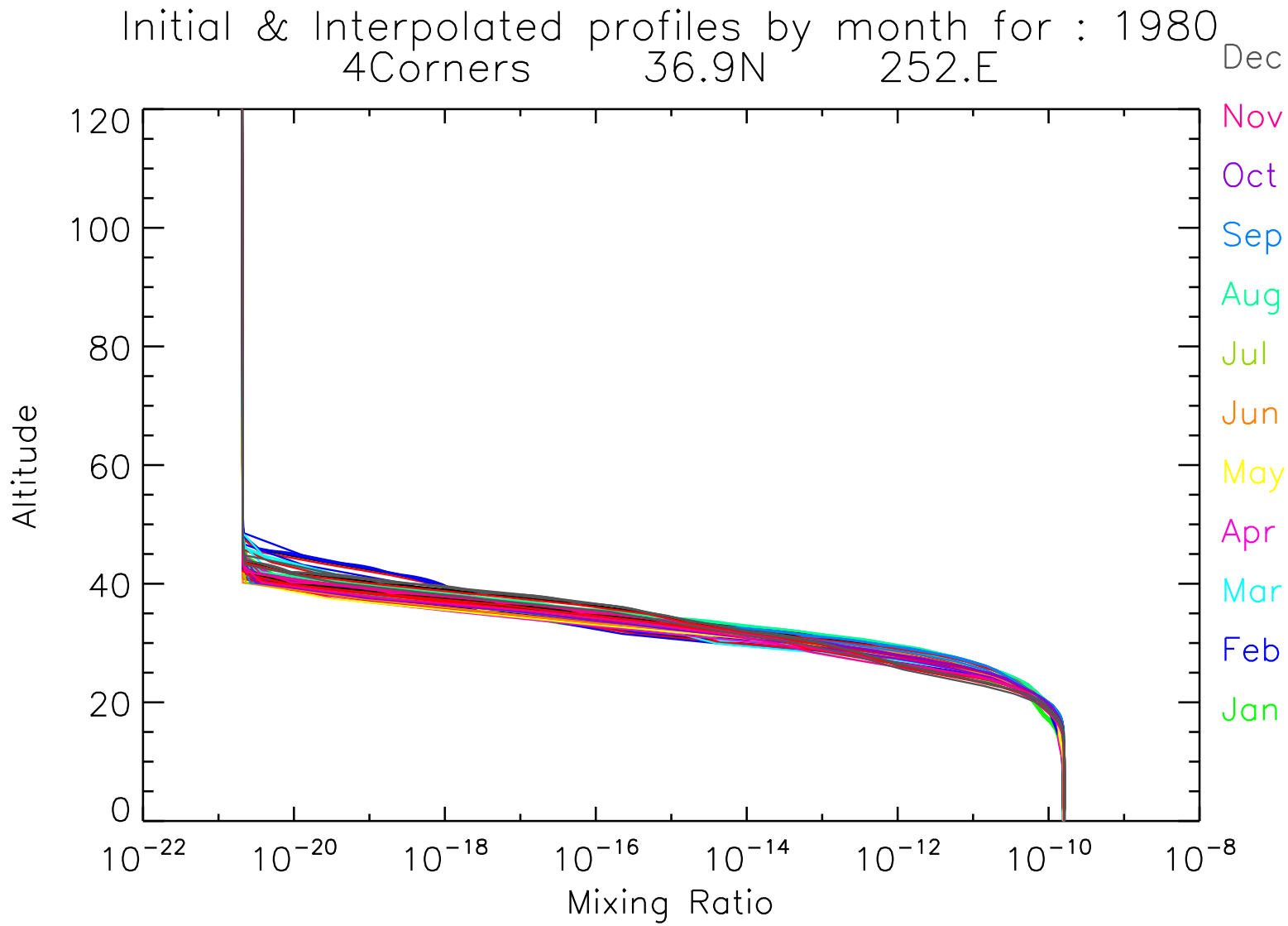
Initial & Interpolated profiles by month for : 1980
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
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Feb
Jan
Altitude
120
100
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40
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10^{-16}
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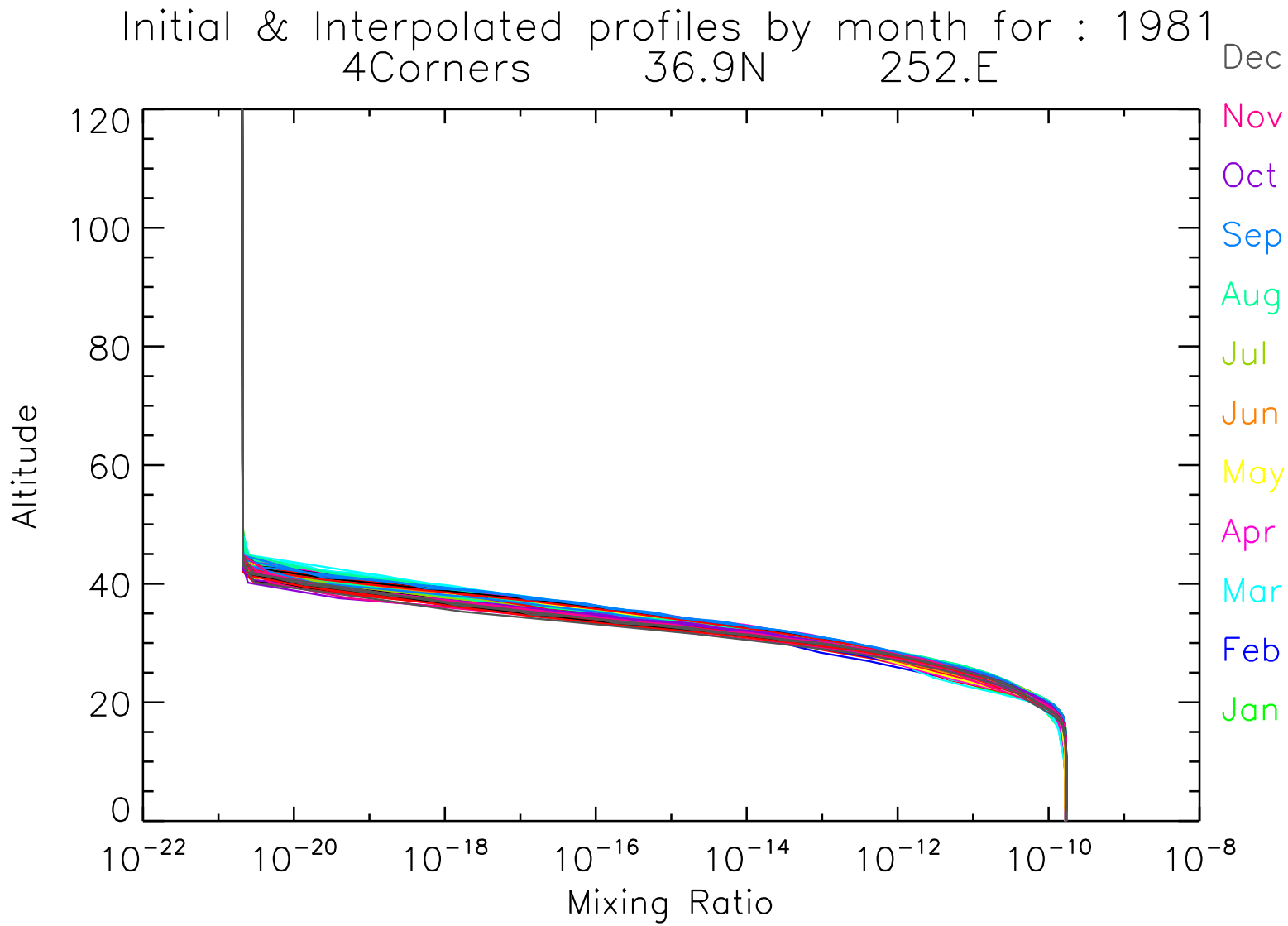
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
4Corners 36.9N 252.E
Dec
Nov
Oct
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Aug
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May
Apr
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Feb
Jan
Altitude
120
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10^{-16}
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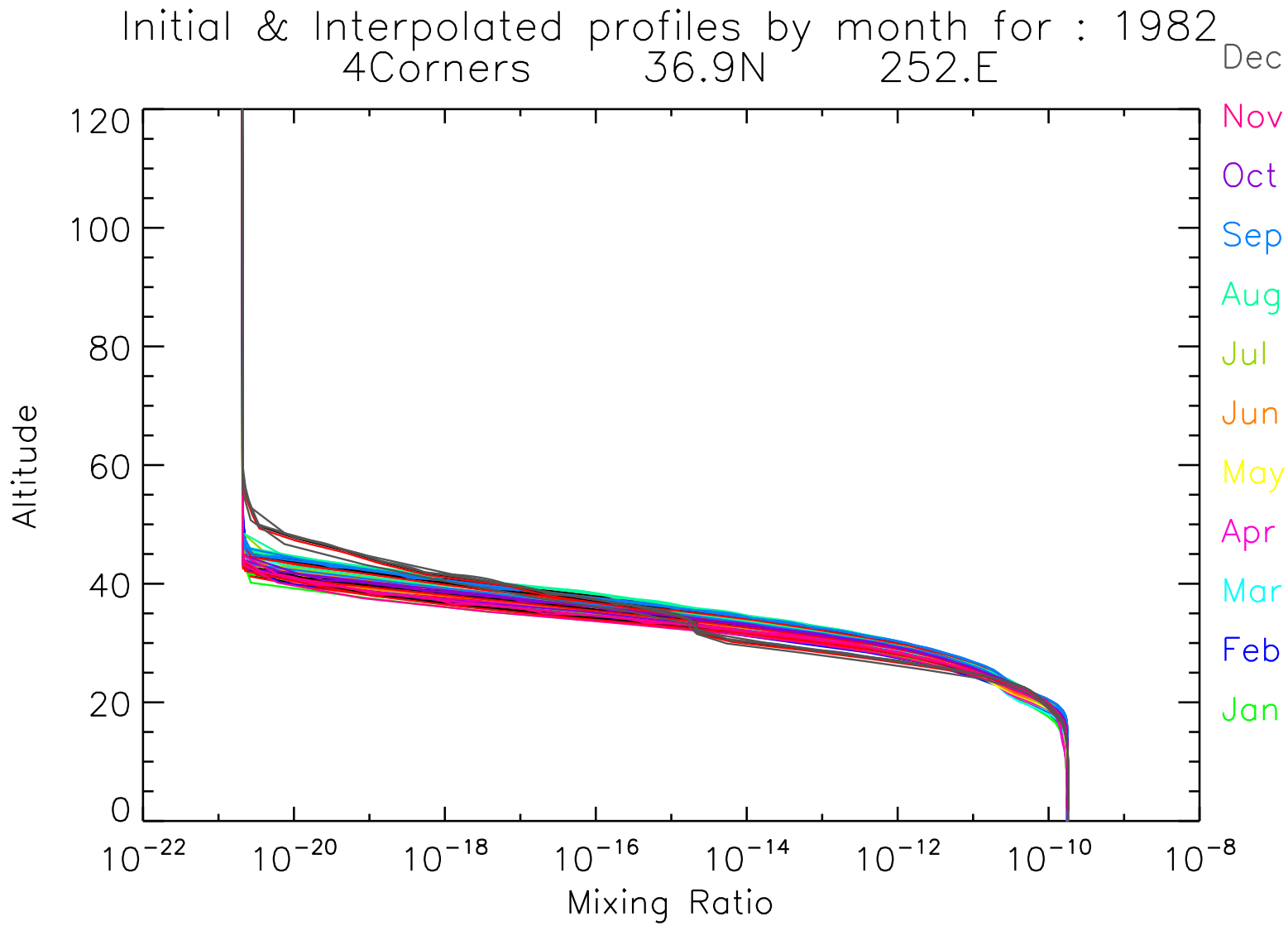
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
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May
Apr
Mar
Feb
Jan
Altitude
120
100
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10^{-16}
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10^{-12}
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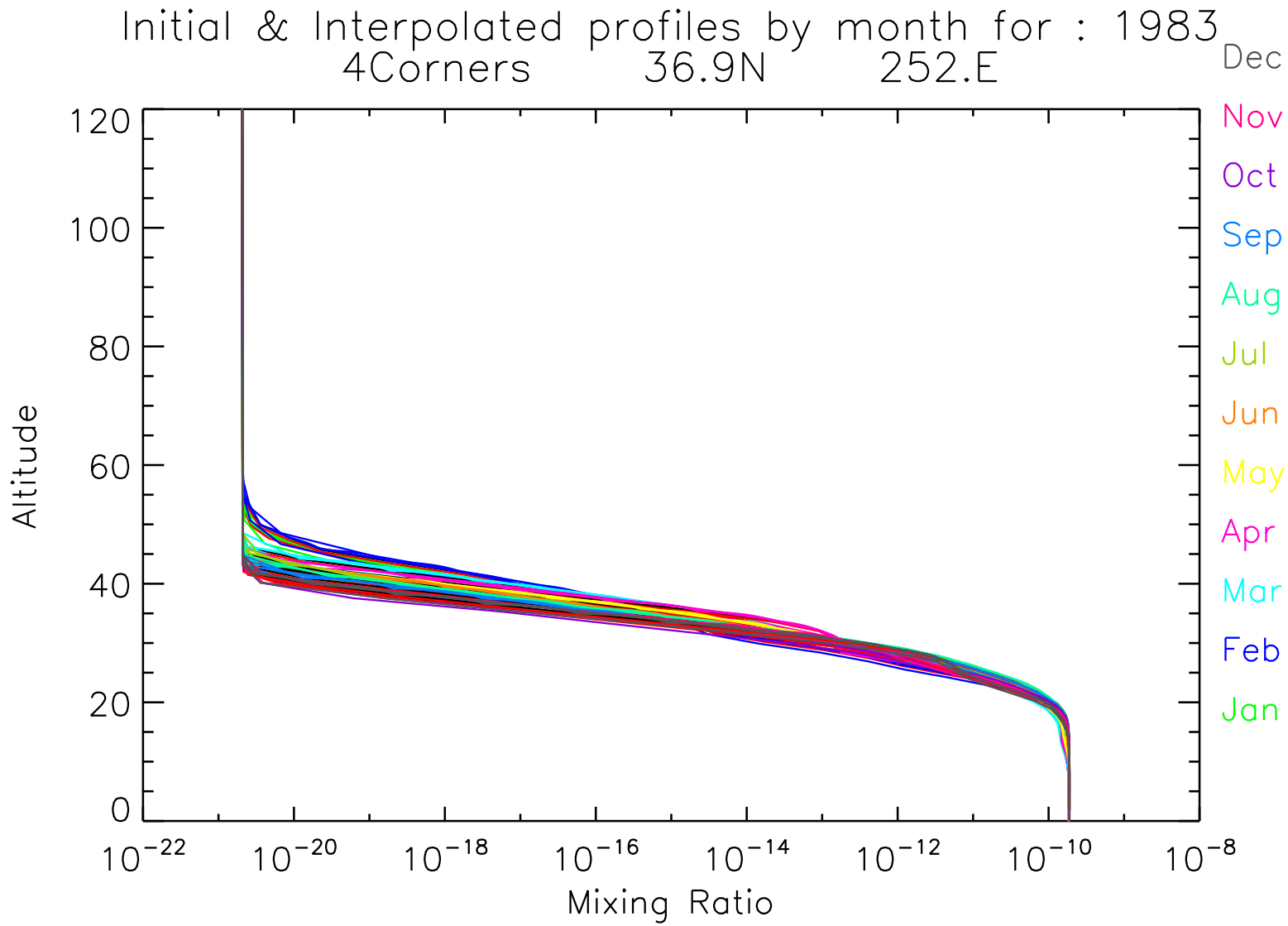
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
4Corners 36.9N 252.E
Dec
Nov
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May
Apr
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Feb
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Altitude
120
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20
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10^{-16}
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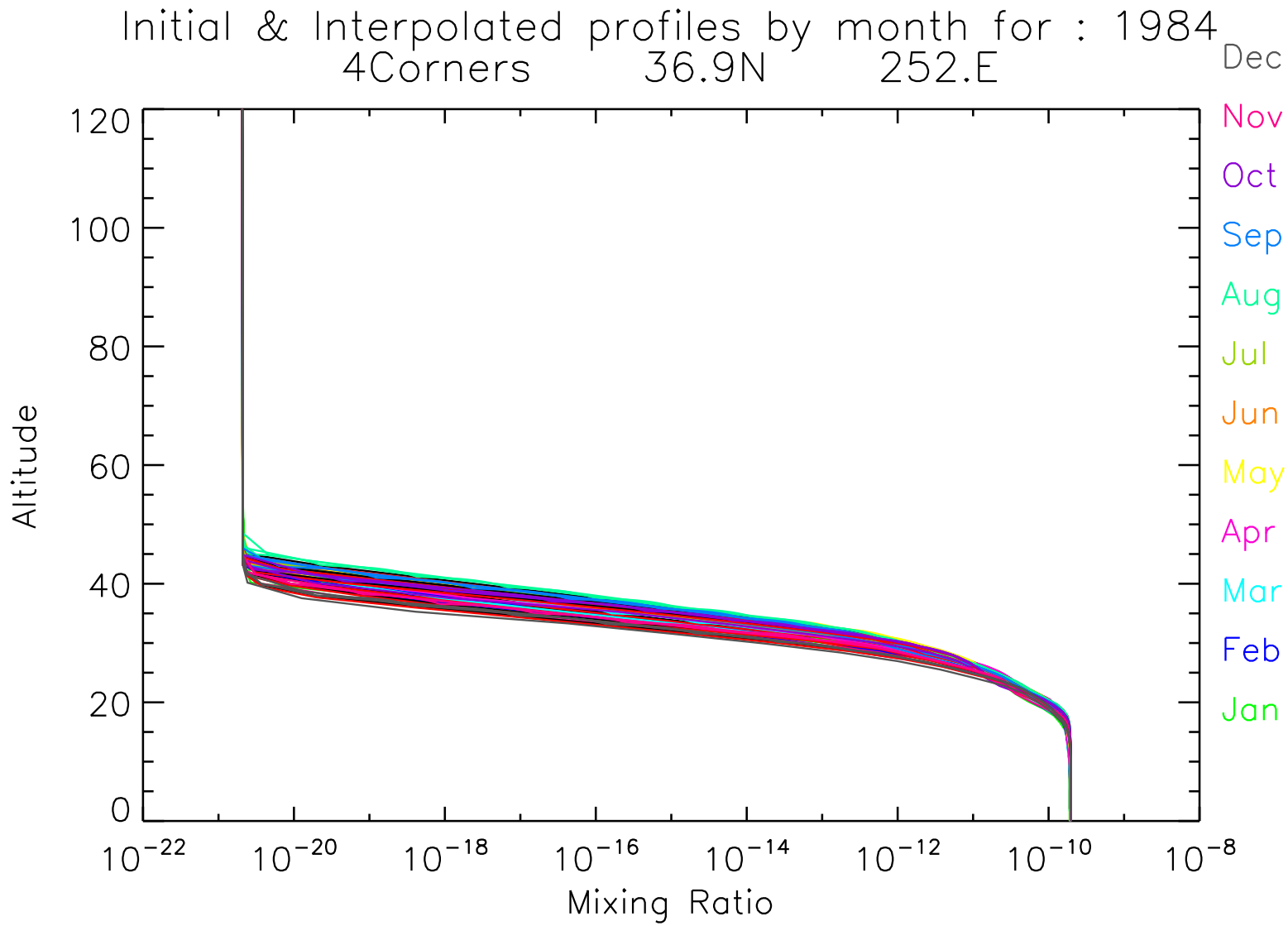
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
4Corners 36.9N 252.E
Dec
Nov
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Apr
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Feb
Jan
Altitude
120
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10^{-16}
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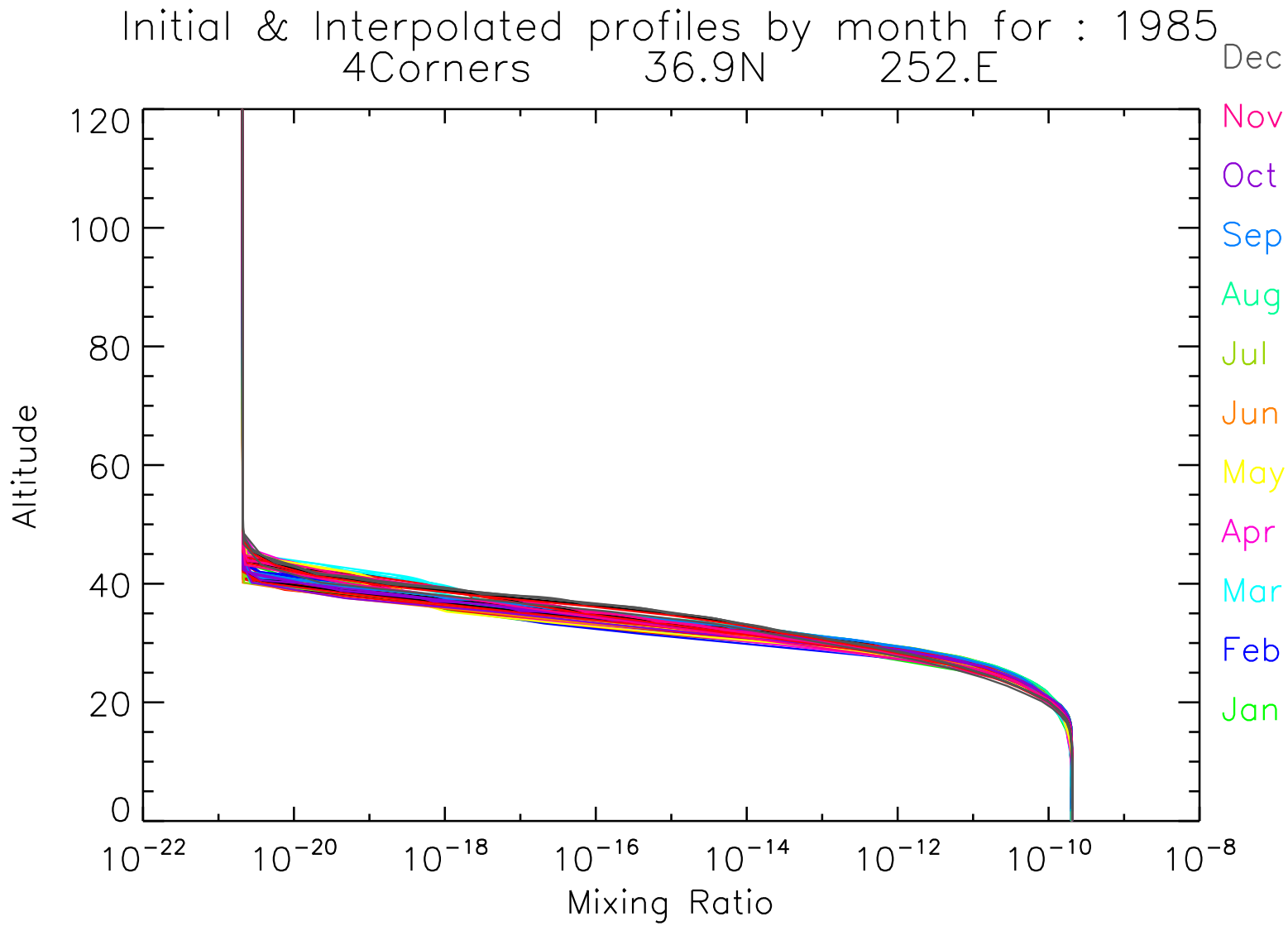
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
4Corners 36.9N 252.E
Dec
Nov
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Feb
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Altitude
120
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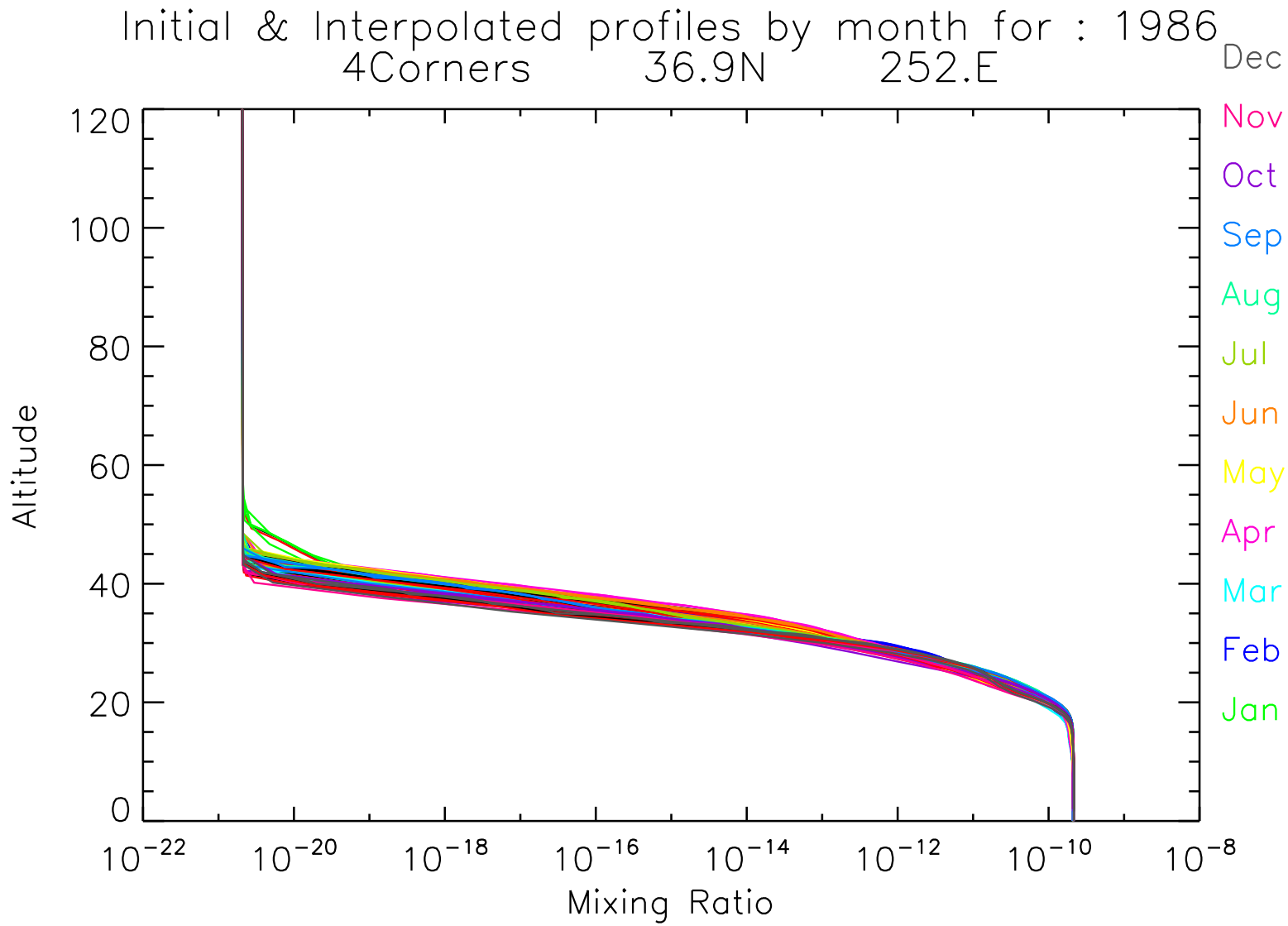
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
4Corners 36.9N 252.E
Dec
Nov
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Feb
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Altitude
120
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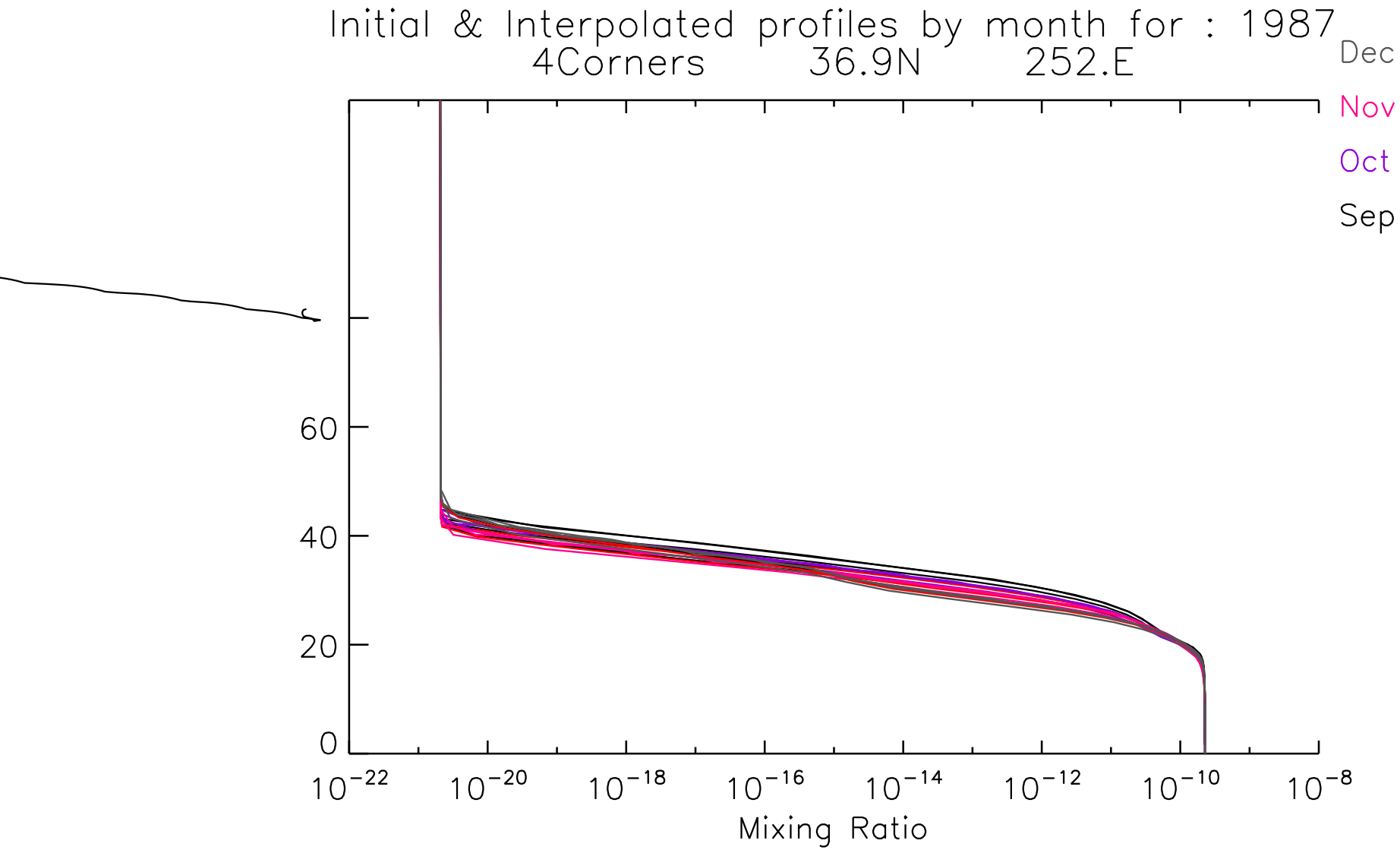
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
4Corners 36.9N 252.E
Dec
Nov
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Sep
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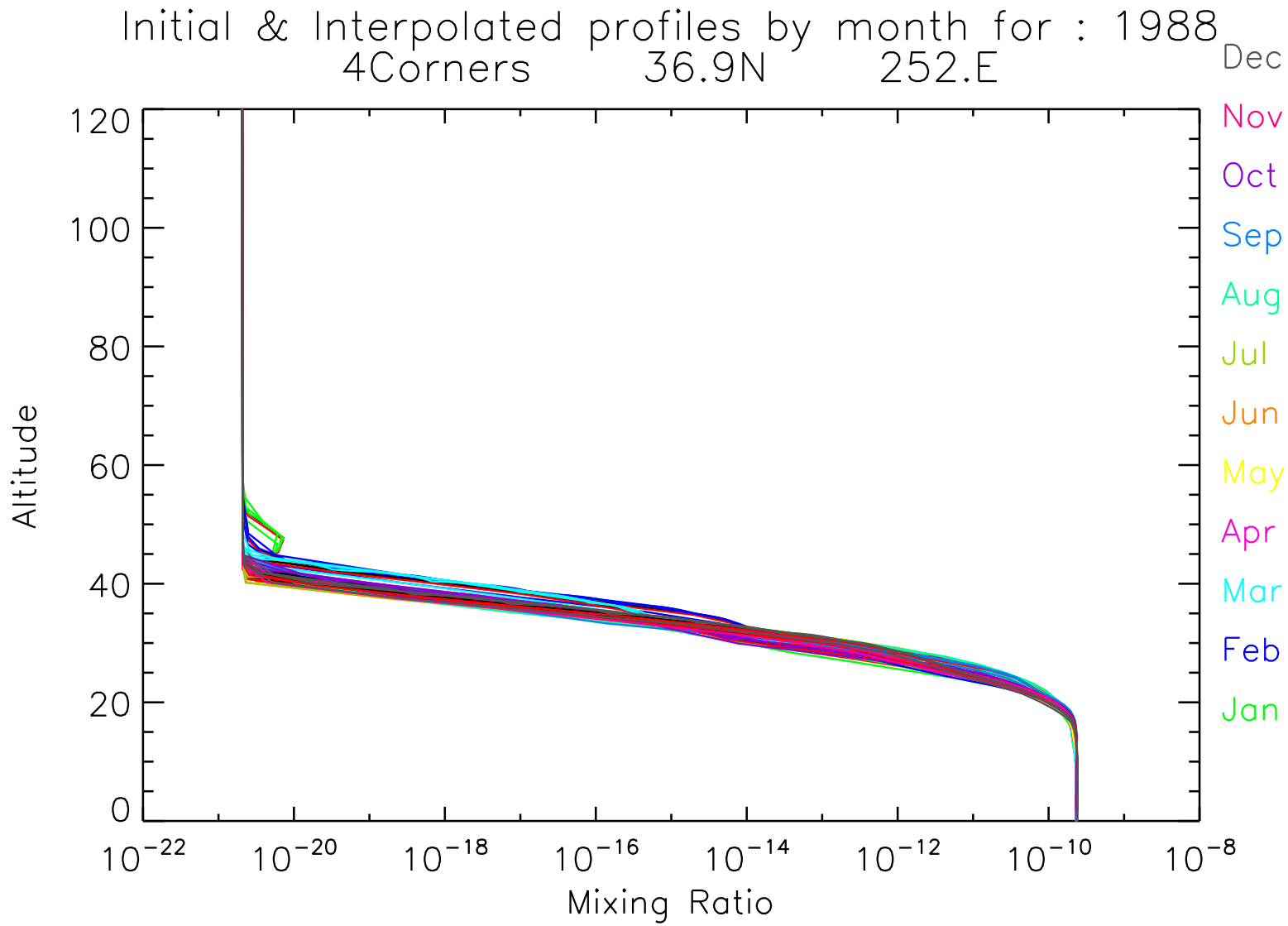
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
4Corners 36.9N 252.E
Dec
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Altitude
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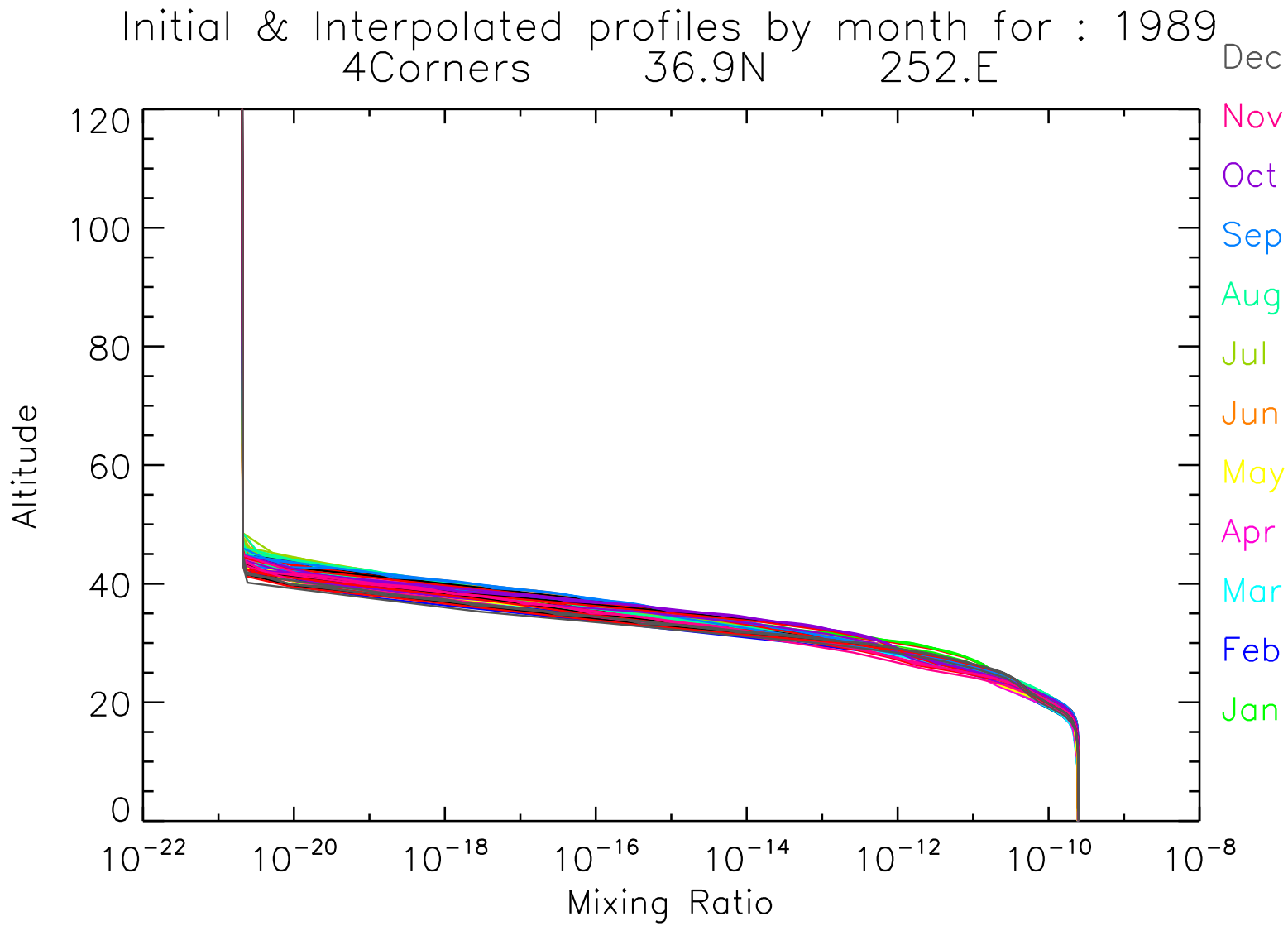
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
4Corners 36.9N 252.E
Dec
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Altitude
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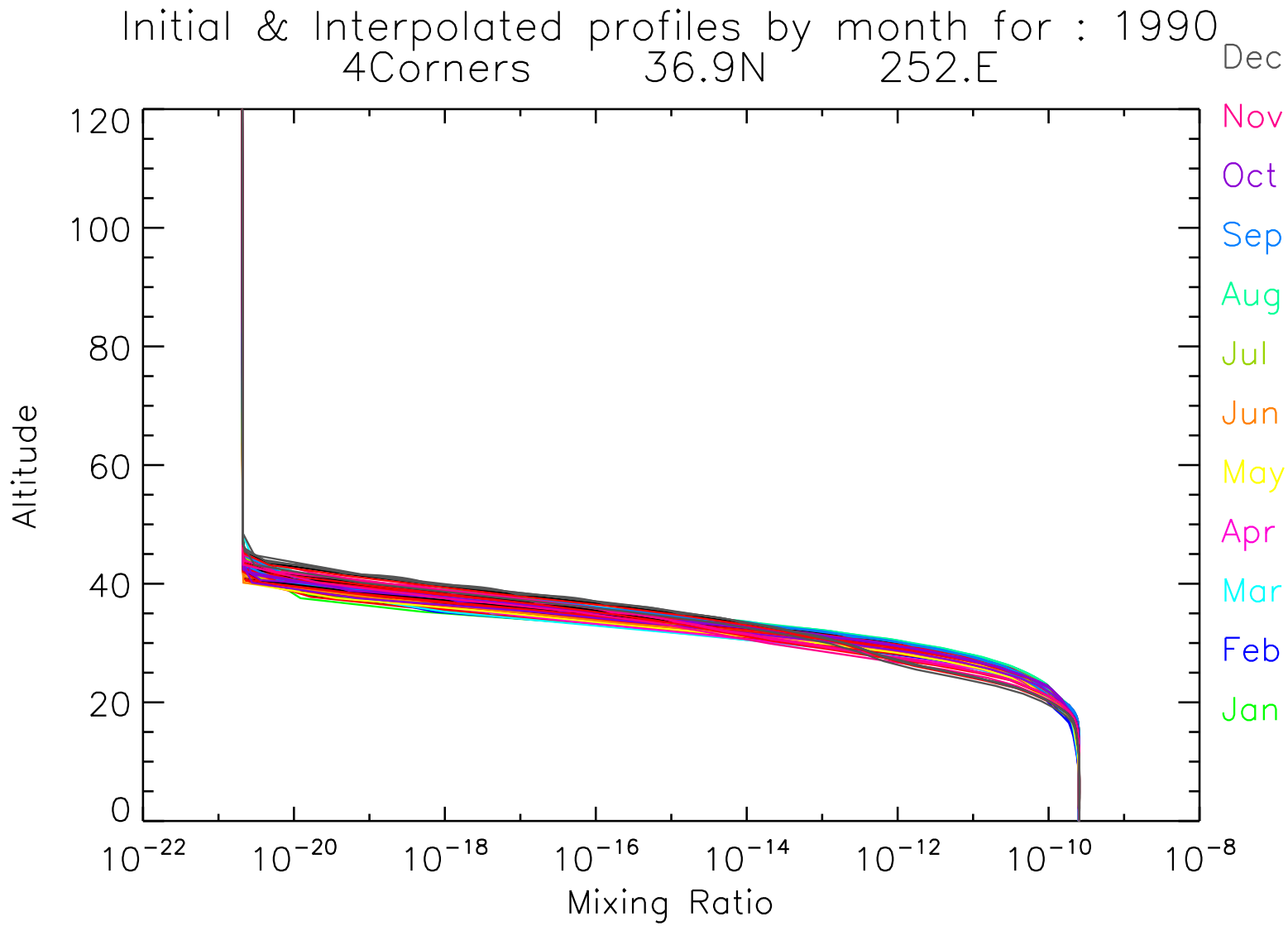
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
4Corners 36.9N 252.E
Dec
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Altitude
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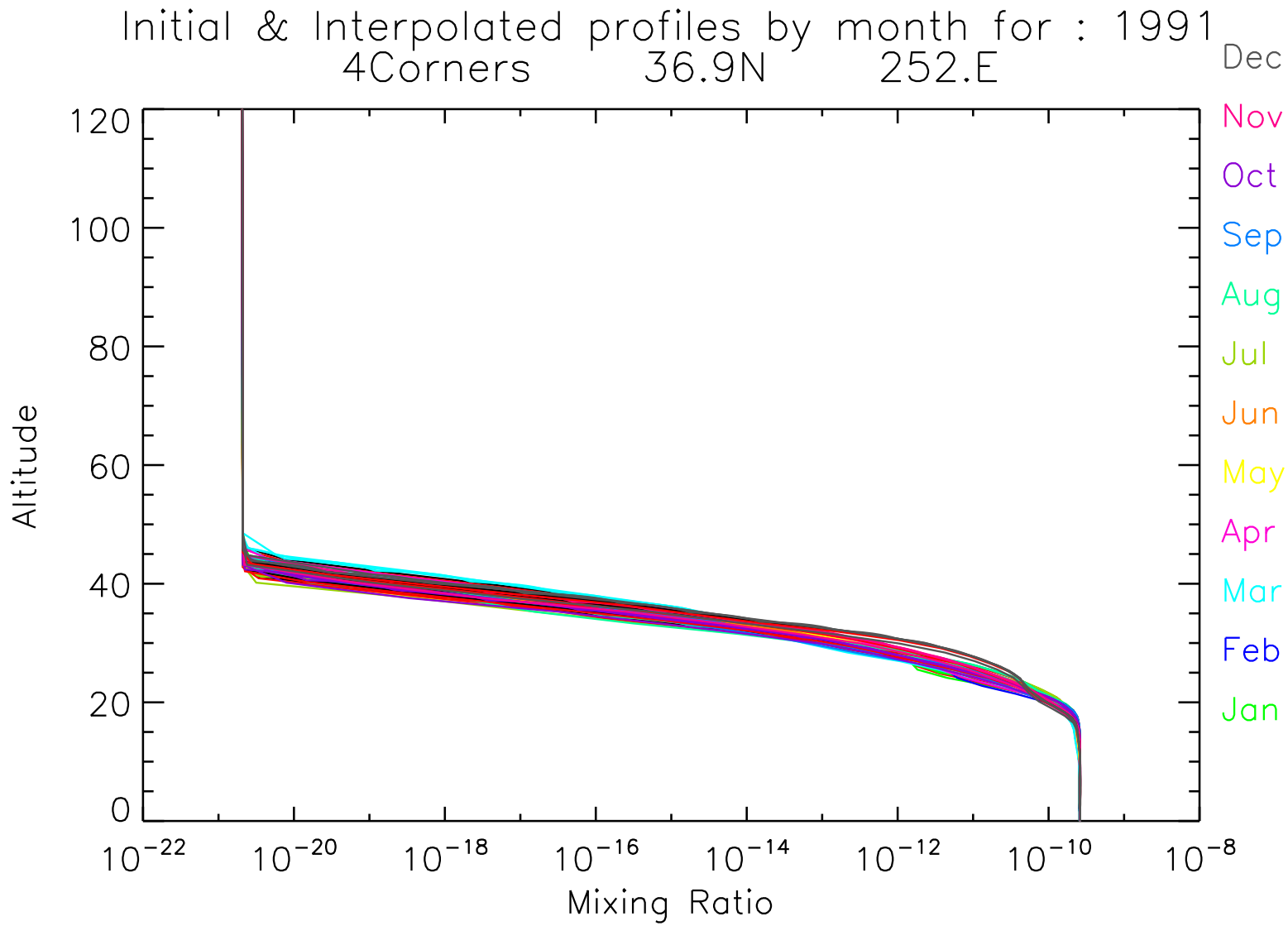
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
4Corners 36.9N 252.E
Dec
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Altitude
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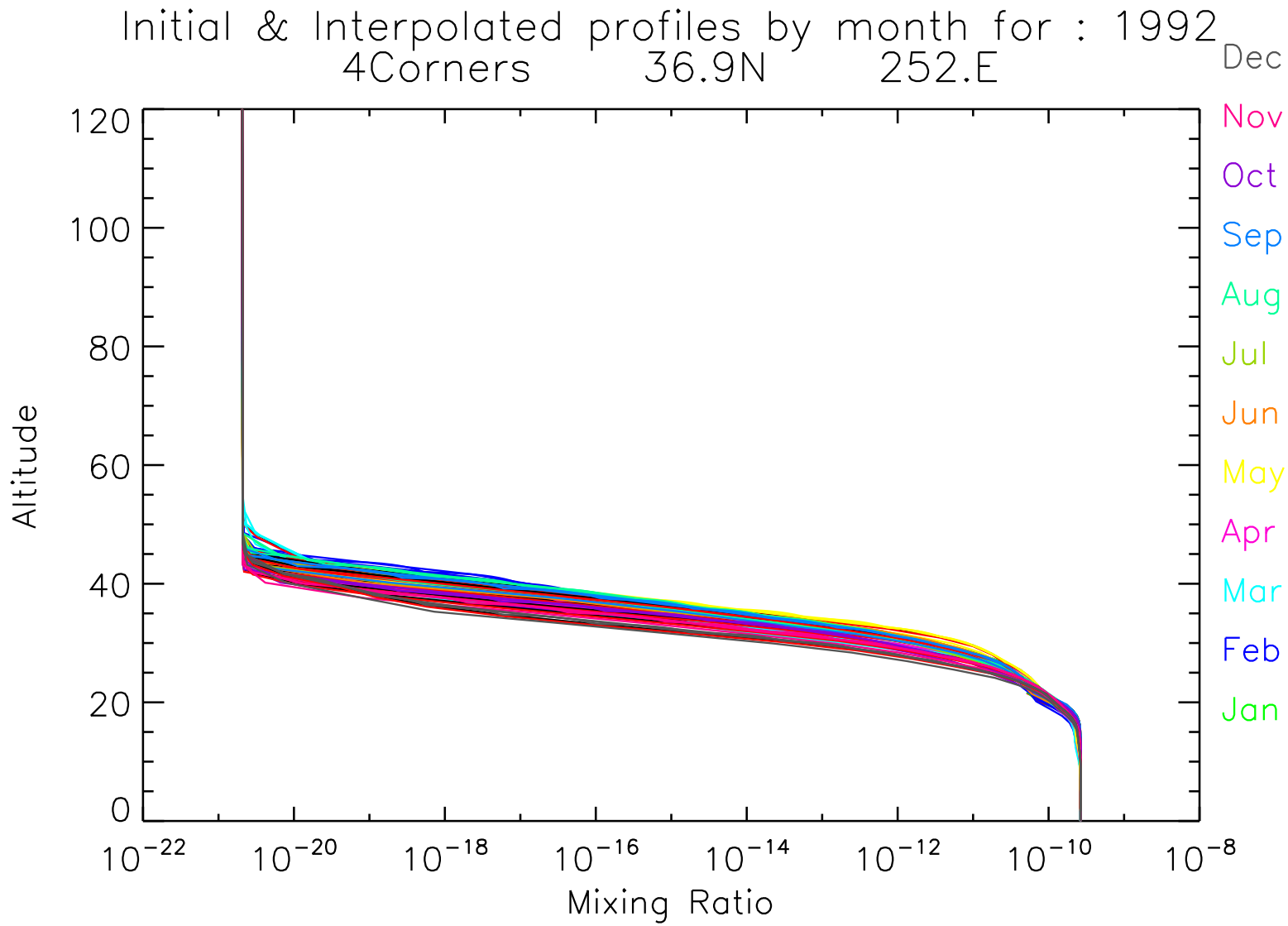
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
4Corners 36.9N 252.E
Dec
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Altitude
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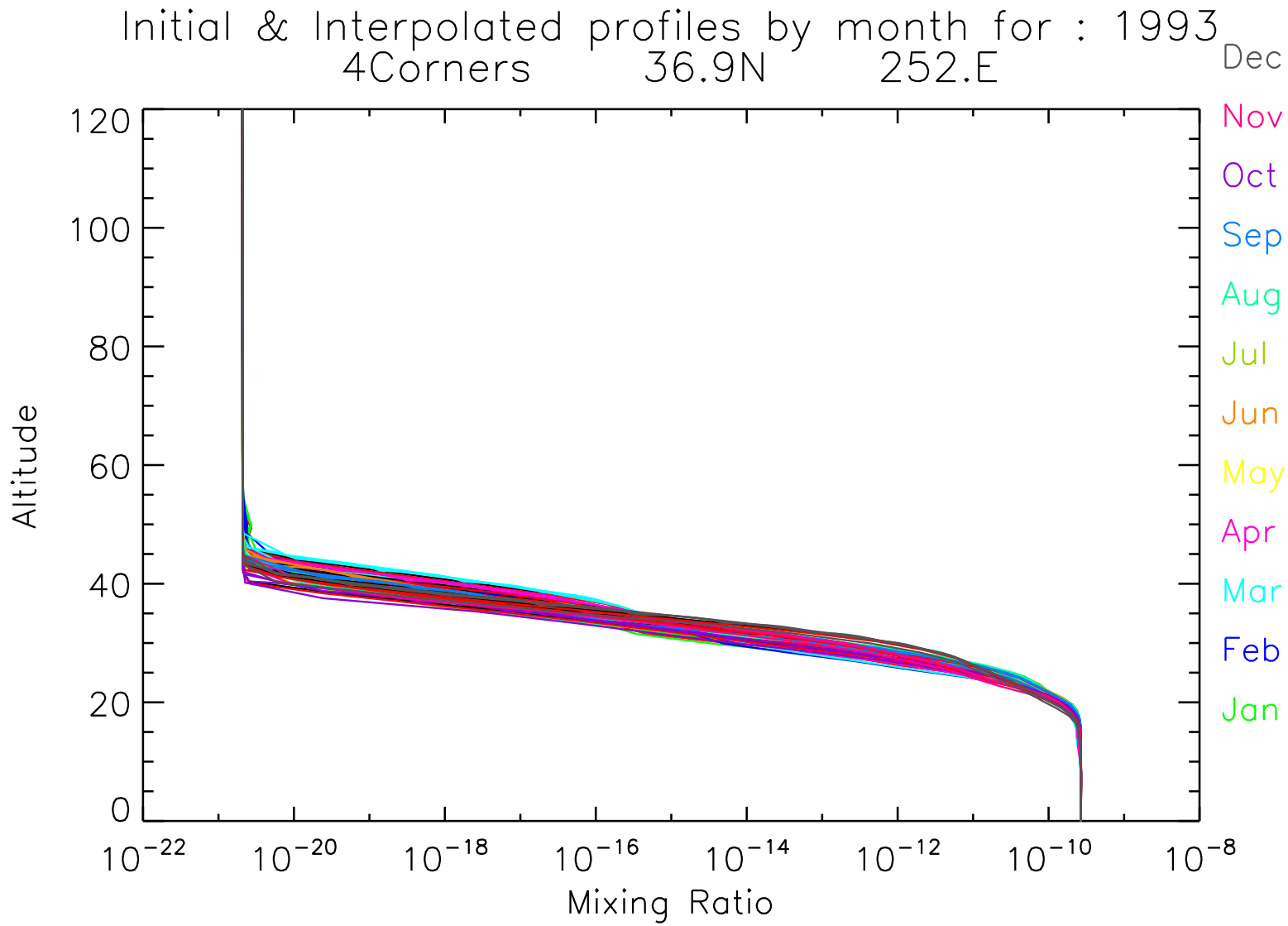
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
4Corners 36.9N 252.E
Dec
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Altitude
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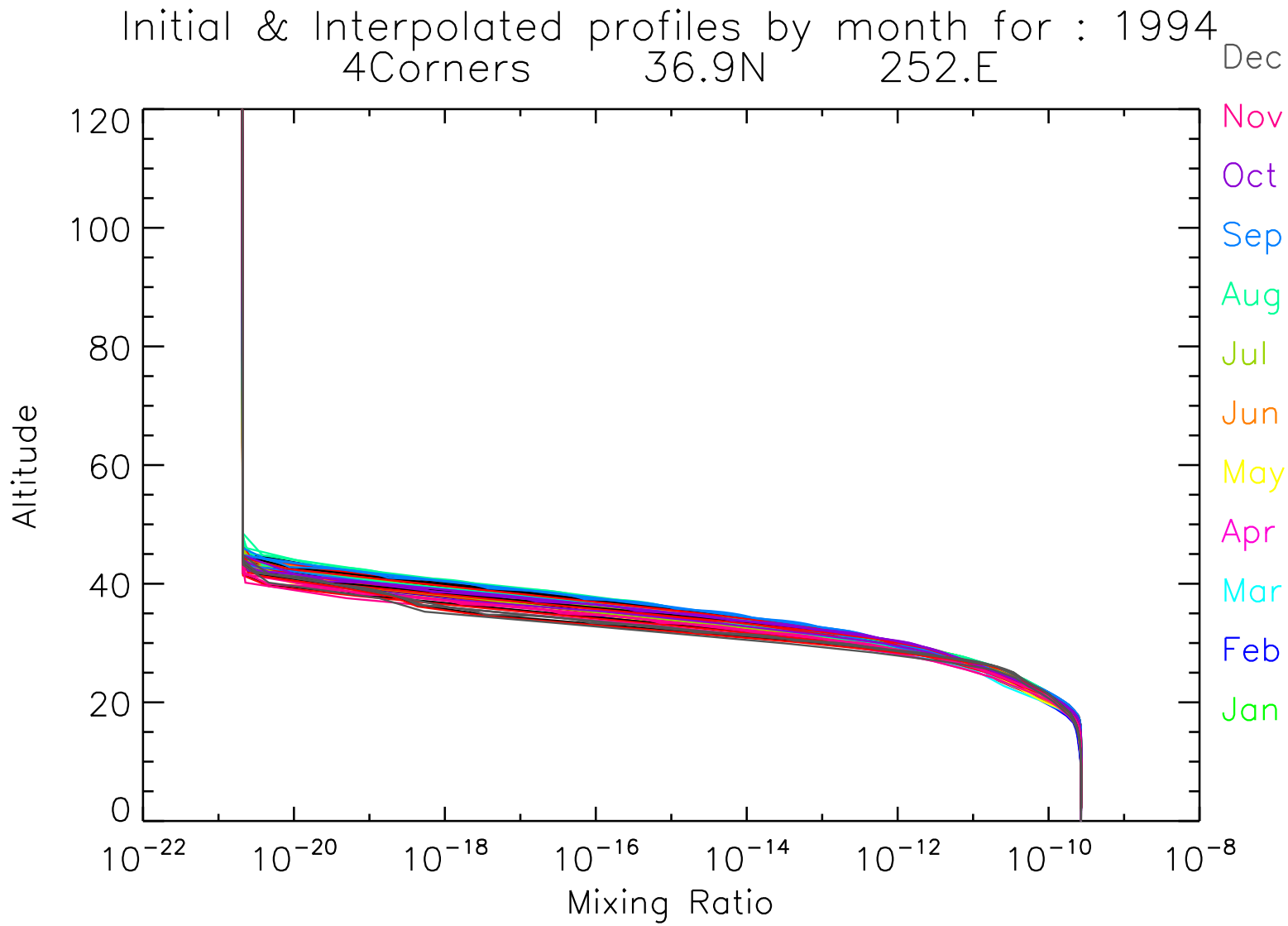
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
4Corners 36.9N 252.E
Dec
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Altitude
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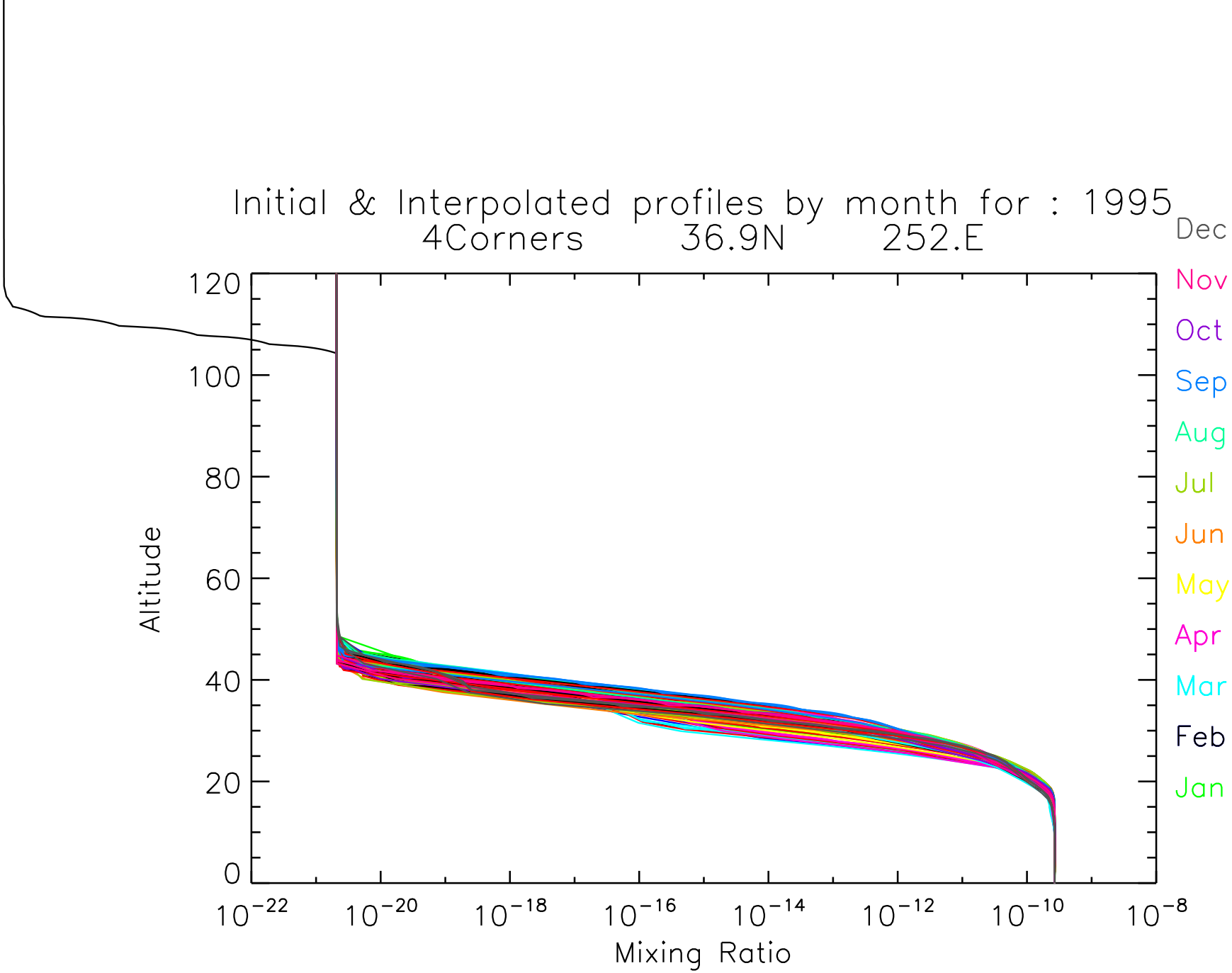
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
4Corners 36.9N 252.E
Dec
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Jan
120
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Altitude
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10^{-12}
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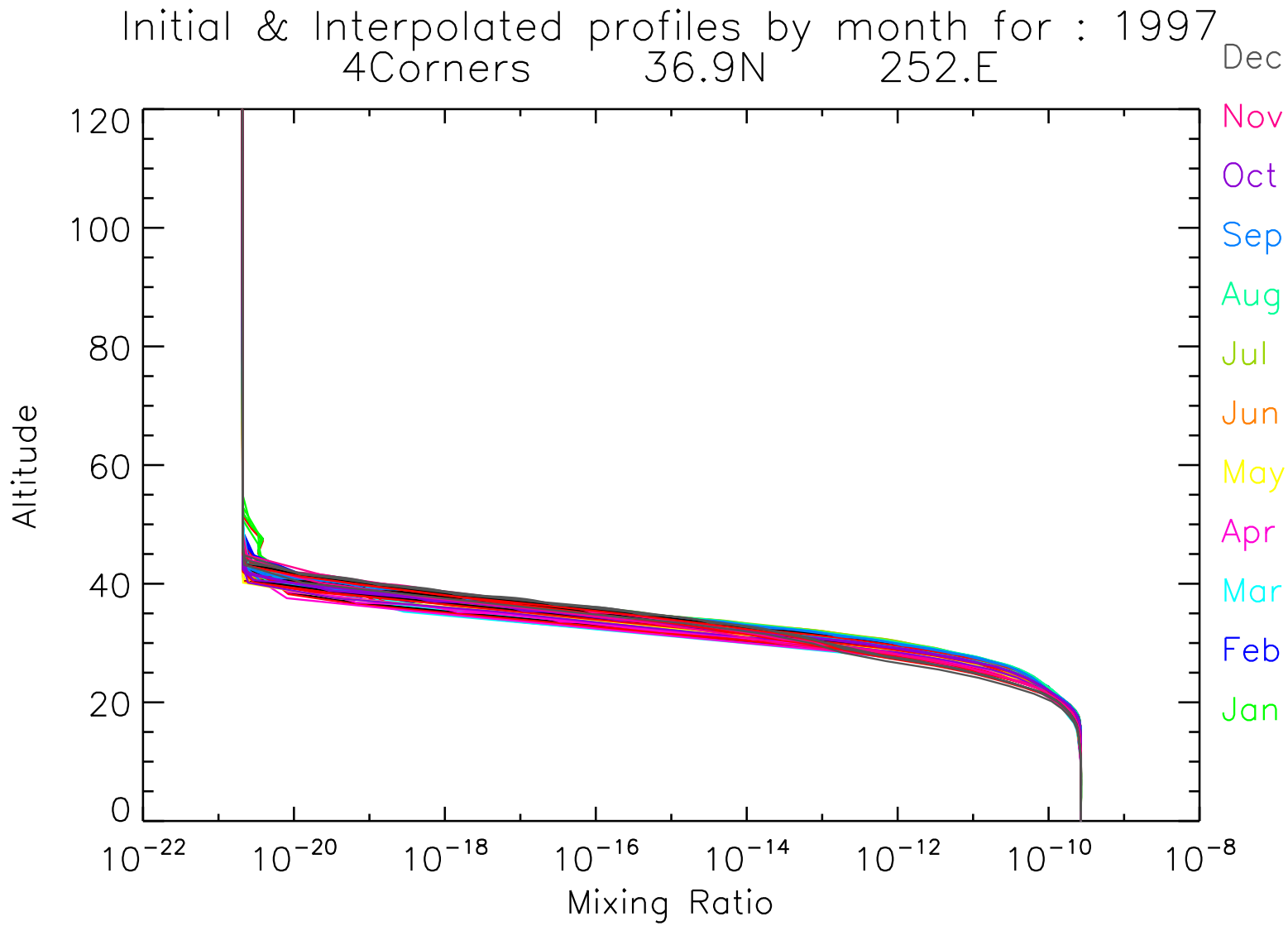
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
4Corners 36.9N 252.E
Dec
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Altitude
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10^{-22}
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10^{-12}
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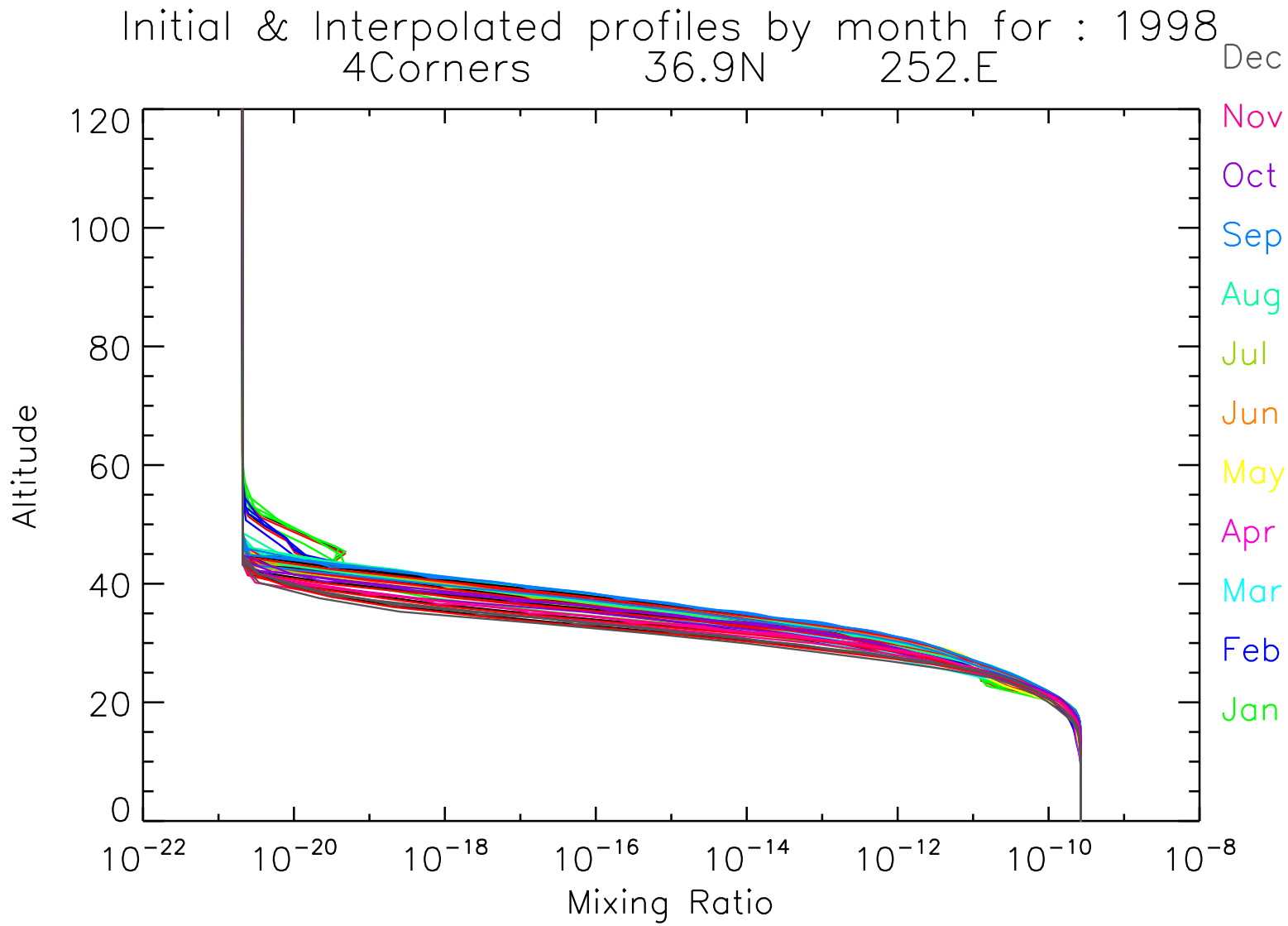
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
4Corners 36.9N 252.E
Dec
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Altitude
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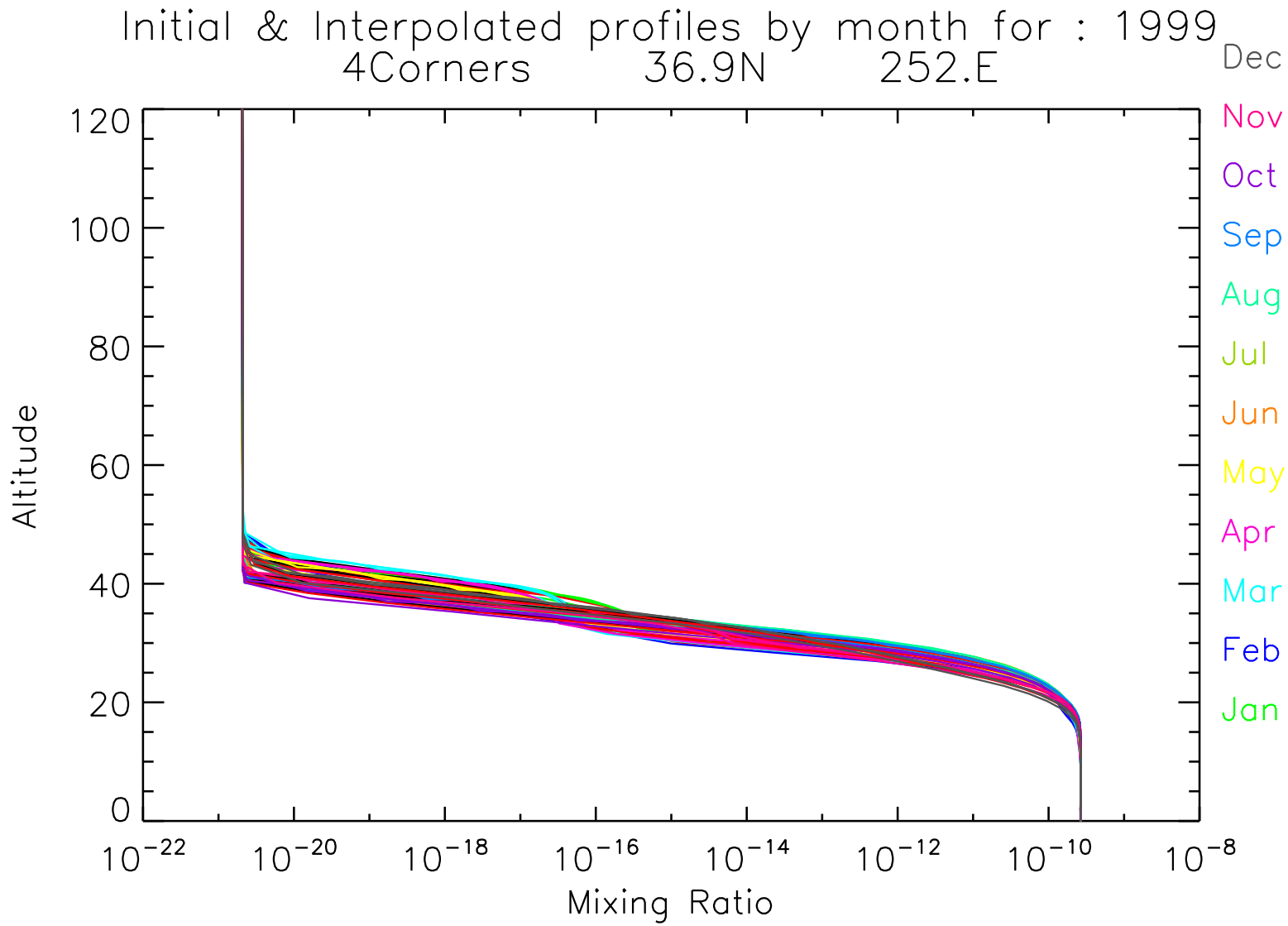
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
4Corners 36.9N 252.E
Dec
Nov
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Altitude
120
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10^{-12}
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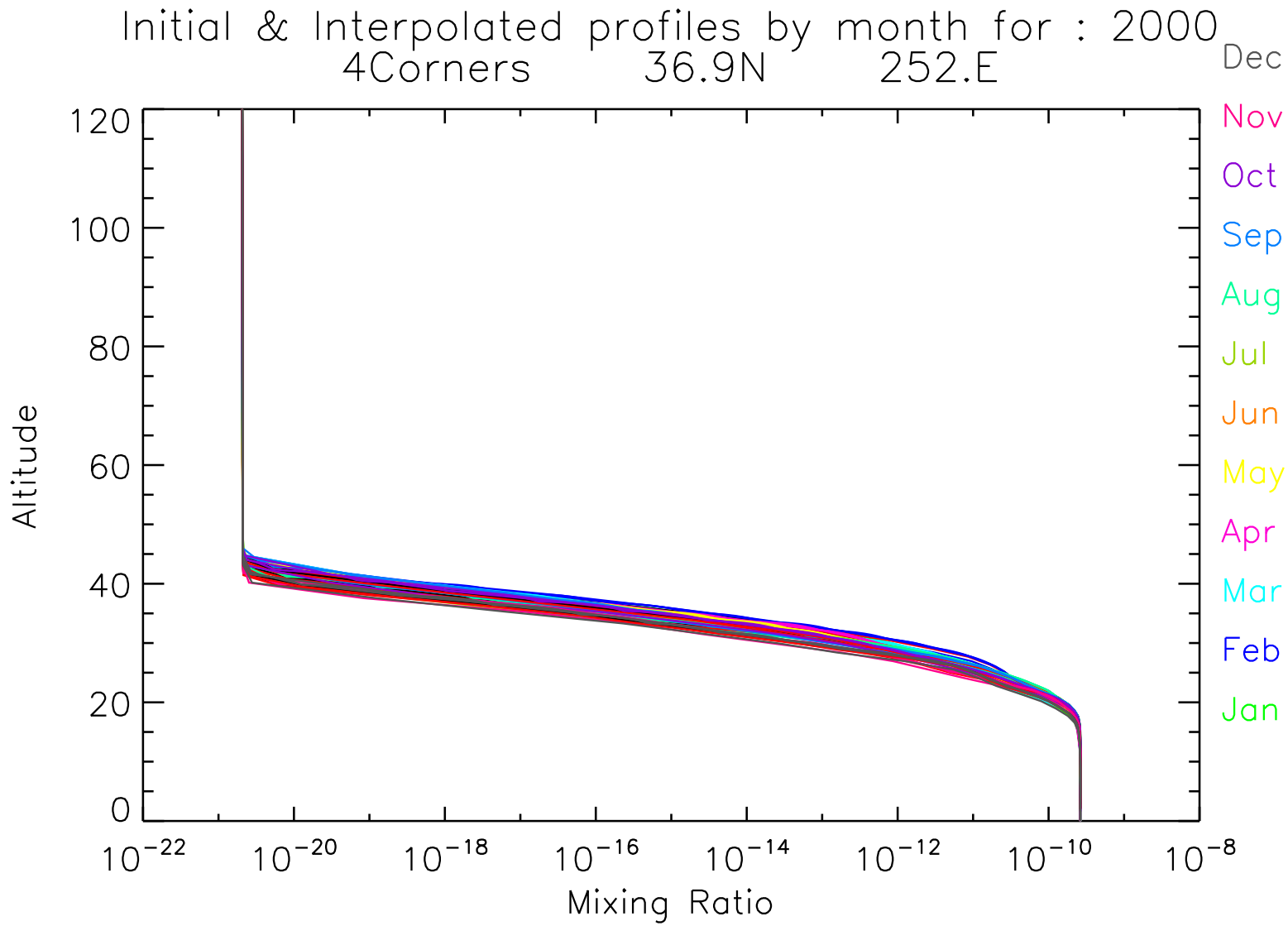
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
4Corners 36.9N 252.E
Dec
Nov
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Feb
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Altitude
120
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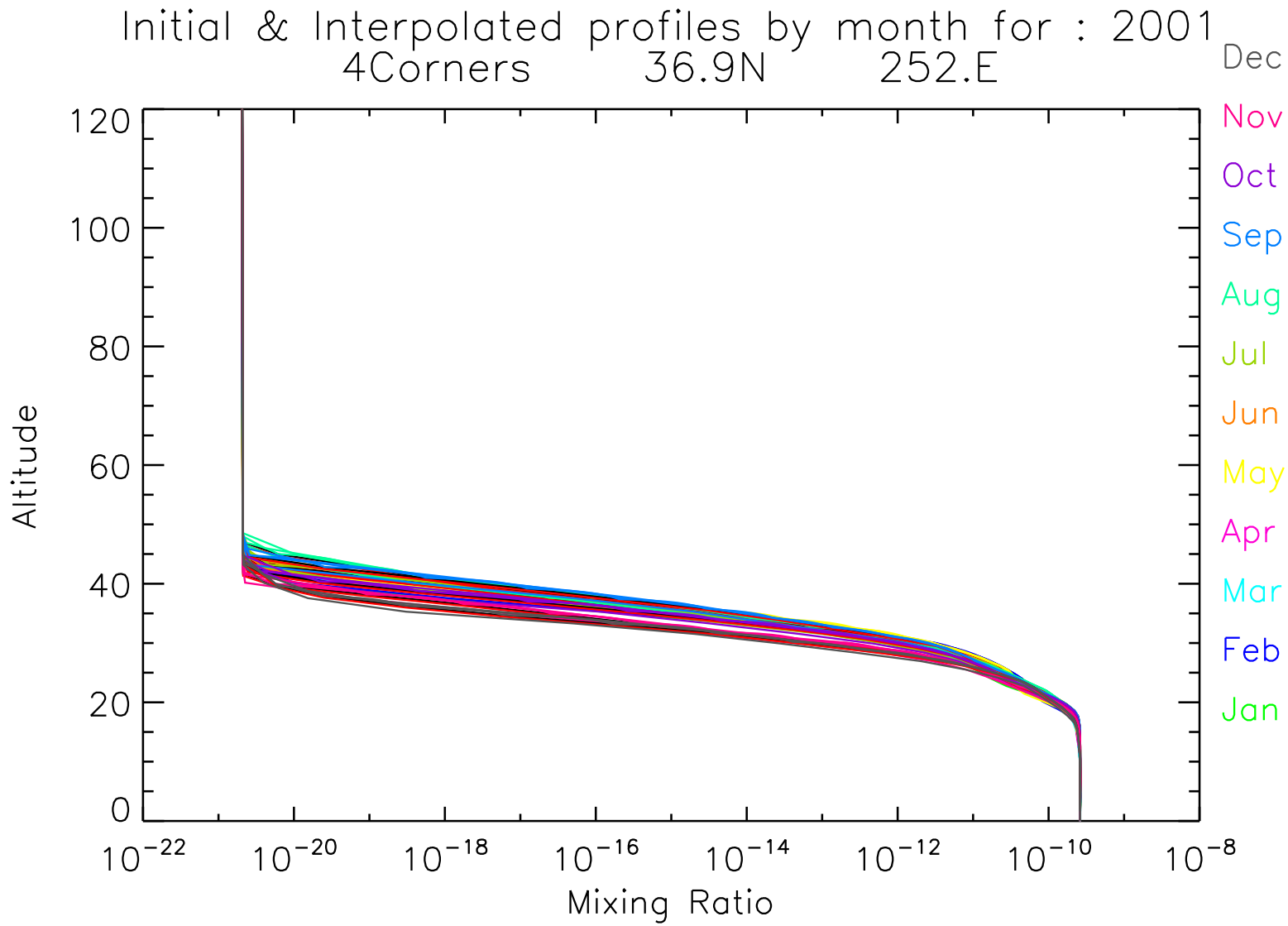
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
4Corners 36.9N 252.E
Dec
Nov
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Altitude
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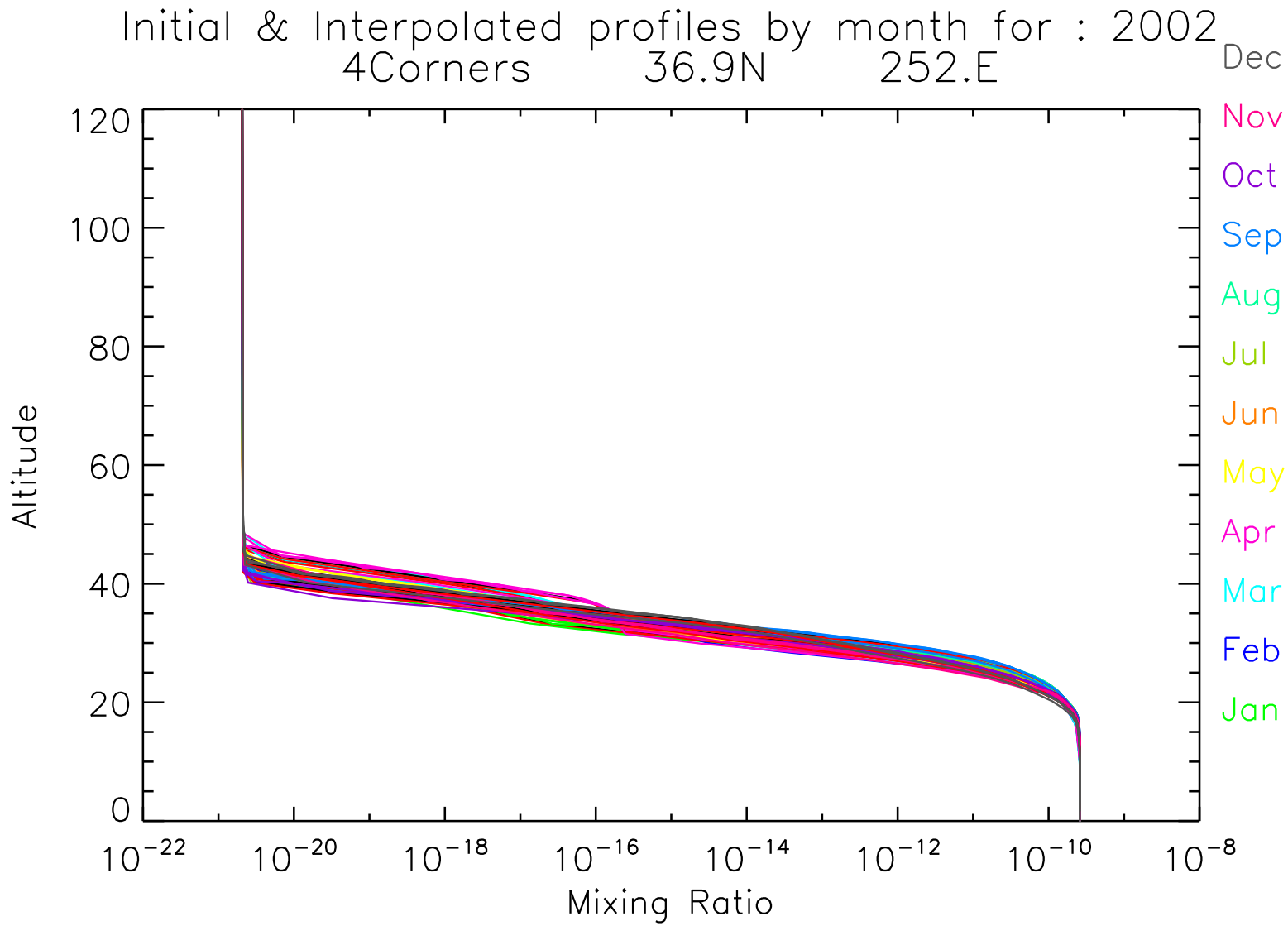
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
4Corners 36.9N 252.E
Dec
Nov
Oct
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Feb
Jan
Altitude
120
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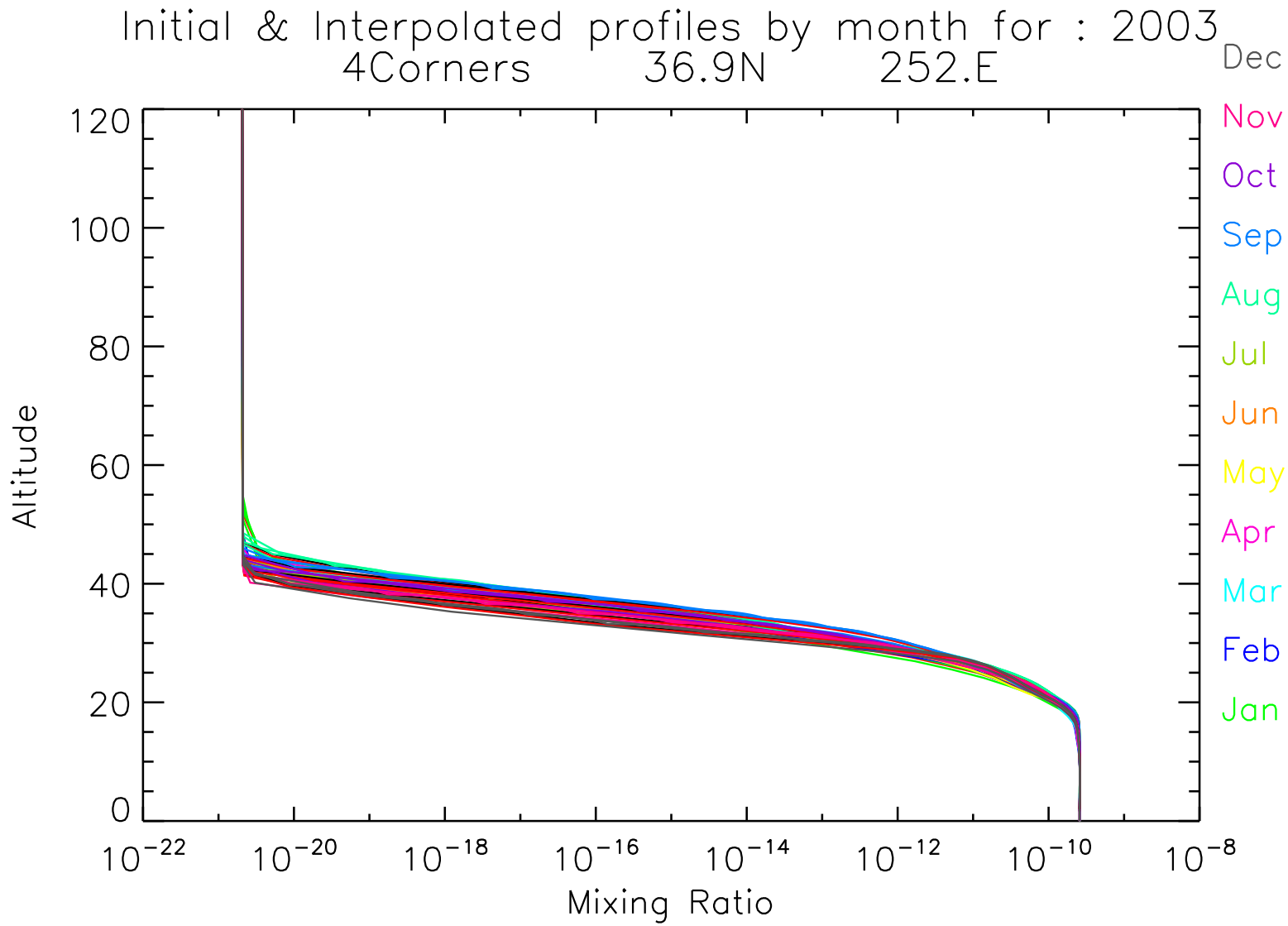
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
4Corners 36.9N 252.E
Dec
Nov
Oct
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May
Apr
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Feb
Jan
Altitude
120
100
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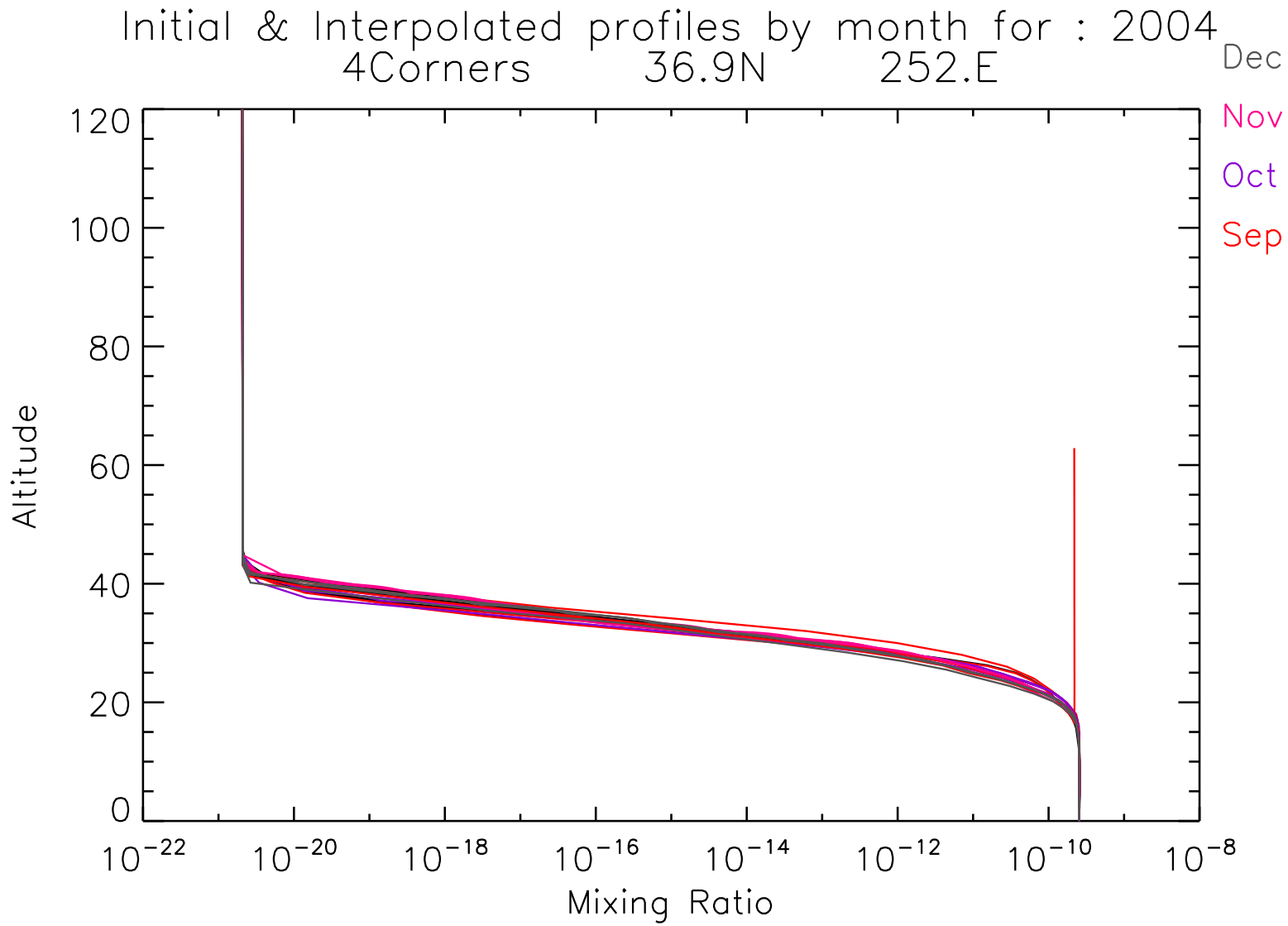
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Altitude
120
100
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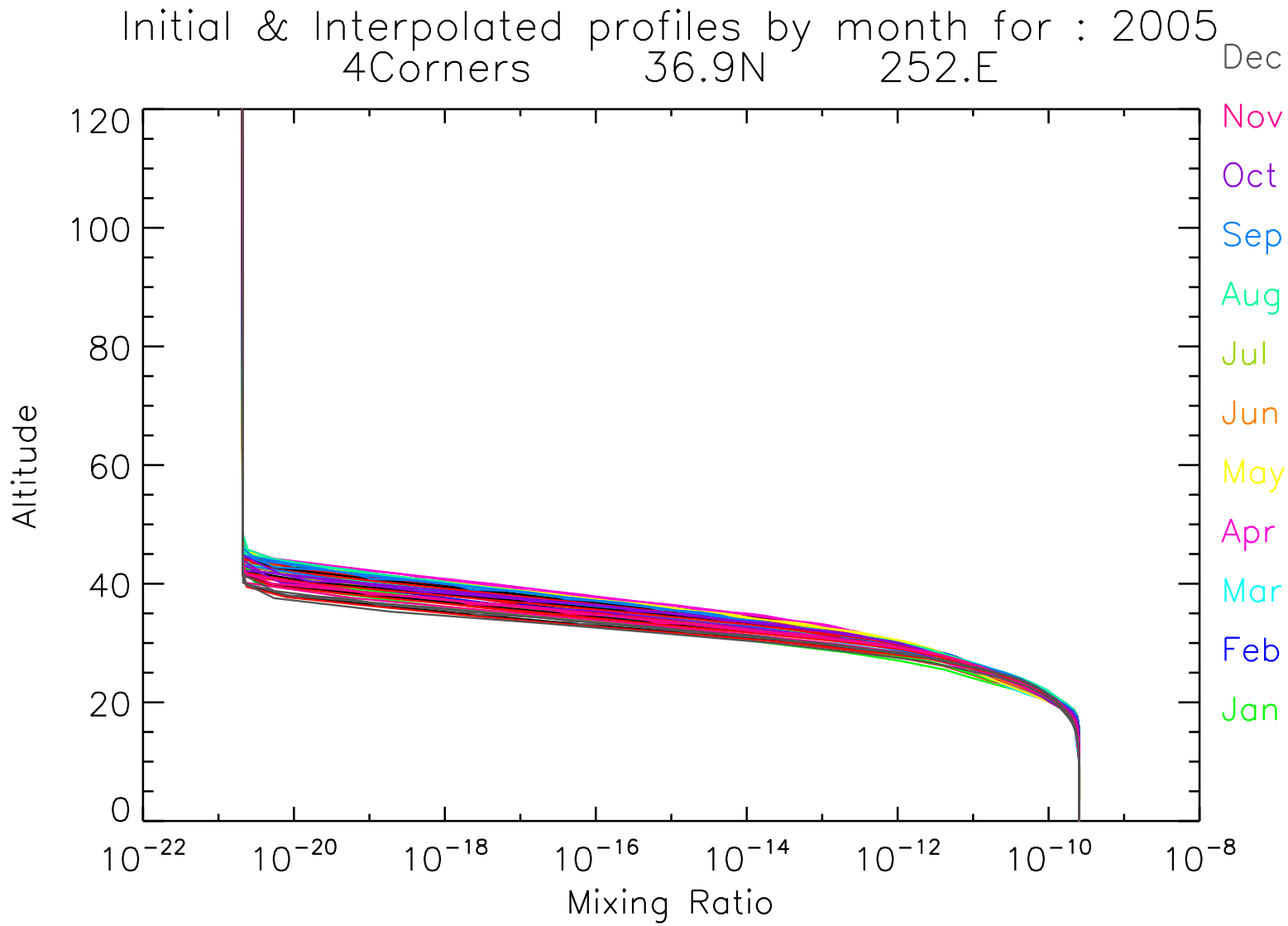
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
4Corners 36.9N 252.E
Dec
Nov
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Apr
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Feb
Jan
Altitude
120
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10^{-18}
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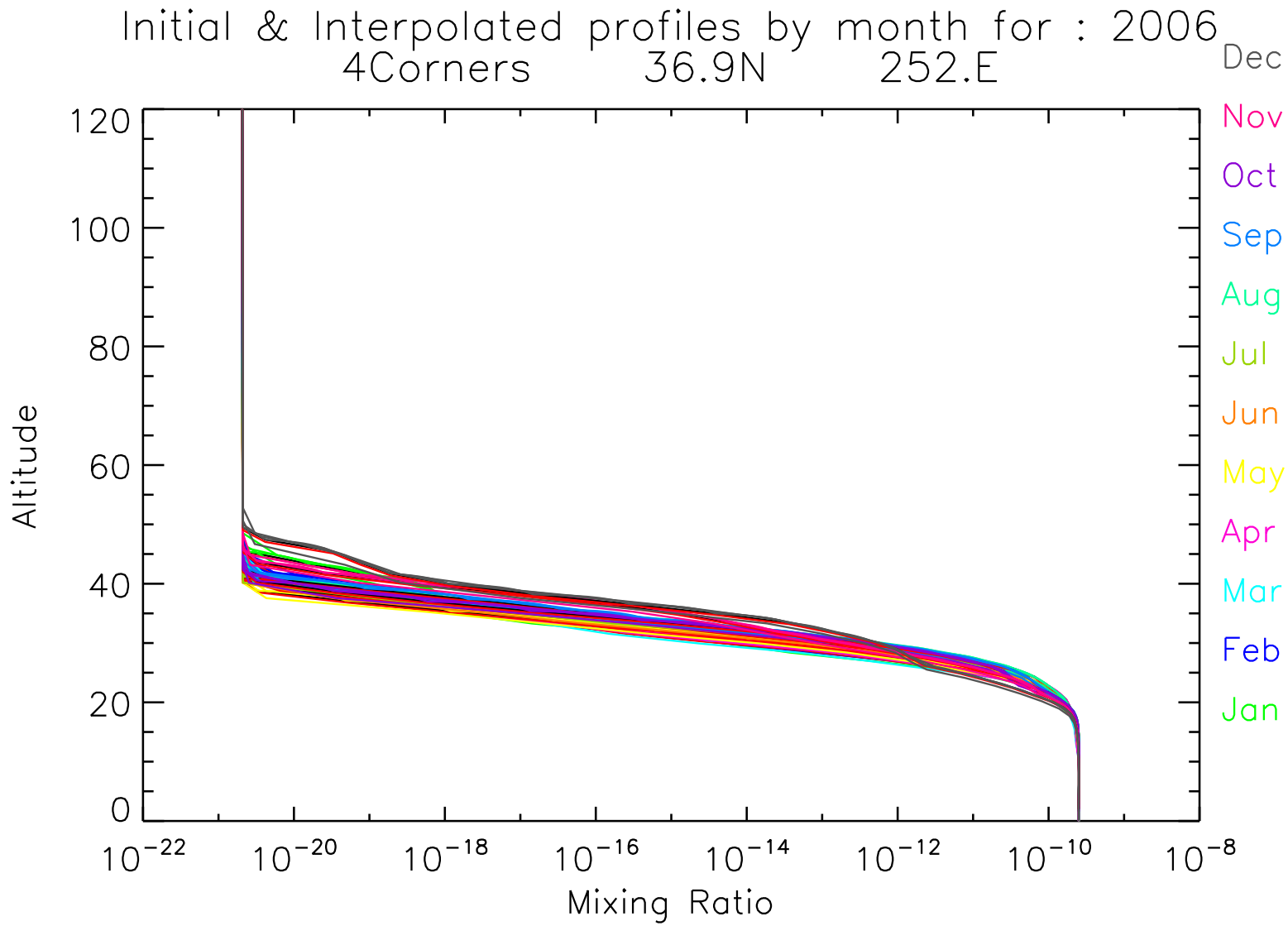
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
4Corners 36.9N 252.E
Dec
Nov
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Apr
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Feb
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Altitude
120
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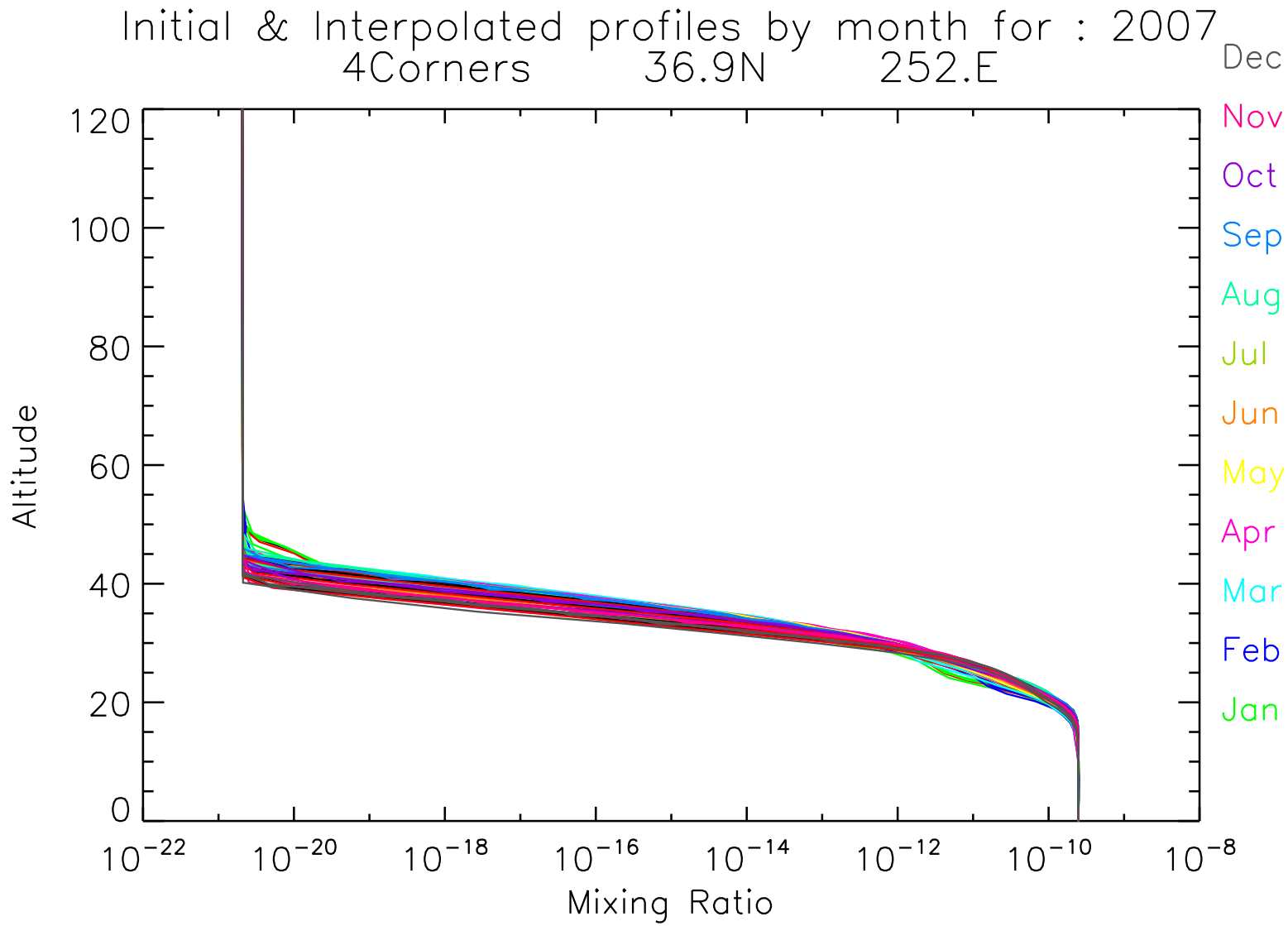
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
4Corners 36.9N 252.E
Dec
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Apr
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Feb
Jan
Altitude
120
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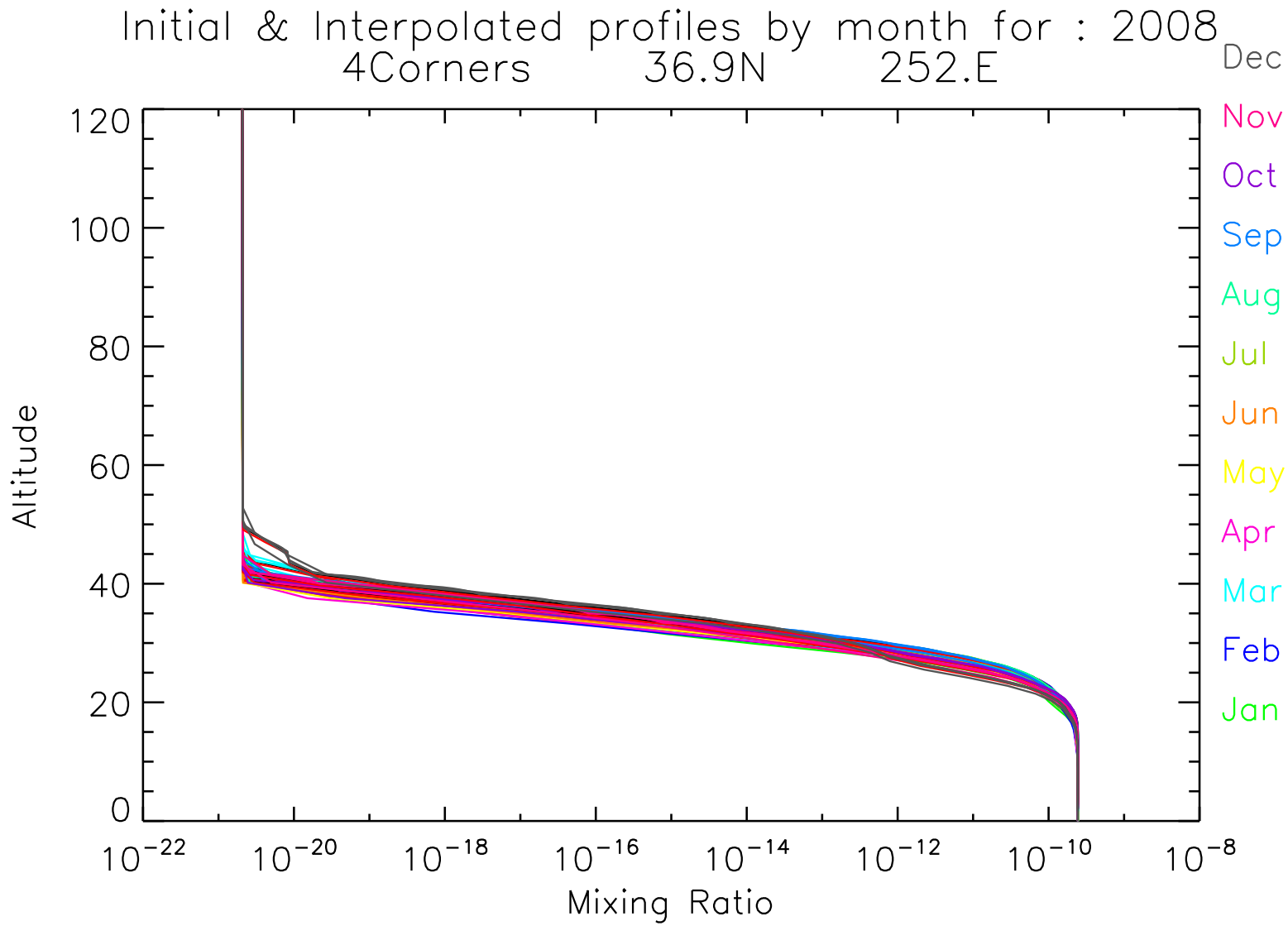
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
4Corners 36.9N 252.E
Dec
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Feb
Jan
Altitude
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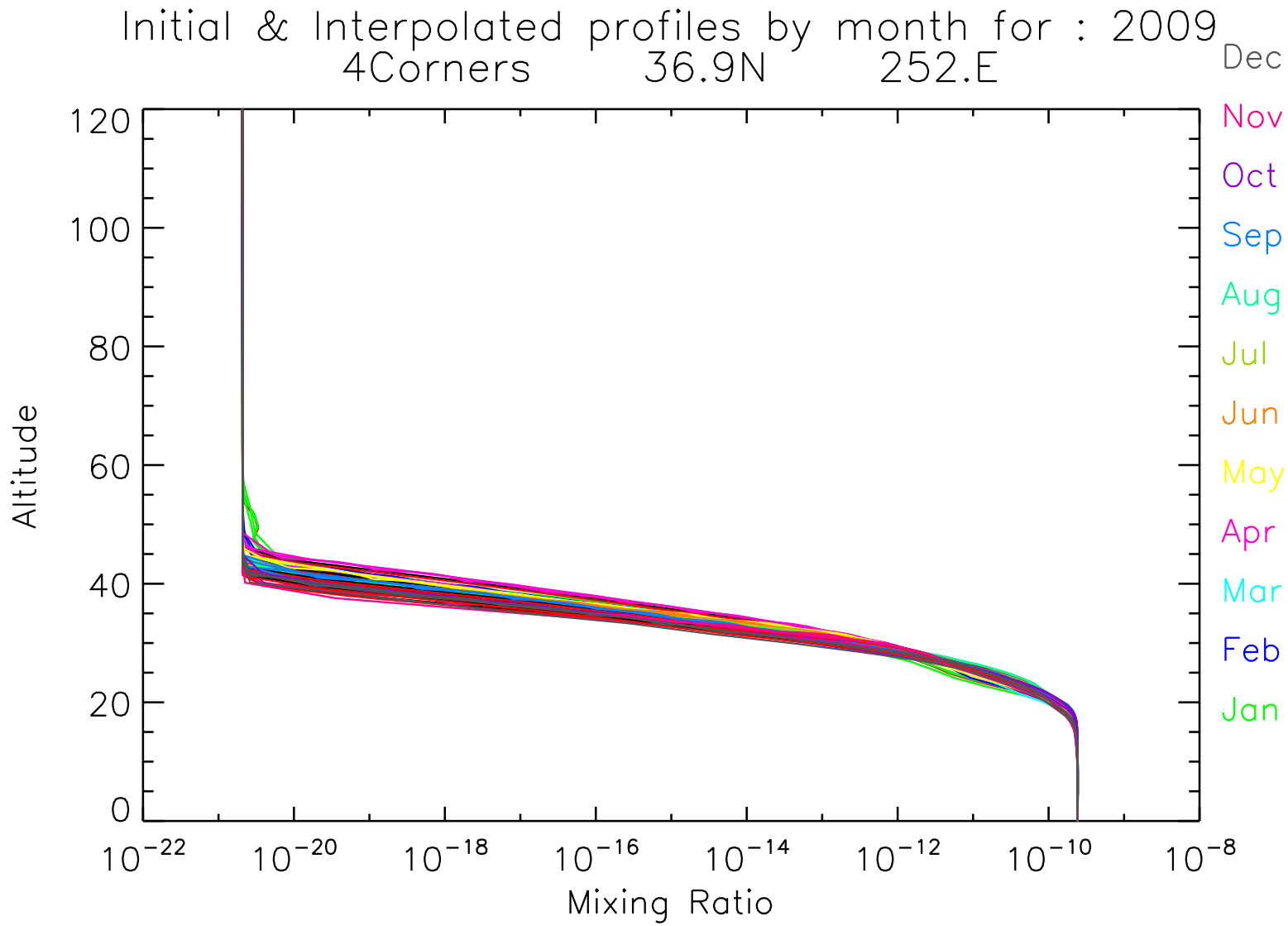
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
4Corners 36.9N 252.E
Dec
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Feb
Jan
Altitude
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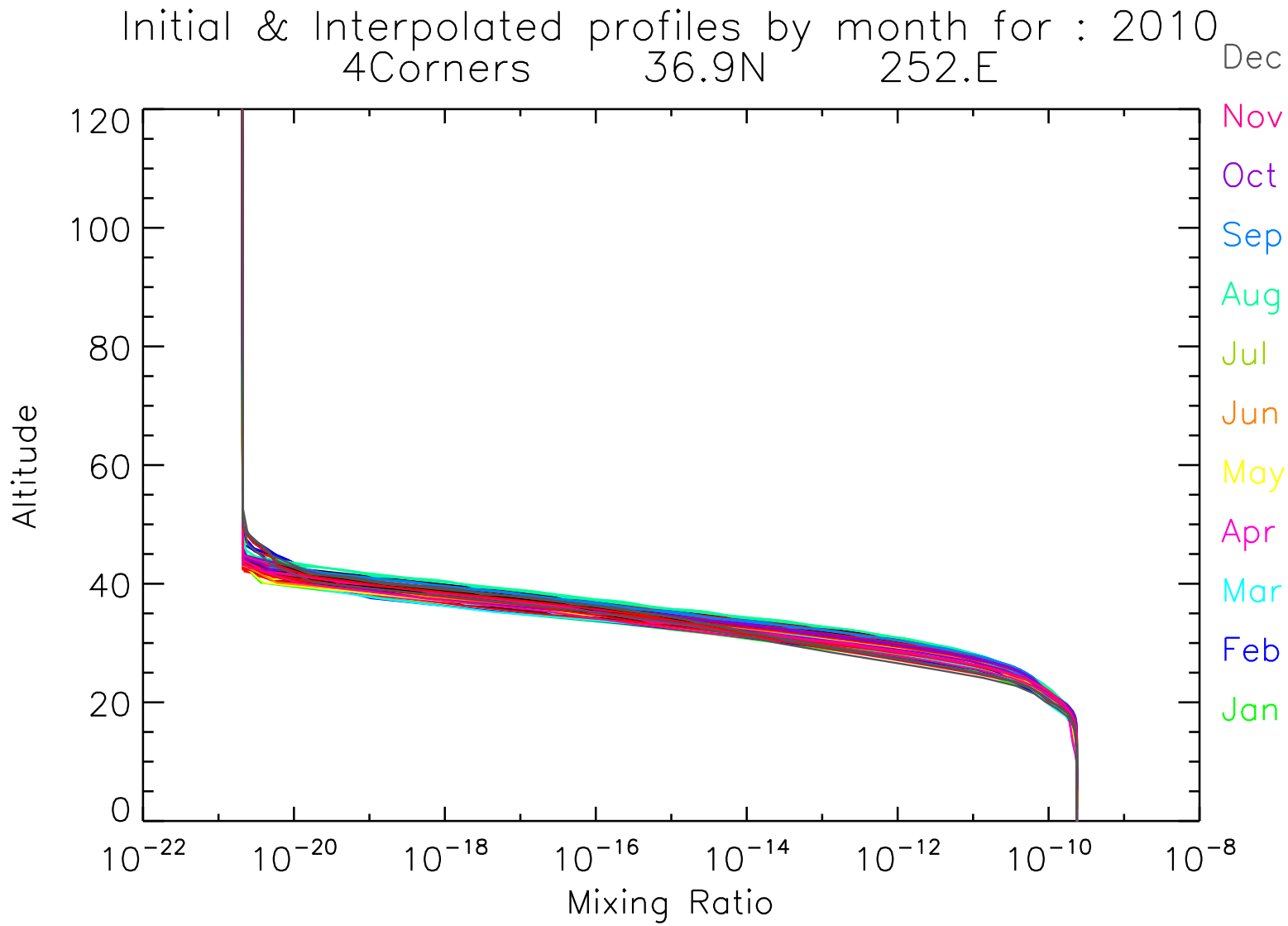
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
4Corners 36.9N 252.E
Dec
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May
Apr
Mar
Feb
Jan
Altitude
120
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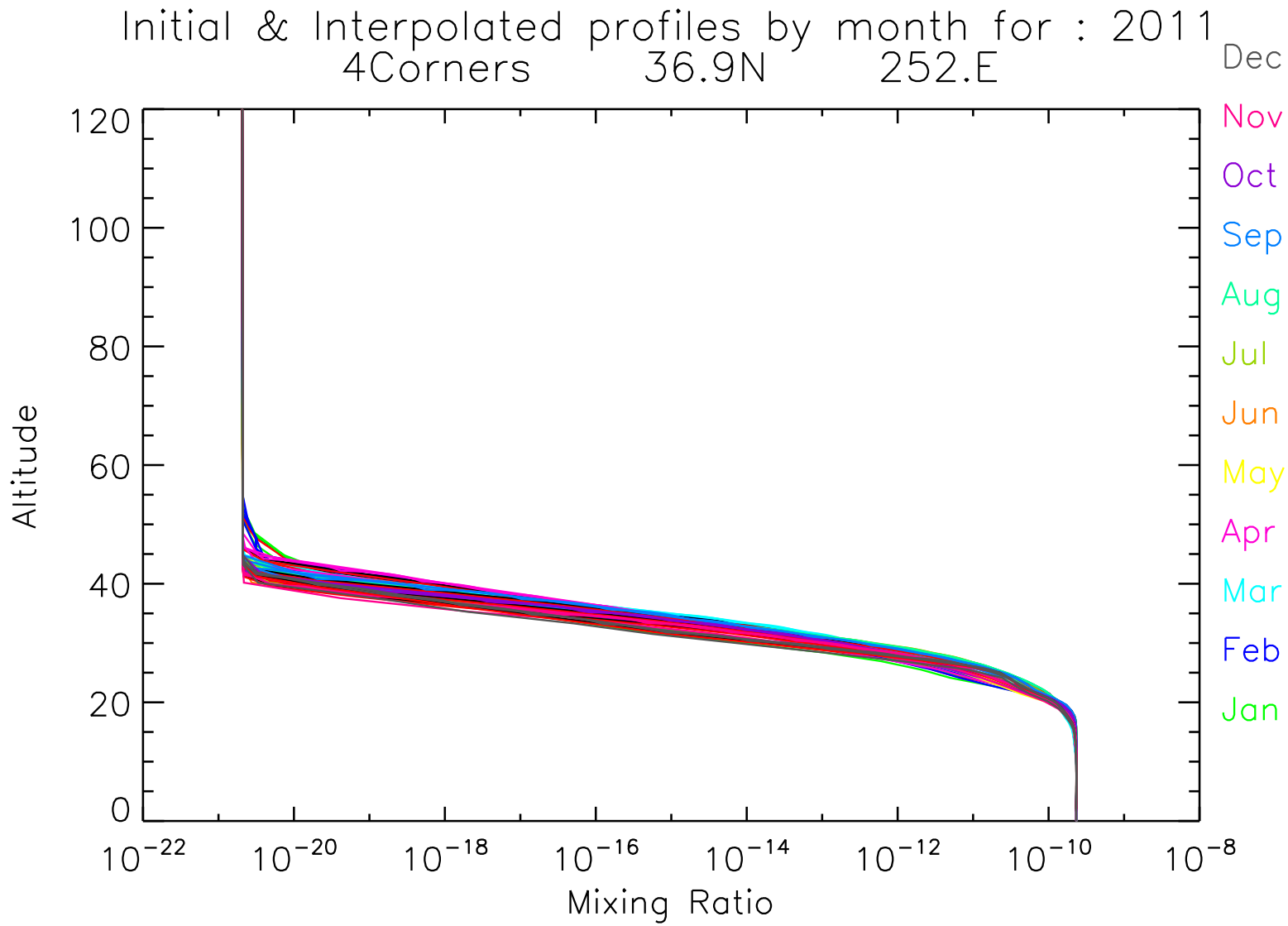
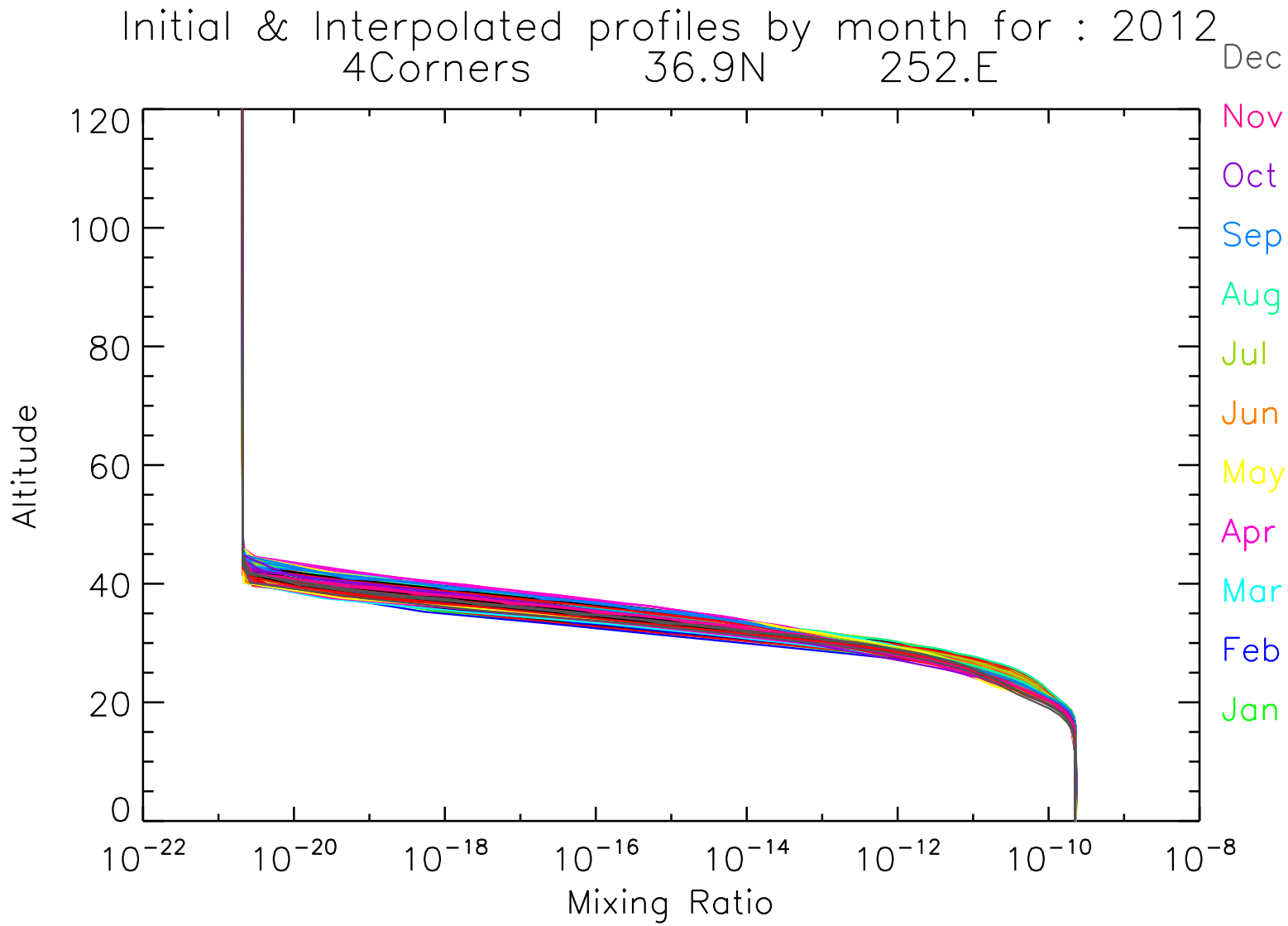
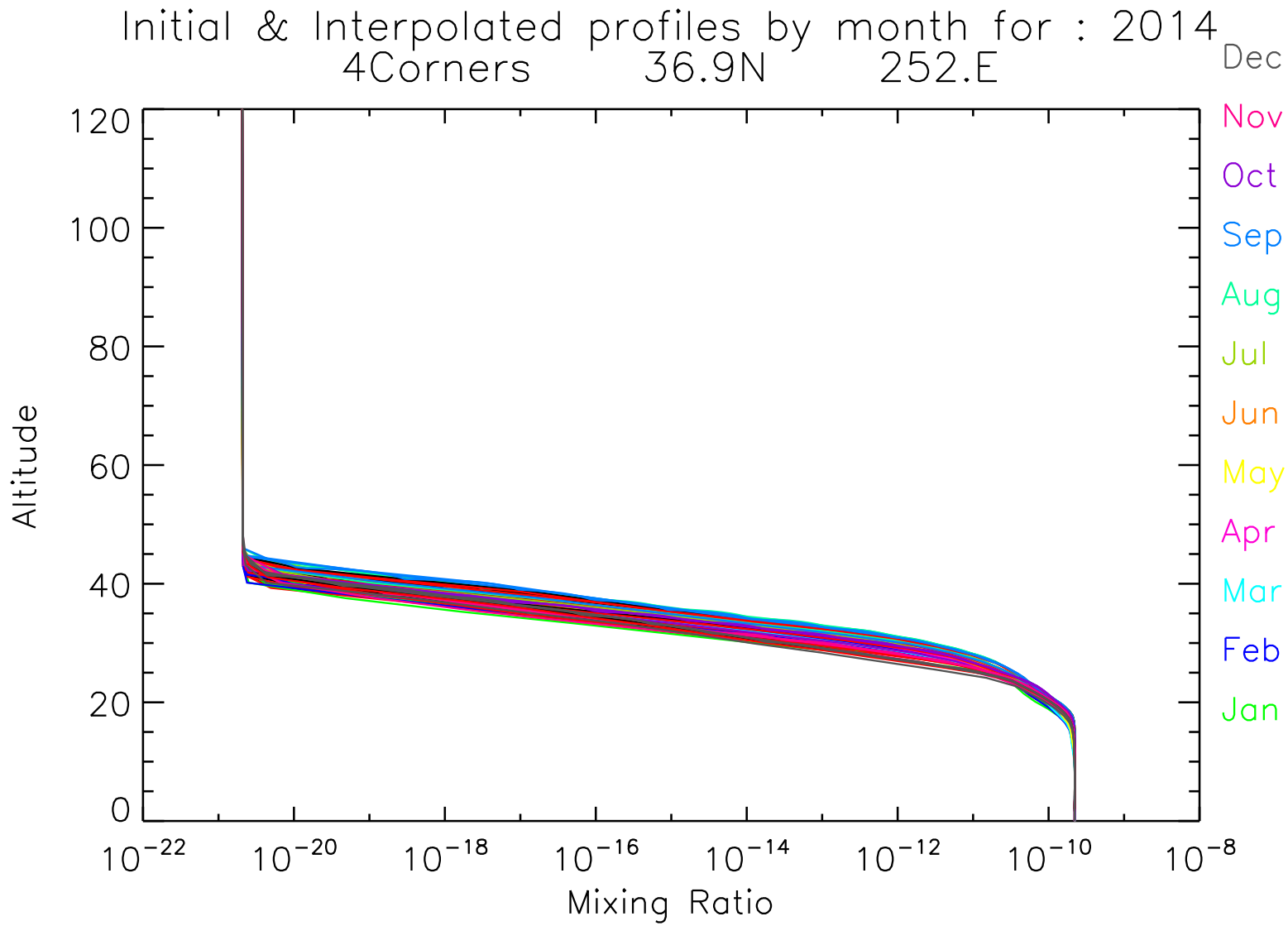
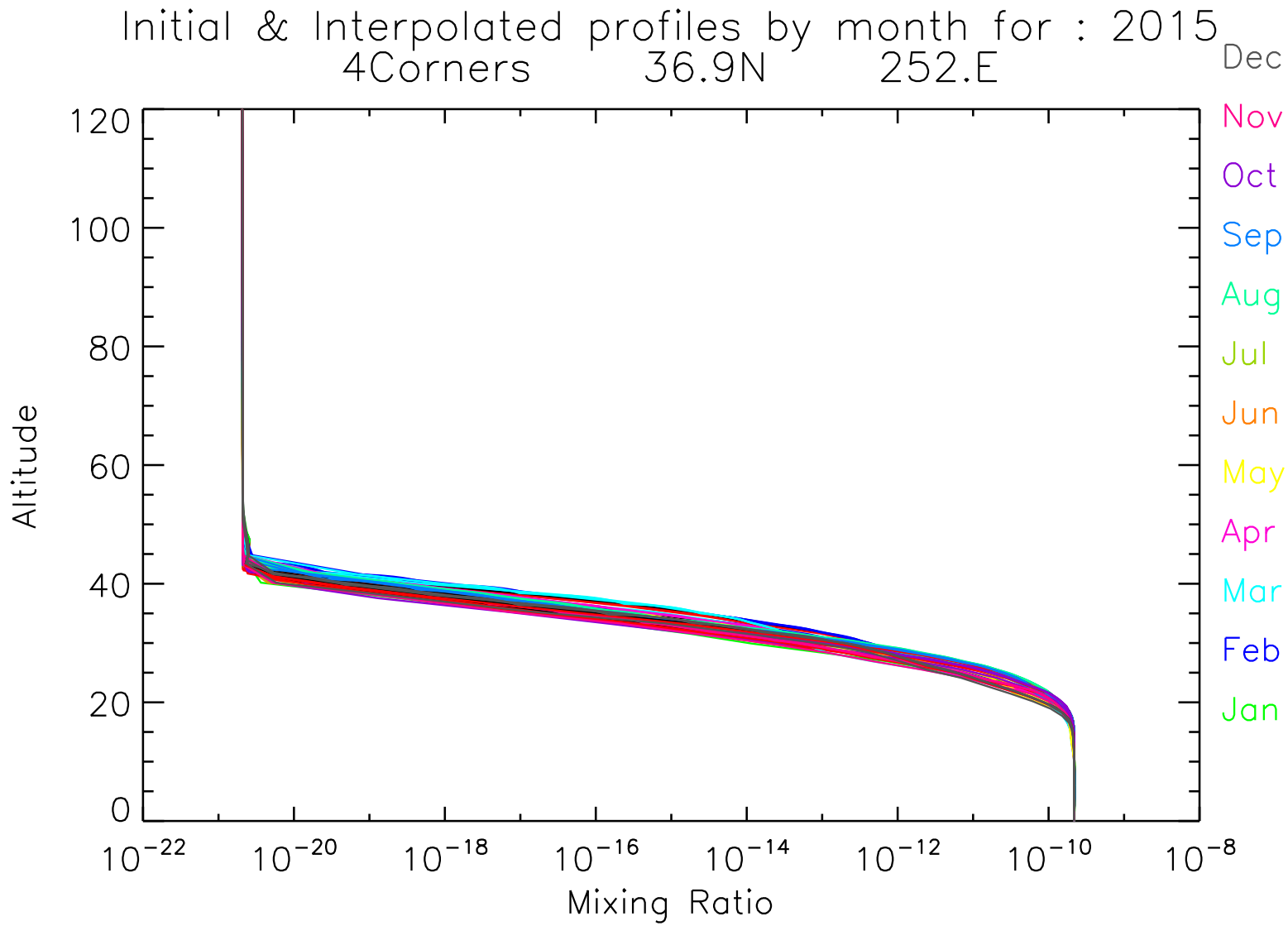
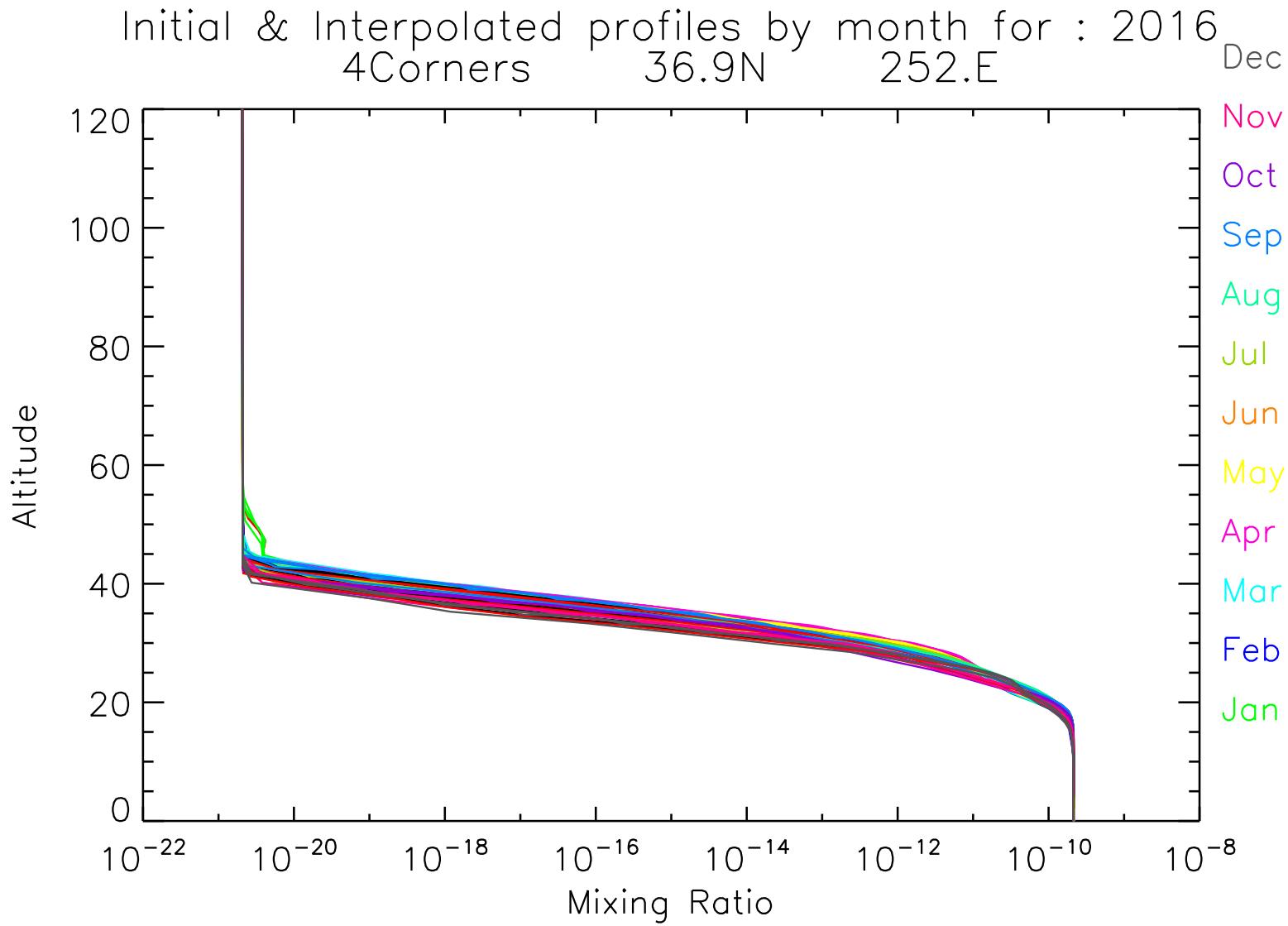
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

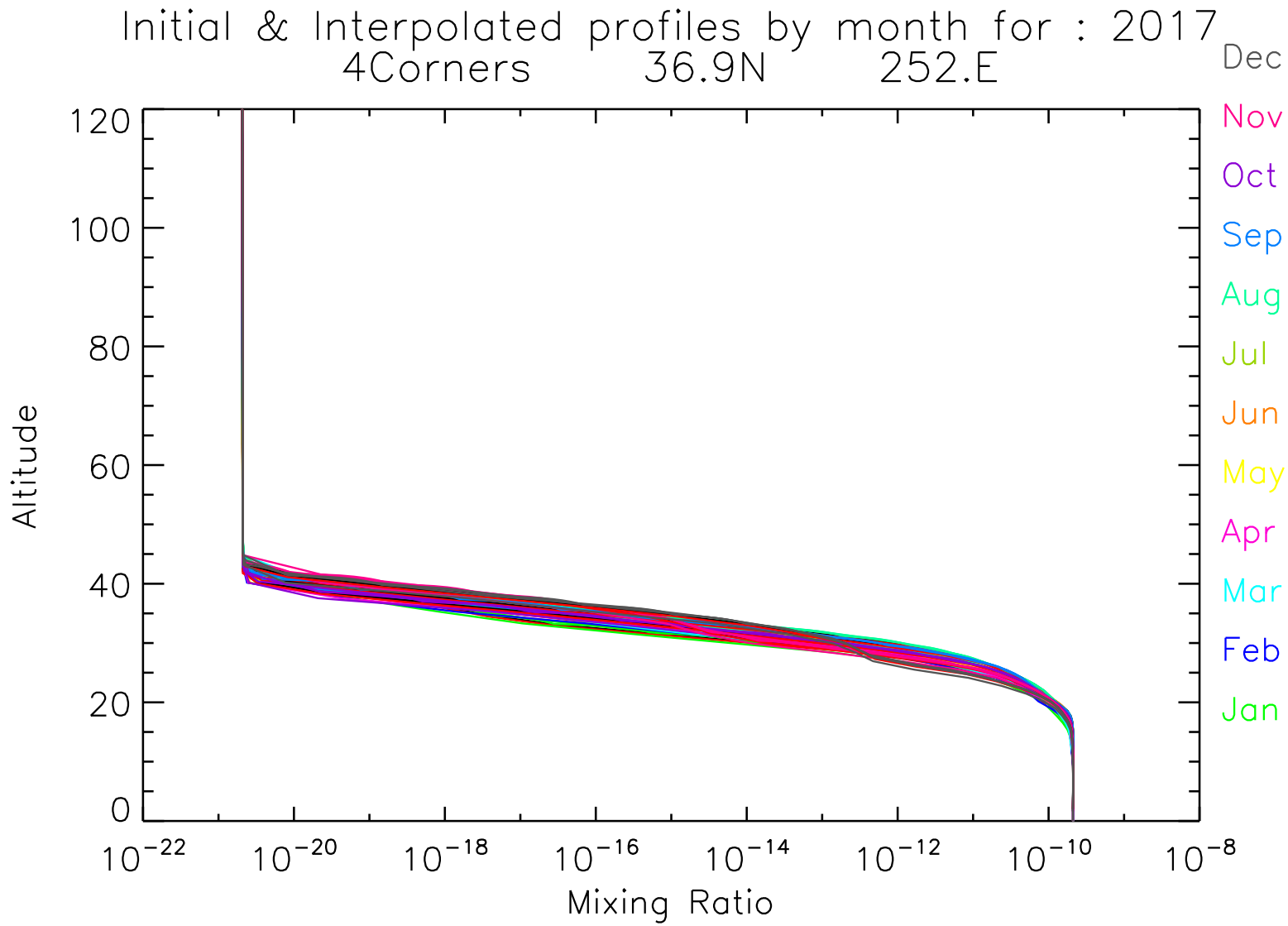

Initial & Interpolated profiles by month for : 2011
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

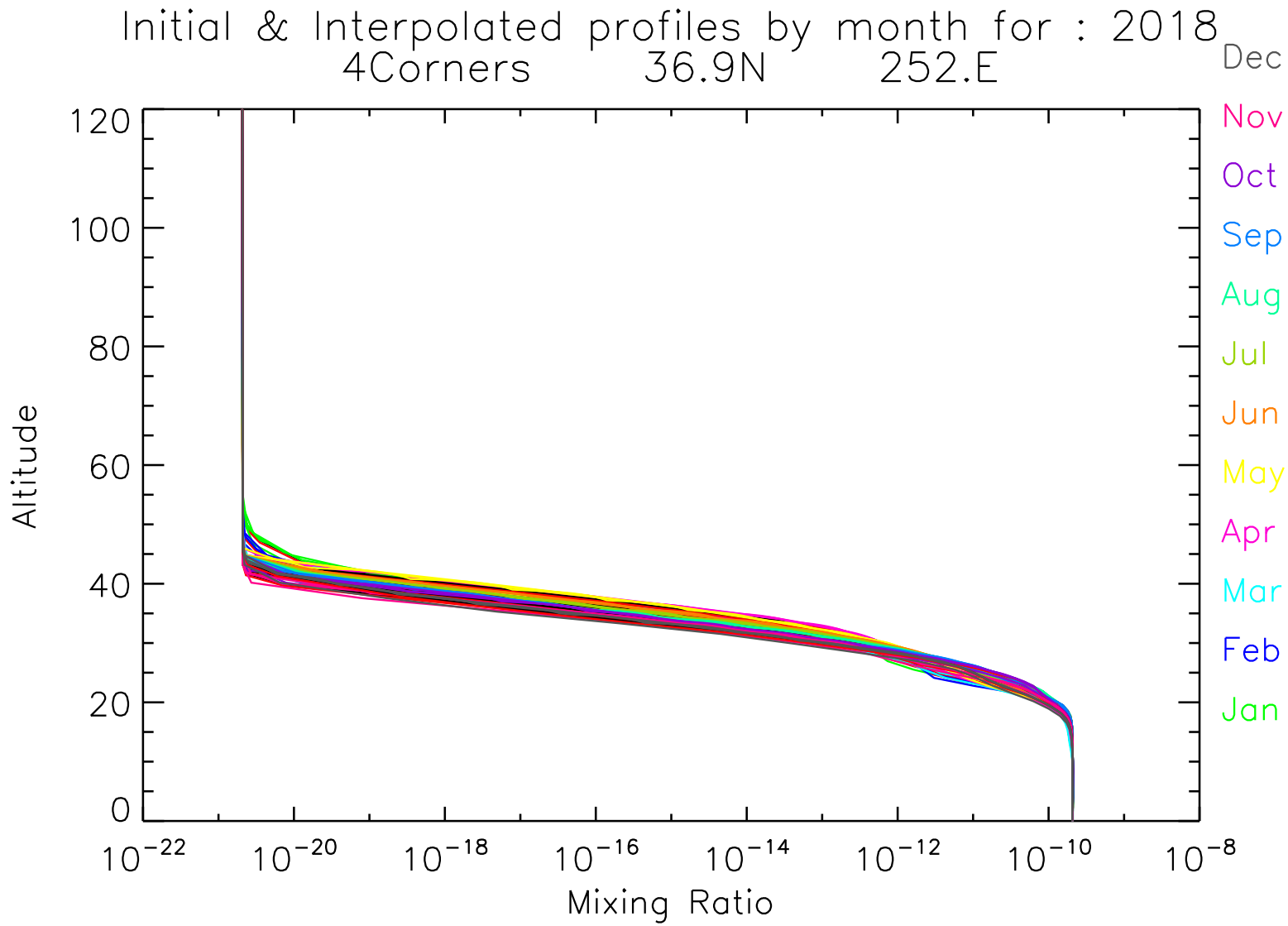

Initial & Interpolated profiles by month for : 2012
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

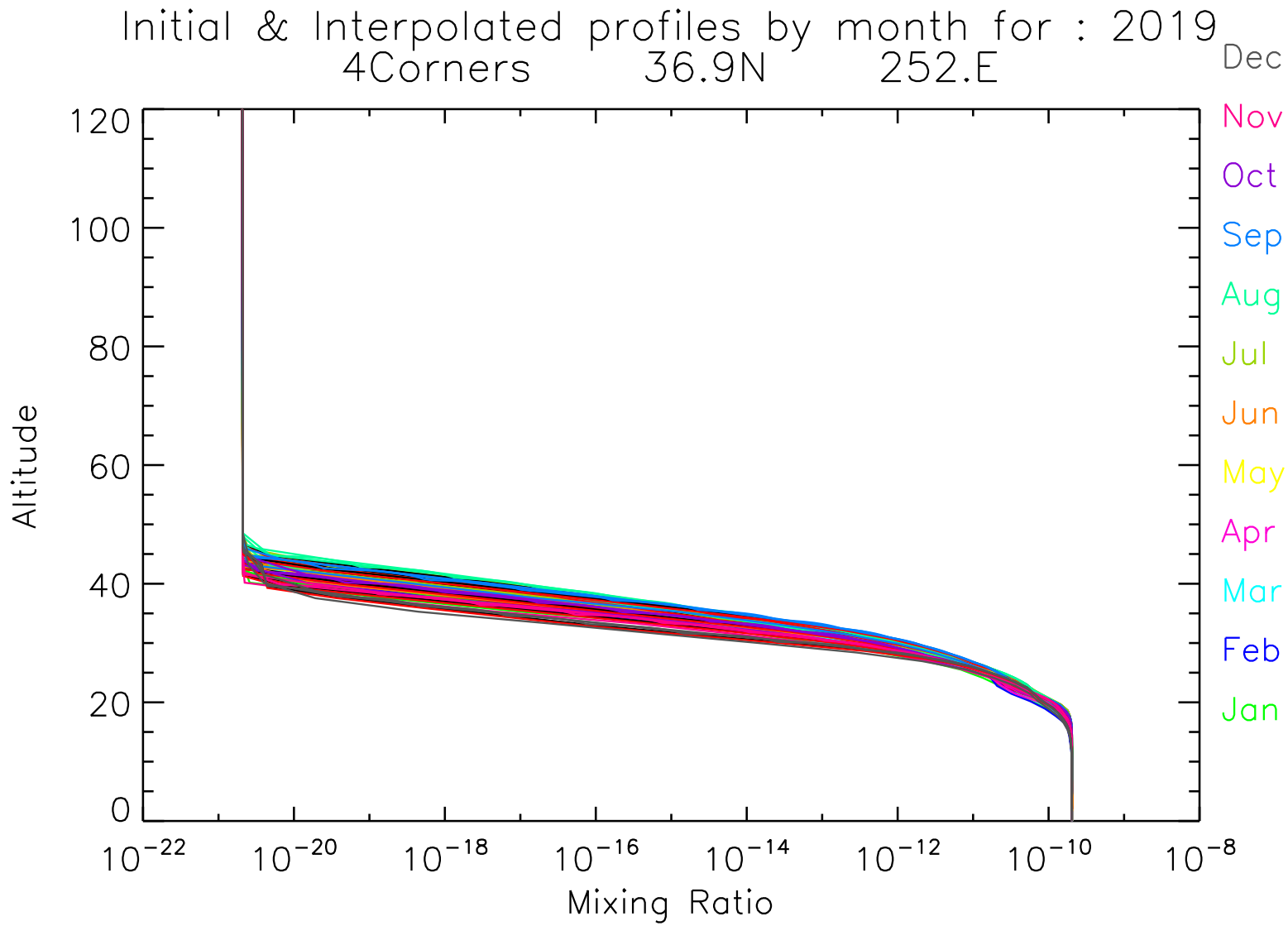

Initial & Interpolated profiles by month for : 2014
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

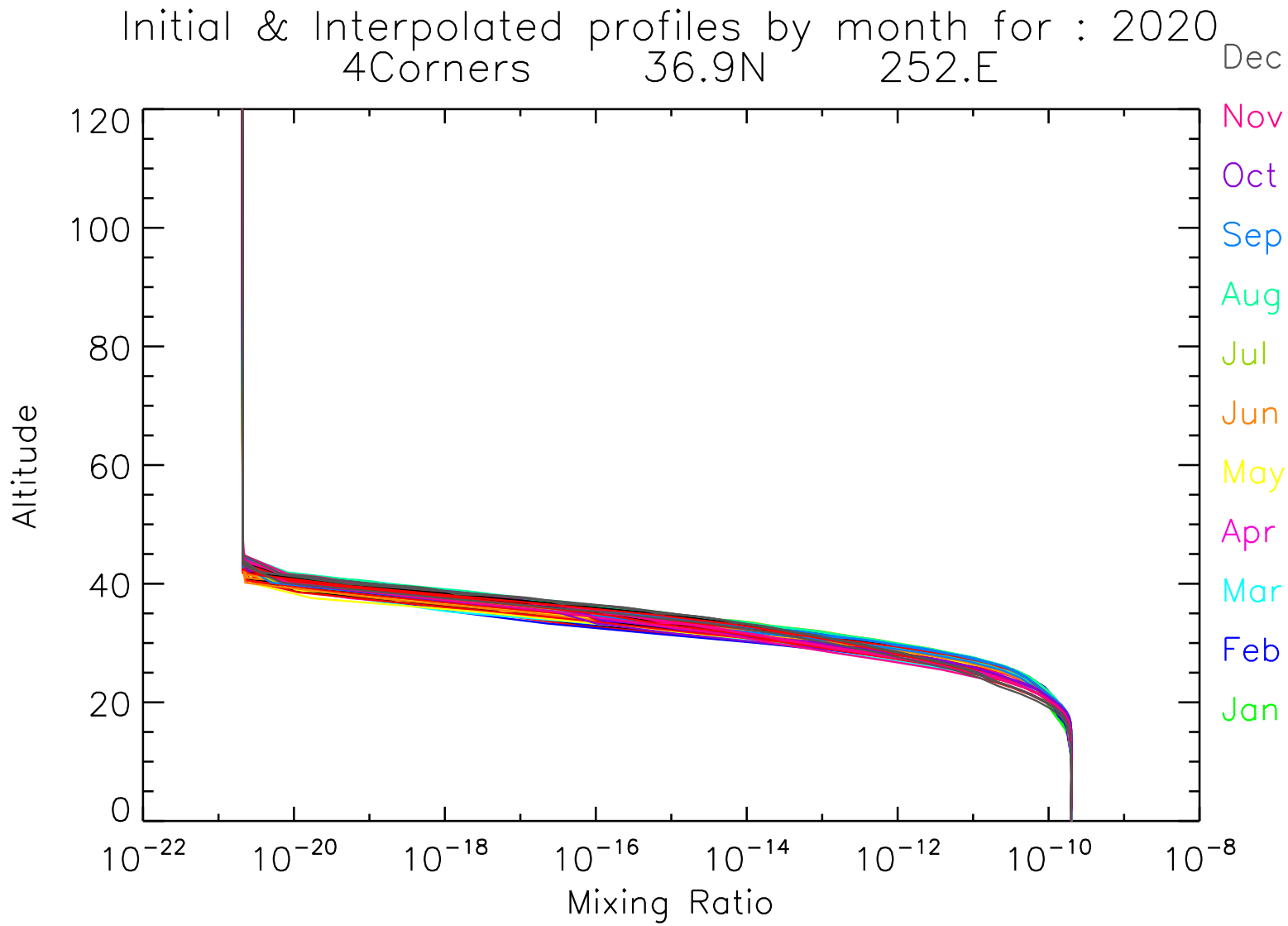

Initial & Interpolated profiles by month for : 2015
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

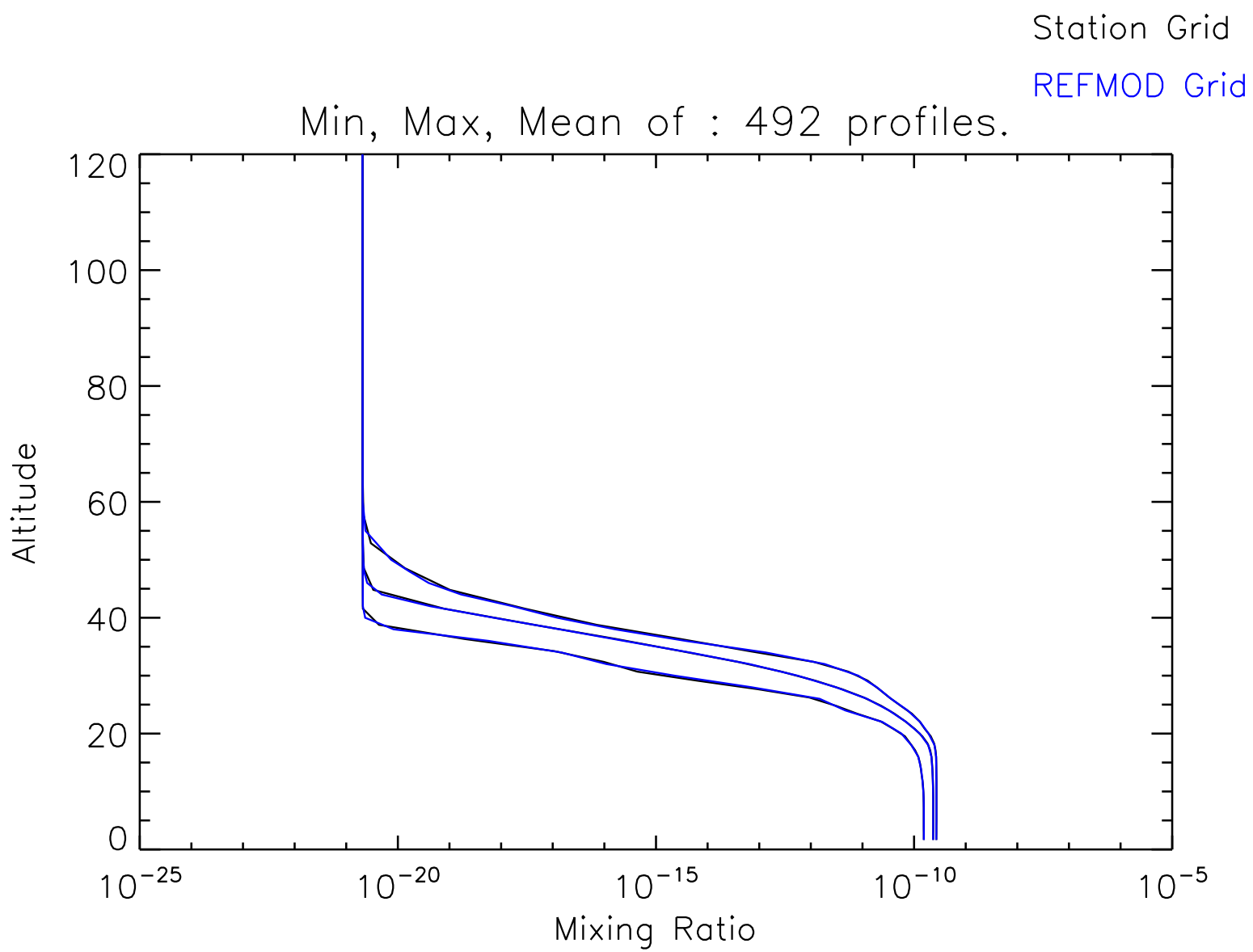

Initial & Interpolated profiles by month for : 2016
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

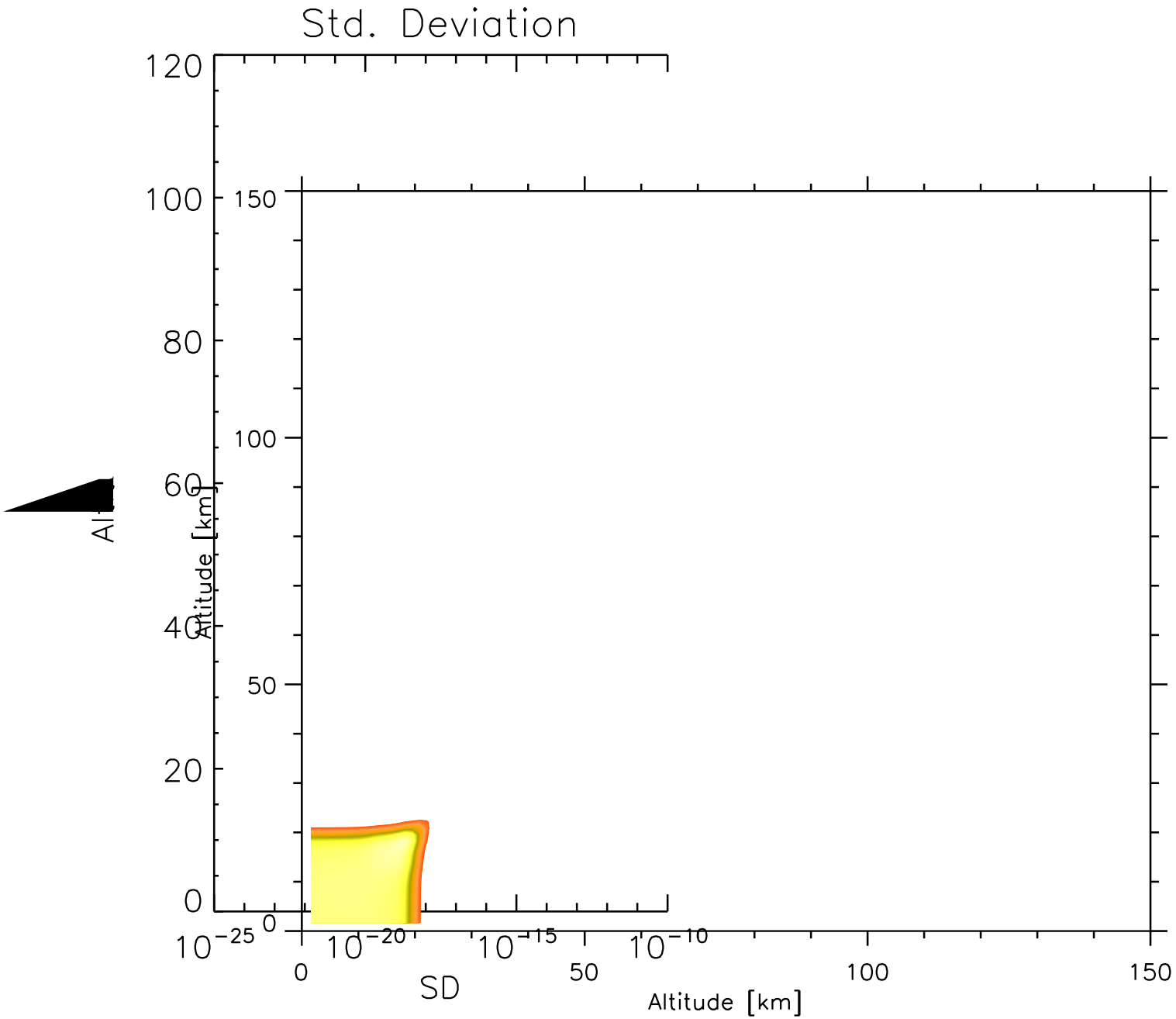

Initial & Interpolated profiles by month for : 2017
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2018
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

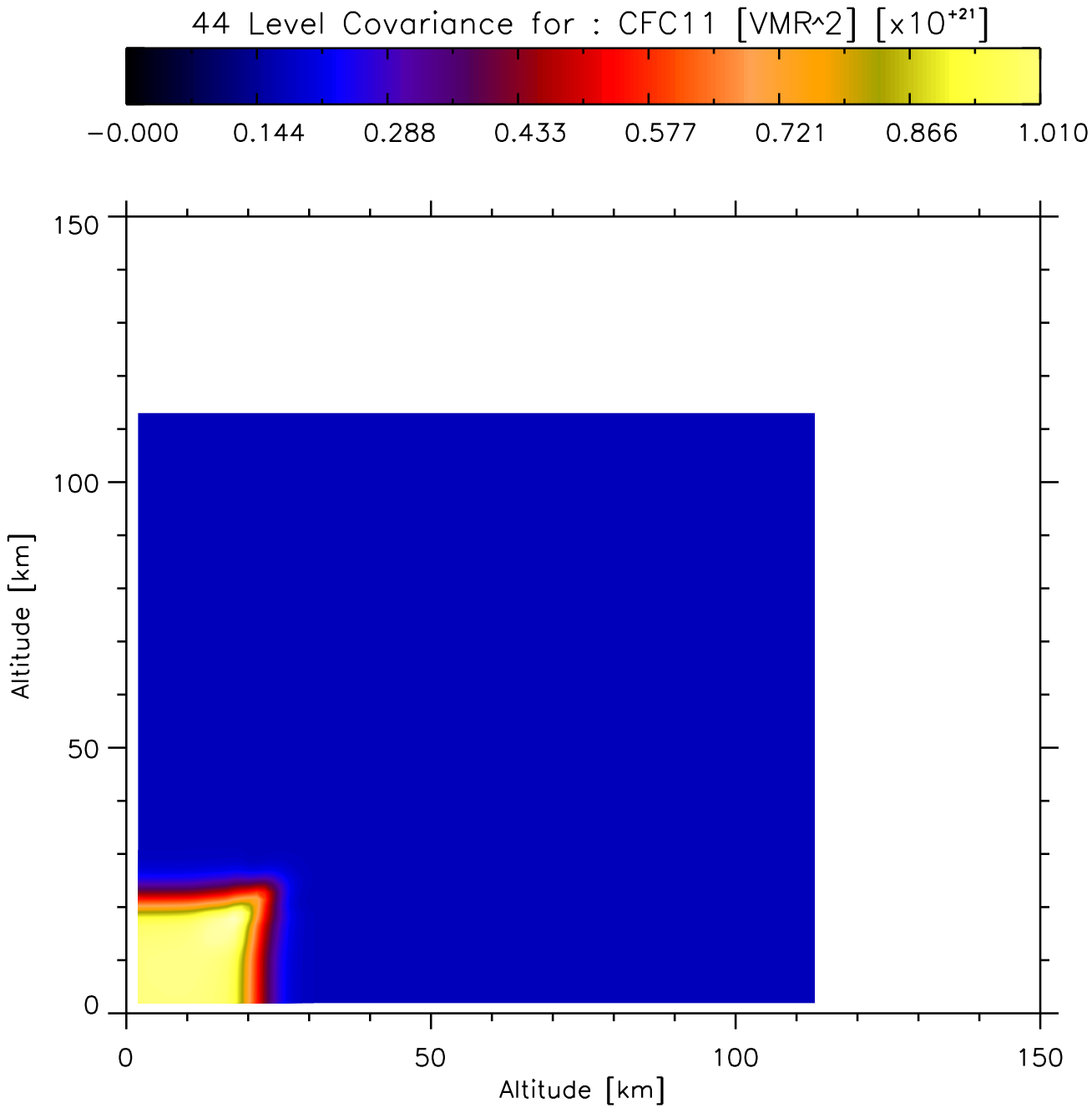

Initial & Interpolated profiles by month for : 2019
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2020
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
10^{-5}
Mixing Ratio


Std. Deviation
120
100
80
60
40
20
0
150
100
50
0
10^{-25}
10^{-20}
10^{-15}
10^{-10}
SD
0
50
100
150
Altitude [km]
Altitude [km]

45 Layer Covariance for : CFC11 [VMR^2] [x10^+21]
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Y Altitude
0
50
100
0
50
100
X Altitude


44 Level Covariance for : CFC11 [VMR^2] [x10^+21]
−0.000
0.144
0.288
0.433
0.577
0.721
0.866
1.010
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

44 Level Covariance for : CFC11 [VMR^2] [x10^+21]
-0.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Y Altitude
100
50
0
0
50
X Altitude
100
150