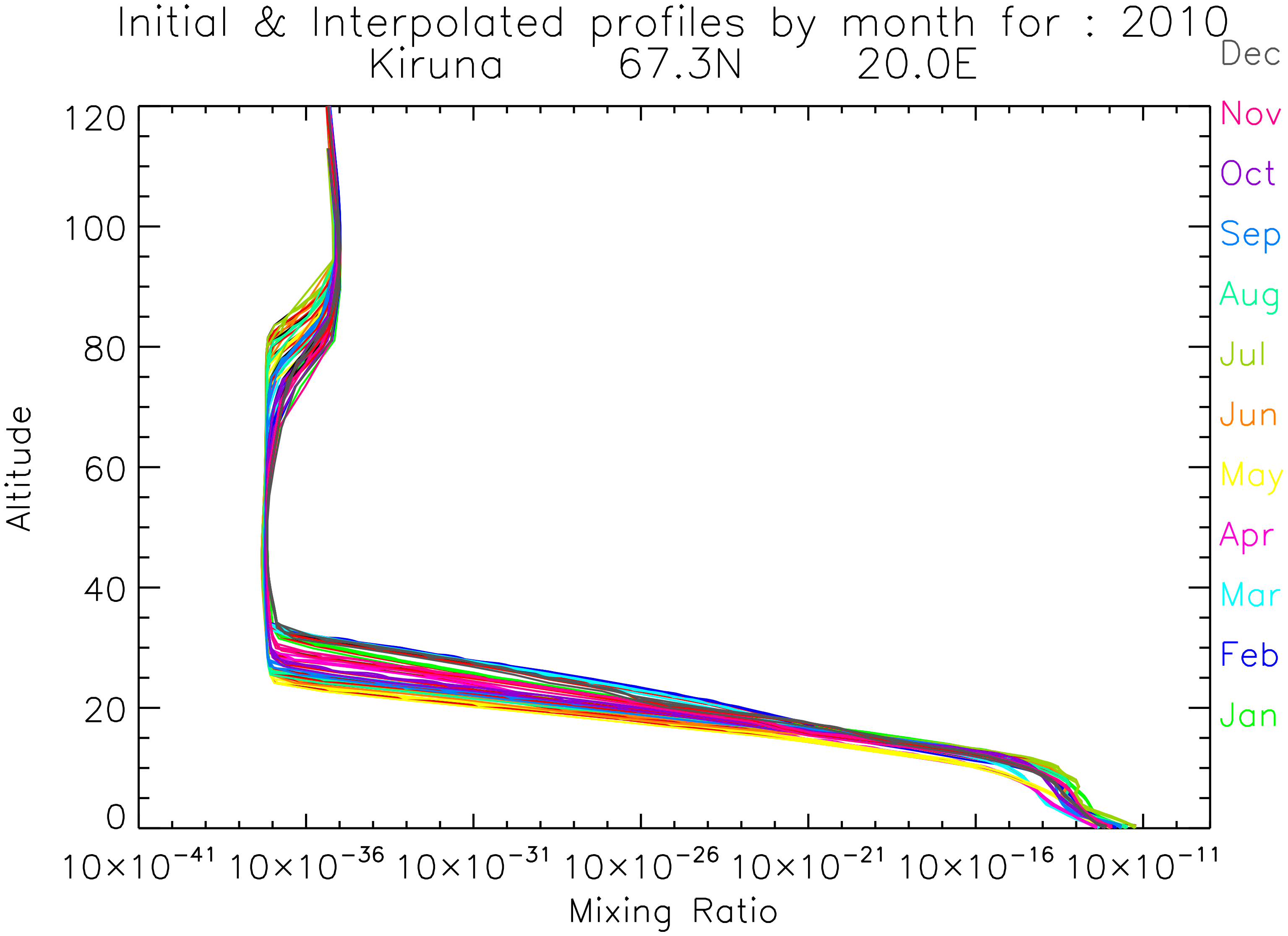


Initial & Interpolated profiles by month for : 2007
Kiruna 67.3N 20.0E

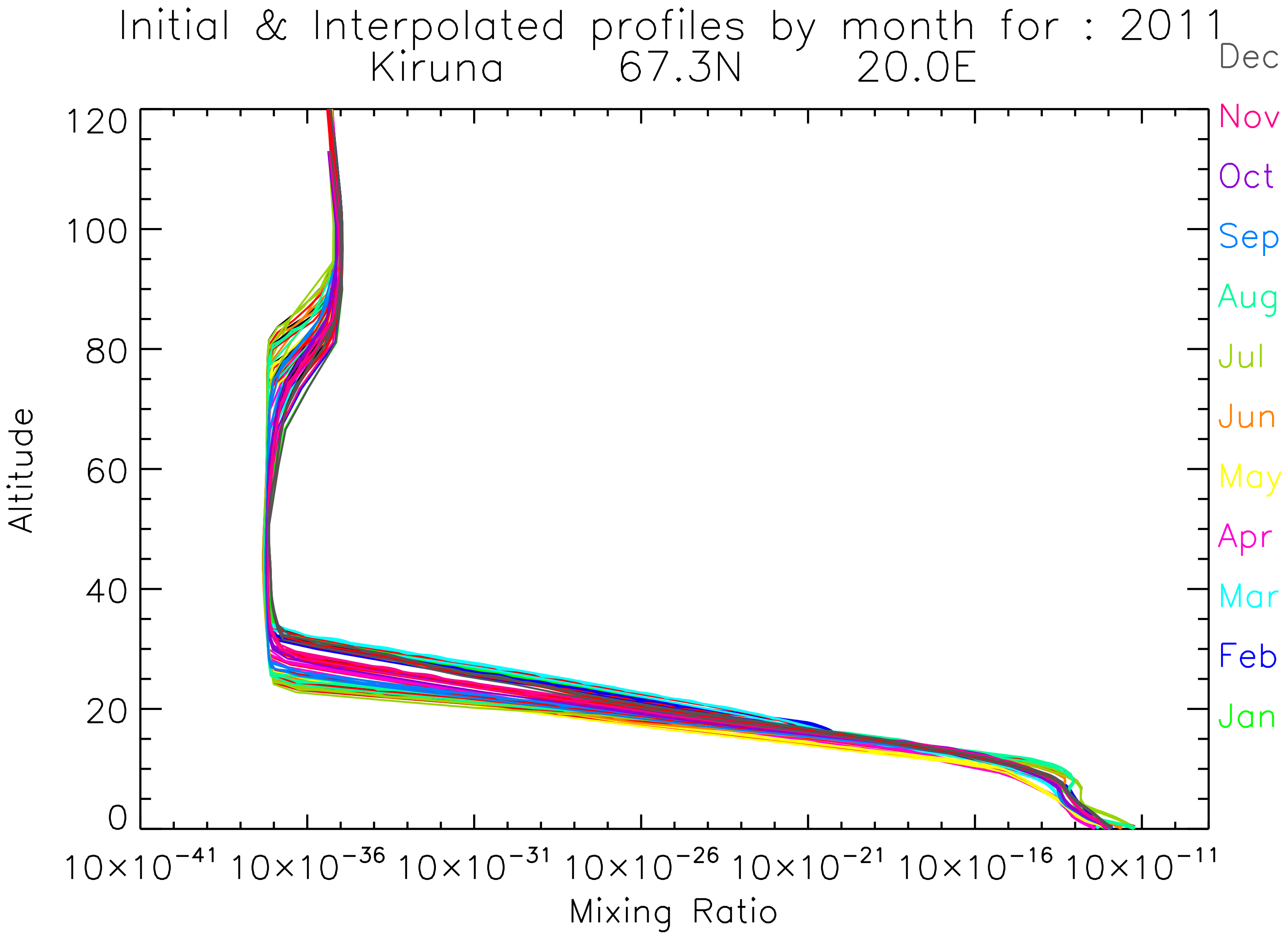

Initial & Interpolated profiles by month for : 2008
Kiruna 67.3N 20.0E
Altitude
120
100
80
60
40
20
0
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan



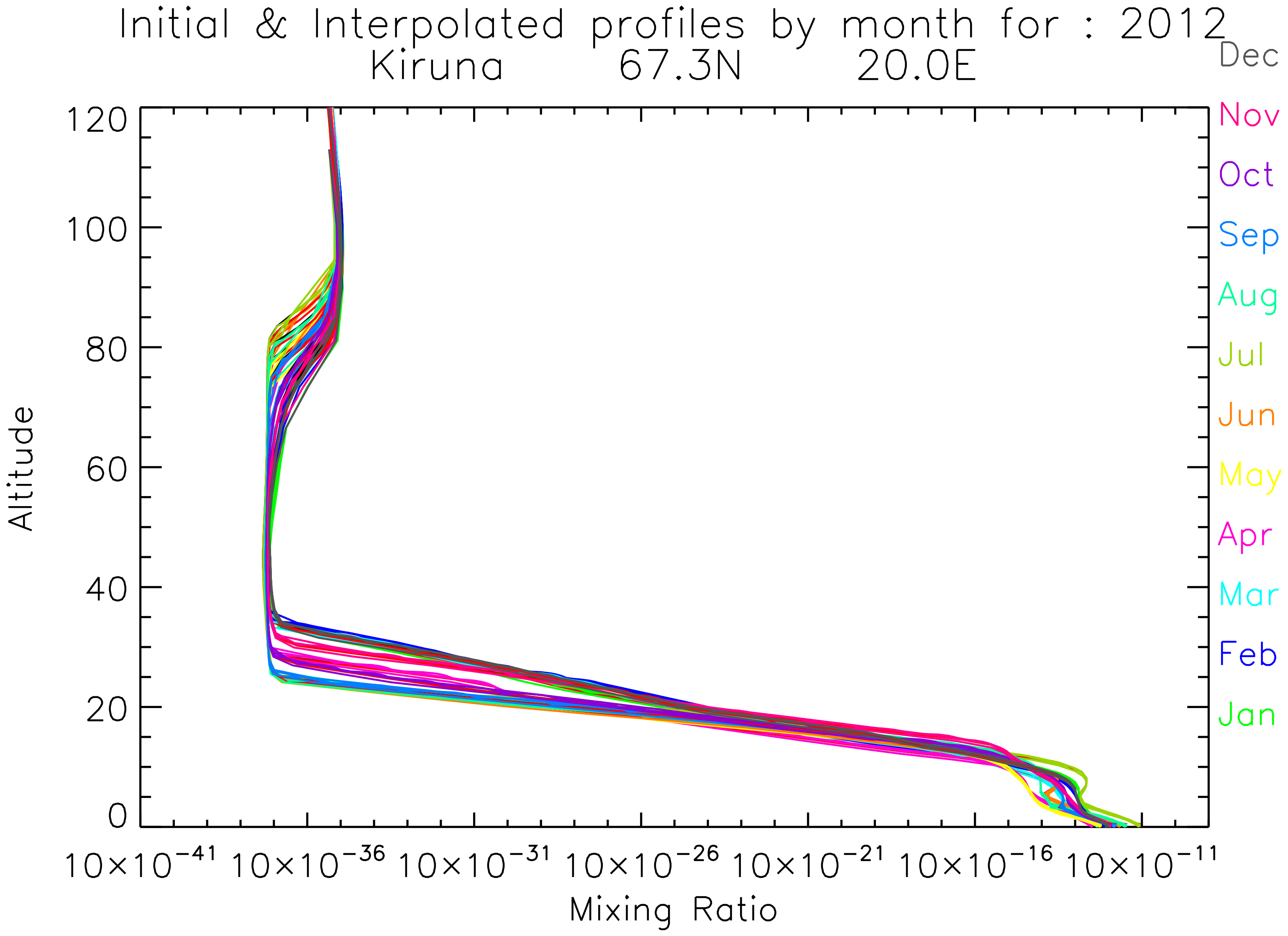
Initial & Interpolated profiles by month for : 2009
Kiruna 67.3N 20.0E

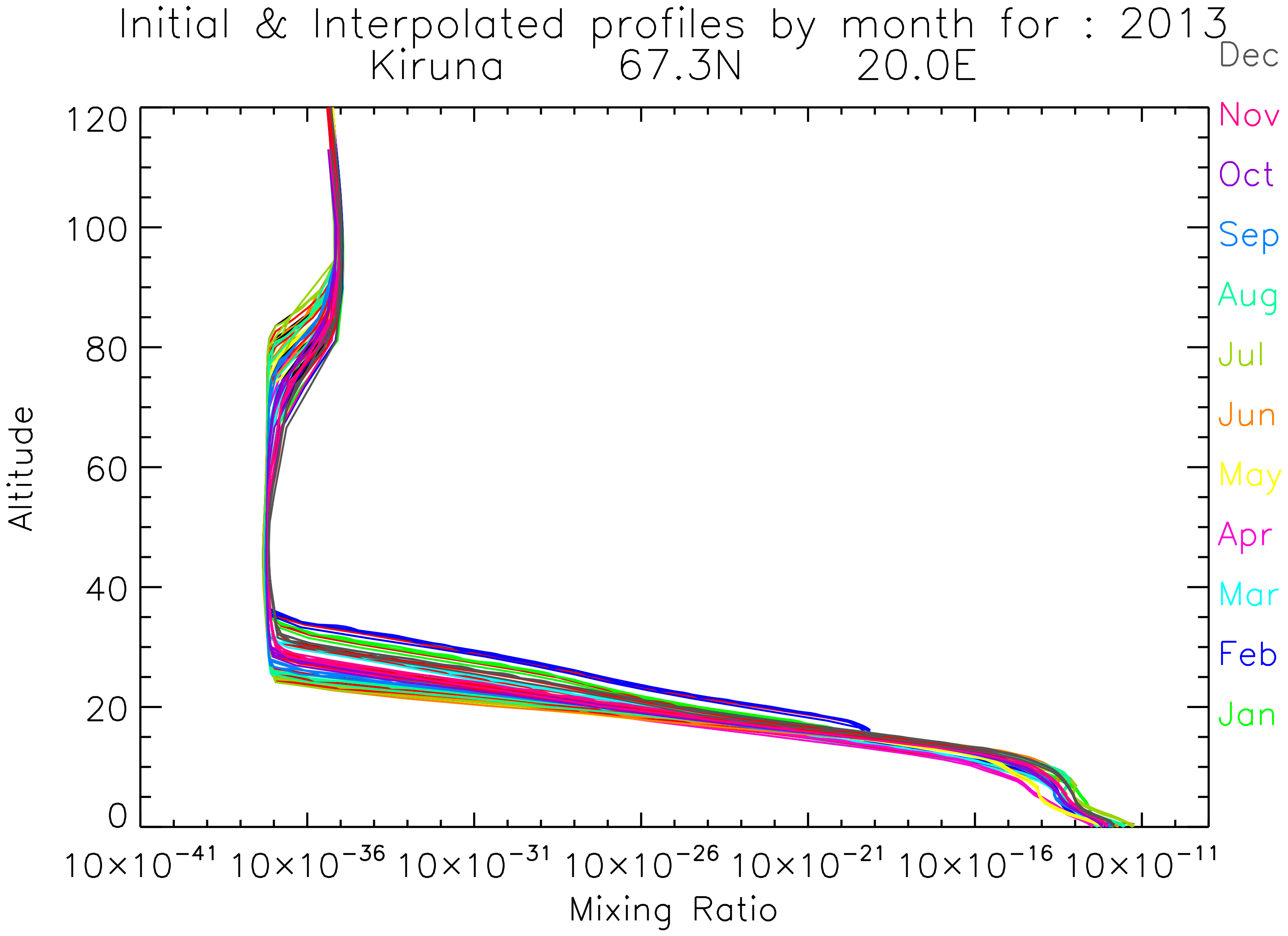


Initial & Interpolated profiles by month for : 2010
Kiruna 67.3N 20.0E



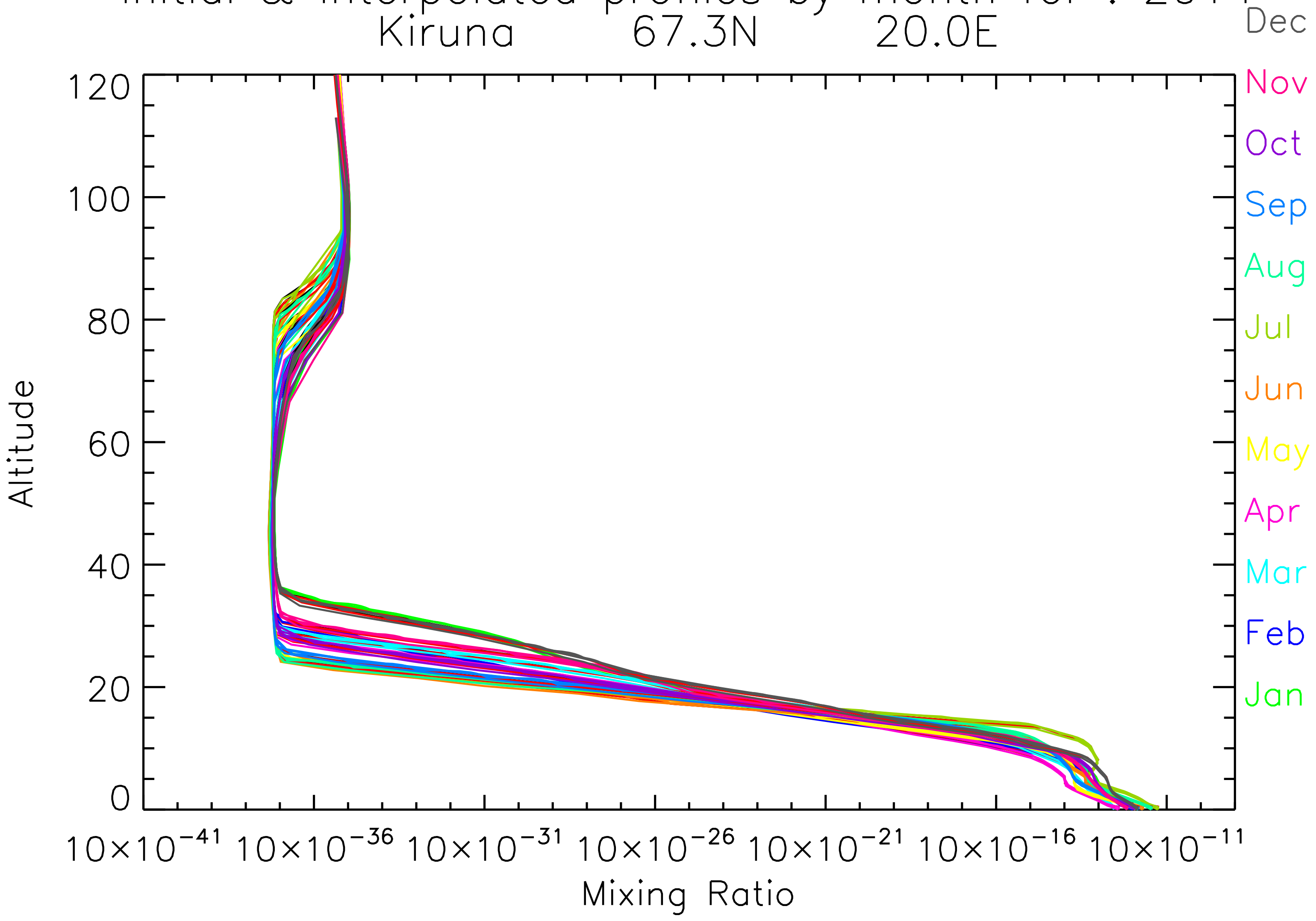
Initial & Interpolated profiles by month for : 2011
Kiruna 67.3N 20.0E

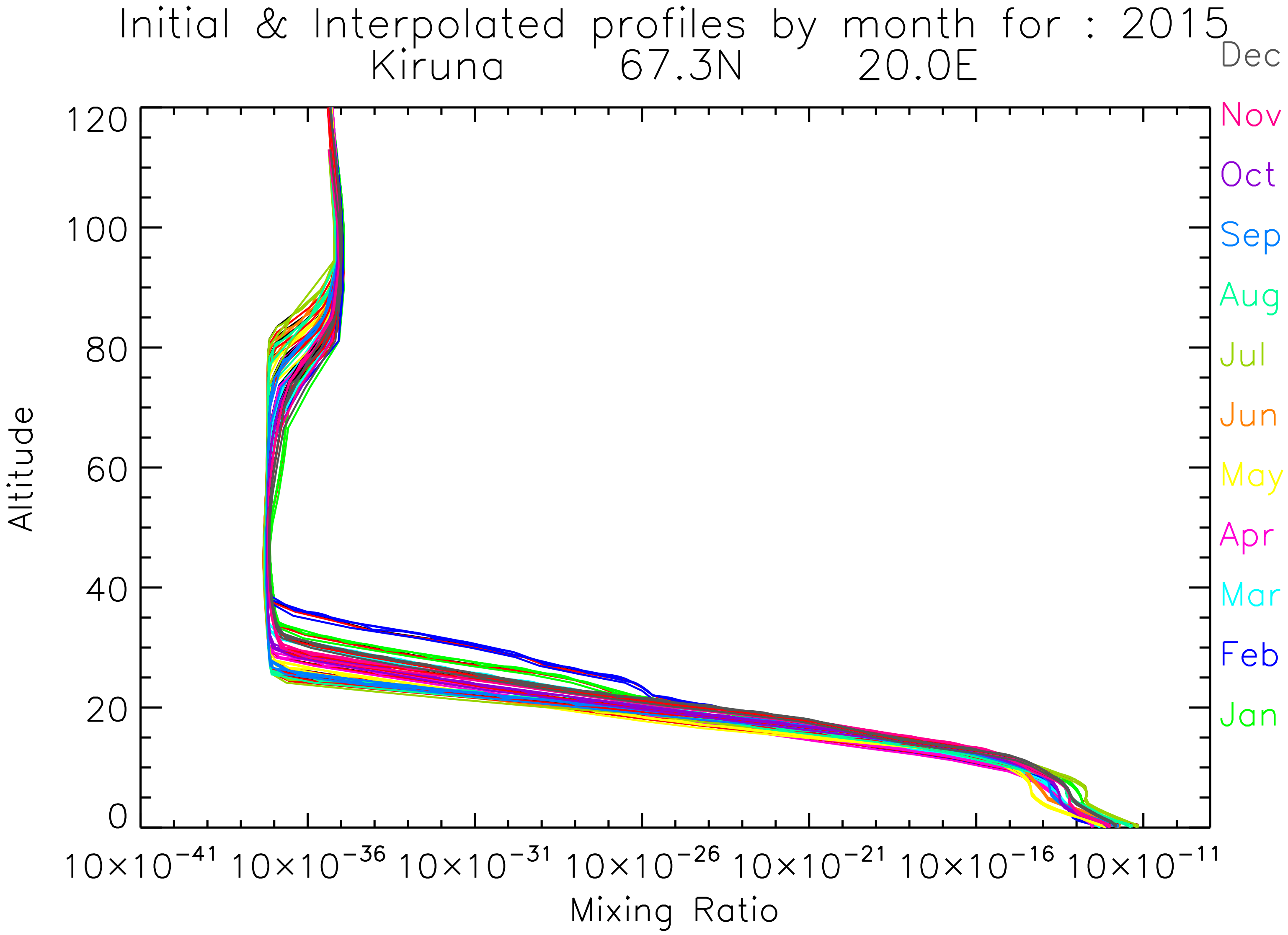

Initial & Interpolated profiles by month for : 2012
Kiruna 67.3N 20.0E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10×10^-41
10×10^-36
10×10^-31
10×10^-26
10×10^-21
10×10^-16
10×10^-11
Mixing Ratio



Initial & Interpolated profiles by month for : 2013
Kiruna 67.3N 20.0E

Initial & Interpolated profiles by month for : 2014
Kiruna 67.3N 20.0E

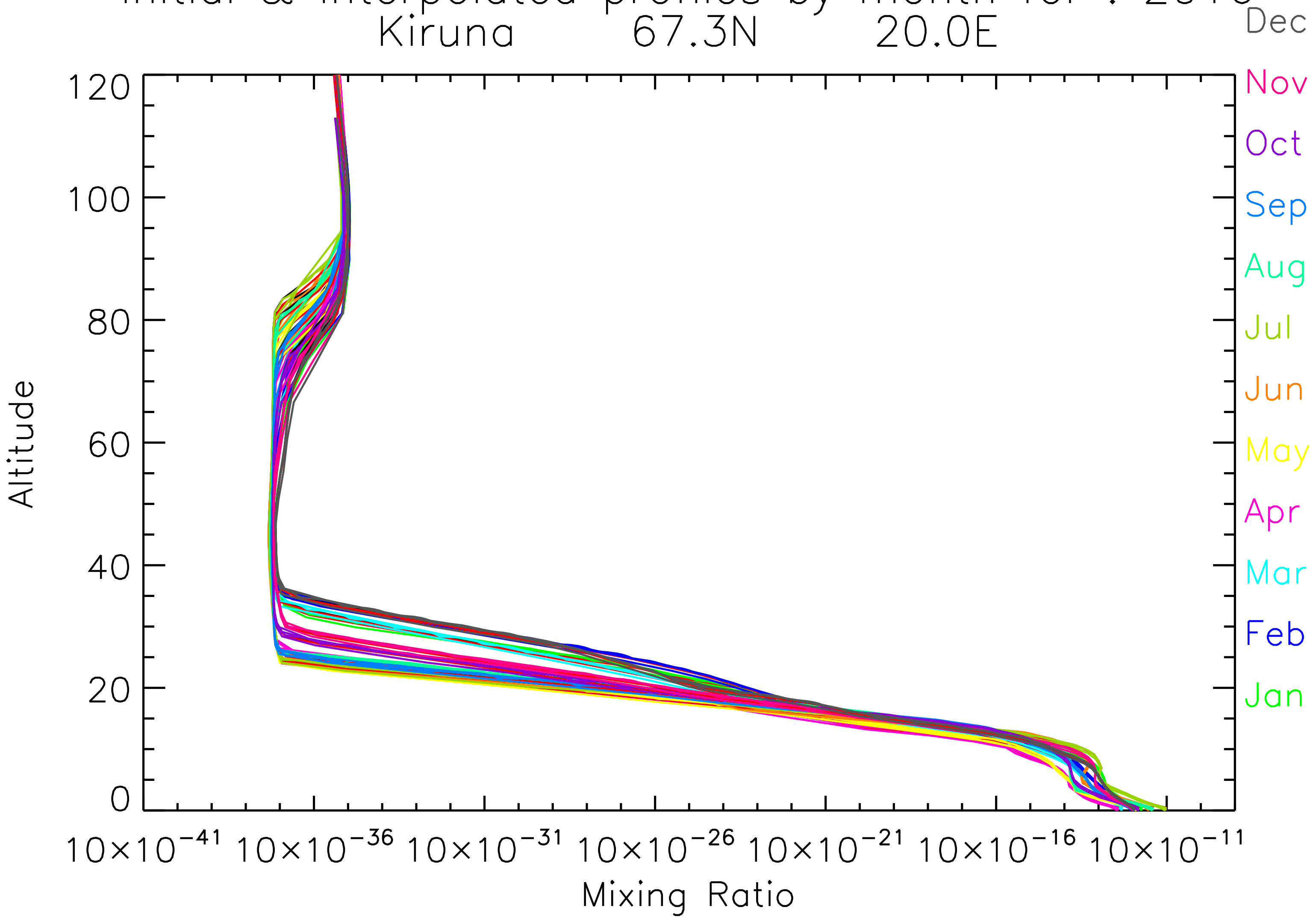


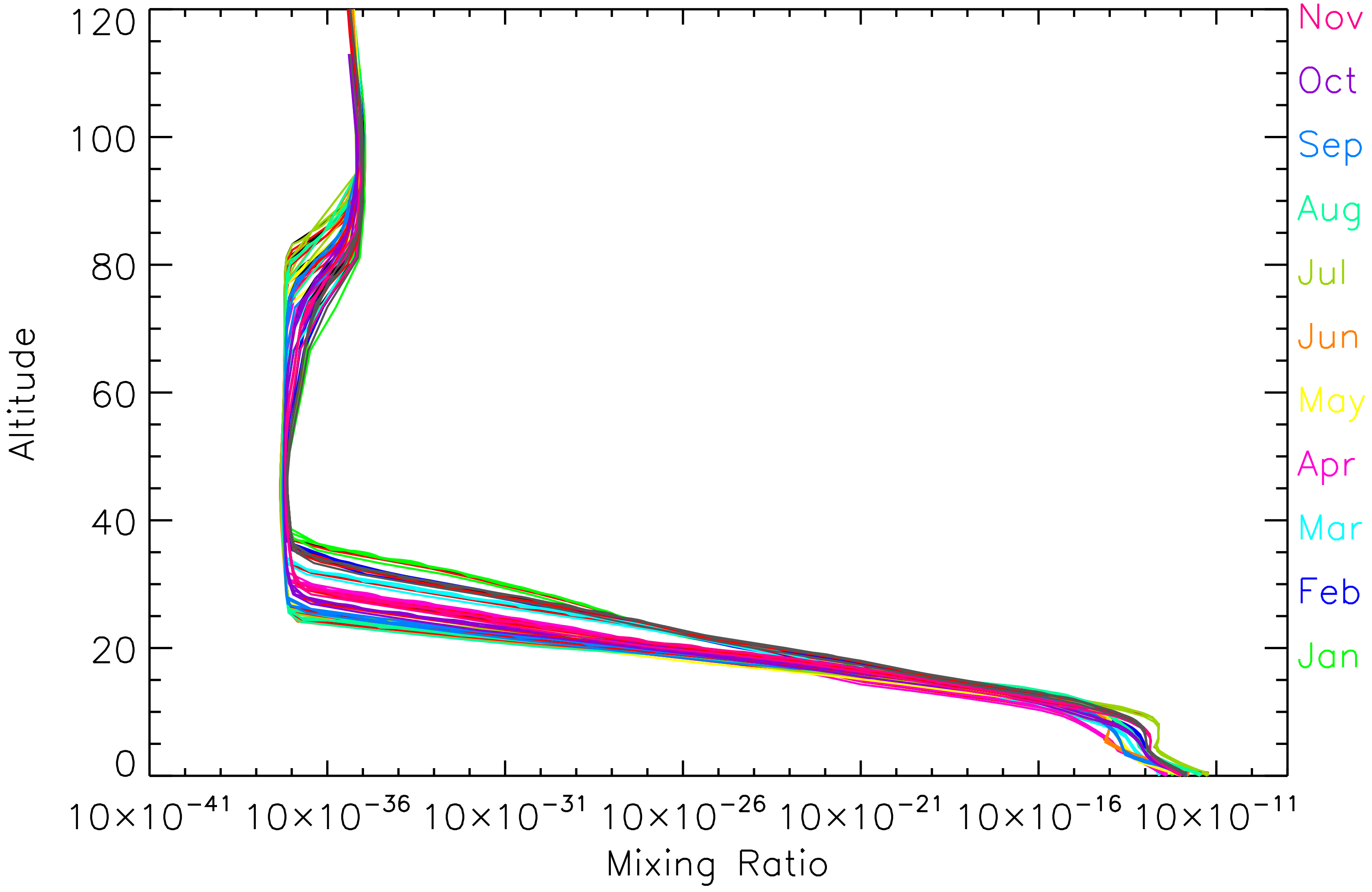


Initial & Interpolated profiles by month for : 2015
Kiruna 67.3N 20.0E

Initial & Interpolated profiles by month for : 2016

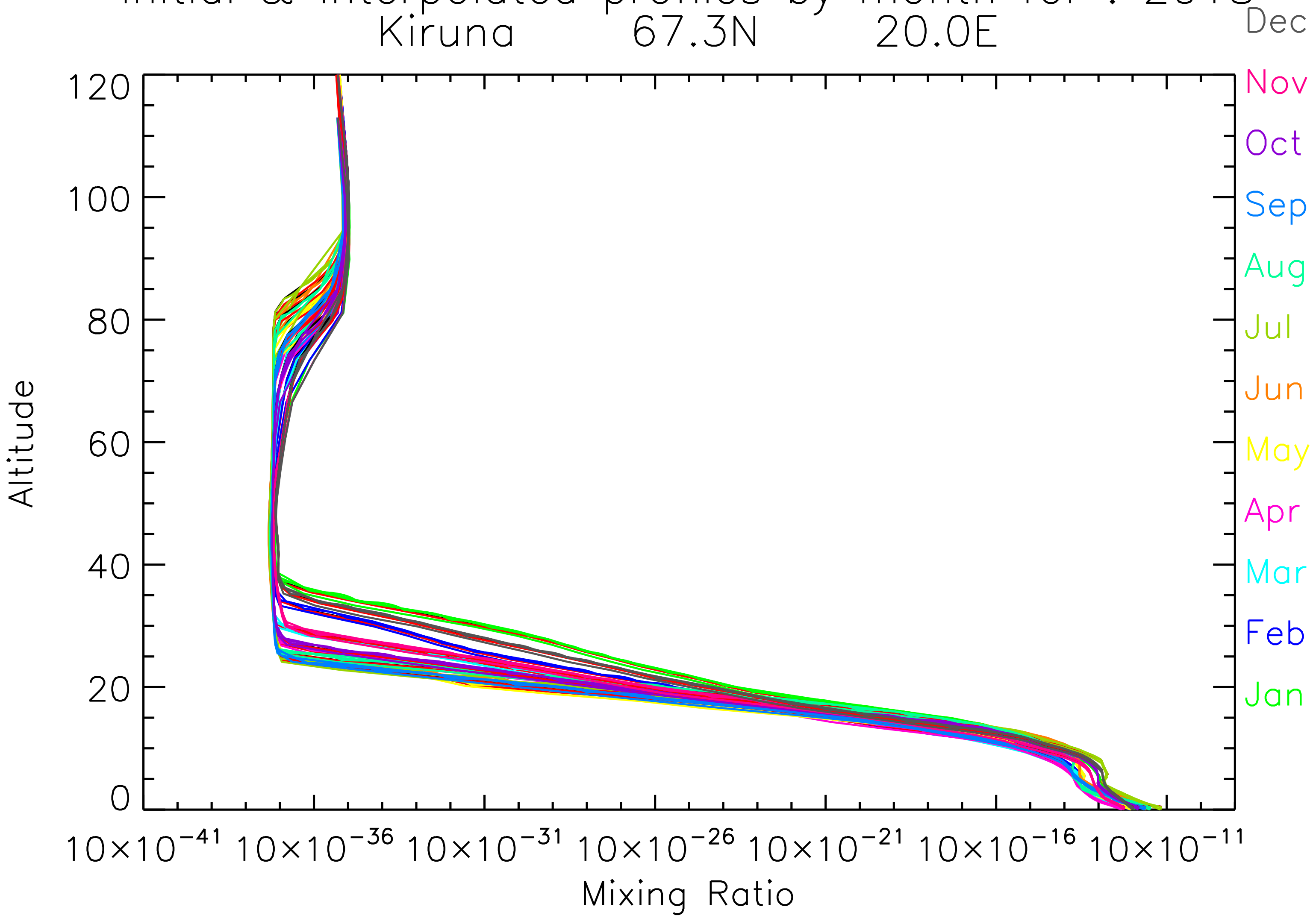
Kiruna 67.3N 20.0E

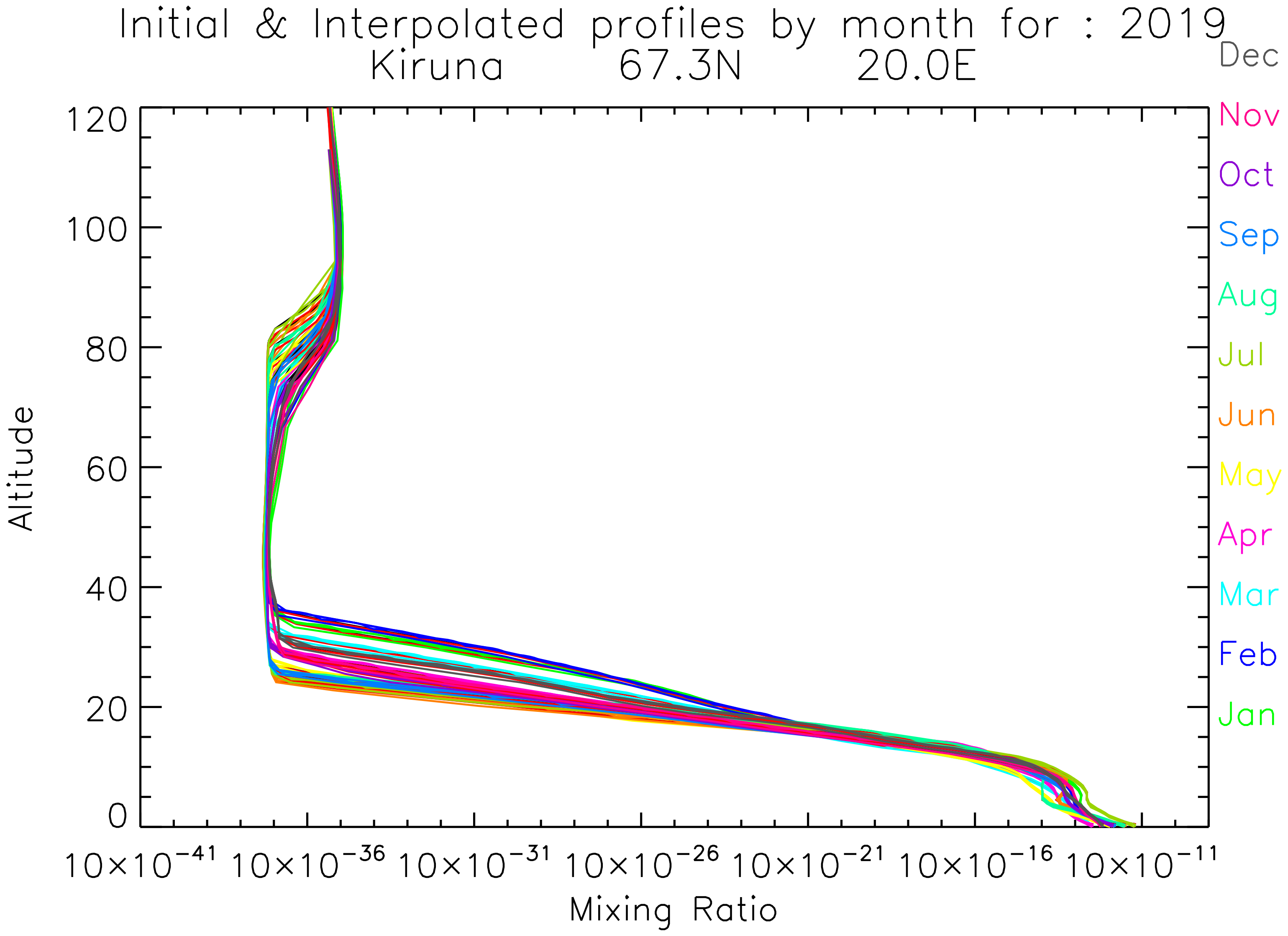


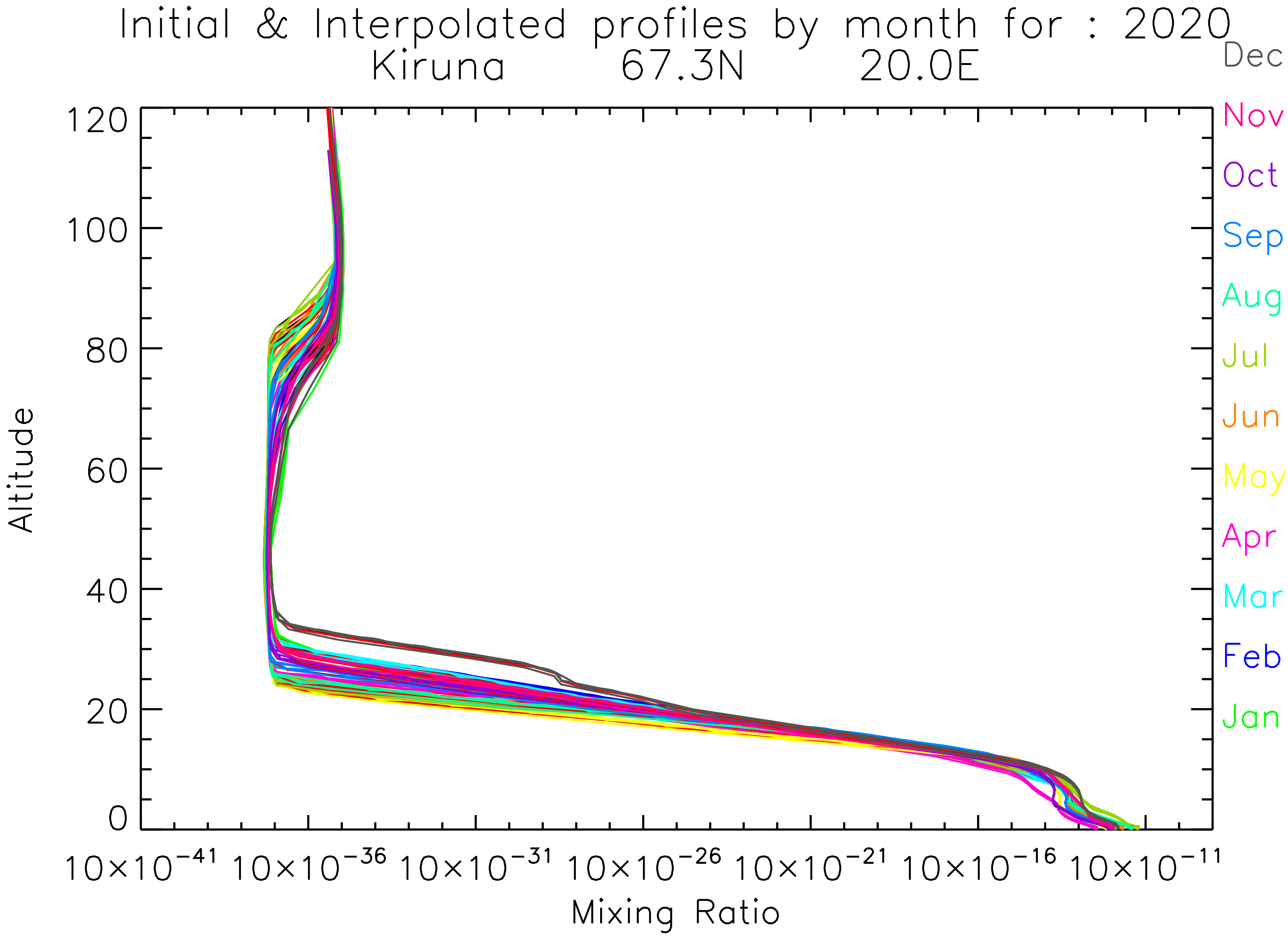


Initial & Interpolated profiles by month for : 2017
Kiruna 67.3N 20.0E

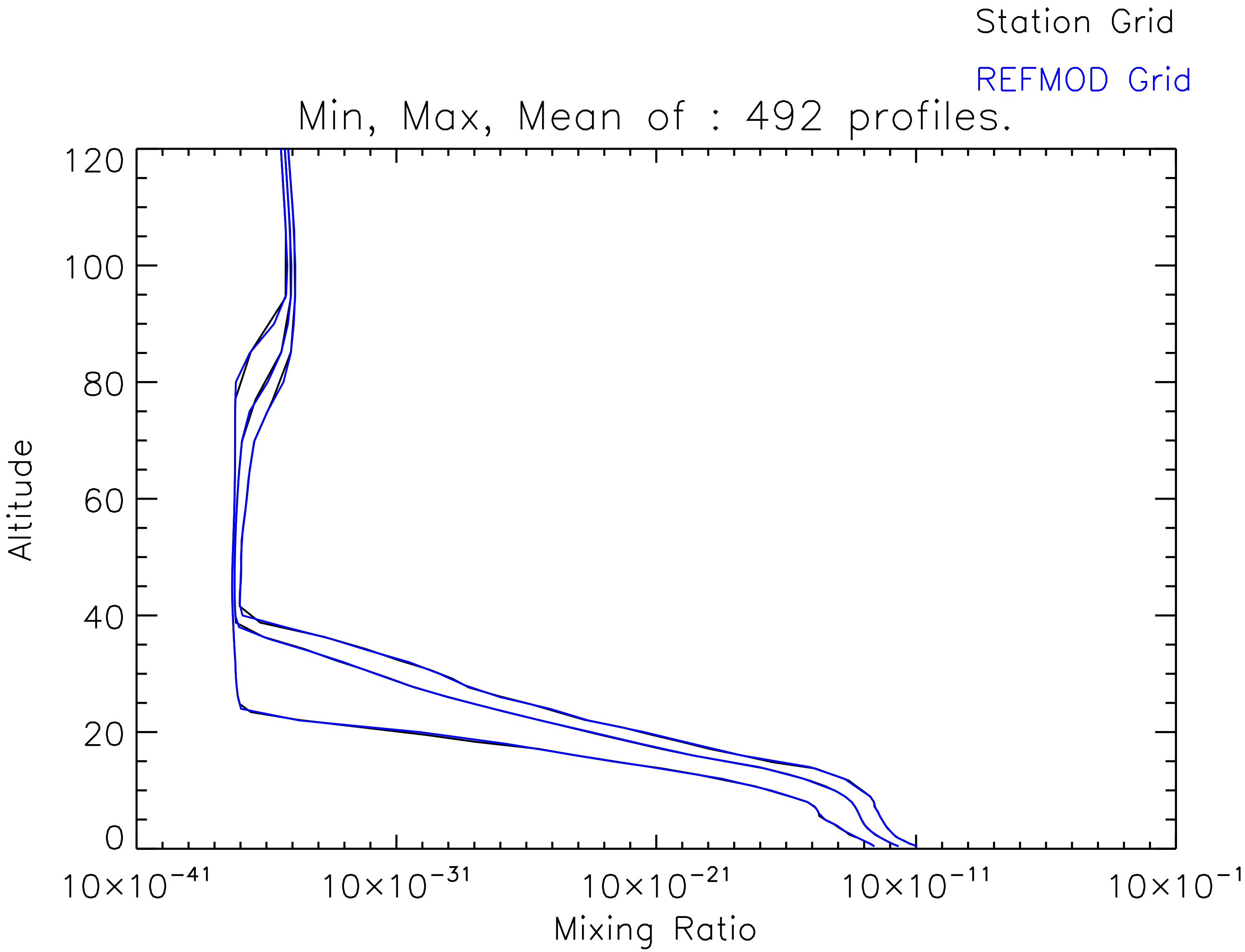
Initial & Interpolated profiles by month for : 2018
Kiruna 67.3N 20.0E

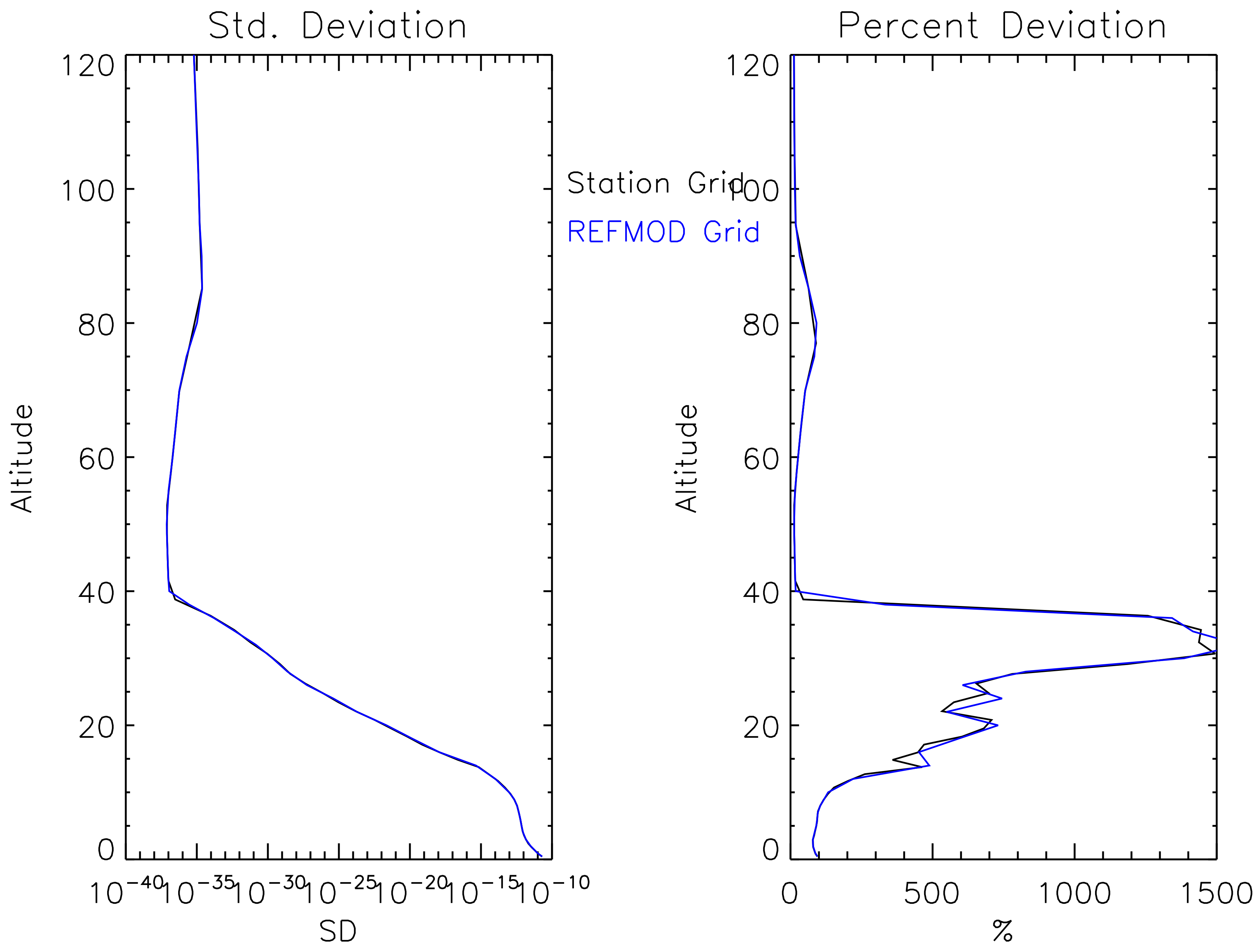


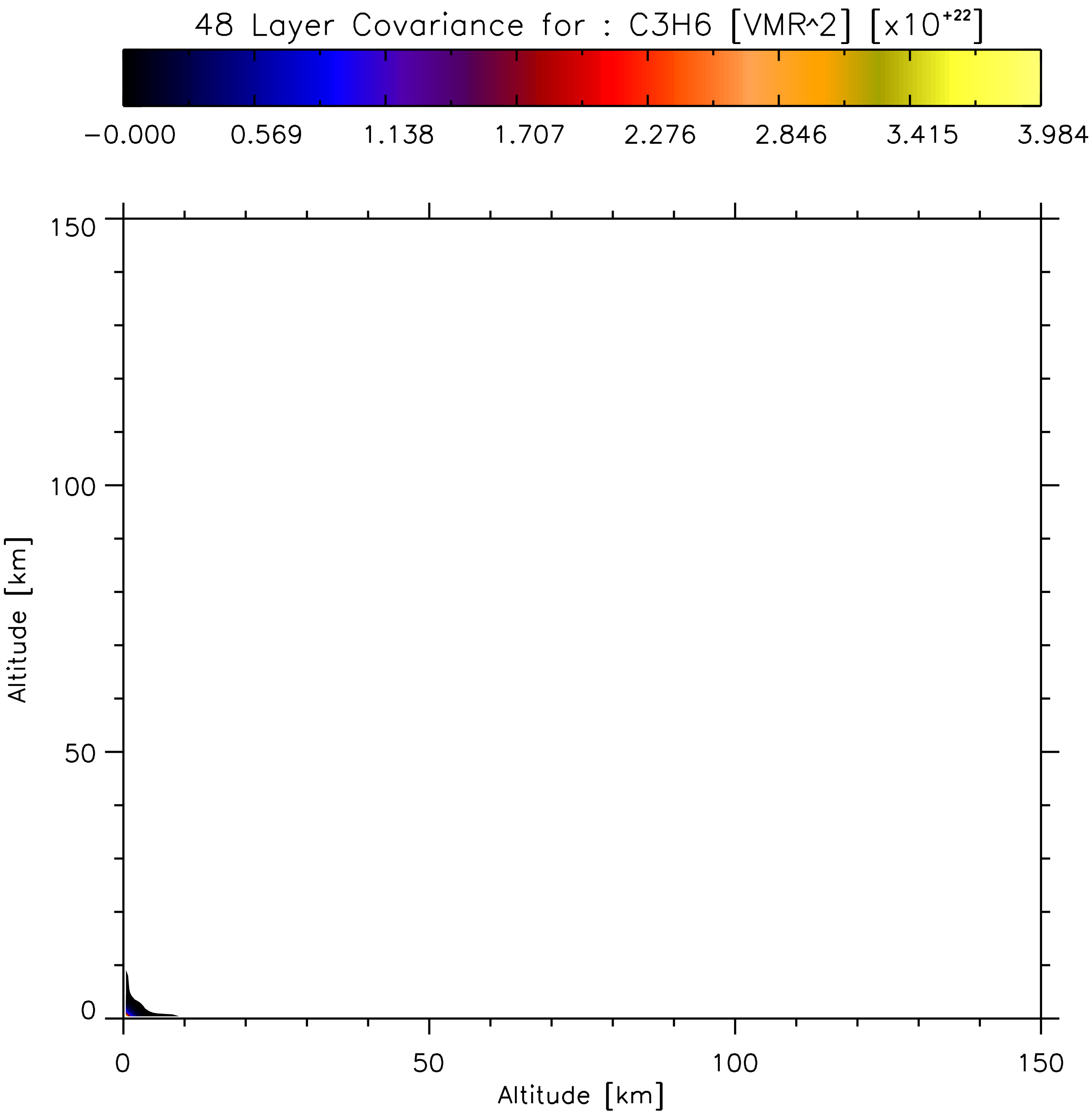

Initial & Interpolated profiles by month for : 2019
Kiruna 67.3N 20.0E
Altitude
0
20
40
60
80
100
120
10×10^{-41}
10×10^{-36}
10×10^{-31}
10×10^{-26}
10×10^{-21}
10×10^{-16}
10×10^{-11}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

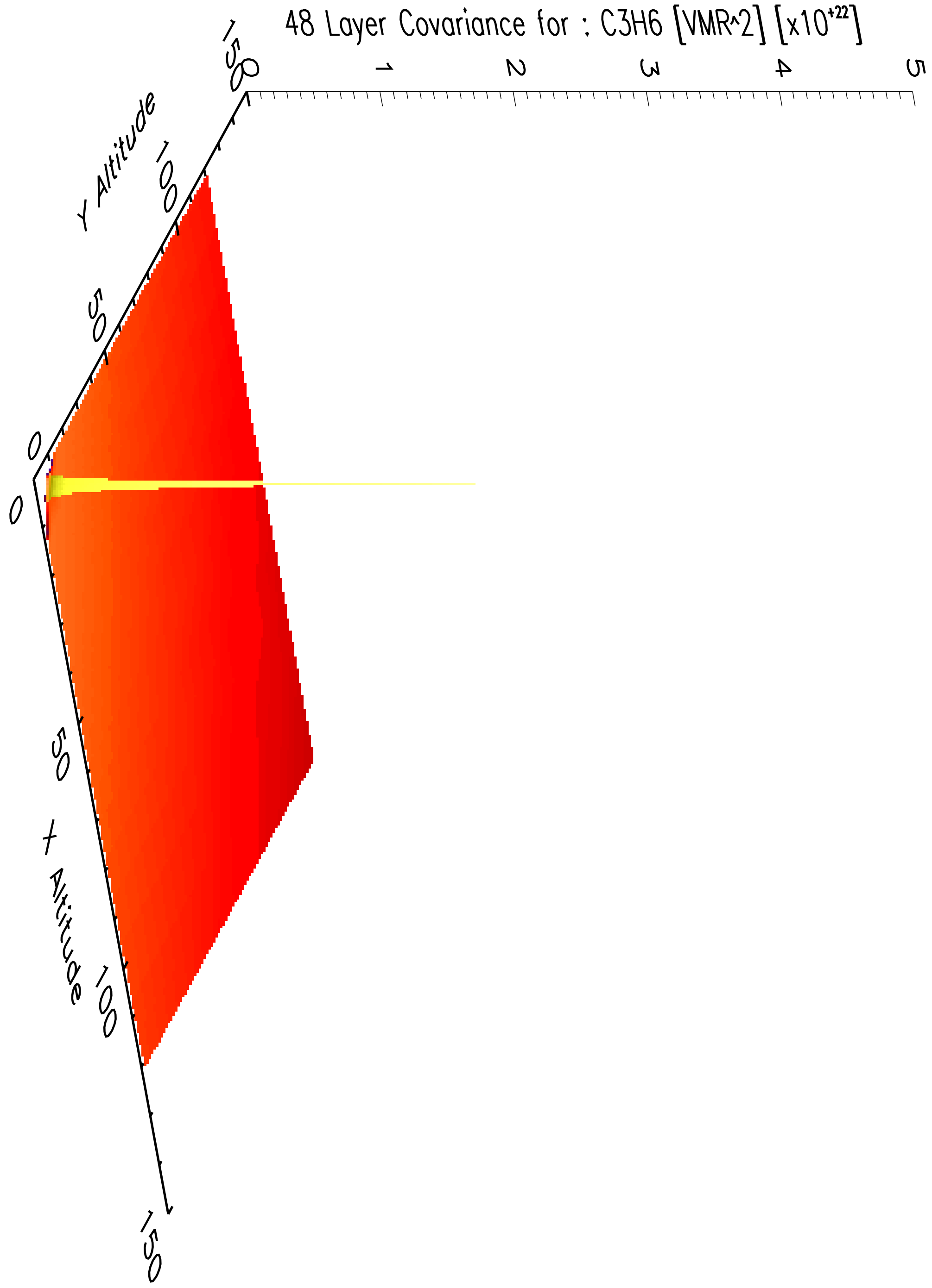


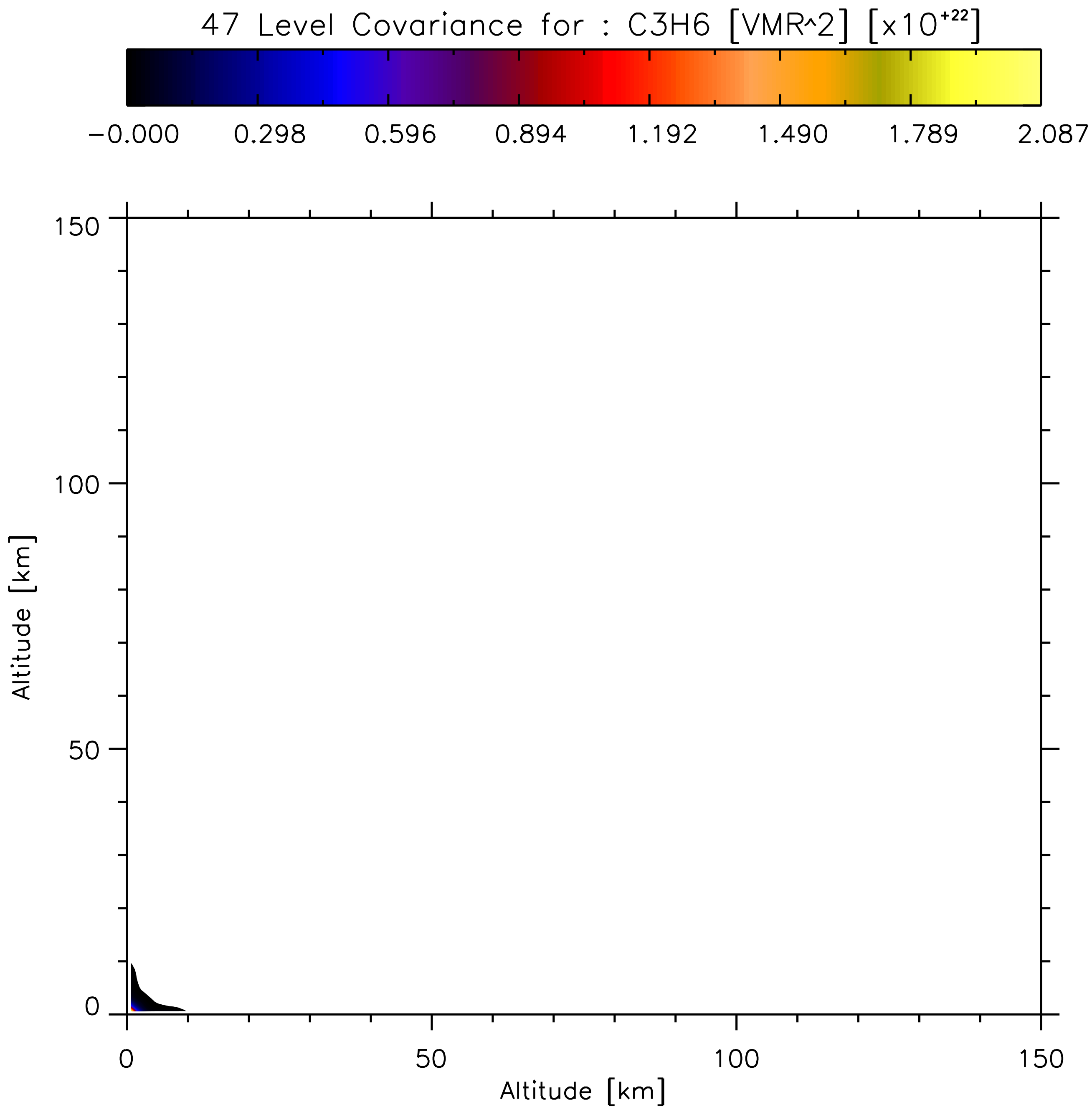
Initial & Interpolated profiles by month for : 2020
Kiruna 67.3N 20.0E

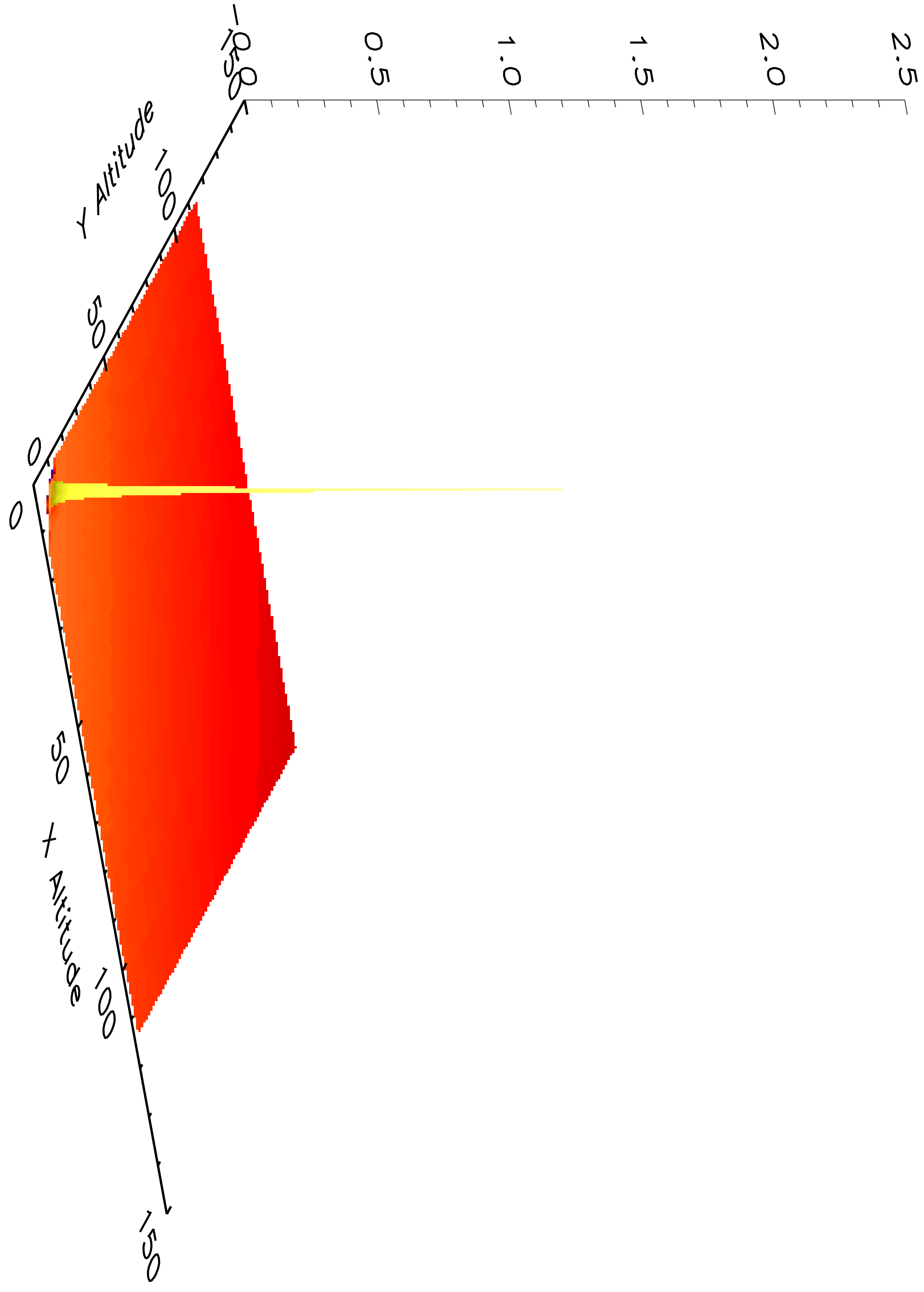

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10×10^{-41}
10×10^{-31}
10×10^{-21}
10×10^{-11}
10×10^{-1}
Mixing Ratio


Std. Deviation
Percent Deviation
Altitude
0
20
40
60
80
100
120
10^{-40} 10^{-35} 10^{-30} 10^{-25} 10^{-20} 10^{-15} 10^{-10}
SD
0
500
1000
1500
%
Station Grid
REFMOD Grid


48 Layer Covariance for : C3H6 [VMR^2] [x10^{+22}]
-0.000
0.569
1.138
1.707
2.276
2.846
3.415
3.984
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : C3H6 [VMR^2] [x10^{+22}]
0
1
2
3
4
5
Y Altitude
0
50
100
150
X Altitude
0
50
100
150


47 Level Covariance for : C3H6 [VMR^2] [x10^{+22}]
−0.000
0.298
0.596
0.894
1.192
1.490
1.789
2.087
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

47 Level Covariance for : C3H6 [VMR^2] [$x10^{+22}$]