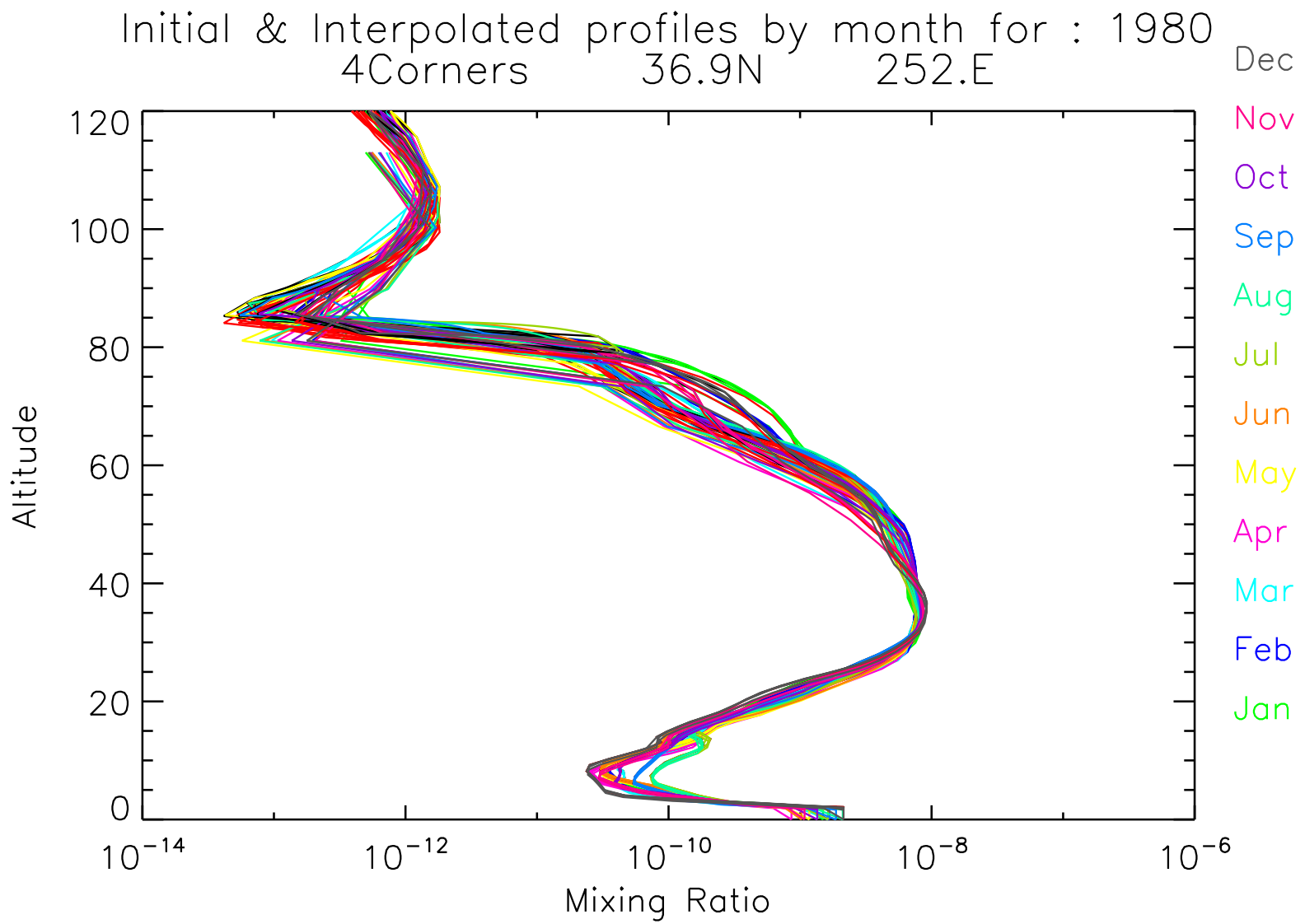
Initial & Interpolated profiles by month for : 1980
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
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10^{-6}
Mixing Ratio
Dec
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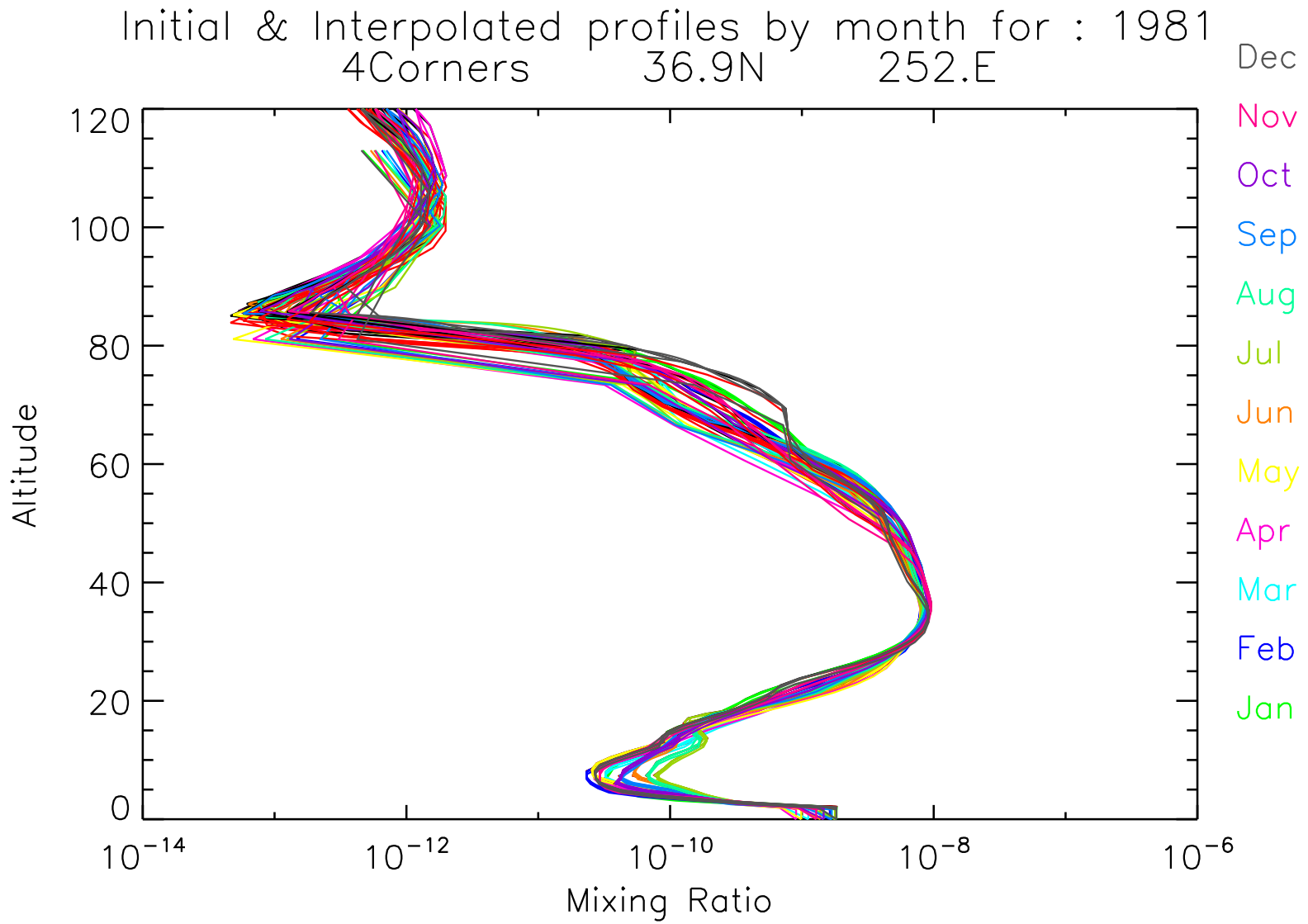
Jan


Initial & Interpolated profiles by month for : 1981
4Corners 36.9N 252.E
Dec
Nov
Oct
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Jun
May
Apr
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Feb
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Altitude
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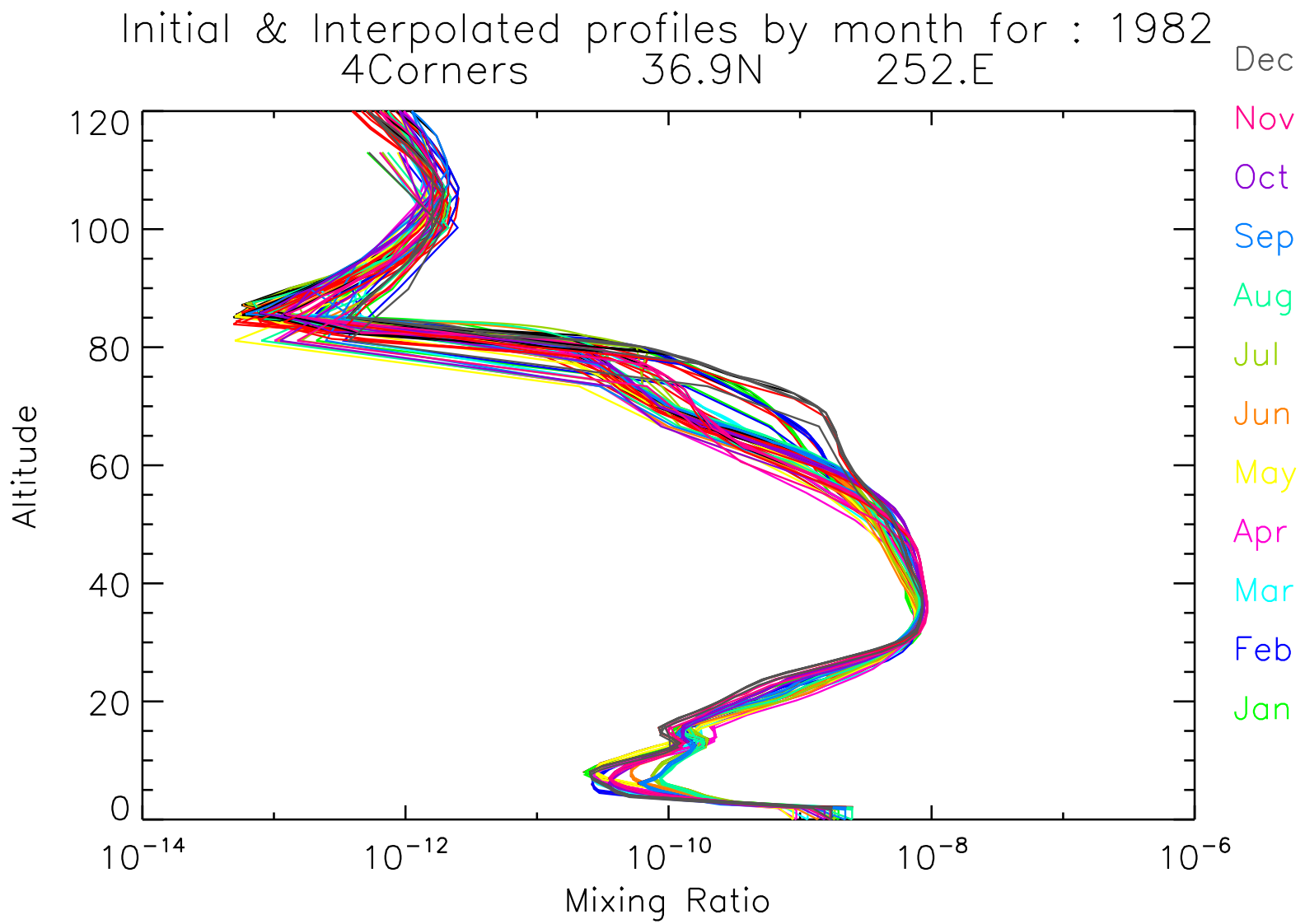
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
4Corners 36.9N 252.E
Dec
Nov
Oct
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Jun
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Apr
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Feb
Jan
120
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Altitude
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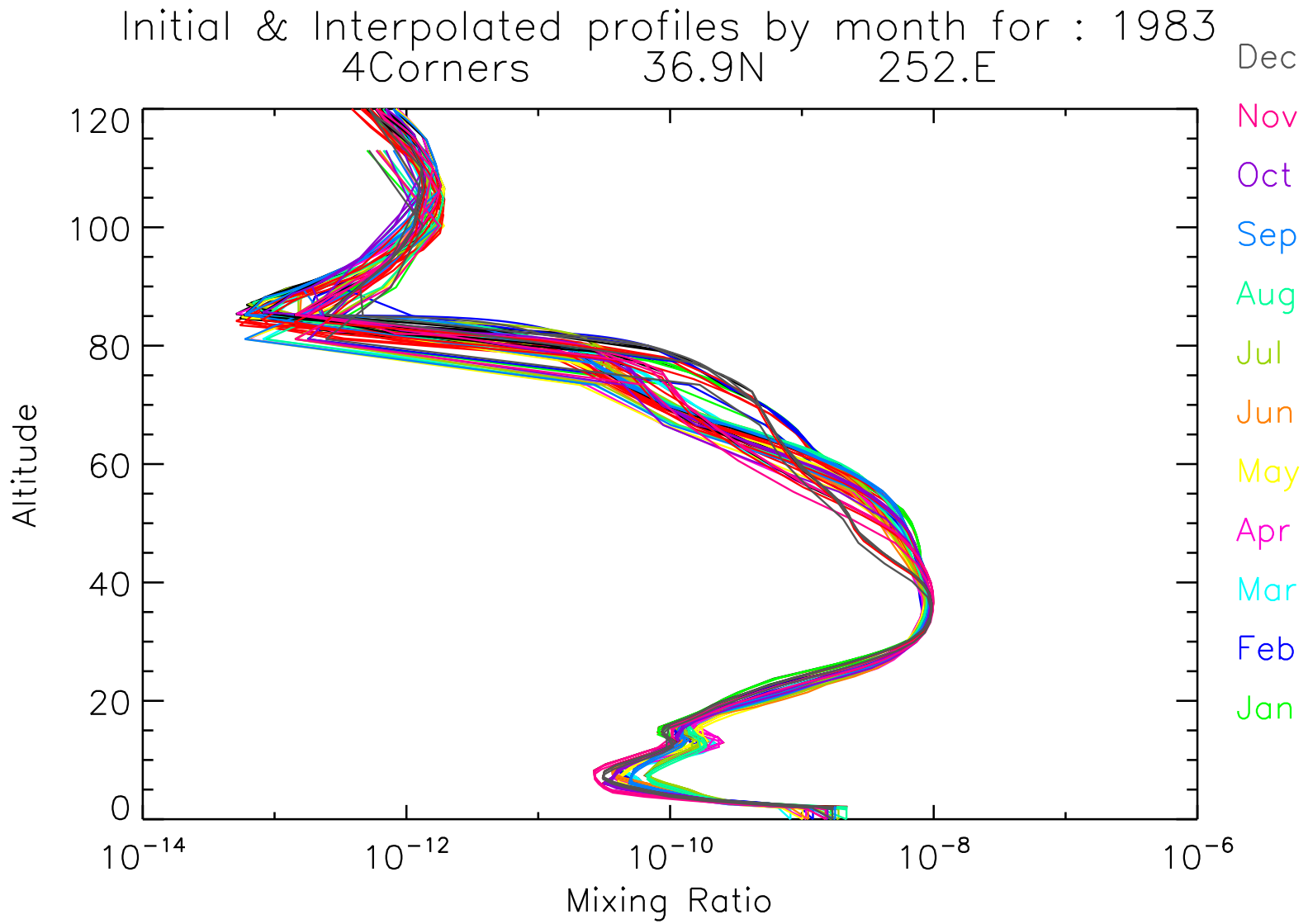
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
4Corners 36.9N 252.E
Dec
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Apr
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Feb
Jan
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Altitude
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10^{-10}
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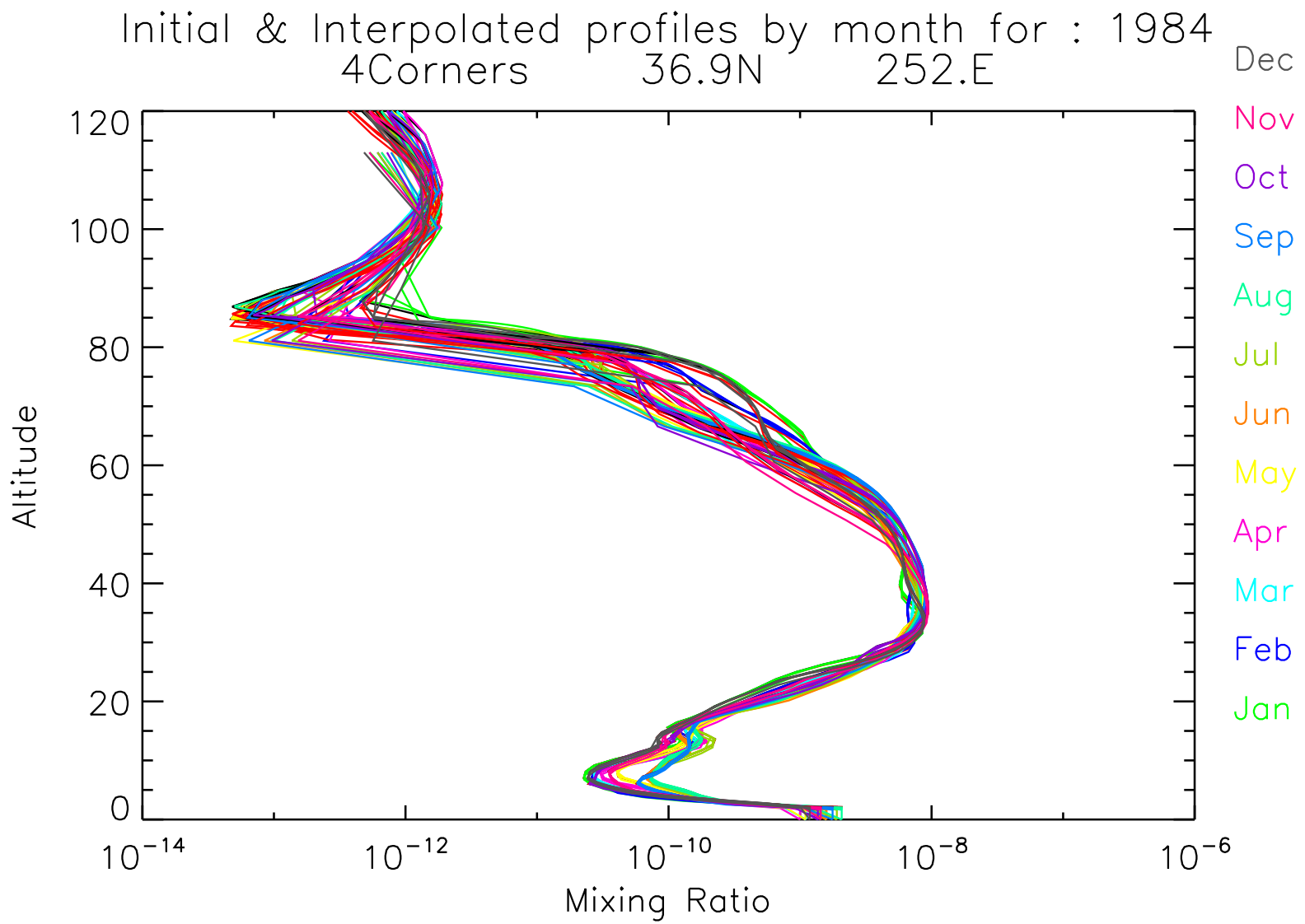
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
4Corners 36.9N 252.E
Dec
Nov
Oct
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Apr
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Feb
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120
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Altitude
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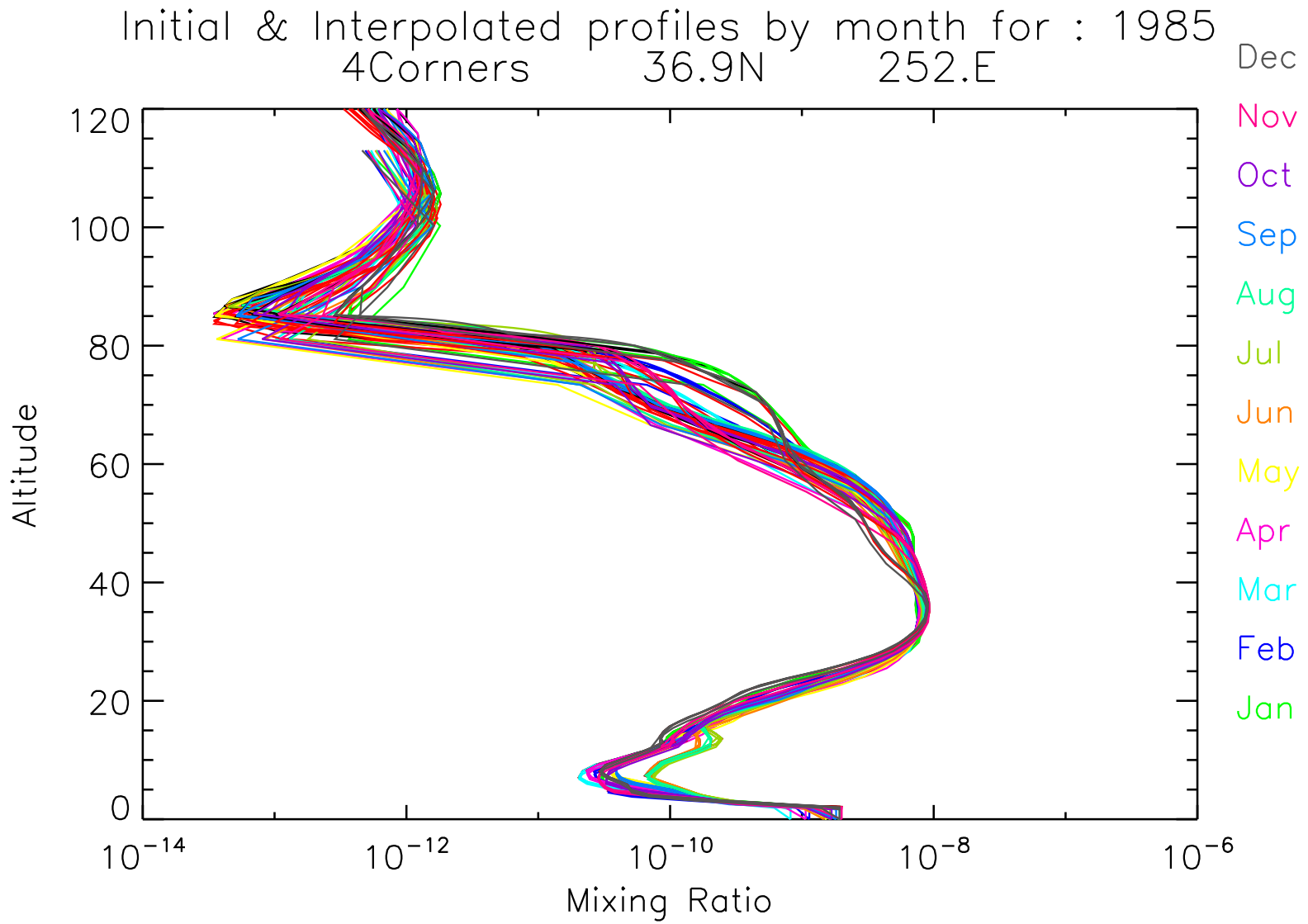
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
4Corners 36.9N 252.E
Altitude
120
100
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20
0
10^{-14}
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10^{-6}
Mixing Ratio
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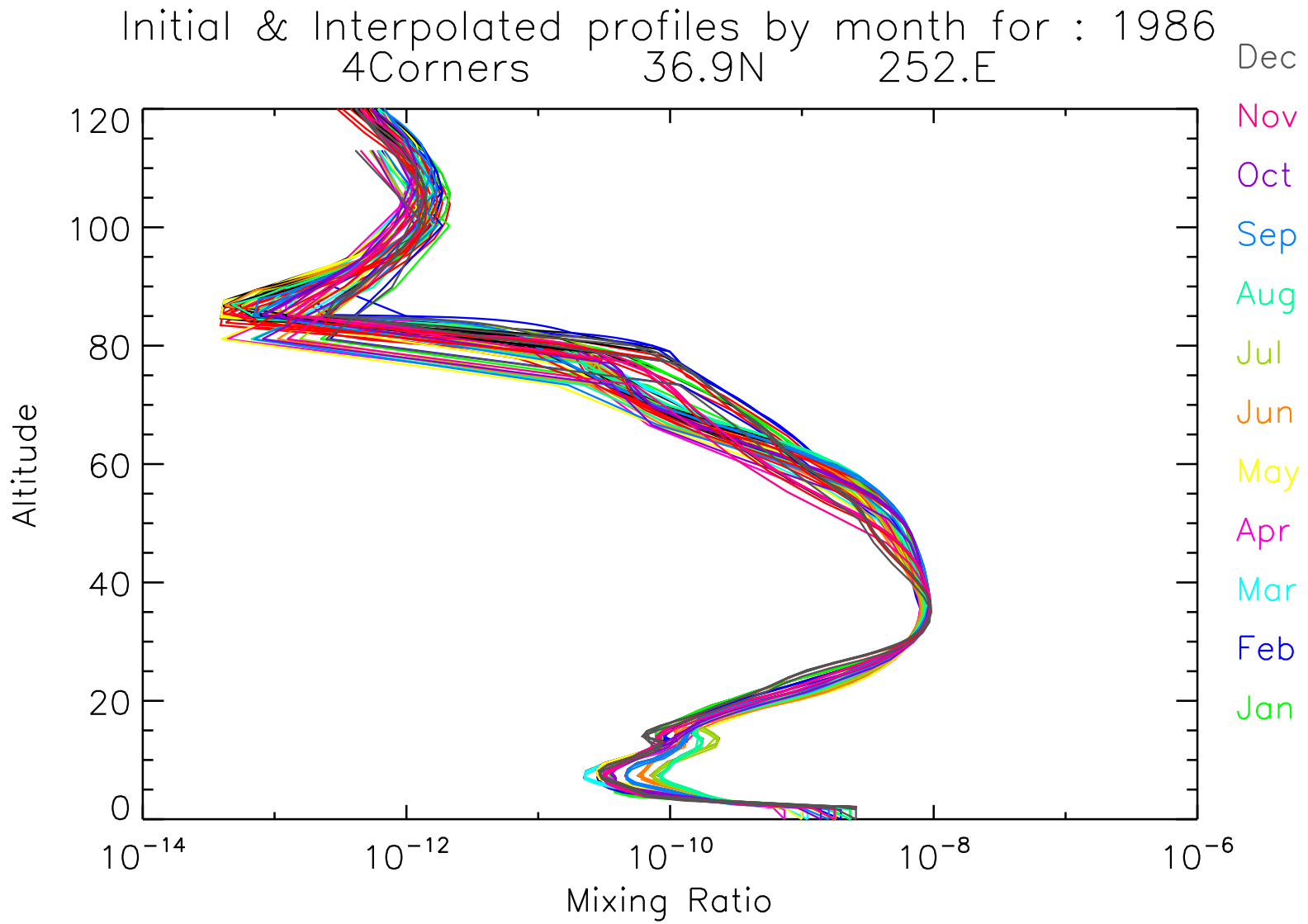
Initial & Interpolated profiles by month for : 1986
4Corners 36.9N 252.E
Altitude
120
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10^{-14}
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10^{-6}
Mixing Ratio
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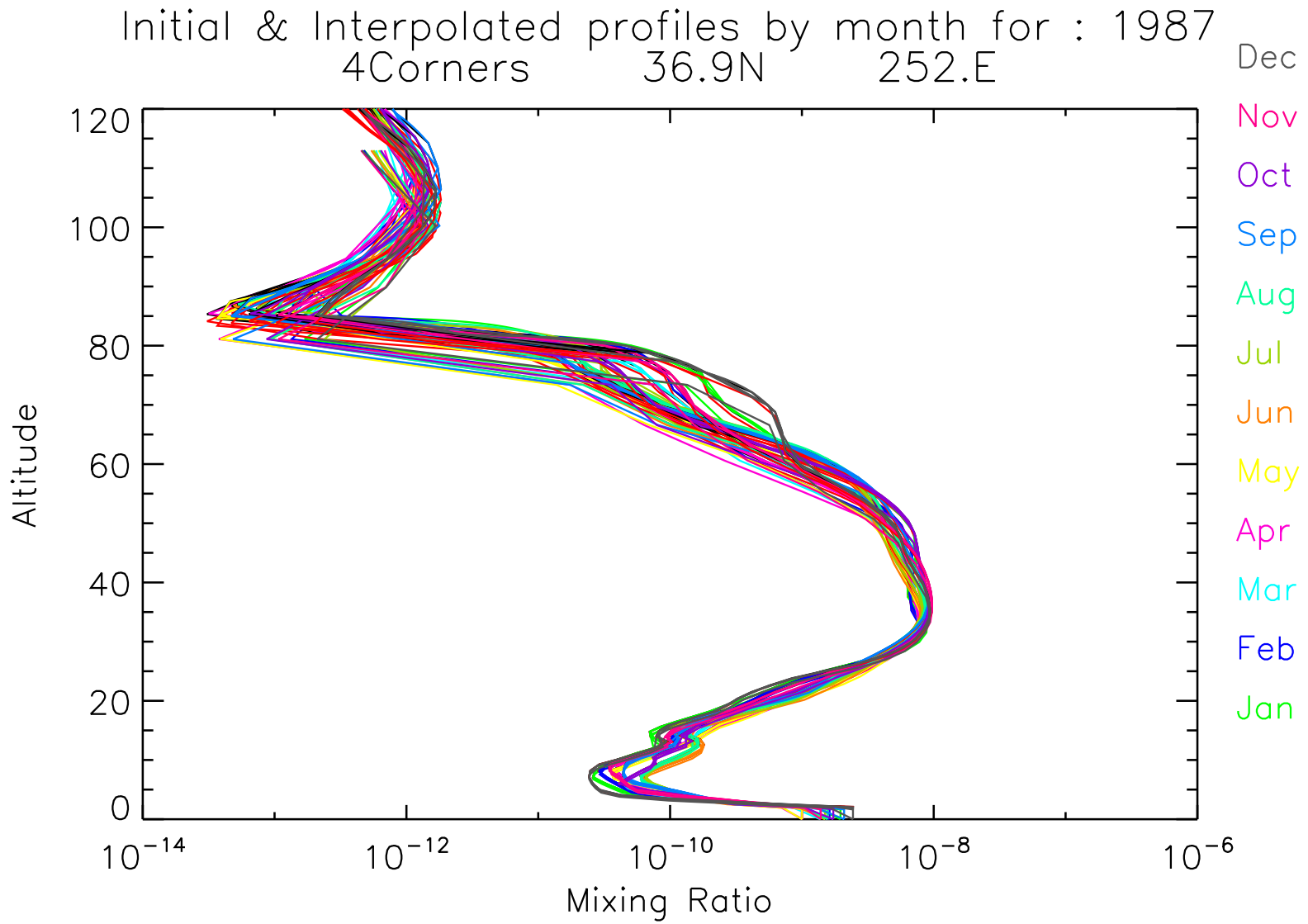
Initial & Interpolated profiles by month for : 1987
4Corners 36.9N 252.E
Dec
Nov
Oct
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Feb
Jan
Altitude
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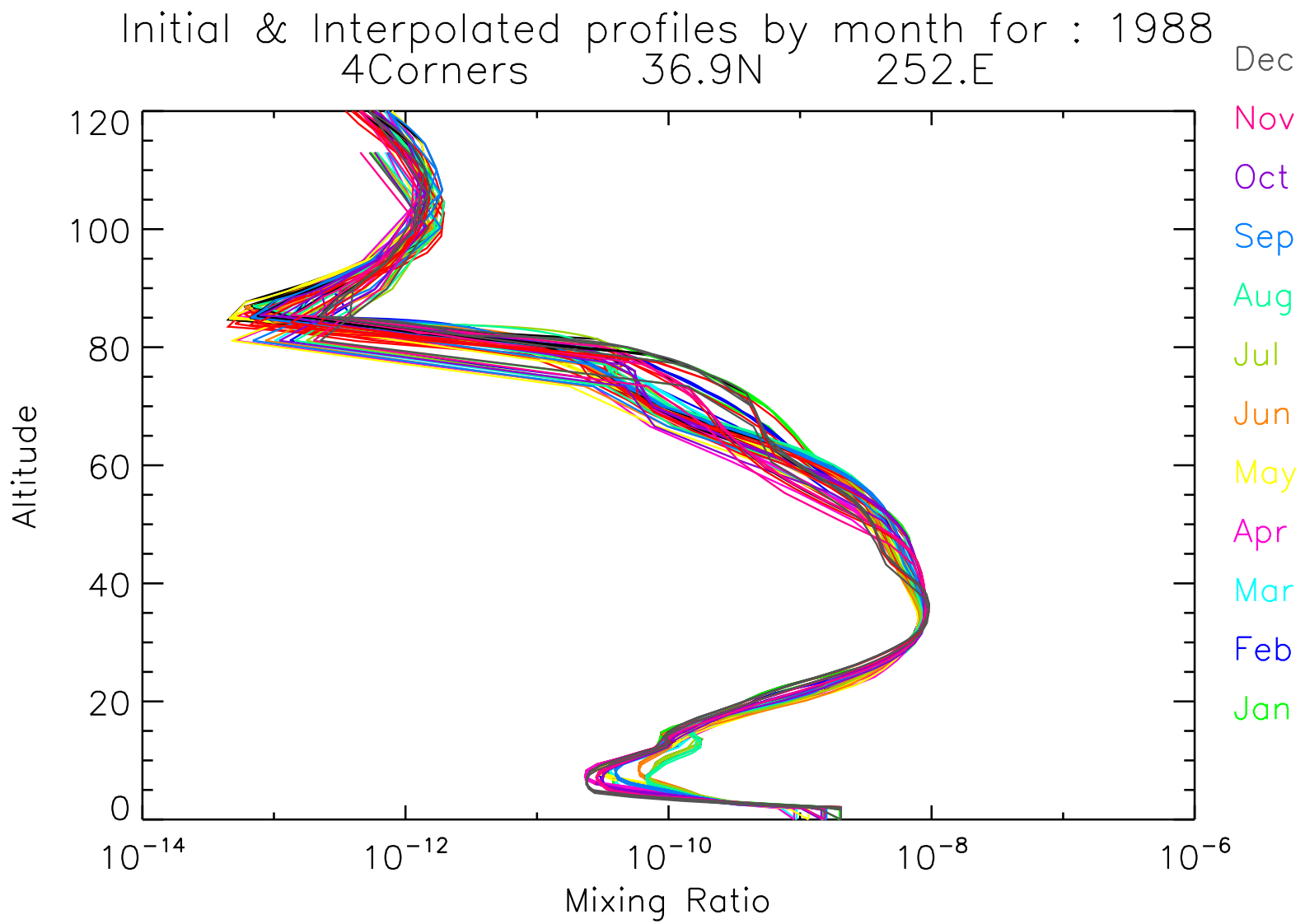
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
4Corners 36.9N 252.E
Altitude
120
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10^{-14}
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10^{-6}
Mixing Ratio
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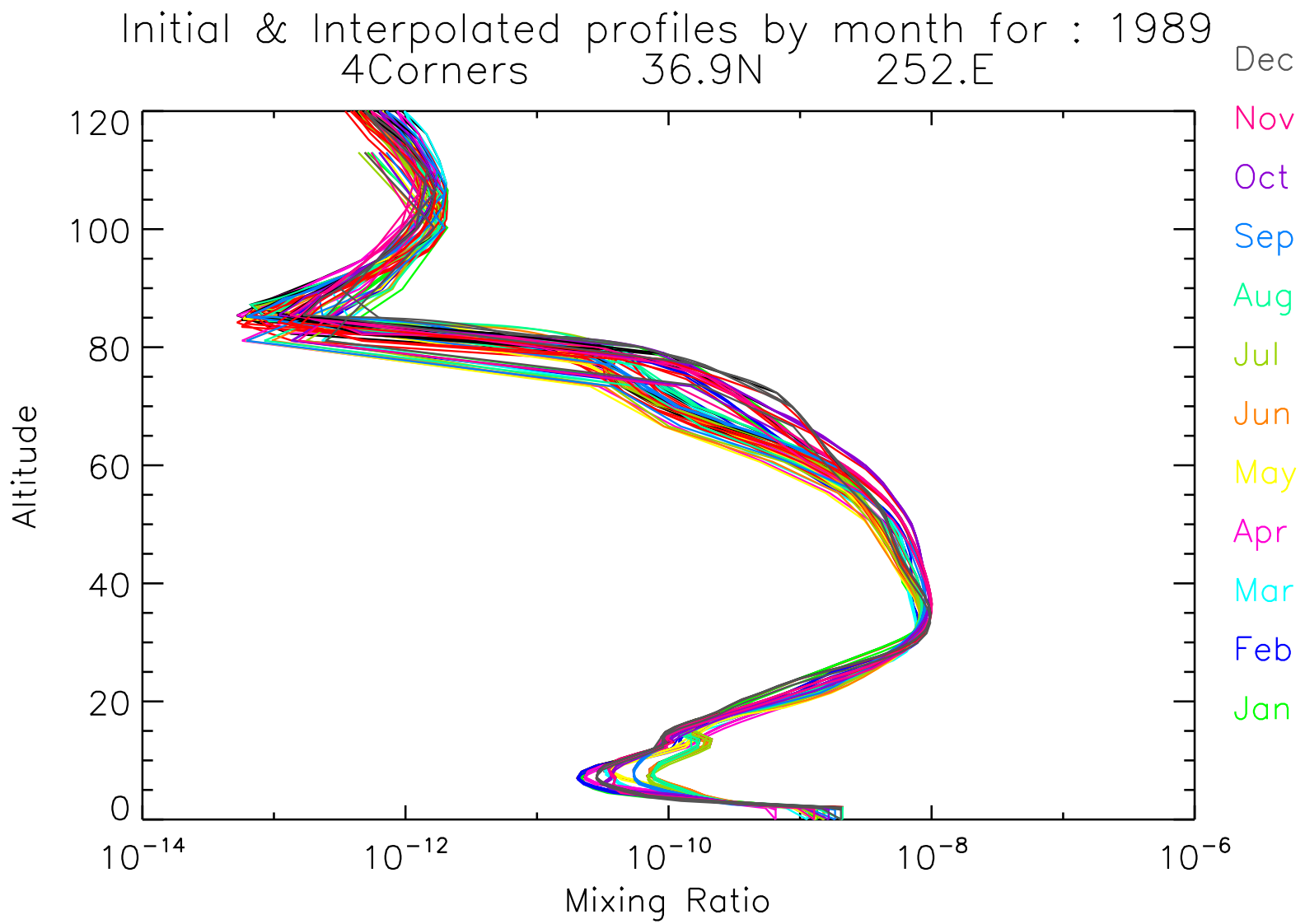
Initial & Interpolated profiles by month for : 1989
4Corners 36.9N 252.E
Dec
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Altitude
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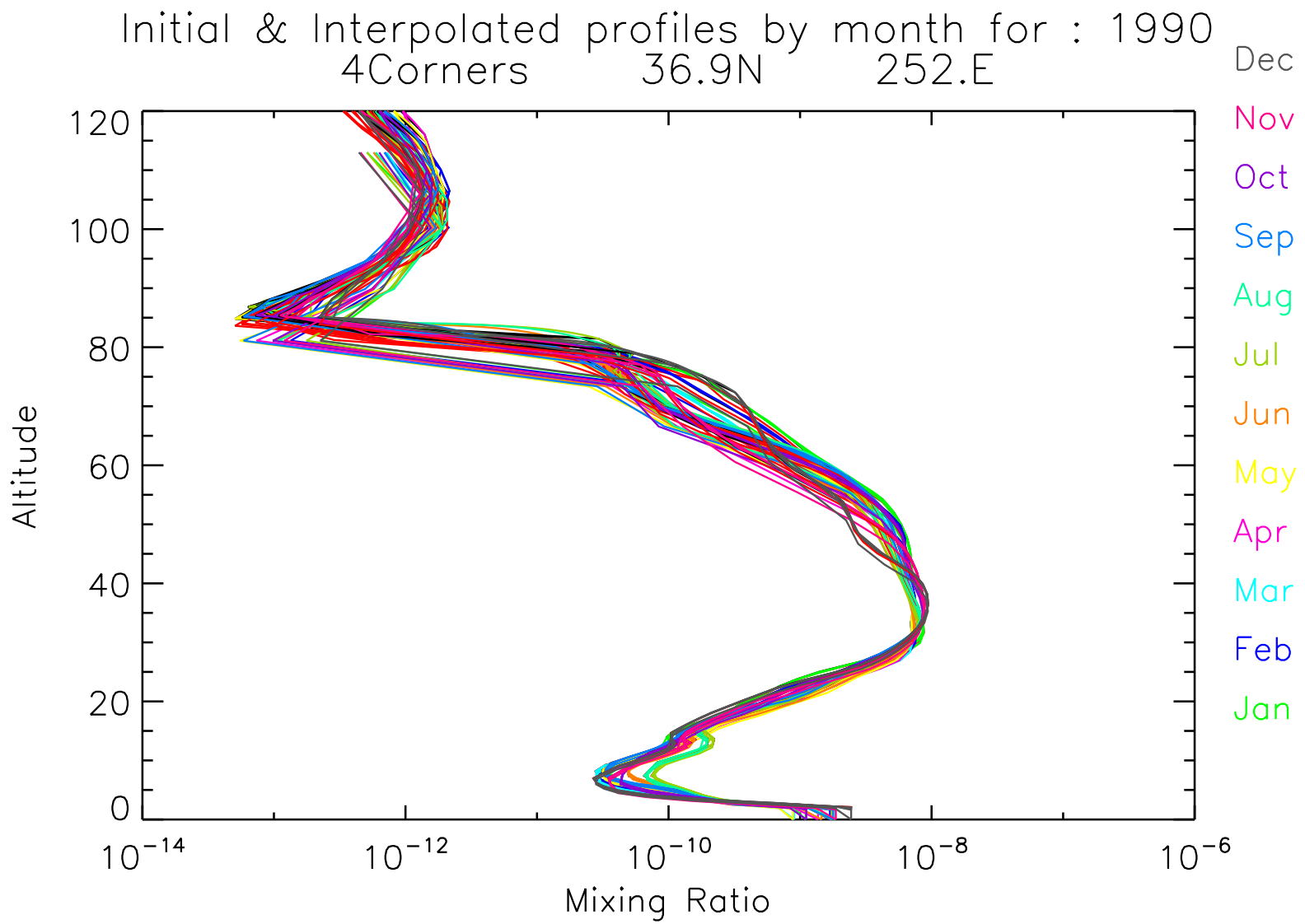
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
4Corners 36.9N 252.E
Altitude
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10^{-14}
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Mixing Ratio
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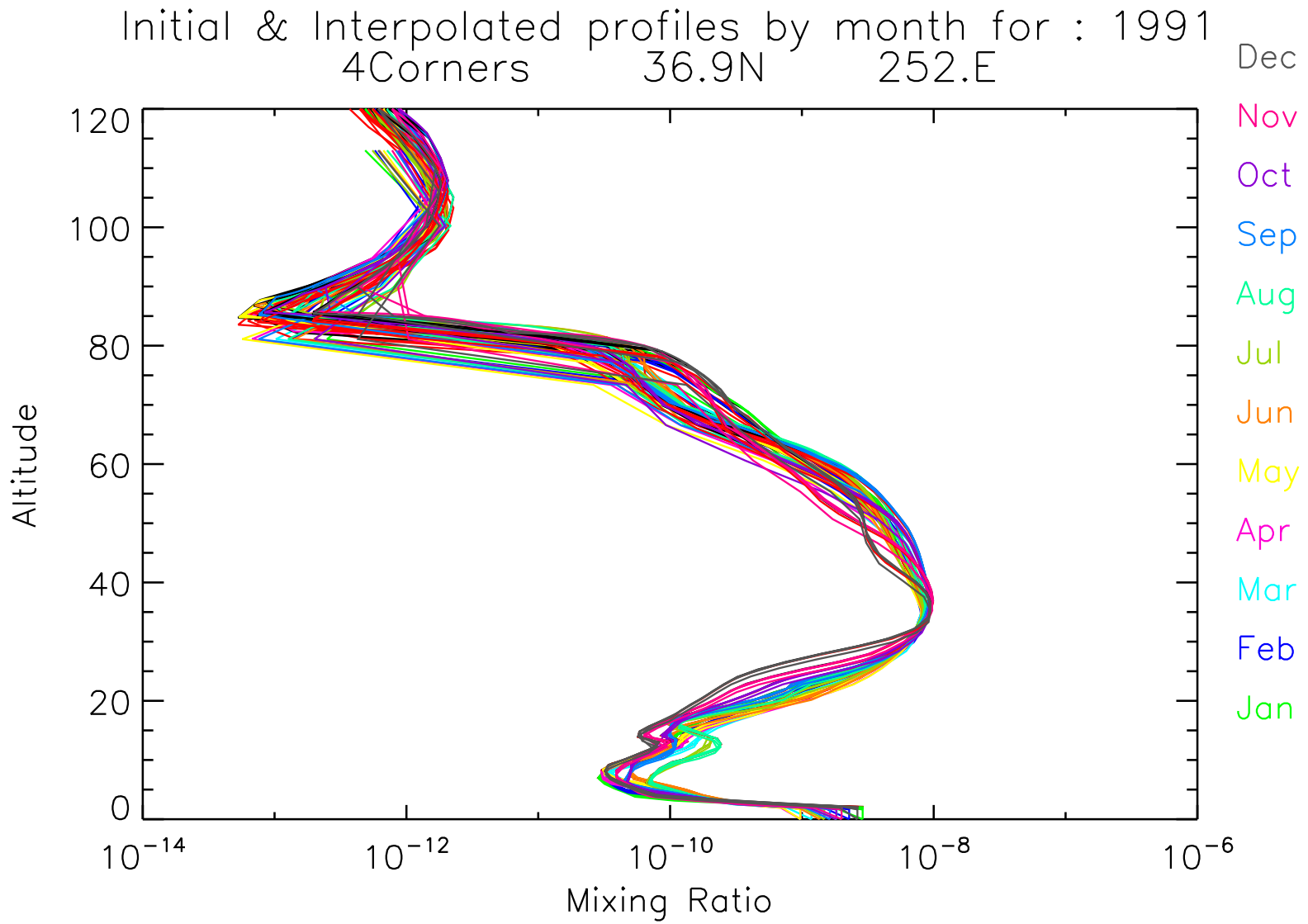
Initial & Interpolated profiles by month for : 1991
4Corners 36.9N 252.E
Dec
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Altitude
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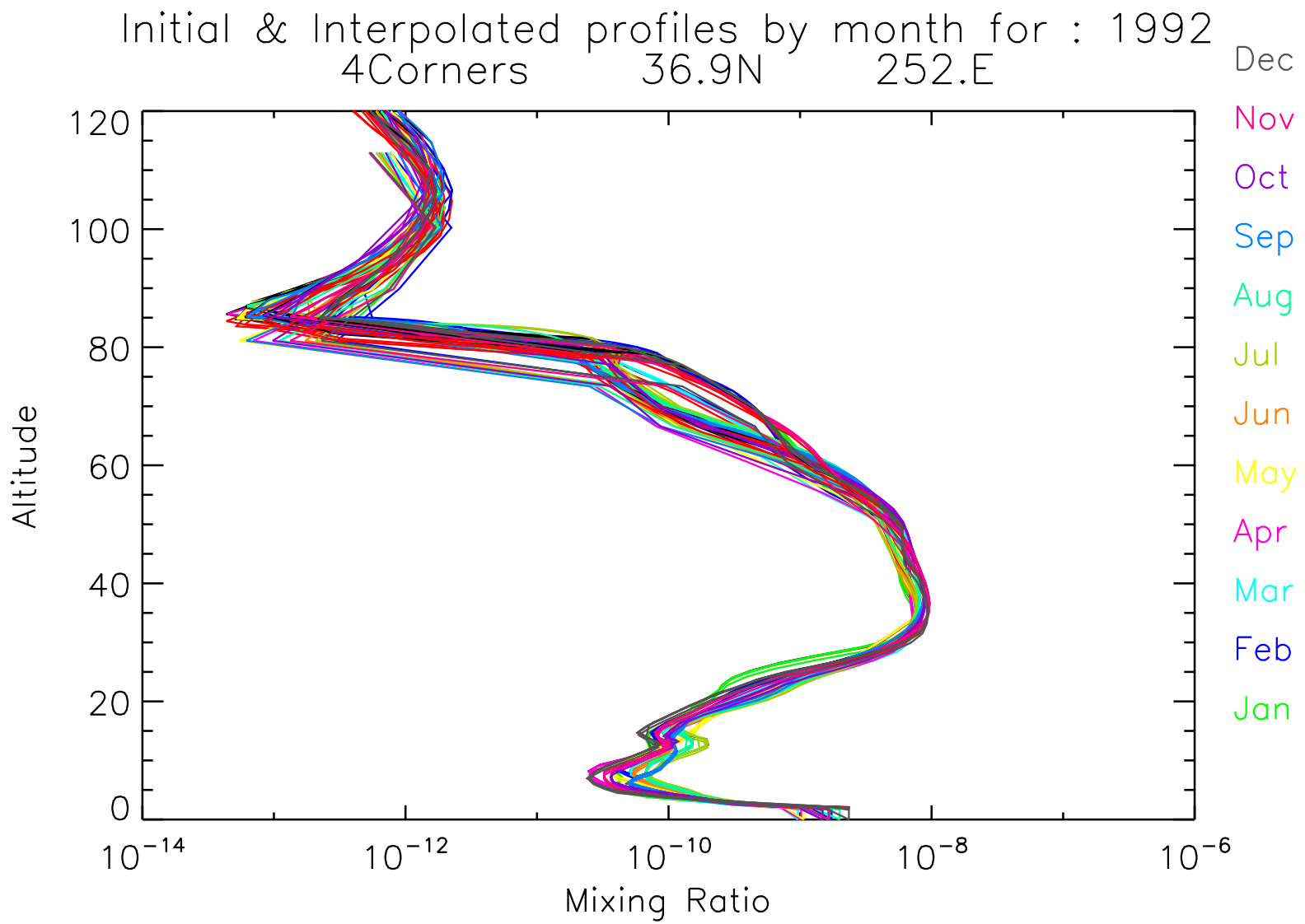
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
4Corners 36.9N 252.E
Dec
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Altitude
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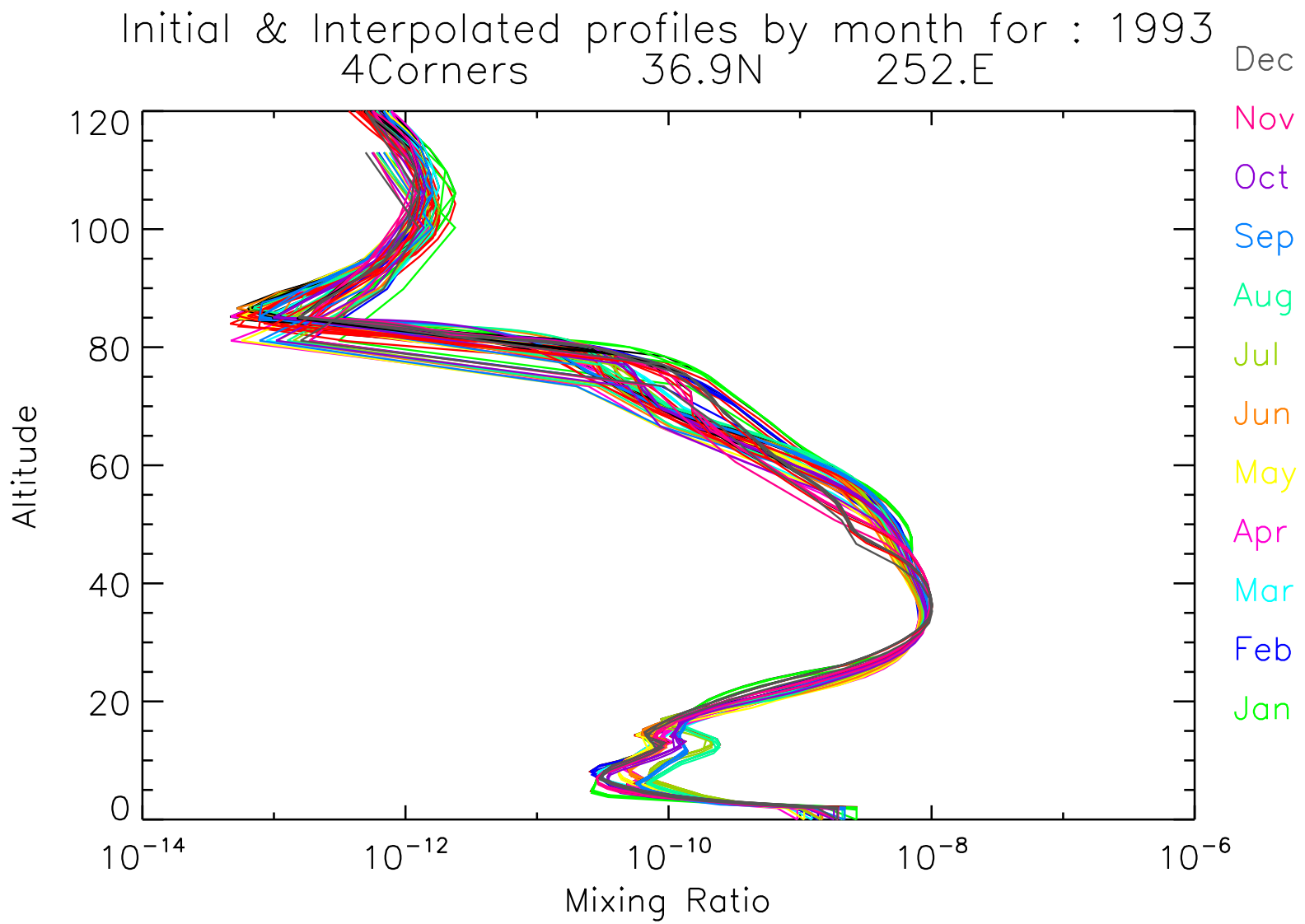
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
4Corners 36.9N 252.E
Dec
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Altitude
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10^{-10}
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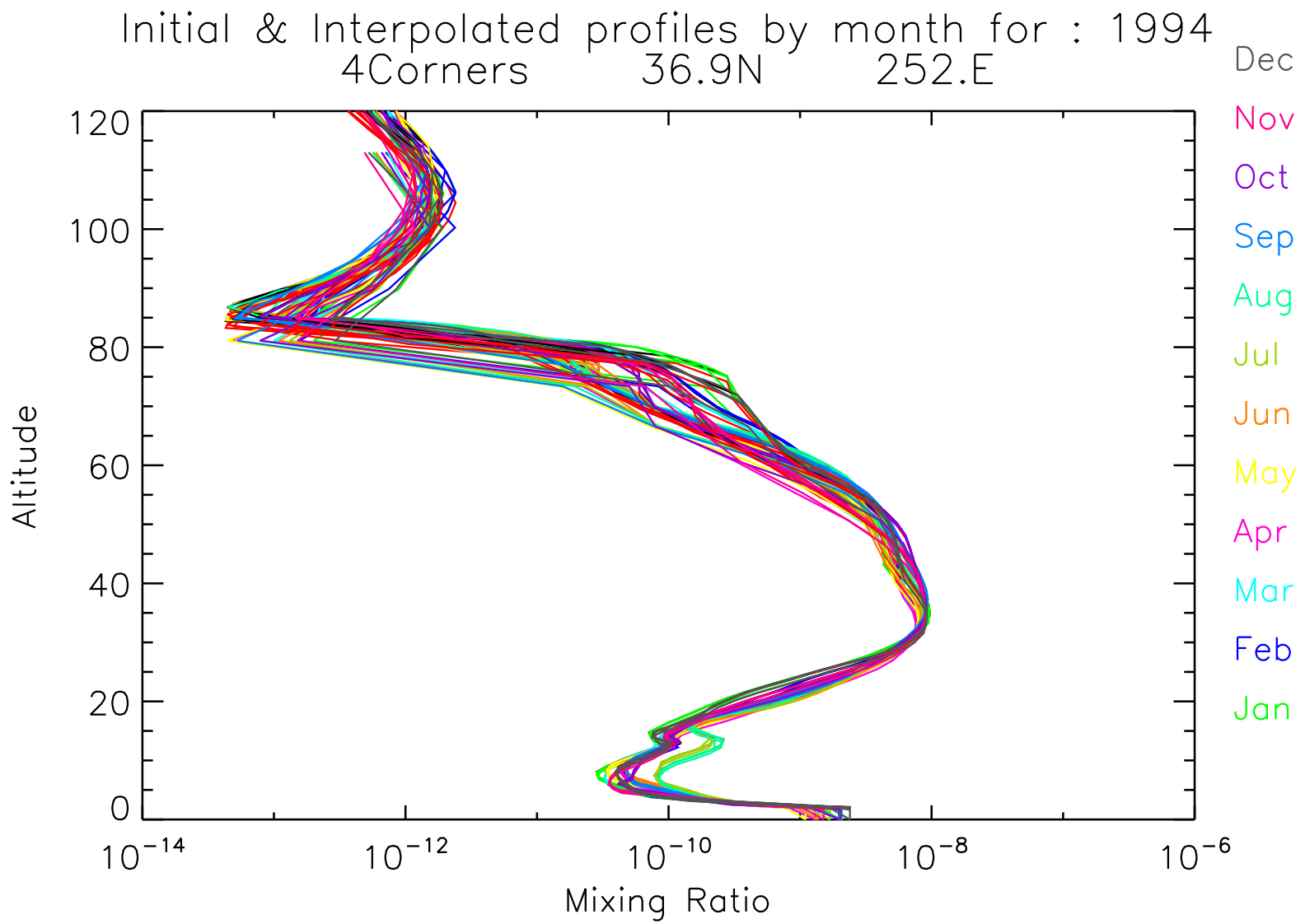
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
4Corners 36.9N 252.E
Dec
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Altitude
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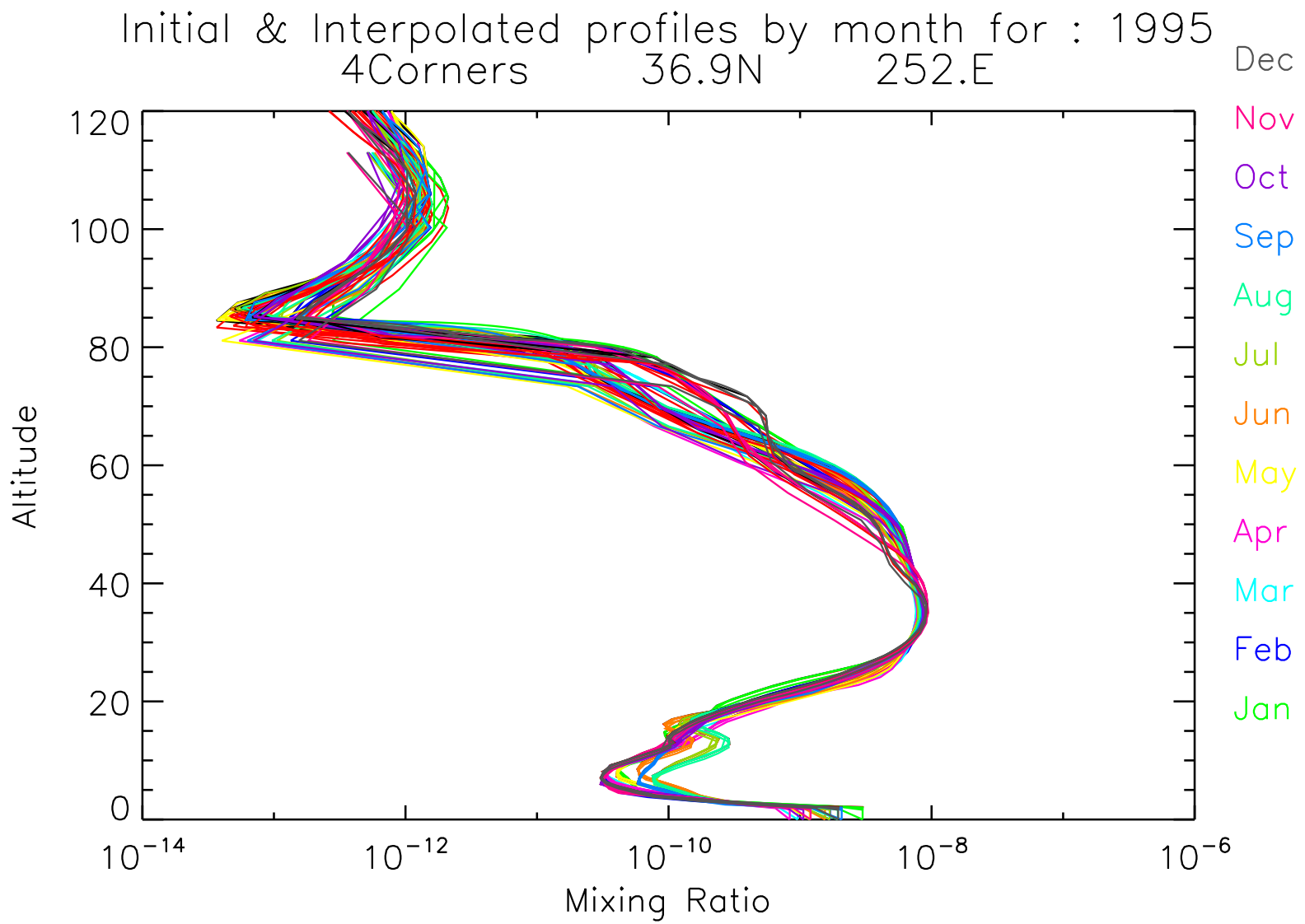
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
4Corners 36.9N 252.E
Dec
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Altitude
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10^{-10}
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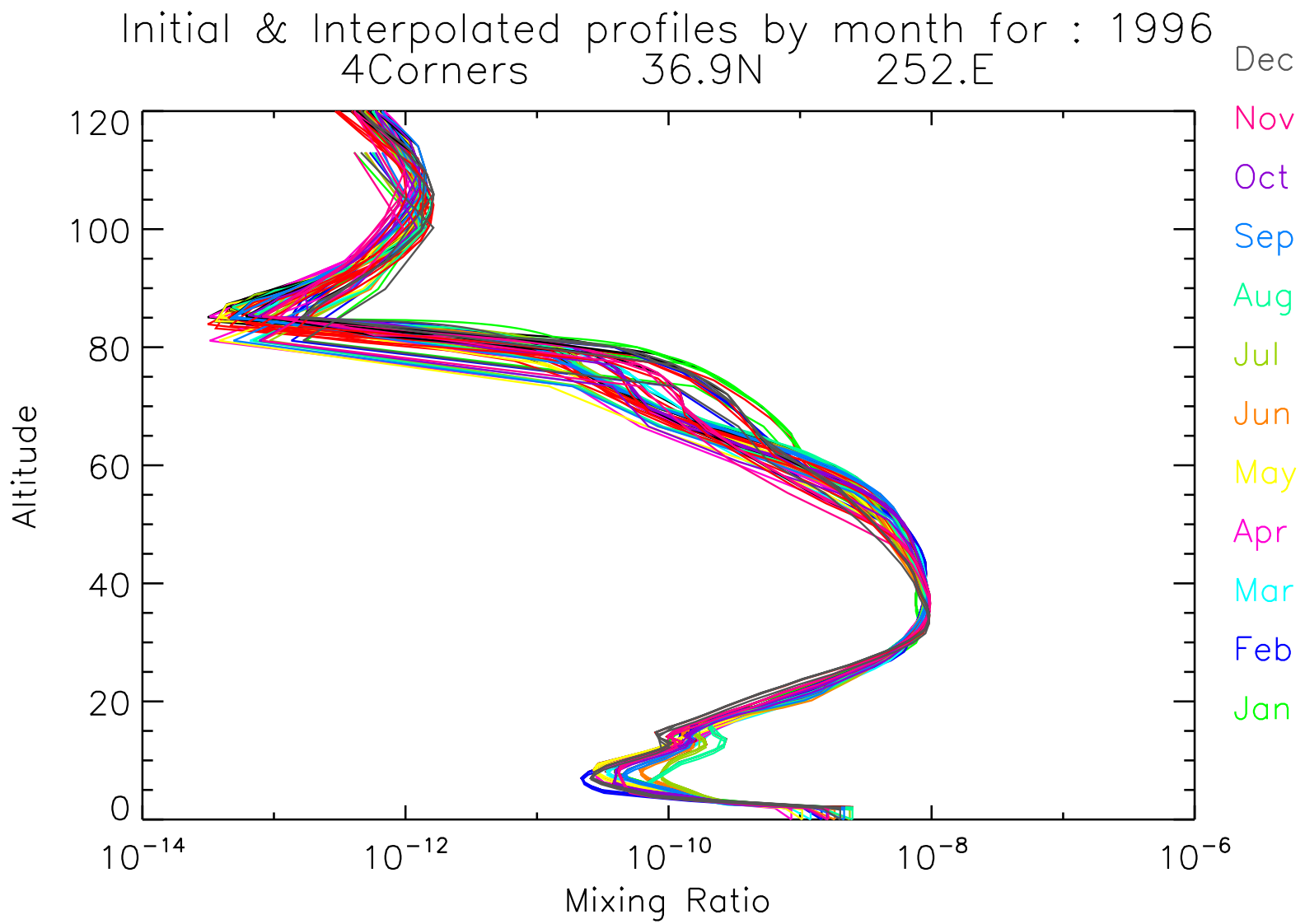
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
4Corners 36.9N 252.E
Altitude
120
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10^{-14}
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Mixing Ratio
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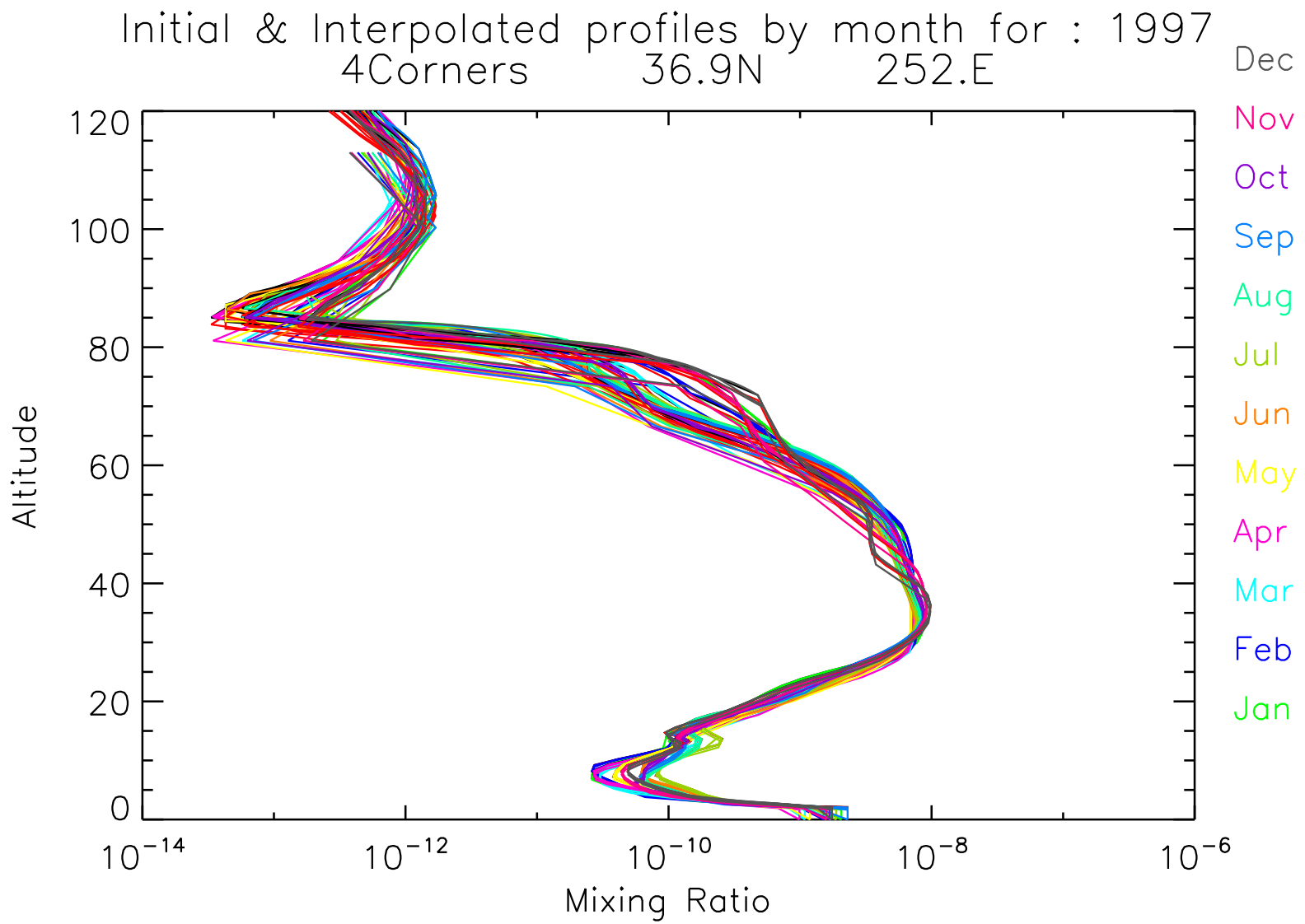
Initial & Interpolated profiles by month for : 1997
4Corners 36.9N 252.E
Altitude
120
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10^{-14}
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Mixing Ratio
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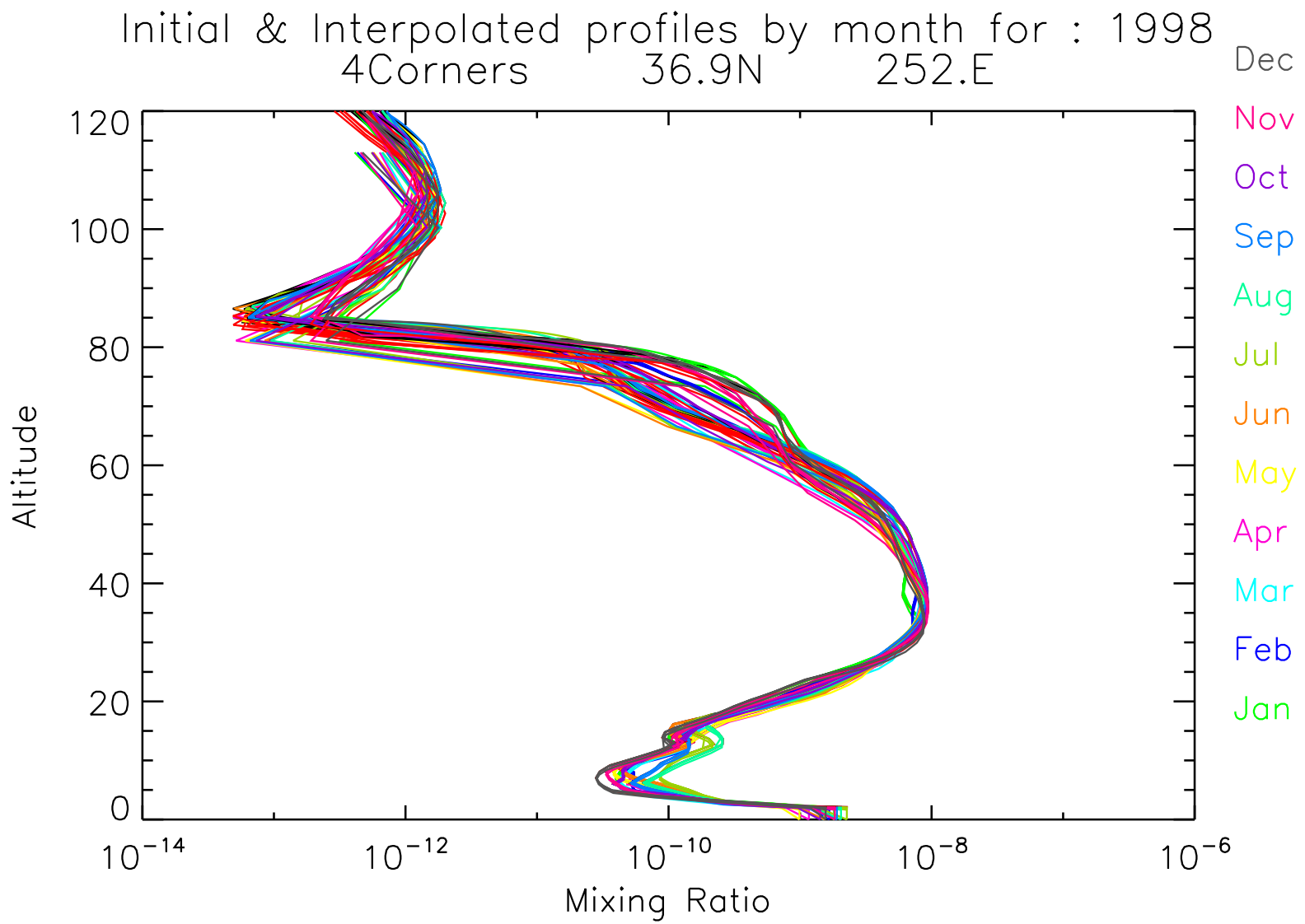
Initial & Interpolated profiles by month for : 1998
4Corners 36.9N 252.E
Altitude
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10^{-14}
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Mixing Ratio
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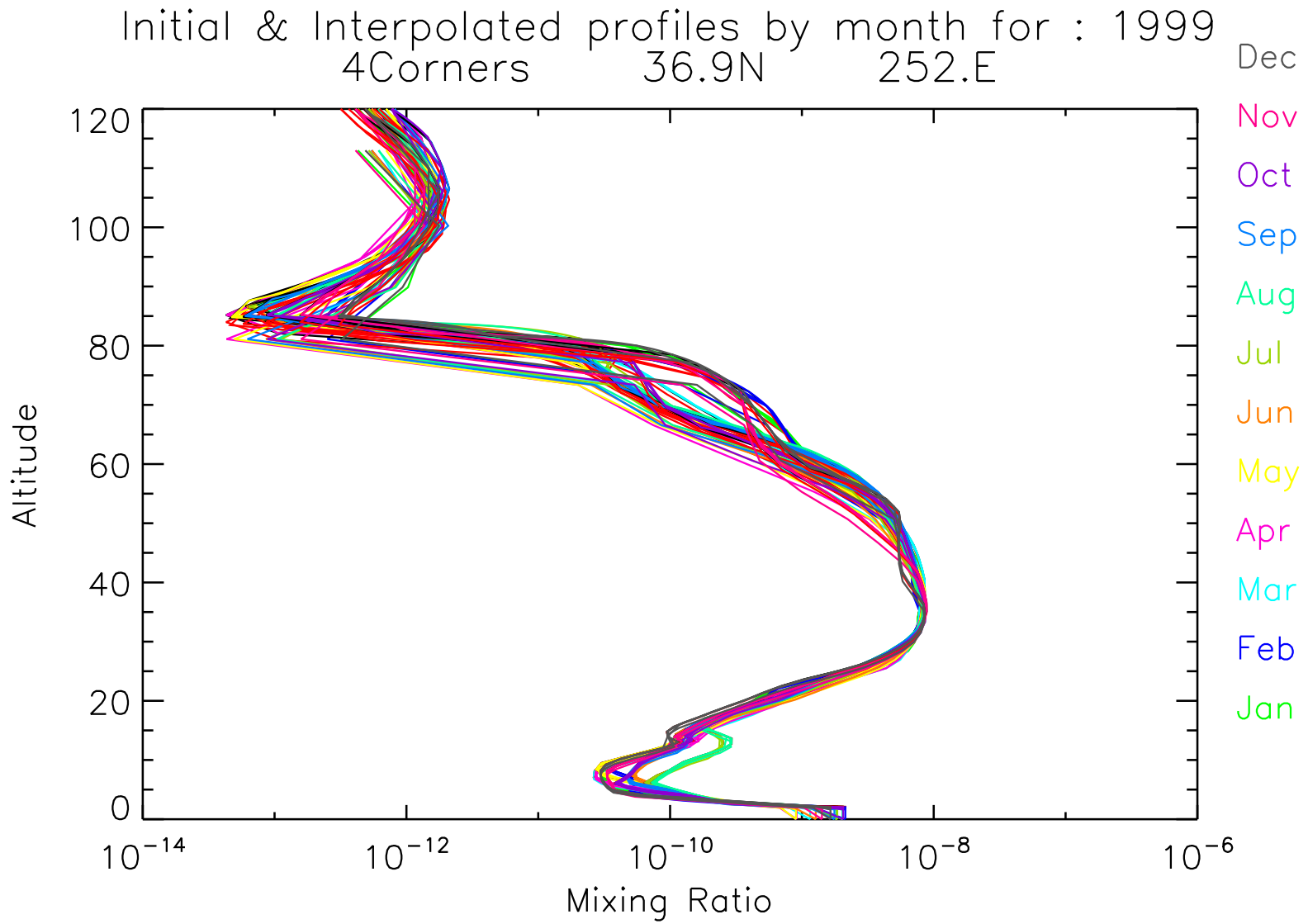
Initial & Interpolated profiles by month for : 1999
4Corners 36.9N 252.E
Altitude
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10^{-14}
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10^{-6}
Mixing Ratio
Dec
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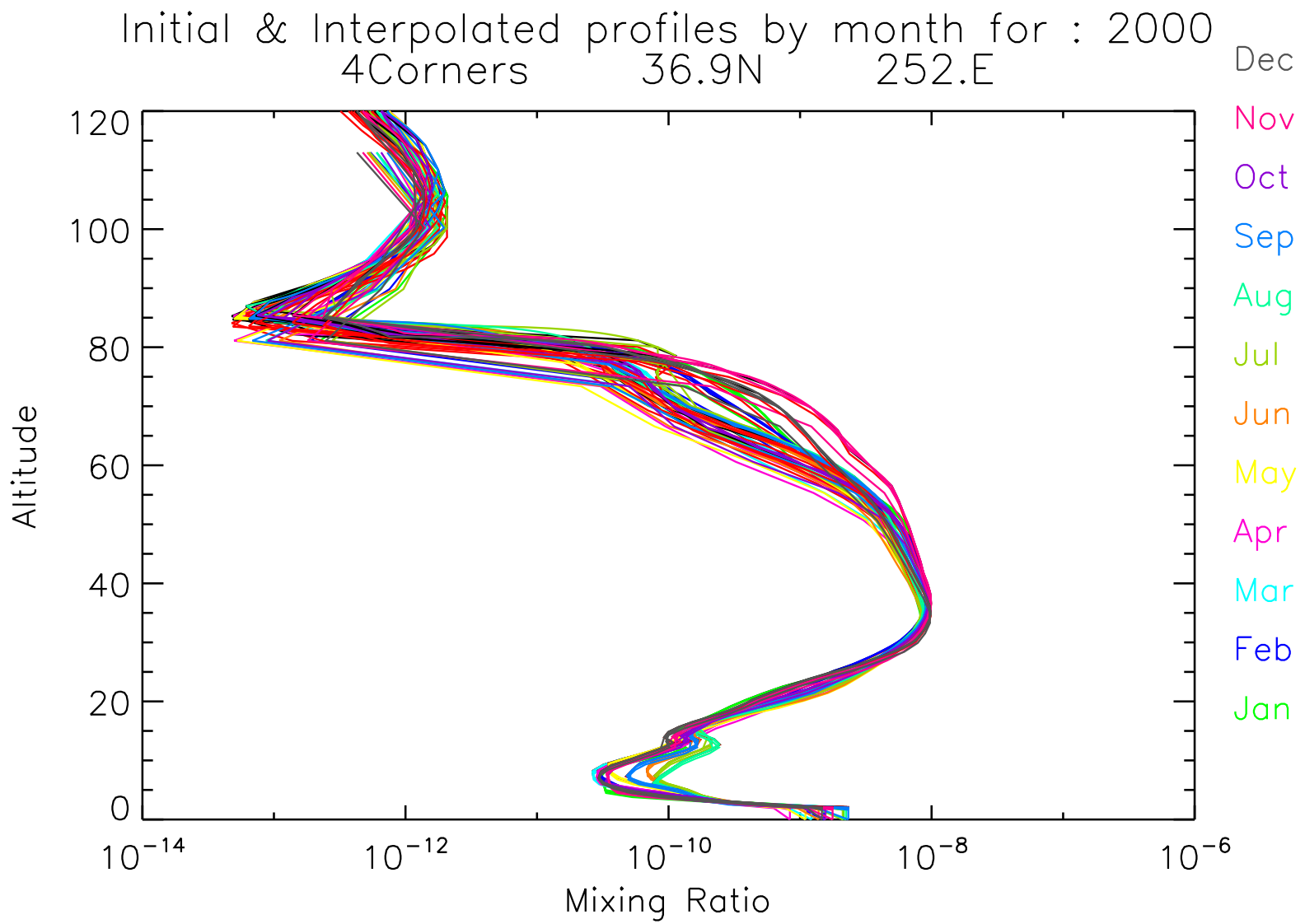
Initial & Interpolated profiles by month for : 2000
4Corners 36.9N 252.E
Altitude
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10^{-14}
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Mixing Ratio
Dec
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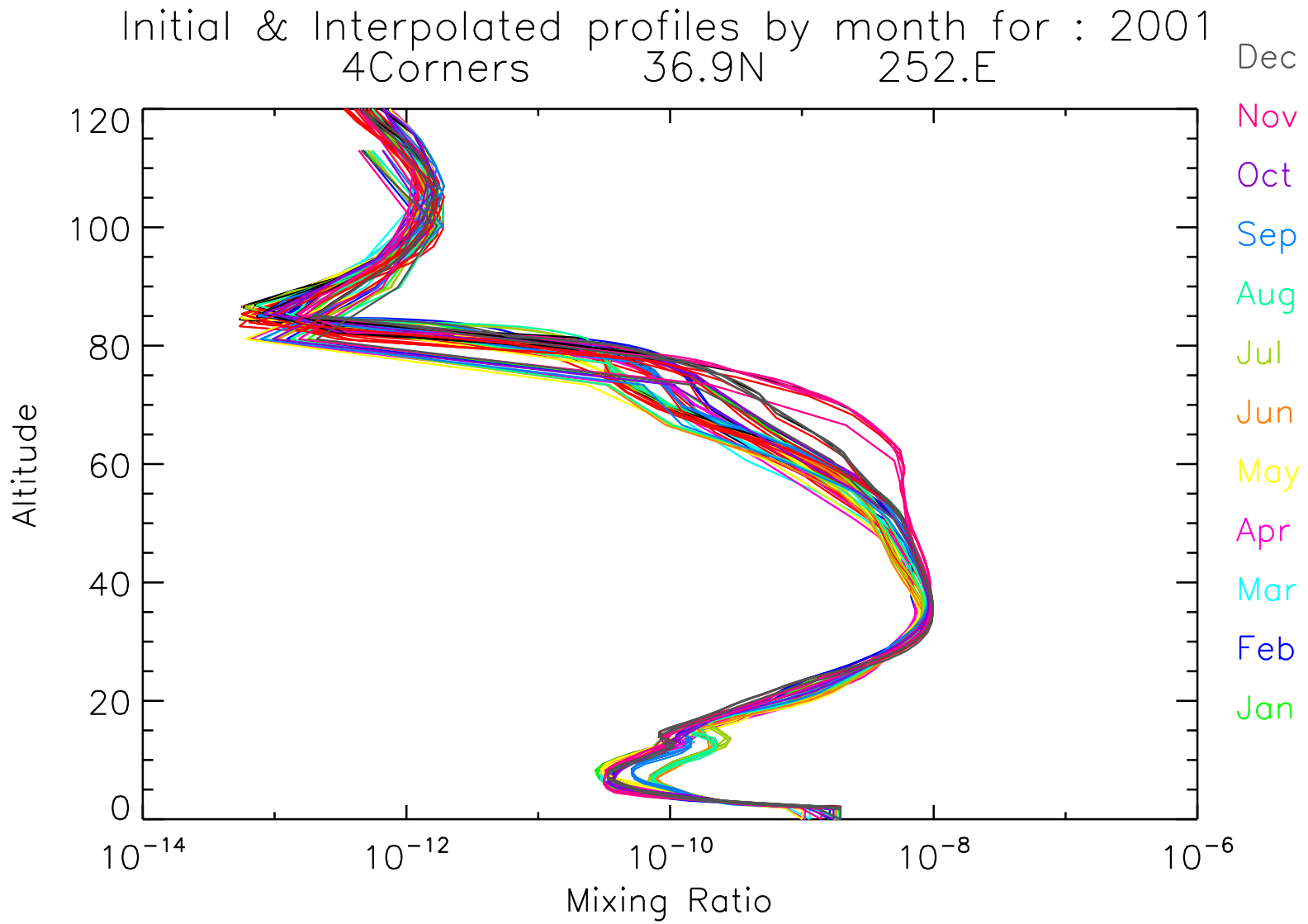
Jan


Initial & Interpolated profiles by month for : 2001
4Corners 36.9N 252.E
Altitude
120
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10^{-14}
10^{-12}
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10^{-6}
Mixing Ratio
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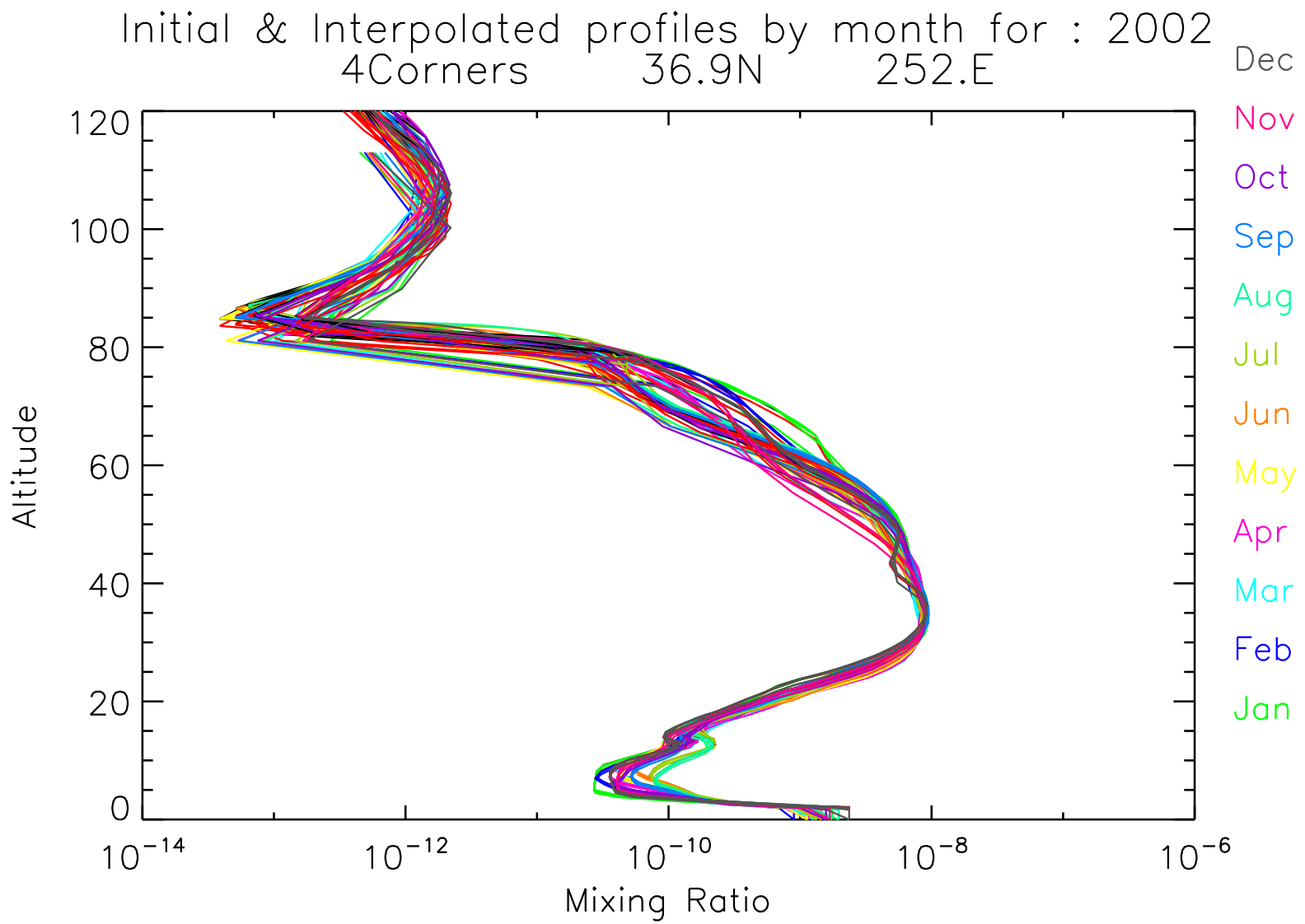
Jan


Initial & Interpolated profiles by month for : 2002
4Corners 36.9N 252.E
Dec
Nov
Oct
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Jun
May
Apr
Mar
Feb
Jan
120
100
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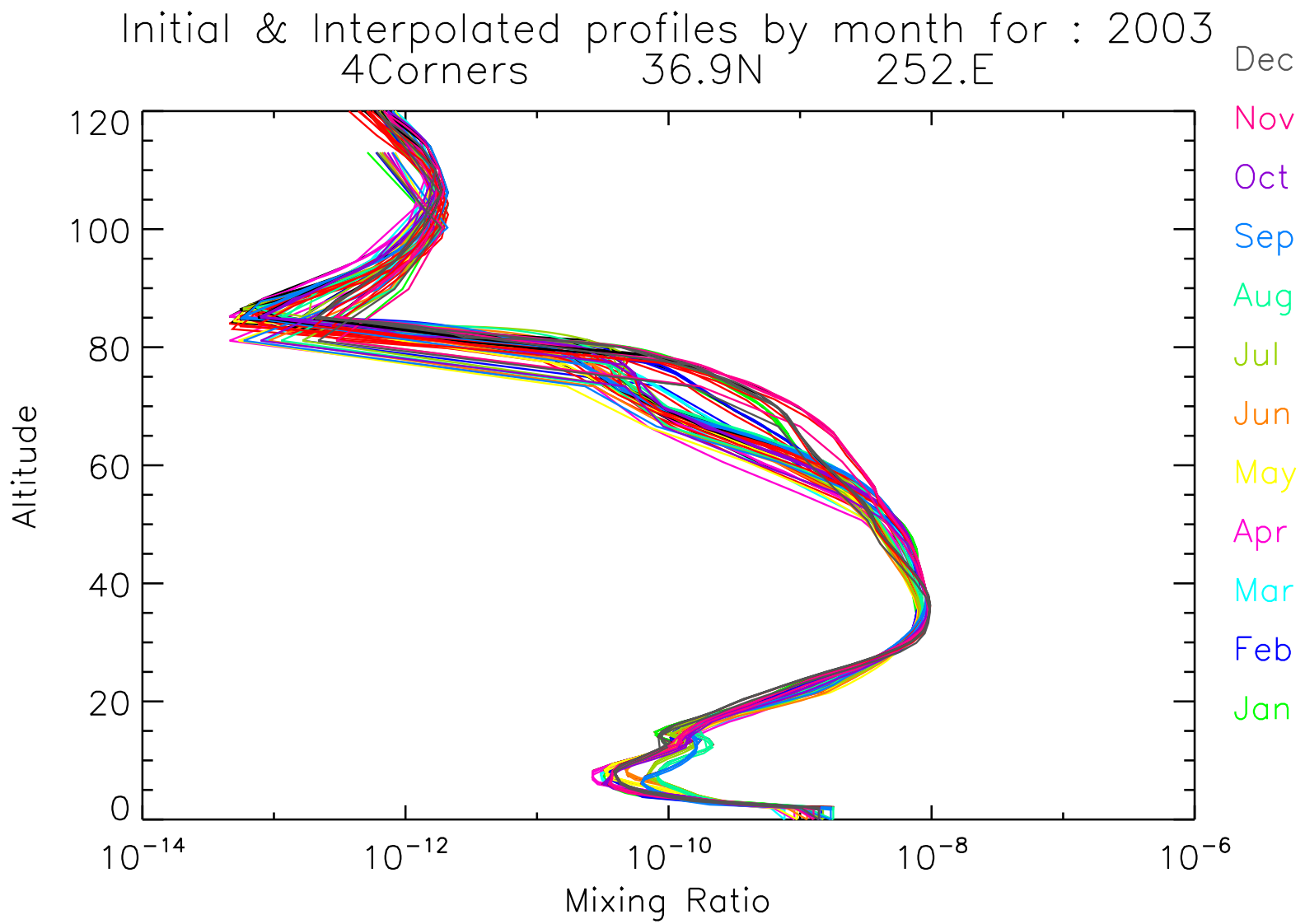
20
0
Altitude
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
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Altitude
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40
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10^{-14}
10^{-12}
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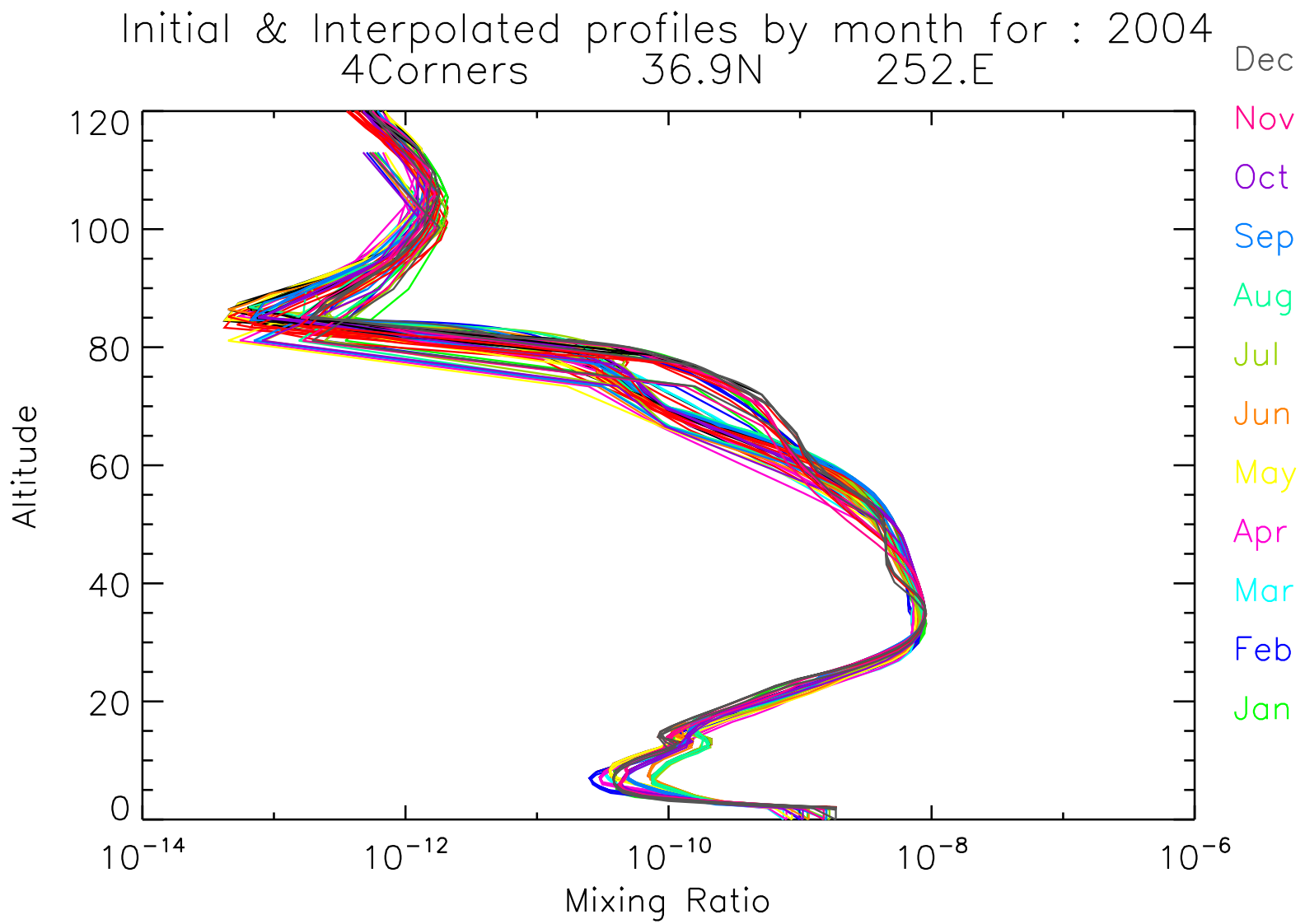
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
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Jun
May
Apr
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Feb
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0
Altitude
10^{-14}
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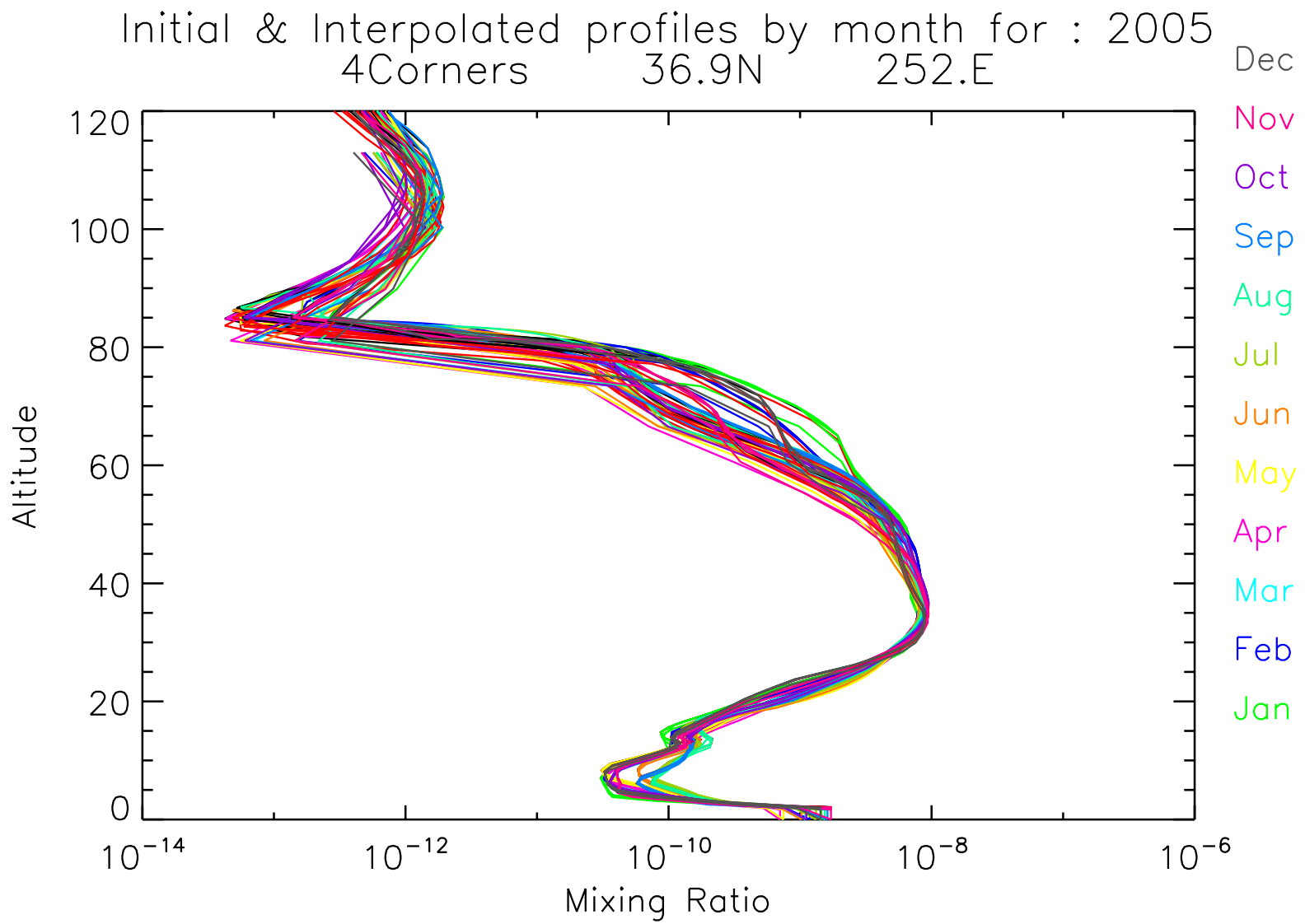
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
4Corners 36.9N 252.E
Dec
Nov
Oct
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Apr
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Feb
Jan
Altitude
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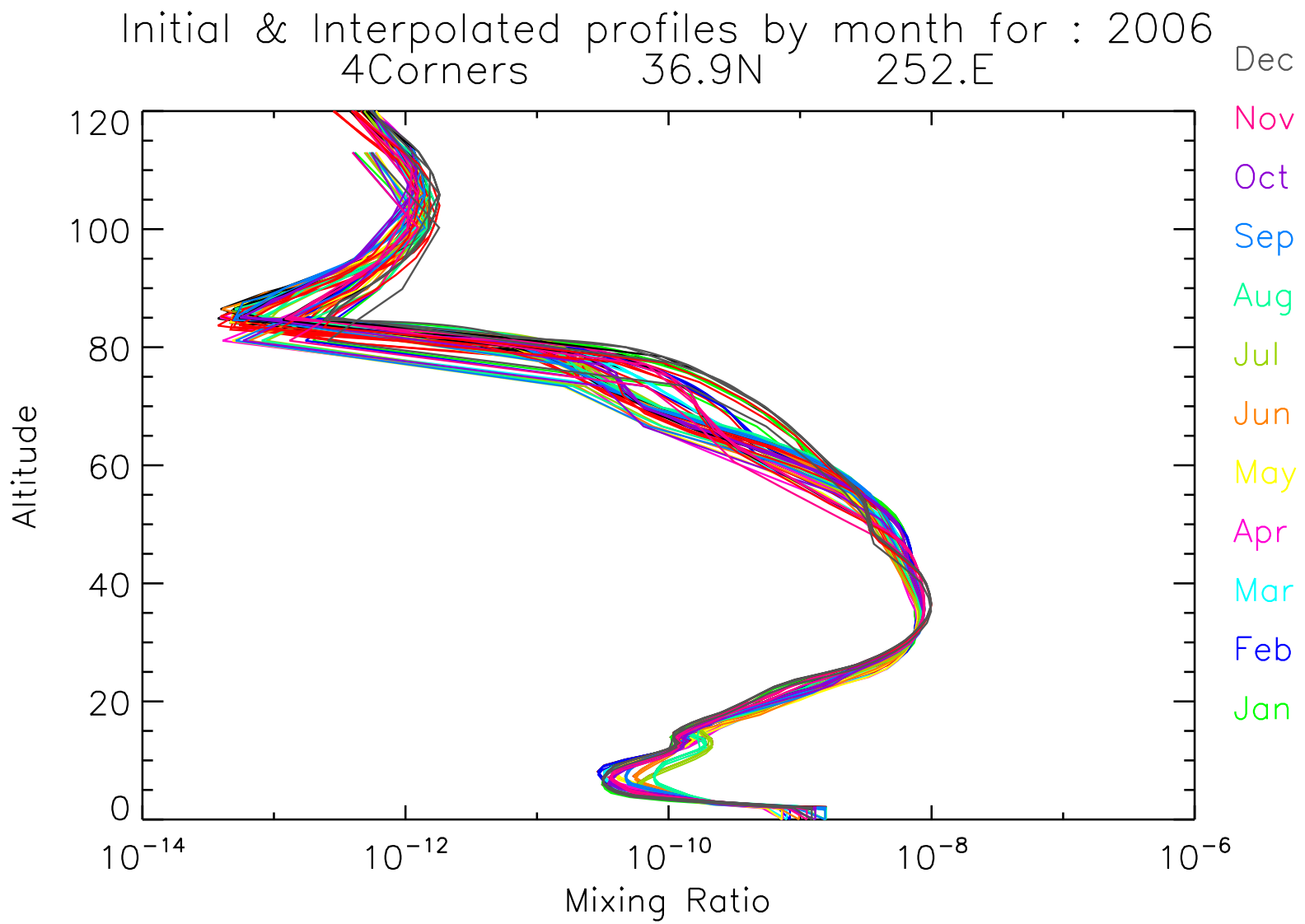
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
4Corners 36.9N 252.E
Altitude
120
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10^{-14}
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10^{-6}
Mixing Ratio
Dec
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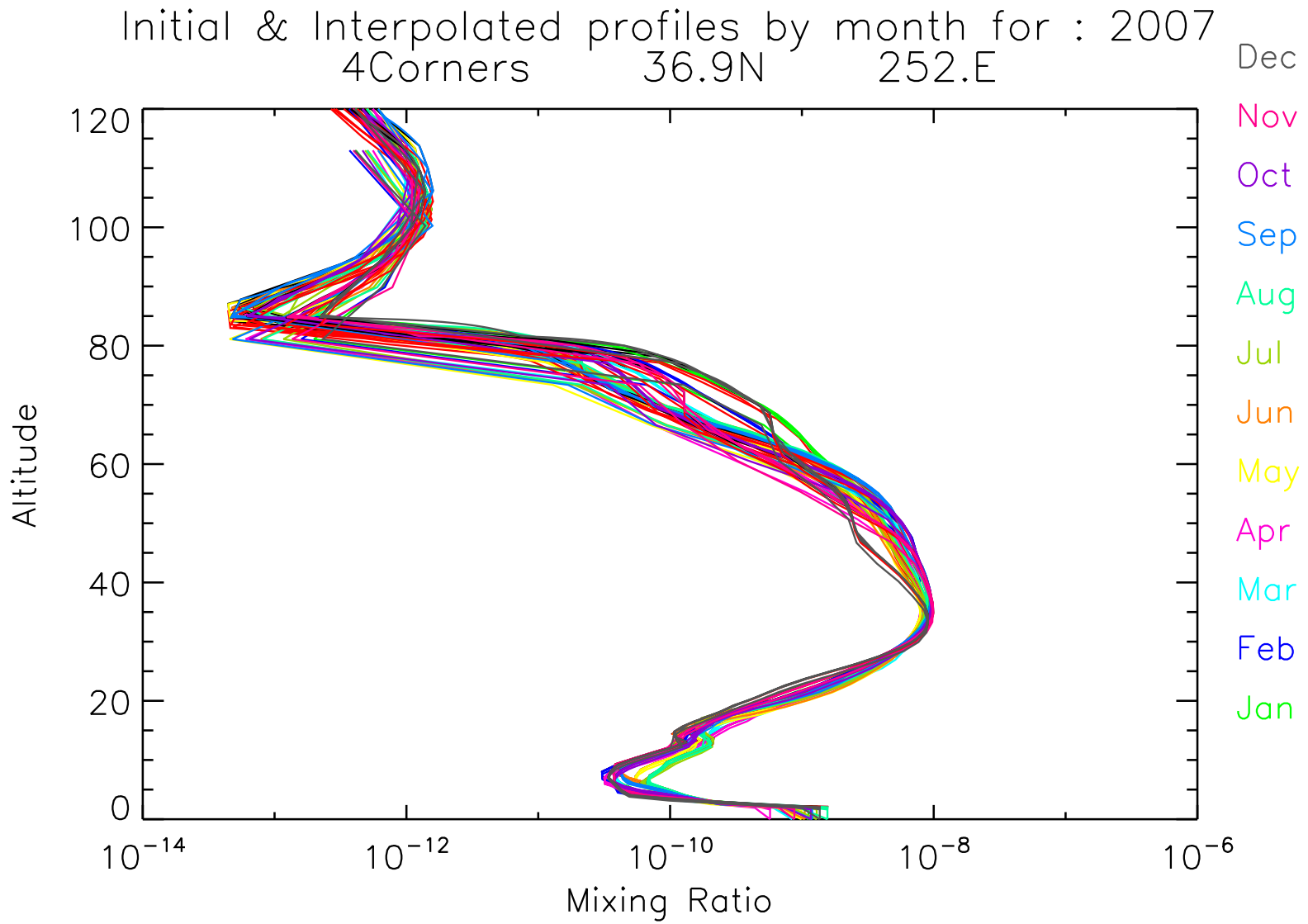
Initial & Interpolated profiles by month for : 2007
4Corners 36.9N 252.E
Dec
Nov
Oct
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Feb
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Altitude
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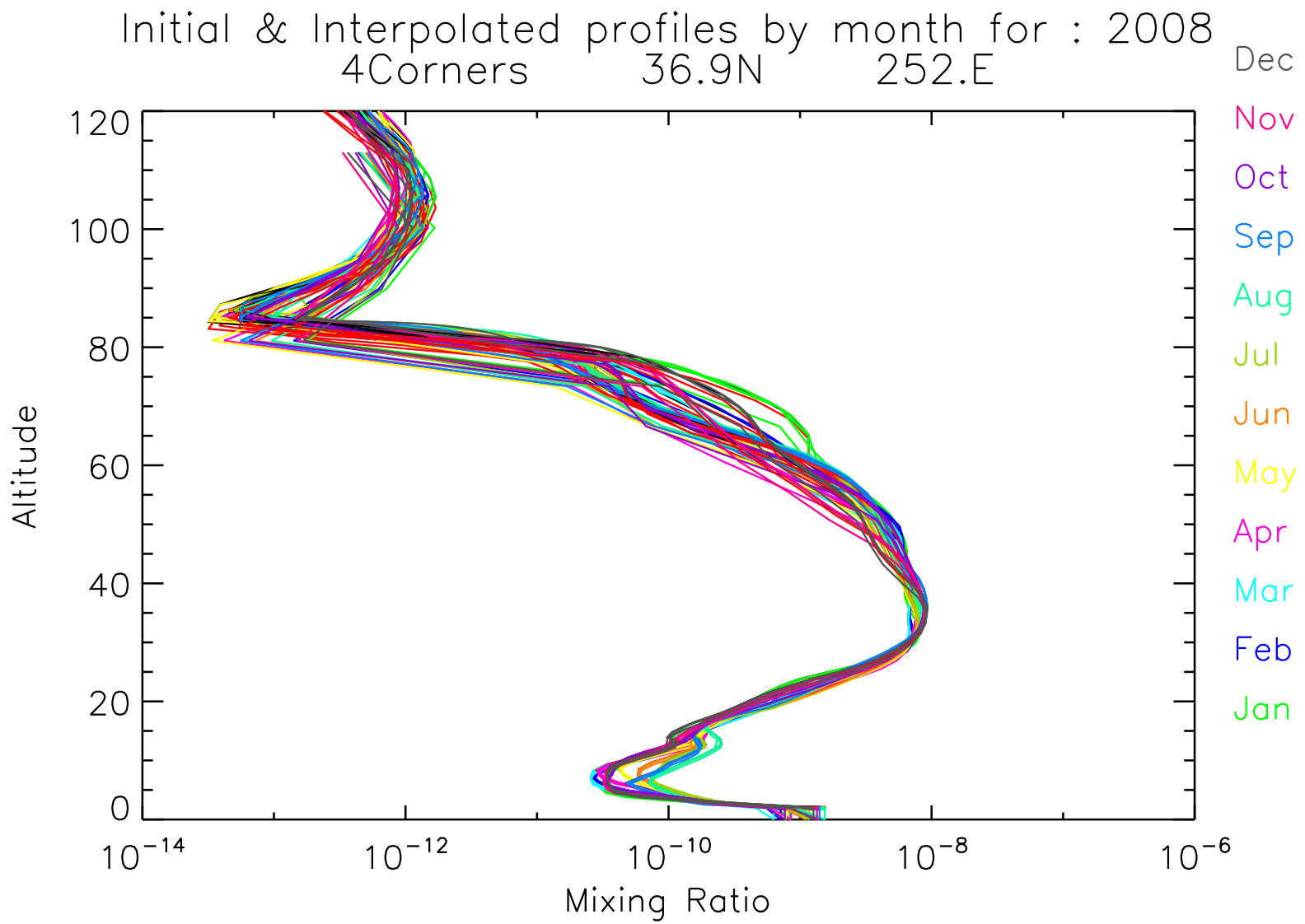
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
4Corners 36.9N 252.E
Dec
Nov
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Feb
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Altitude
10^{-14}
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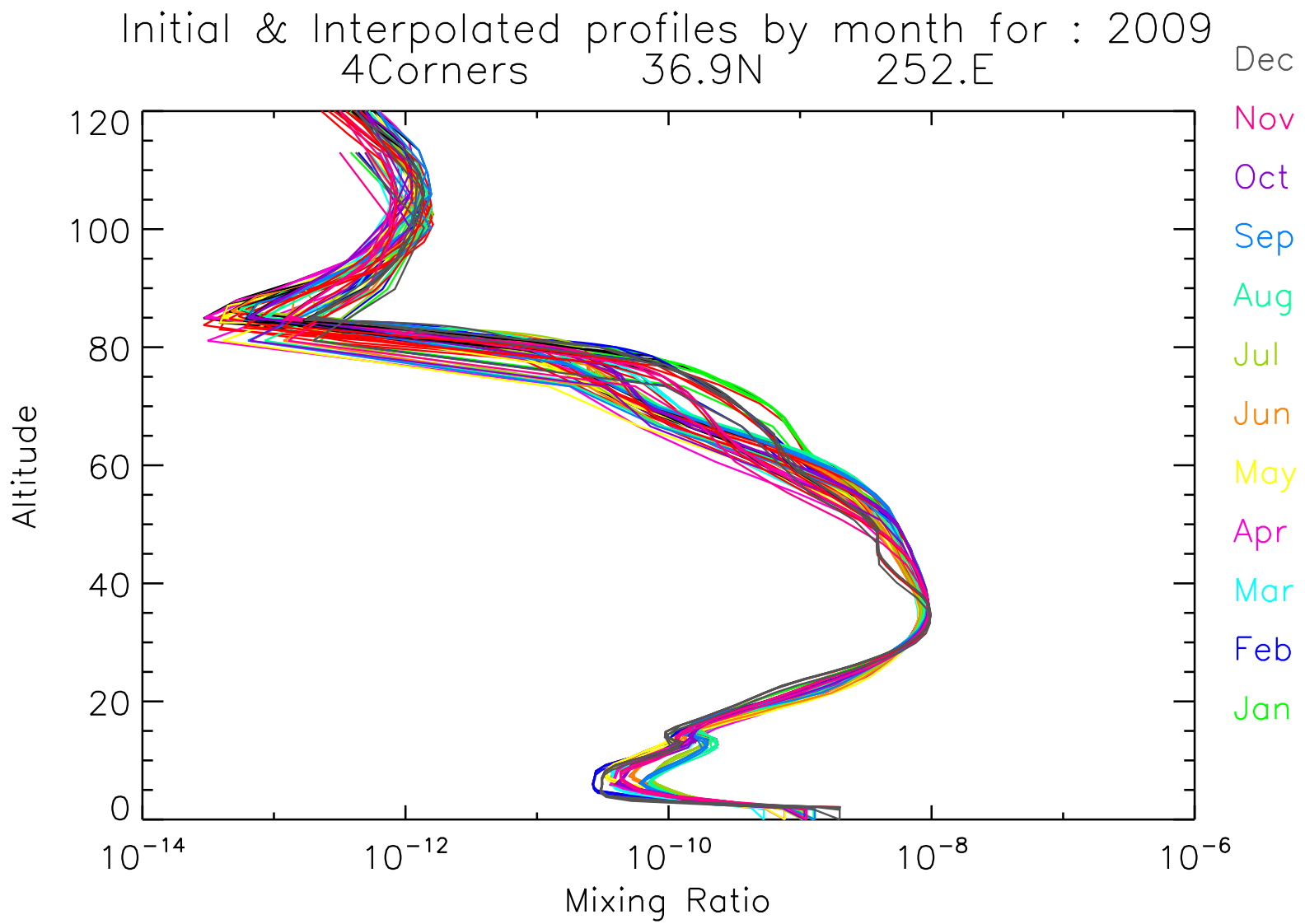
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
4Corners 36.9N 252.E
Dec
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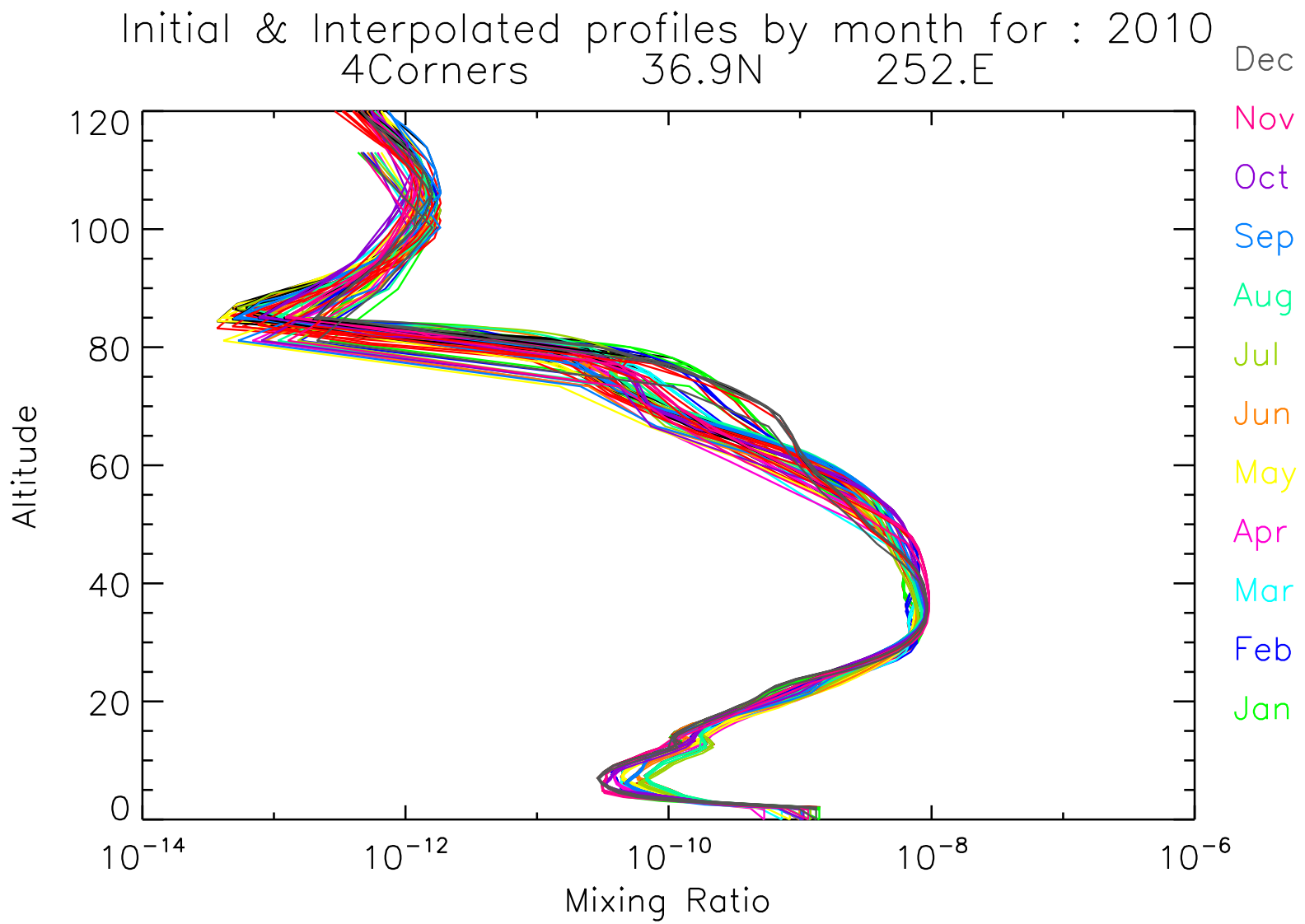
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
4Corners 36.9N 252.E
Altitude
120
100
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10^{-14}
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10^{-6}
Mixing Ratio
Dec
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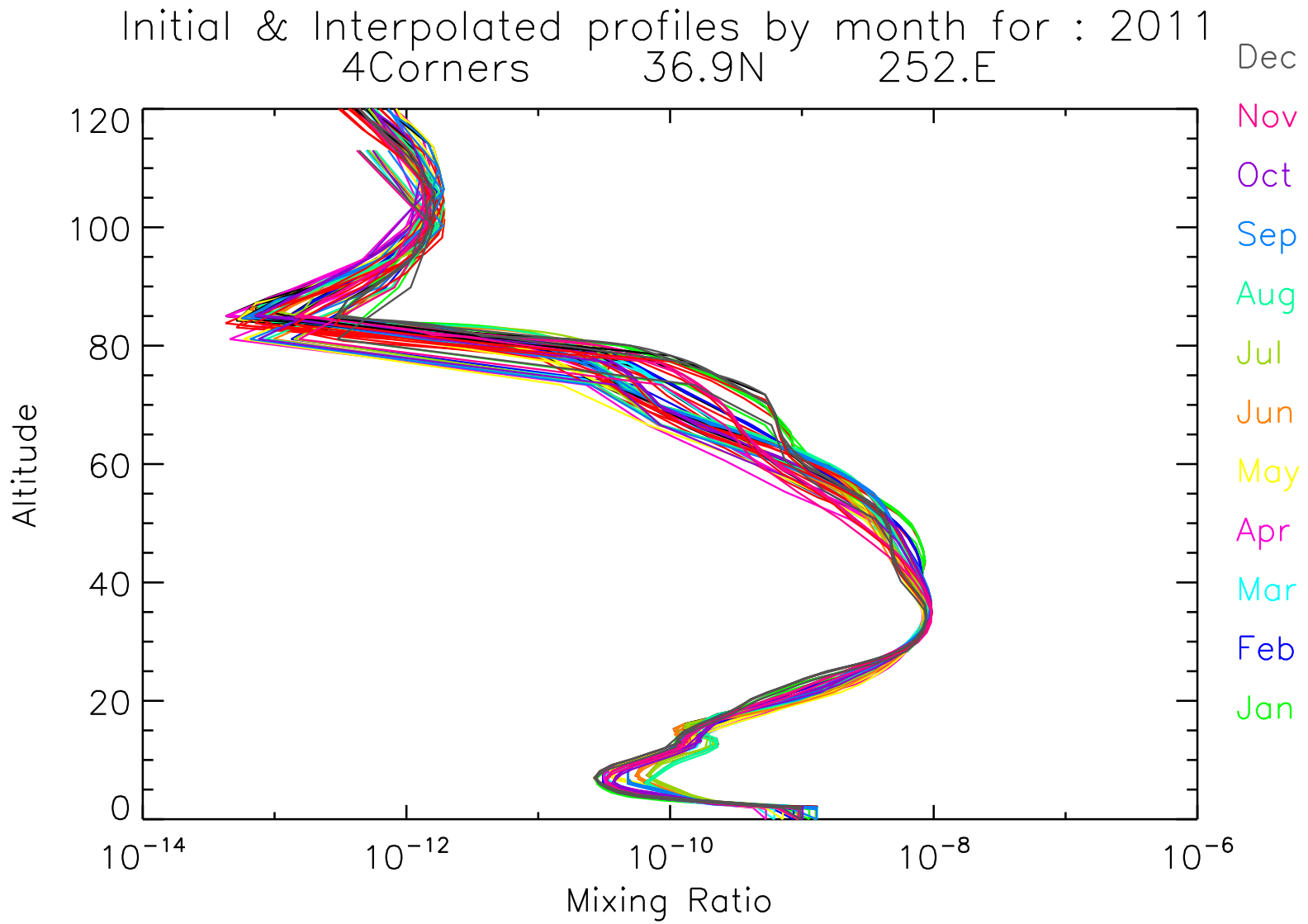
Initial & Interpolated profiles by month for : 2011
4Corners 36.9N 252.E
Dec
Nov
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Jan
120
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Altitude
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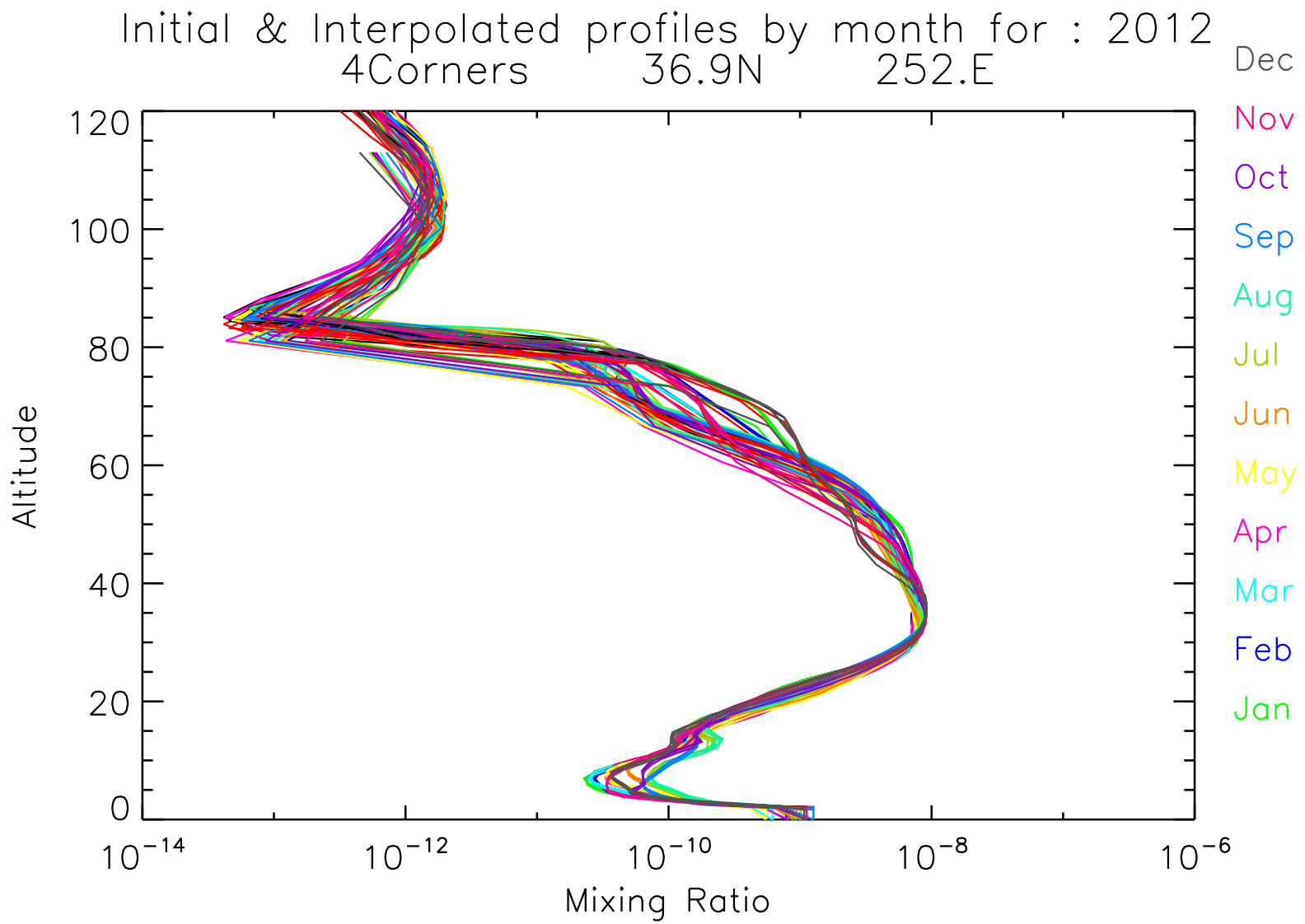
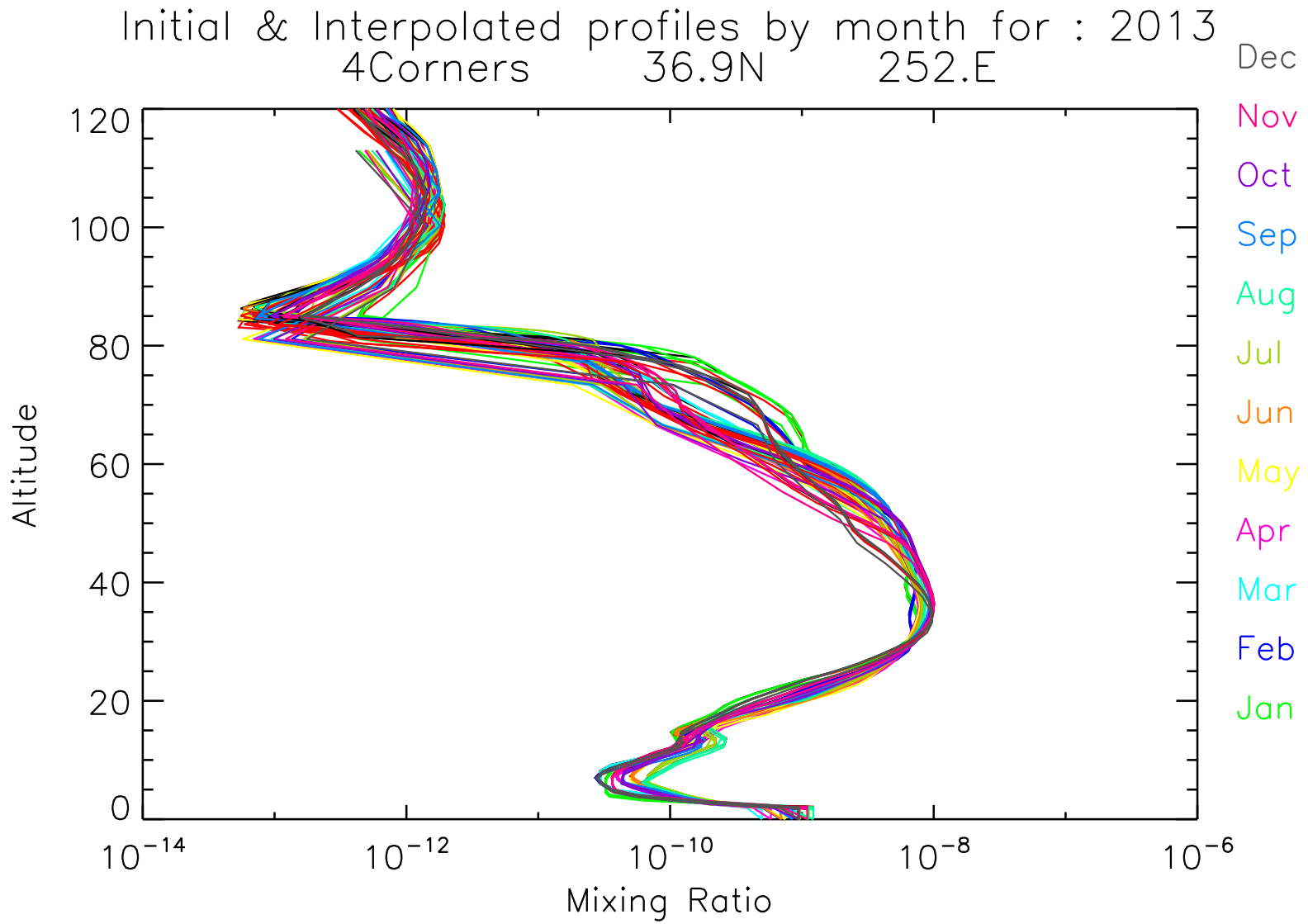
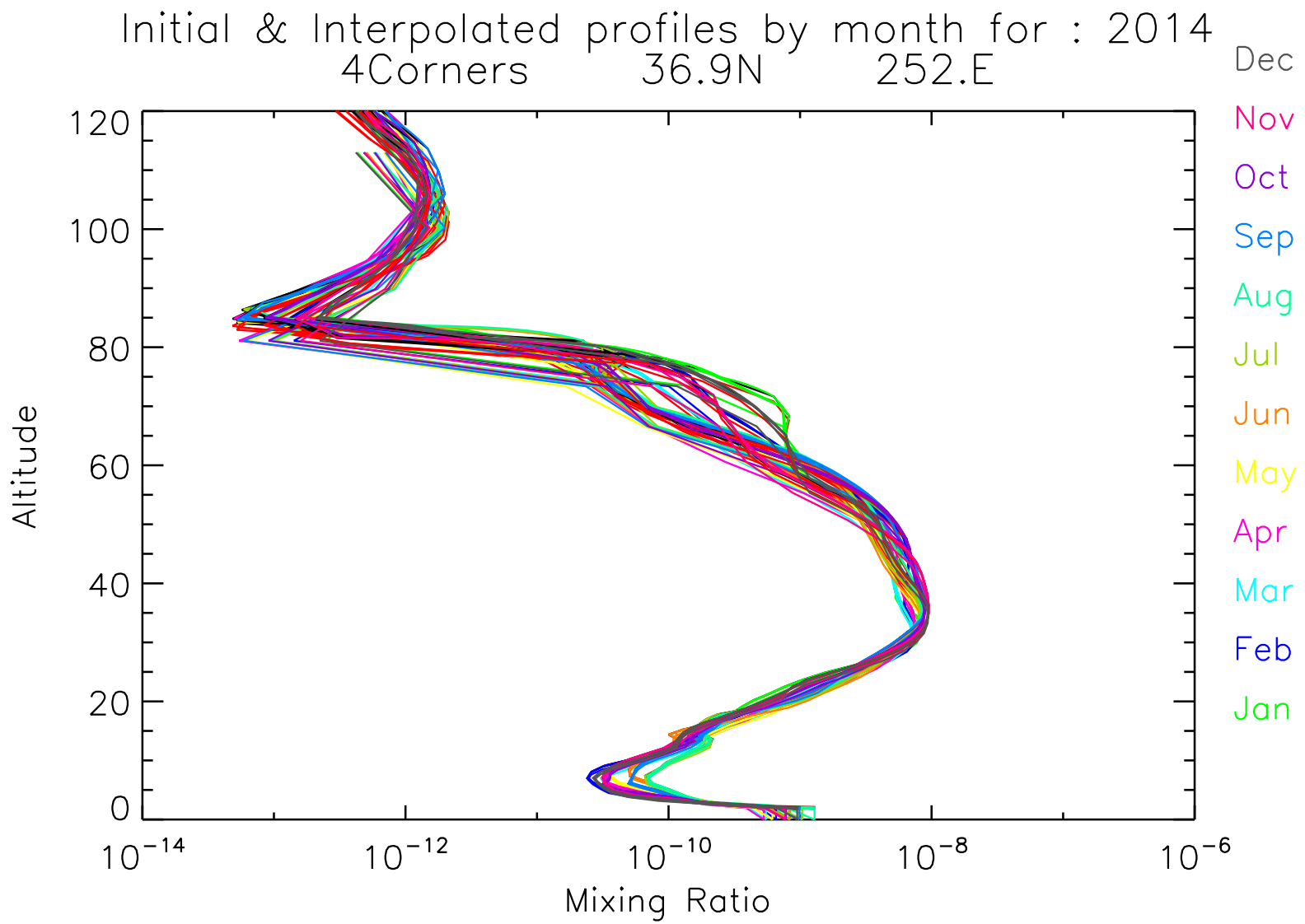
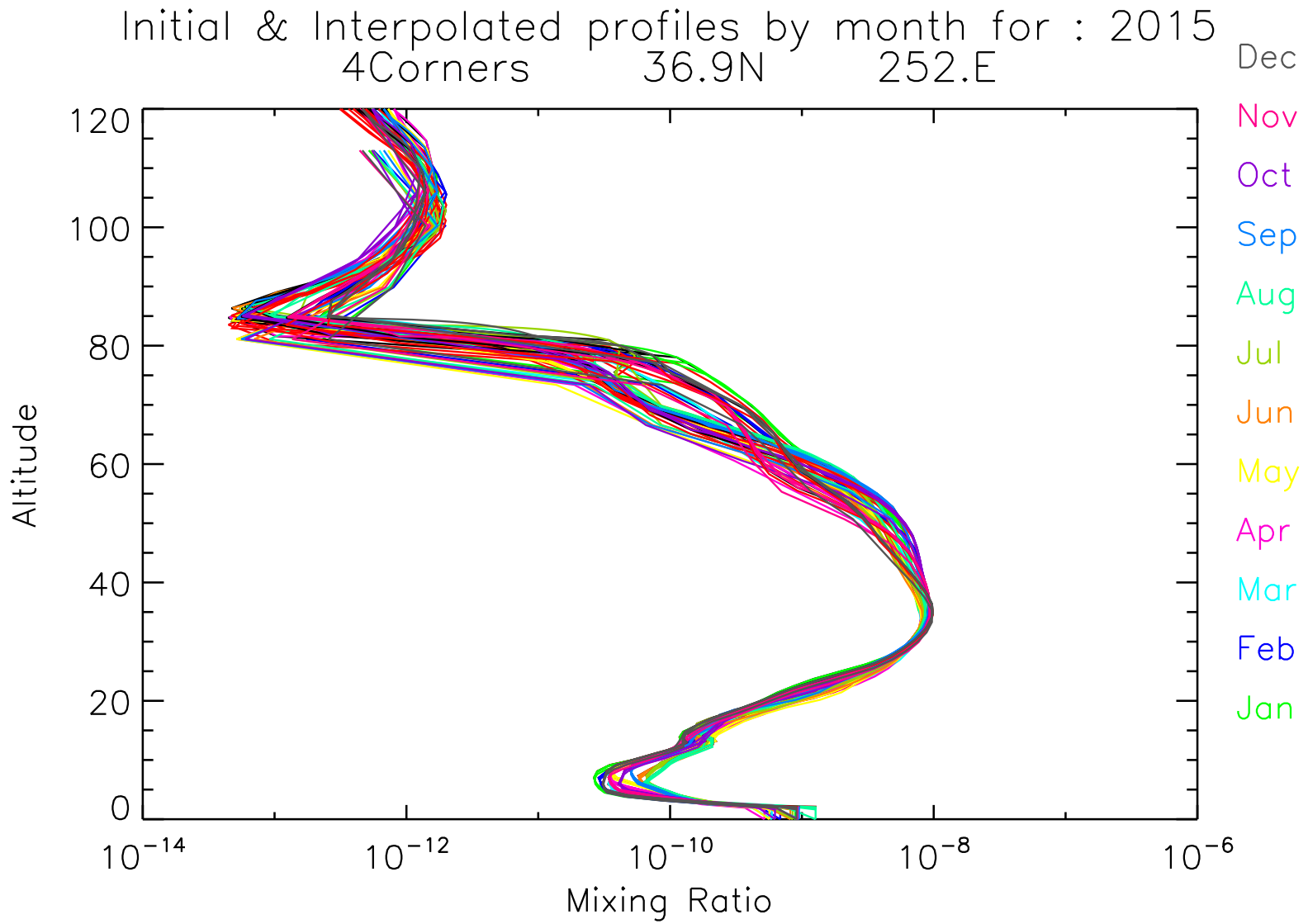
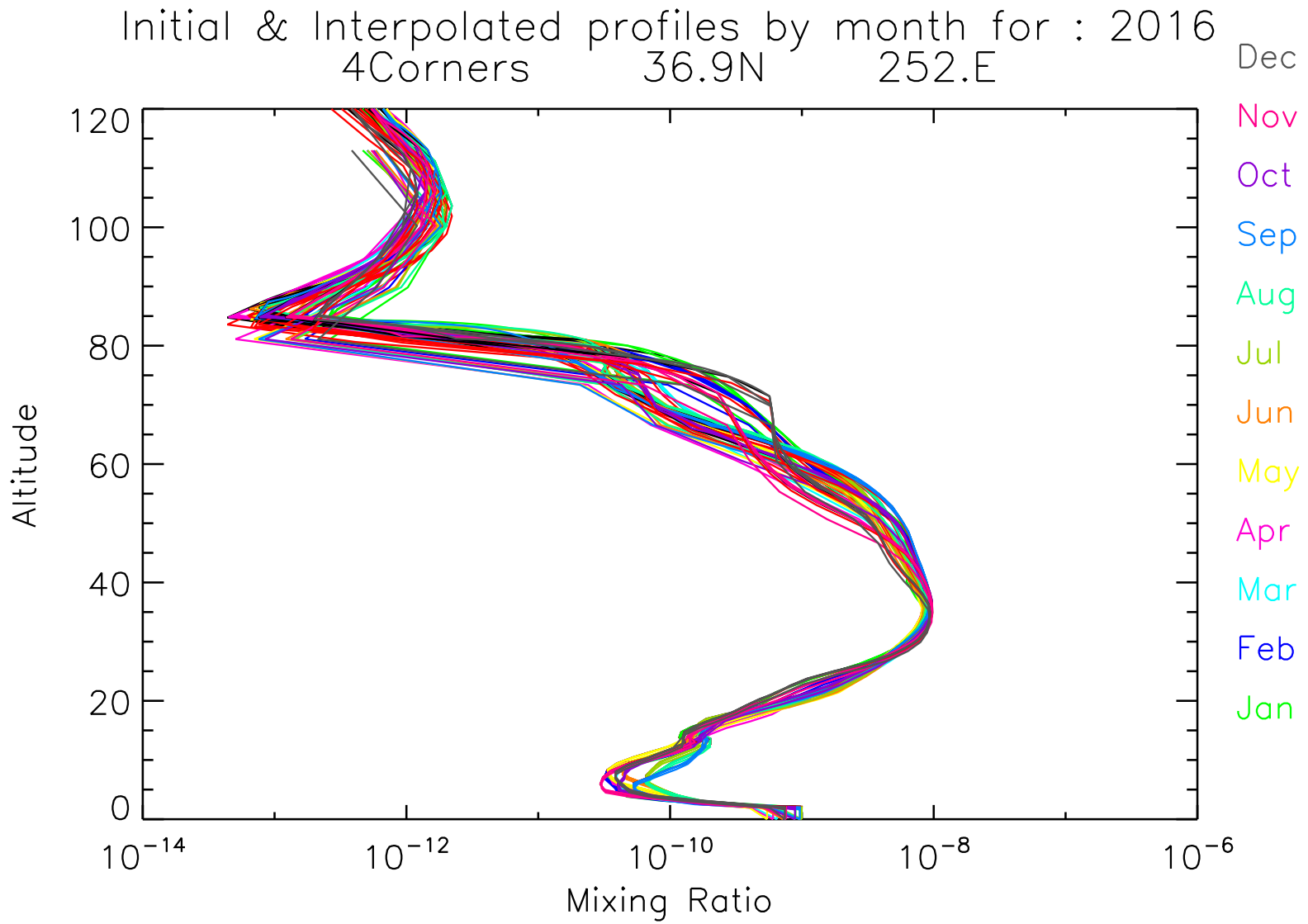
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

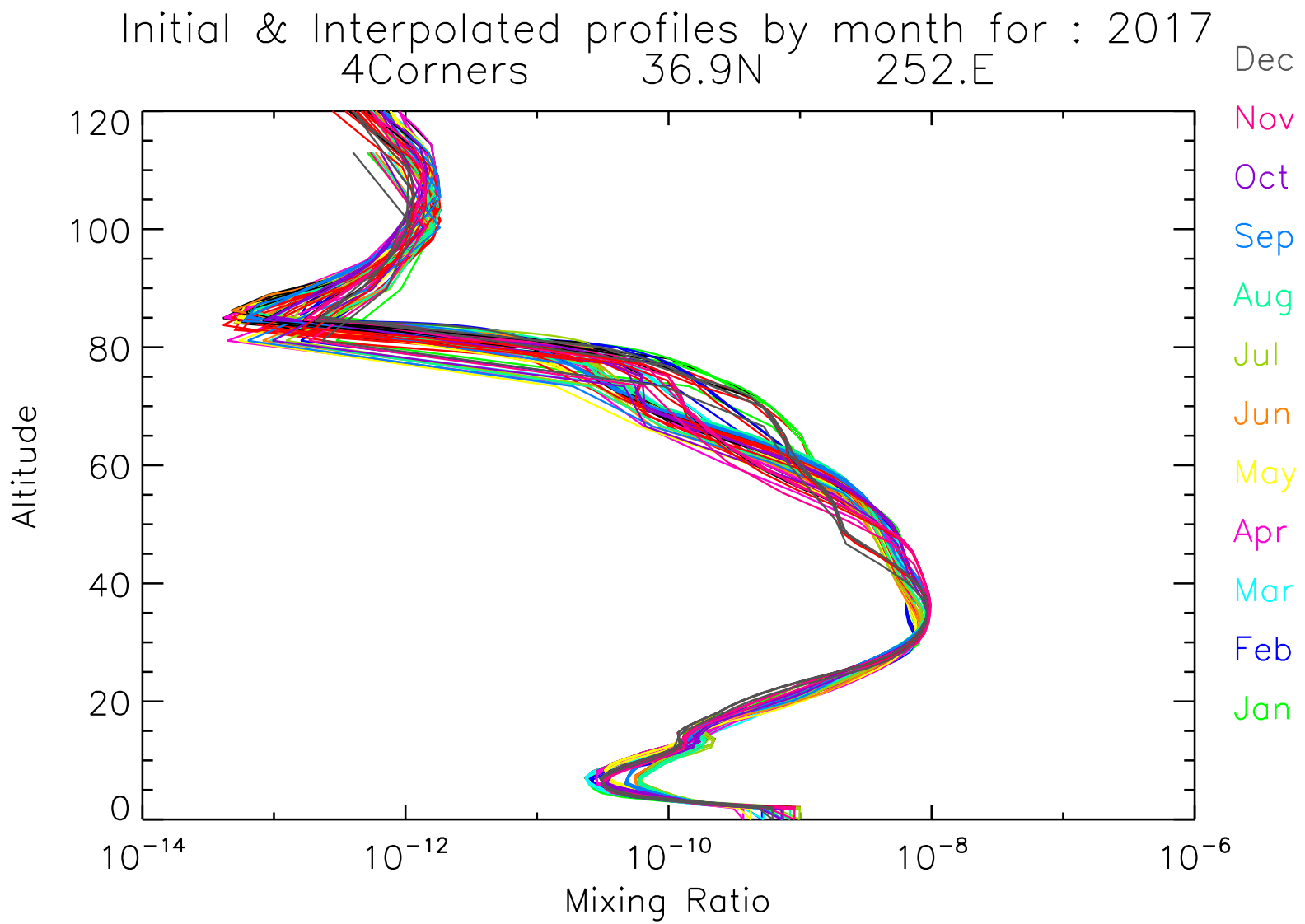

Initial & Interpolated profiles by month for : 2012
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

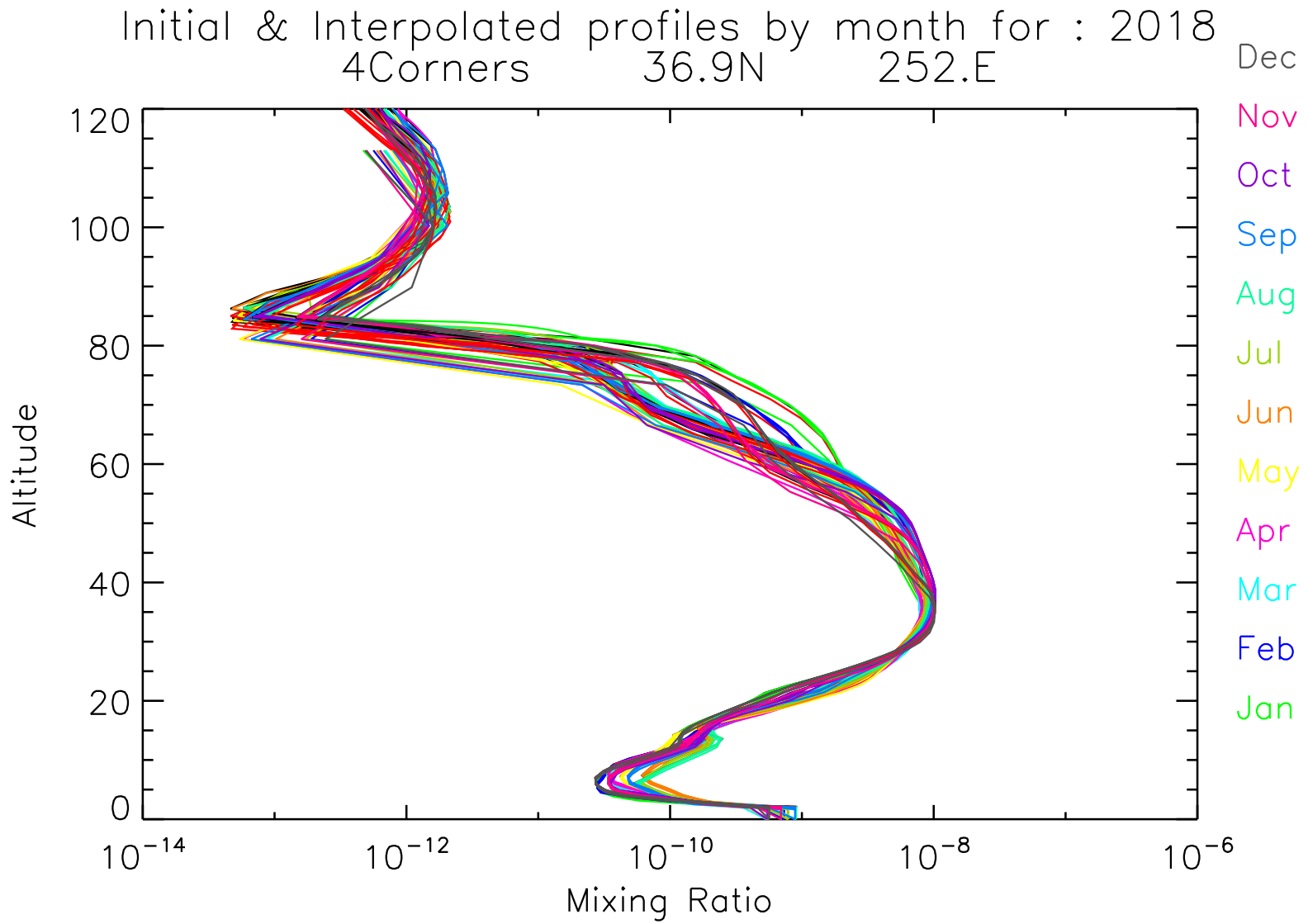

Initial & Interpolated profiles by month for : 2013
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

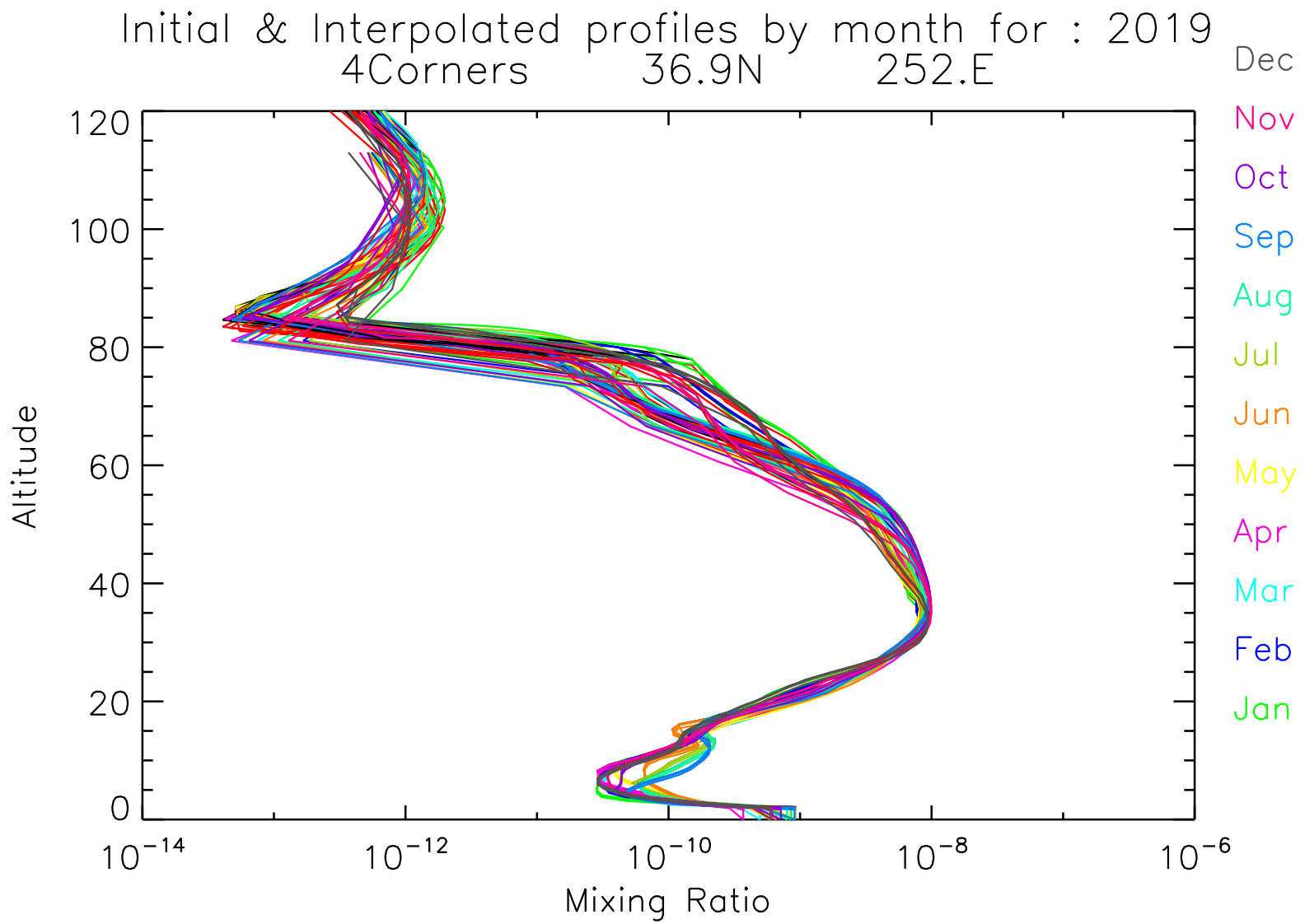

Initial & Interpolated profiles by month for : 2014
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

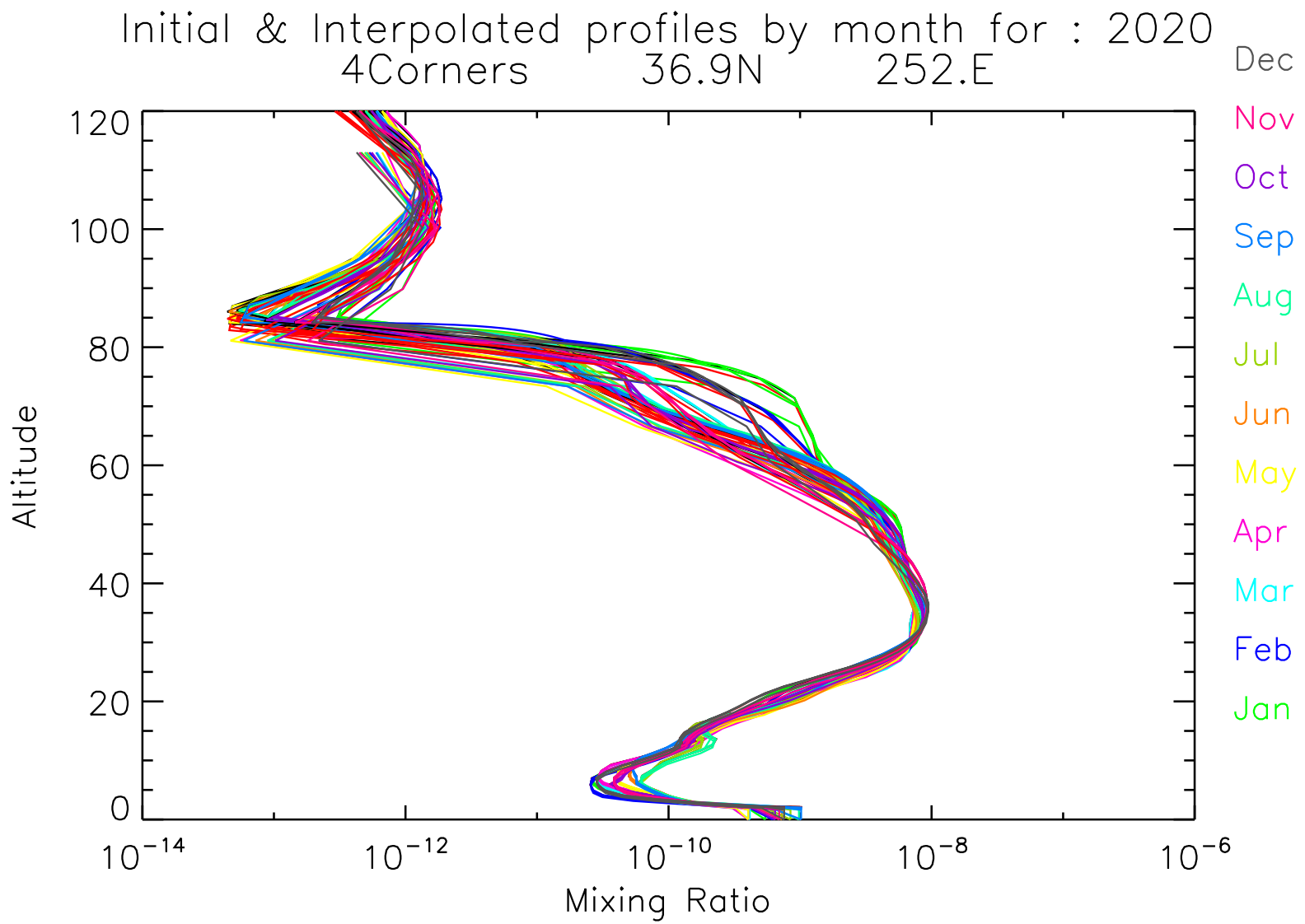

Initial & Interpolated profiles by month for : 2015
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

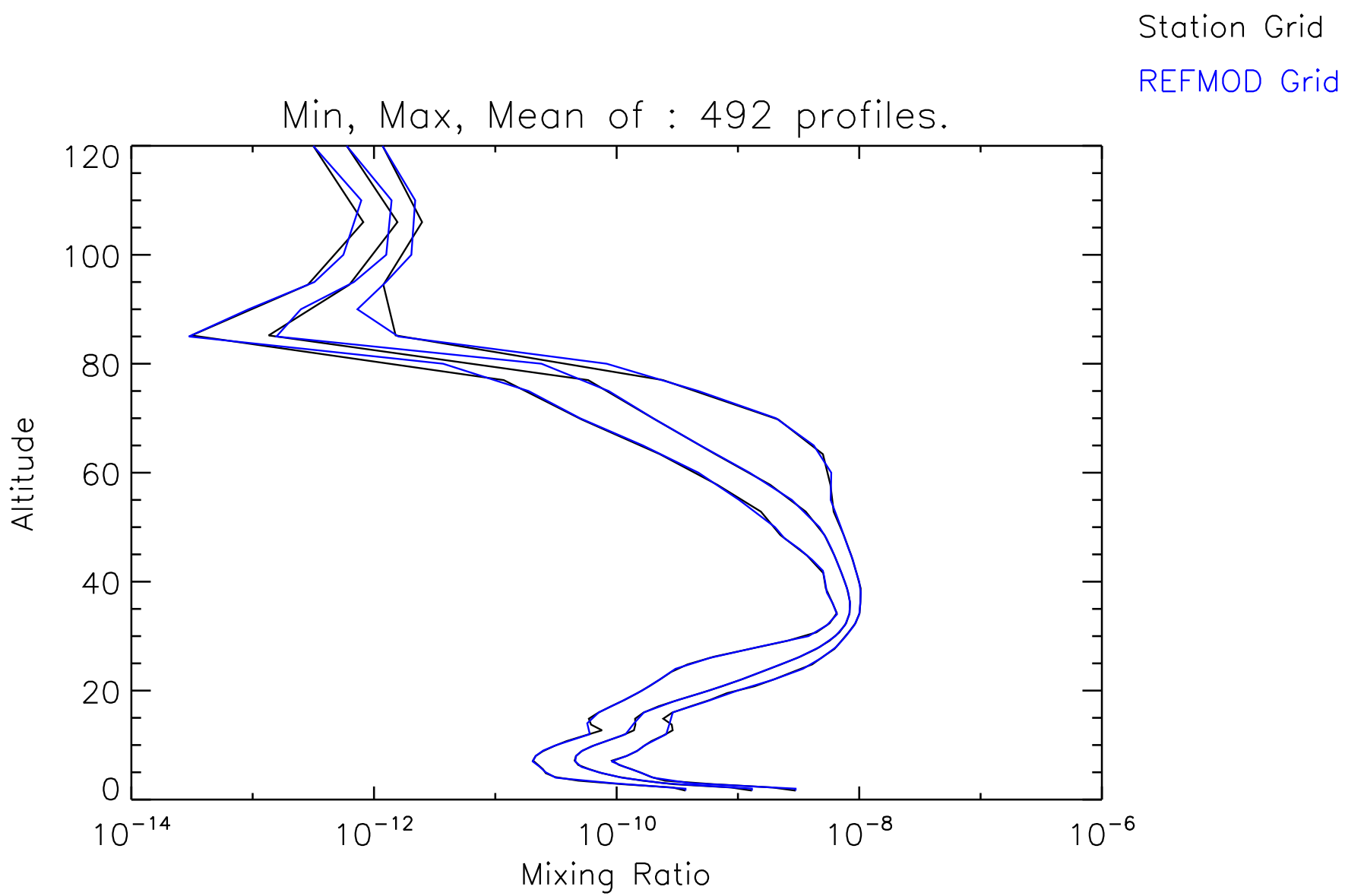

Initial & Interpolated profiles by month for : 2016
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

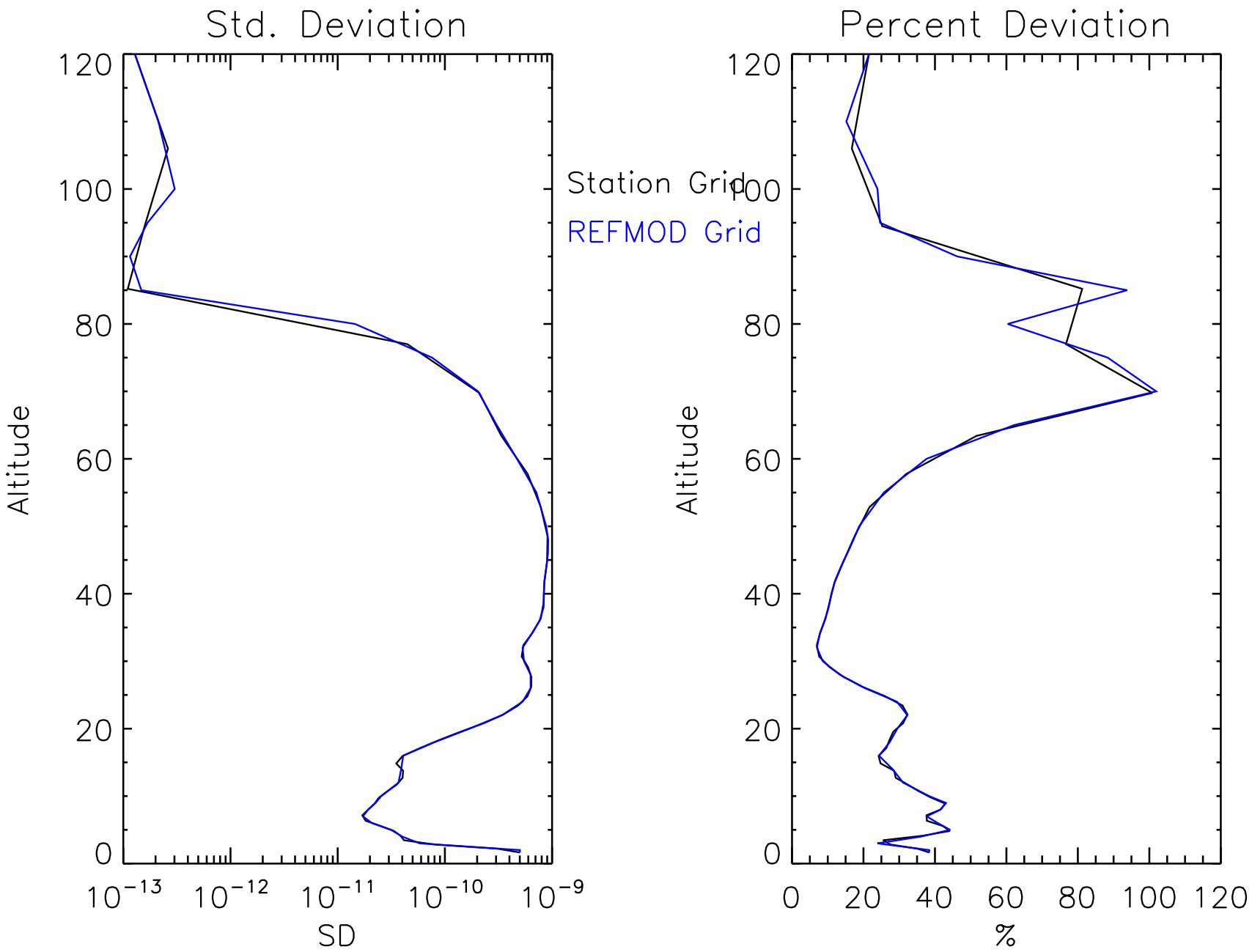

Initial & Interpolated profiles by month for : 2017
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

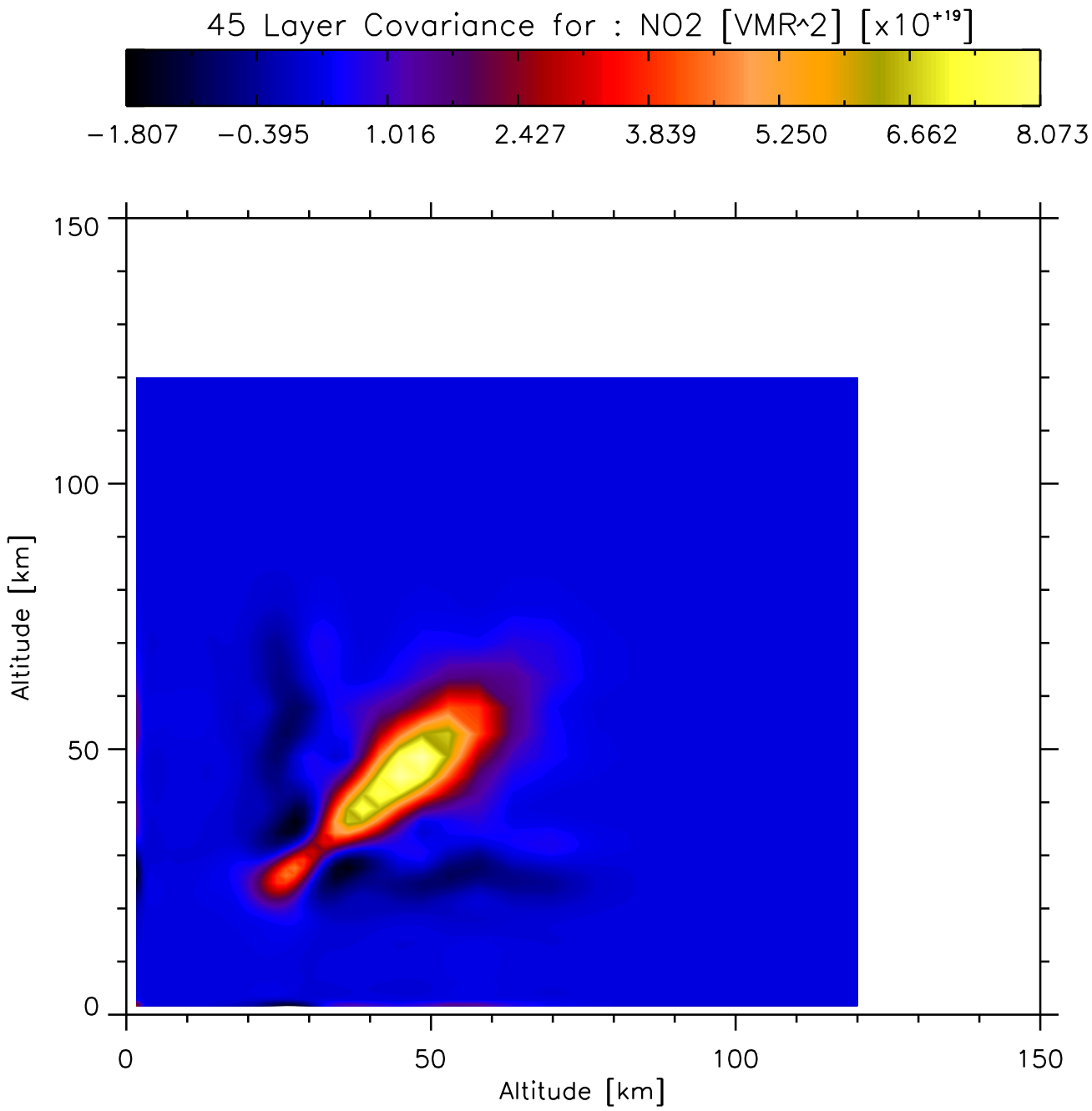

Initial & Interpolated profiles by month for : 2018
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

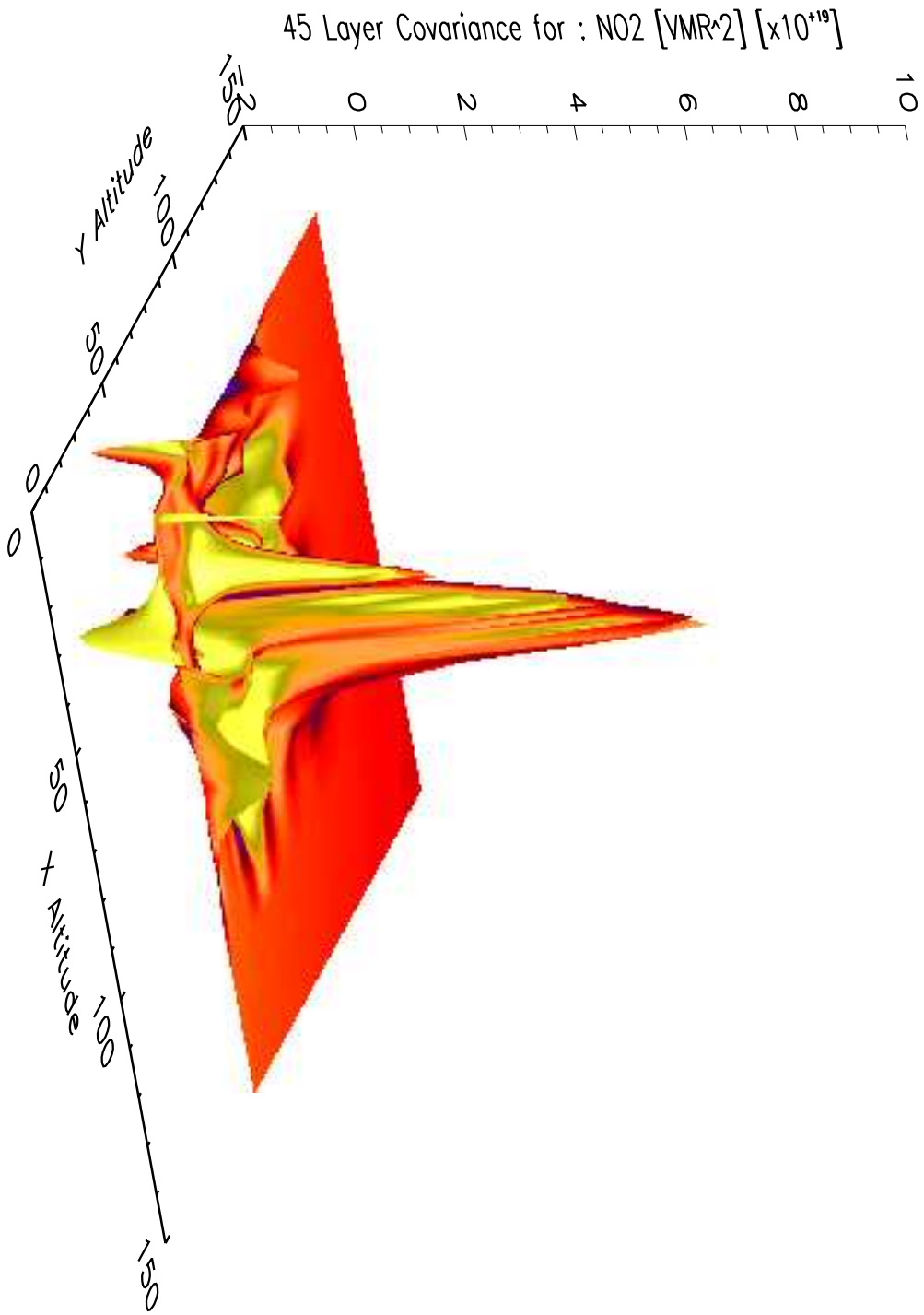

Initial & Interpolated profiles by month for : 2019
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

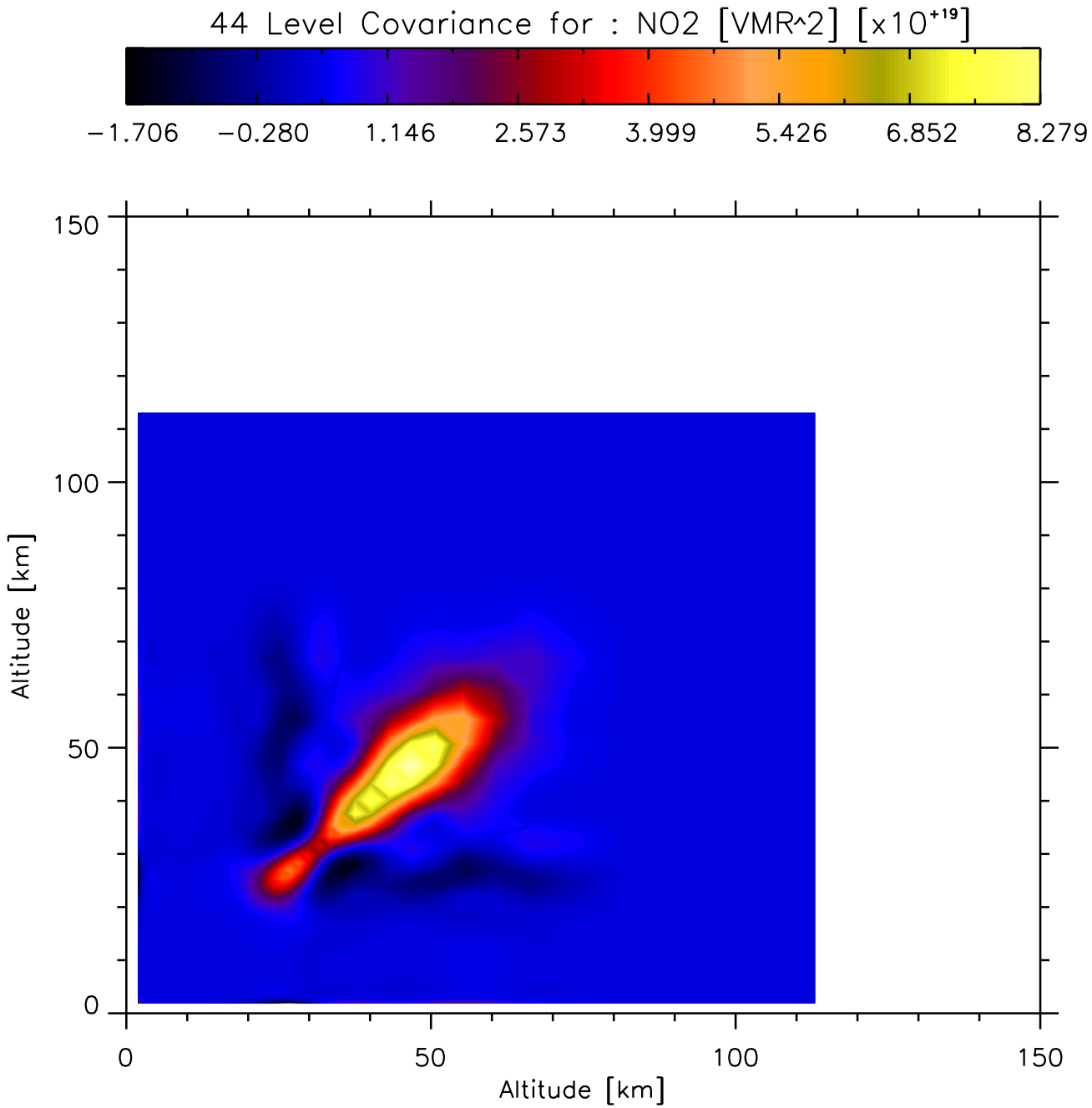

Initial & Interpolated profiles by month for : 2020
4Corners 36.9N 252.E
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

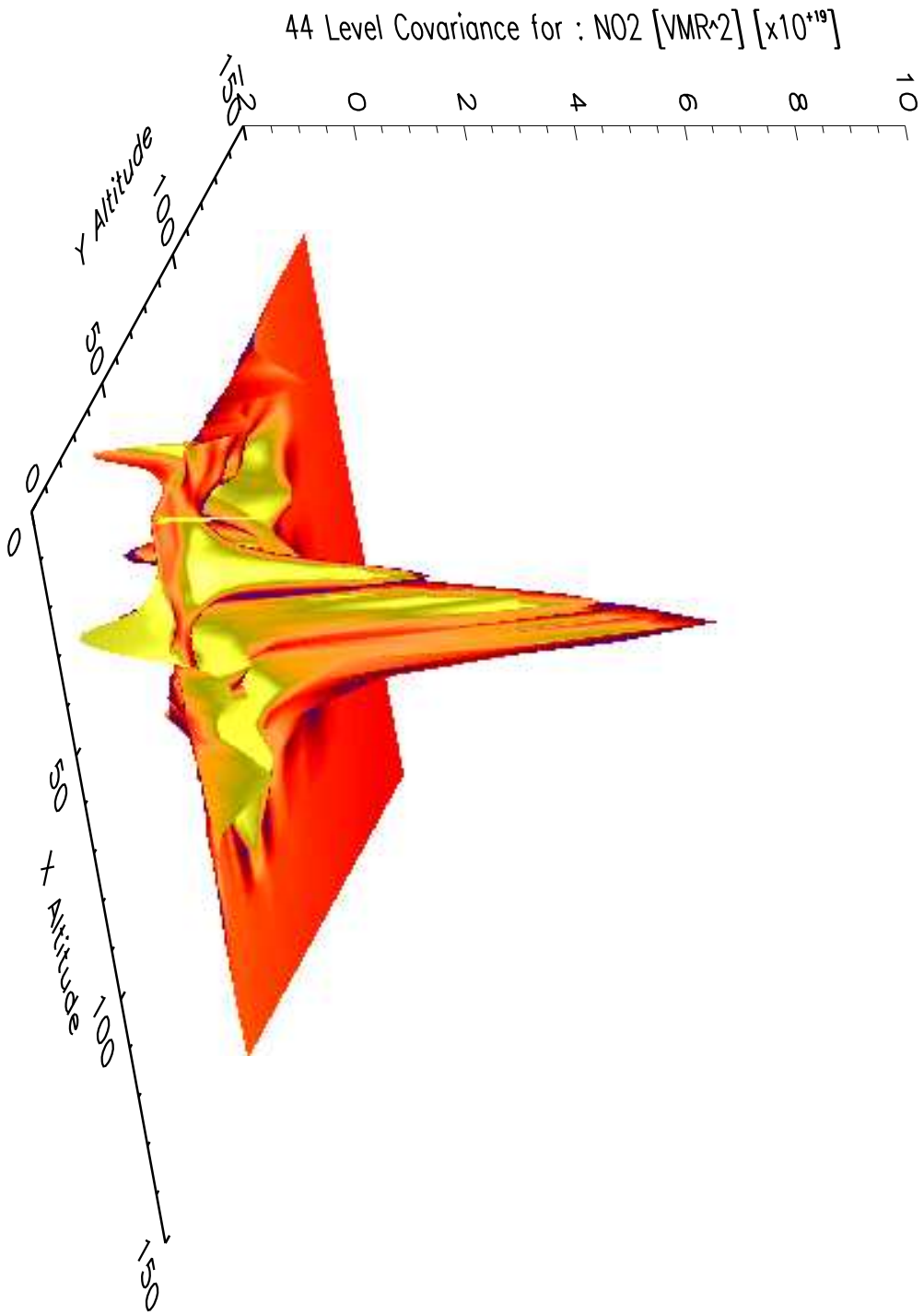

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-13}
10^{-12}
10^{-11}
10^{-10}
10^{-9}
SD
0
20
40
60
80
100
120
%


45 Layer Covariance for : NO2 [VMR^2] [x10^+19]
−1.807
−0.395
1.016
2.427
3.839
5.250
6.662
8.073
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


45 Layer Covariance for : NO2 [VMR^2] [x10^+19]
0
2
4
6
8
10
Y Altitude
0
50
100
150
X Altitude
0
50
100
150


44 Level Covariance for : NO2 [VMR^2] [x10^+19]
−1.706
−0.280
1.146
2.573
3.999
5.426
6.852
8.279
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


44 Level Covariance for : NO2 [VMR^2] [x10^+19]
0
2
4
6
8
10
Y Altitude
0
50
100
150
X Altitude
0
50
100
150