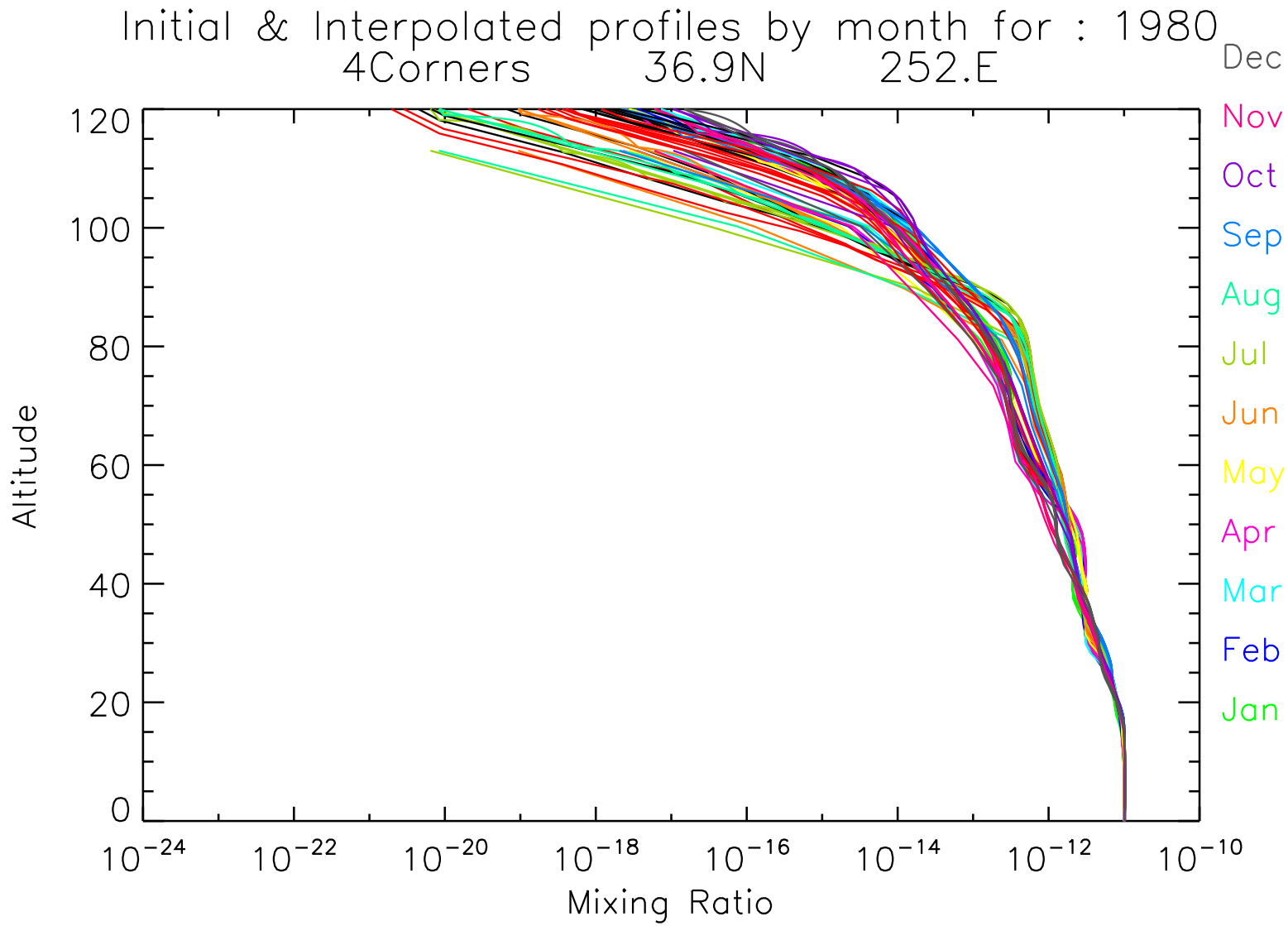
Initial & Interpolated profiles by month for : 1980
4Corners 36.9N 252.E
Dec
Nov
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Altitude
120
100
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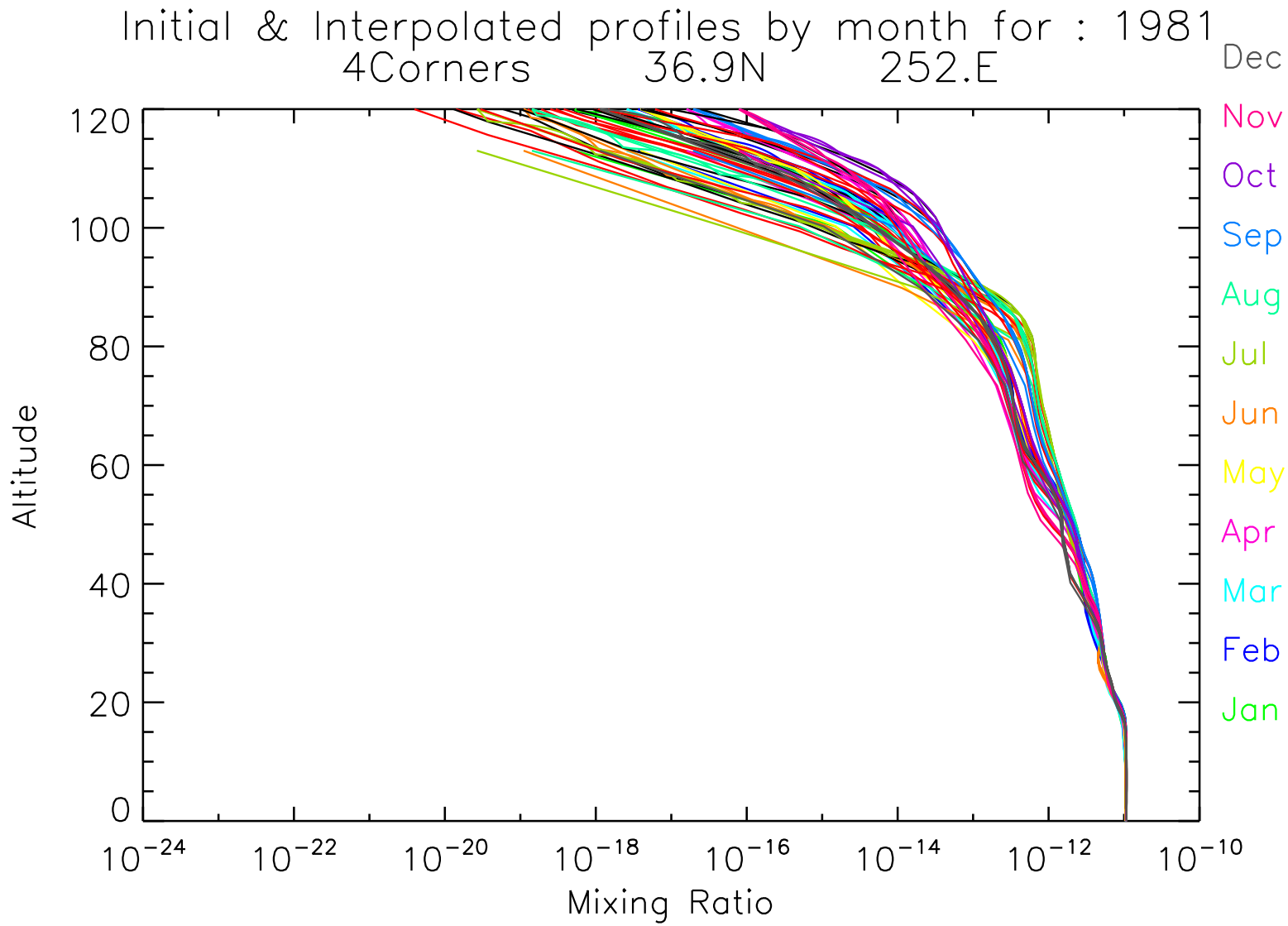
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
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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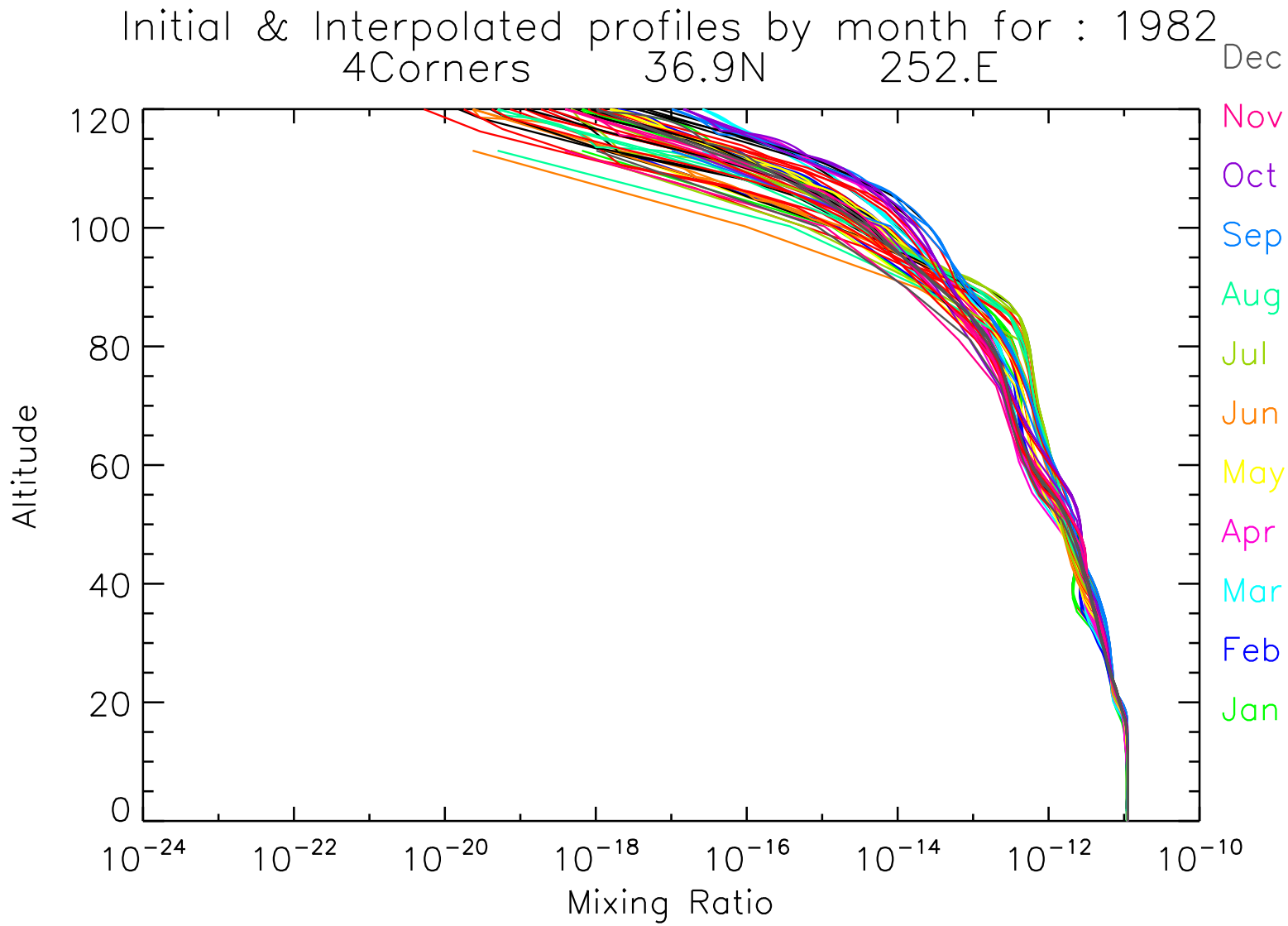
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
4Corners 36.9N 252.E
Dec
Nov
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Feb
Jan
Altitude
120
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10^{-18}
10^{-16}
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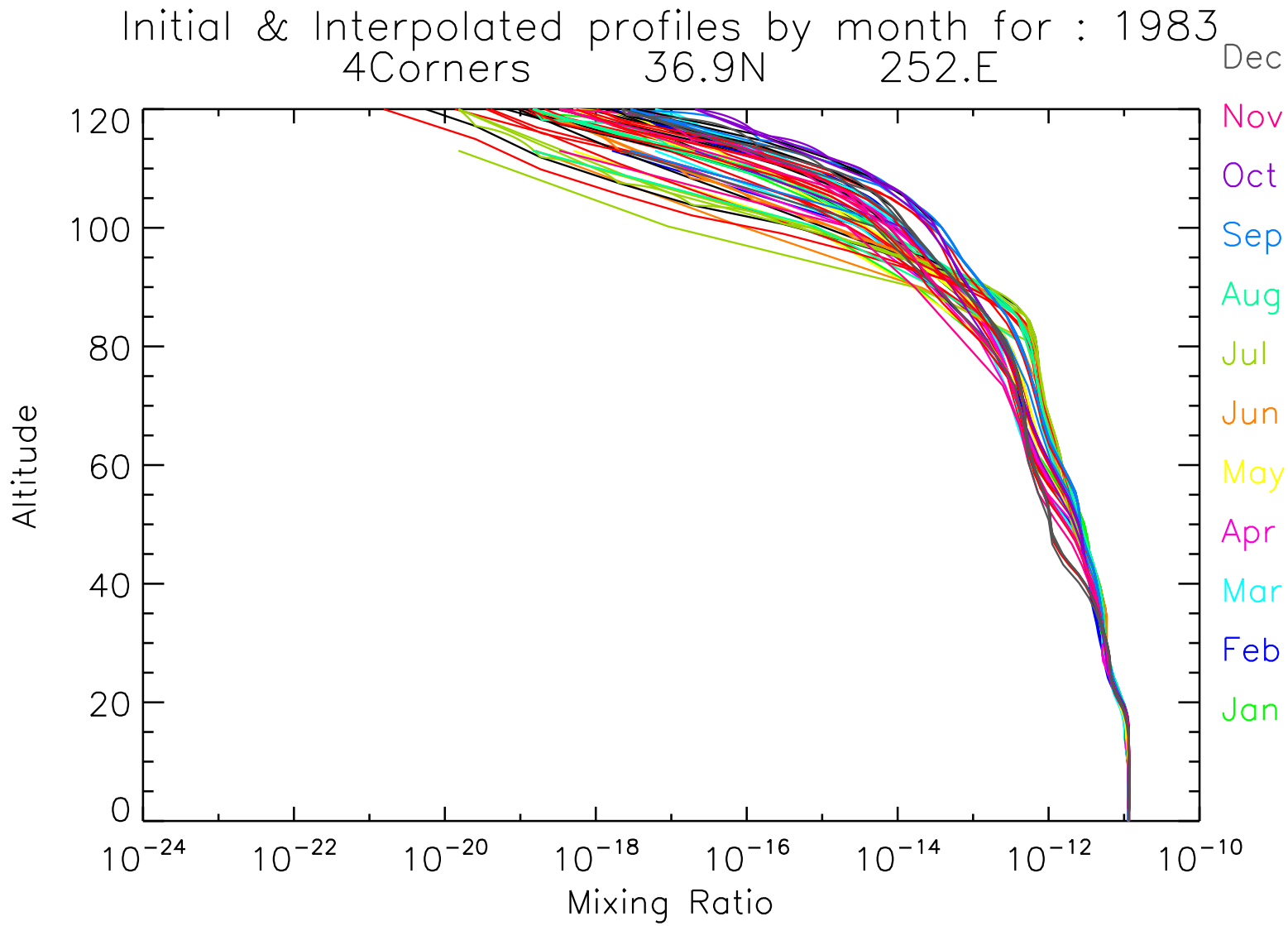
Mixing Ratio


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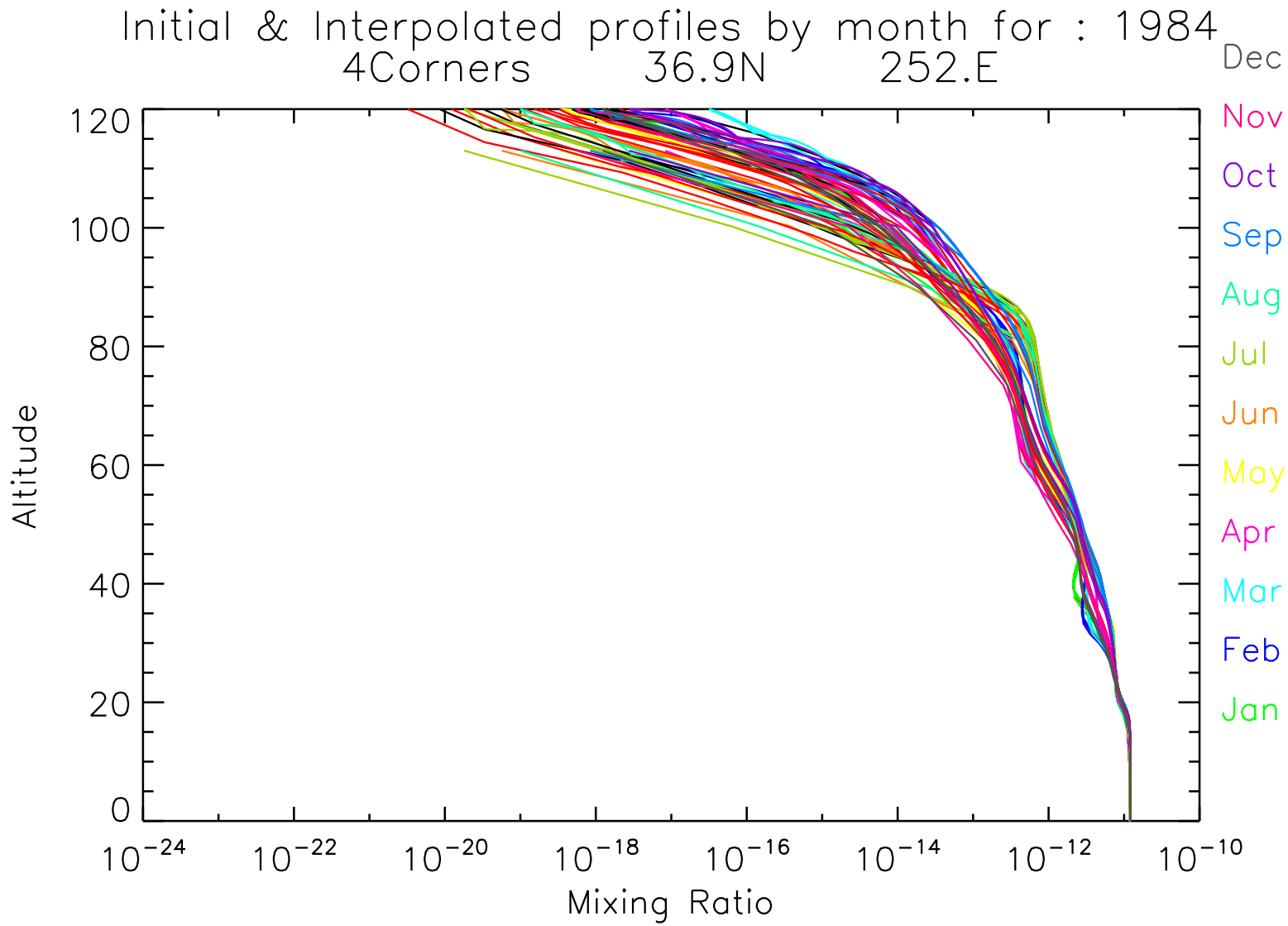
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
4Corners 36.9N 252.E
Dec
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Altitude
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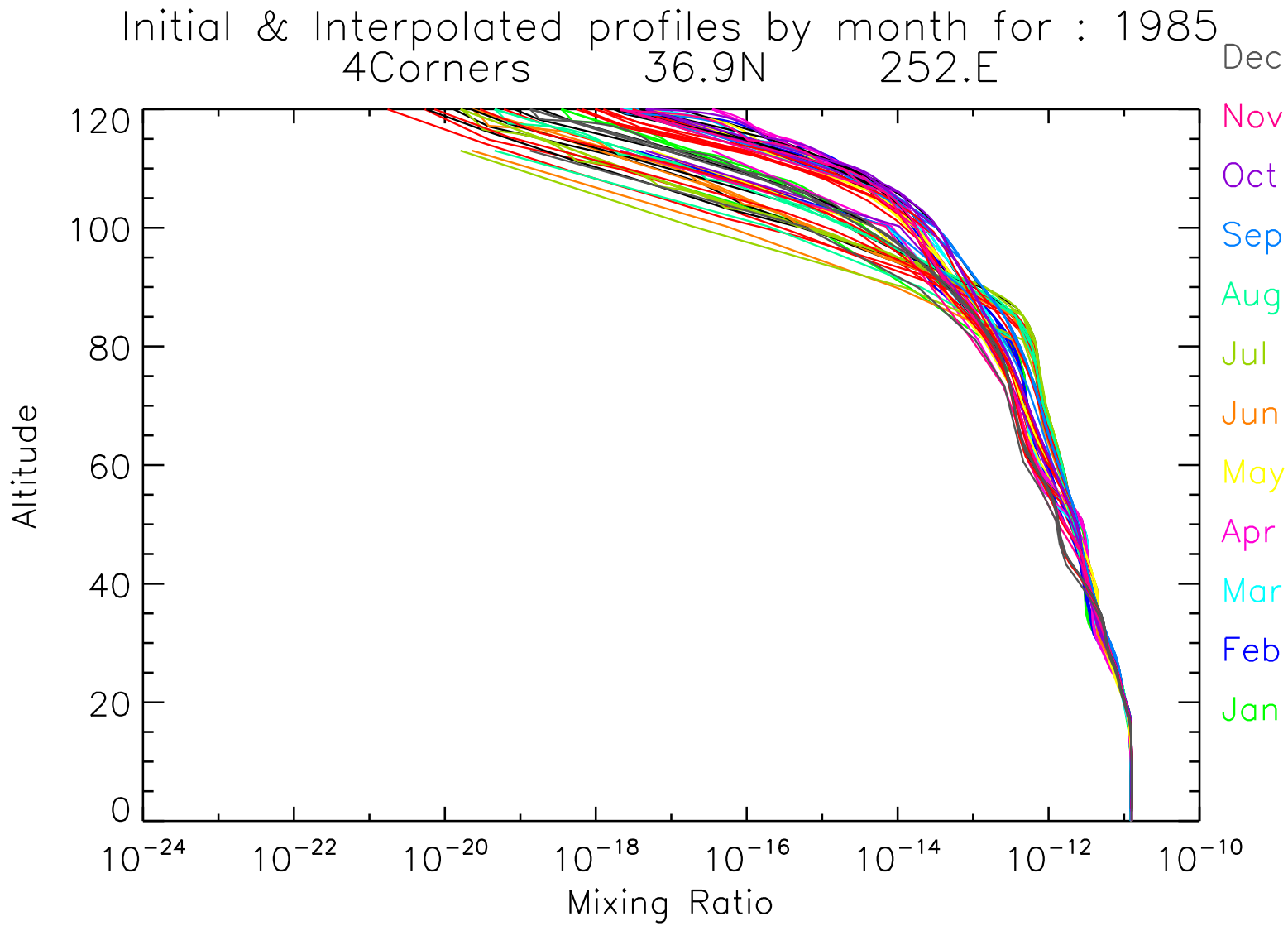
Mixing Ratio


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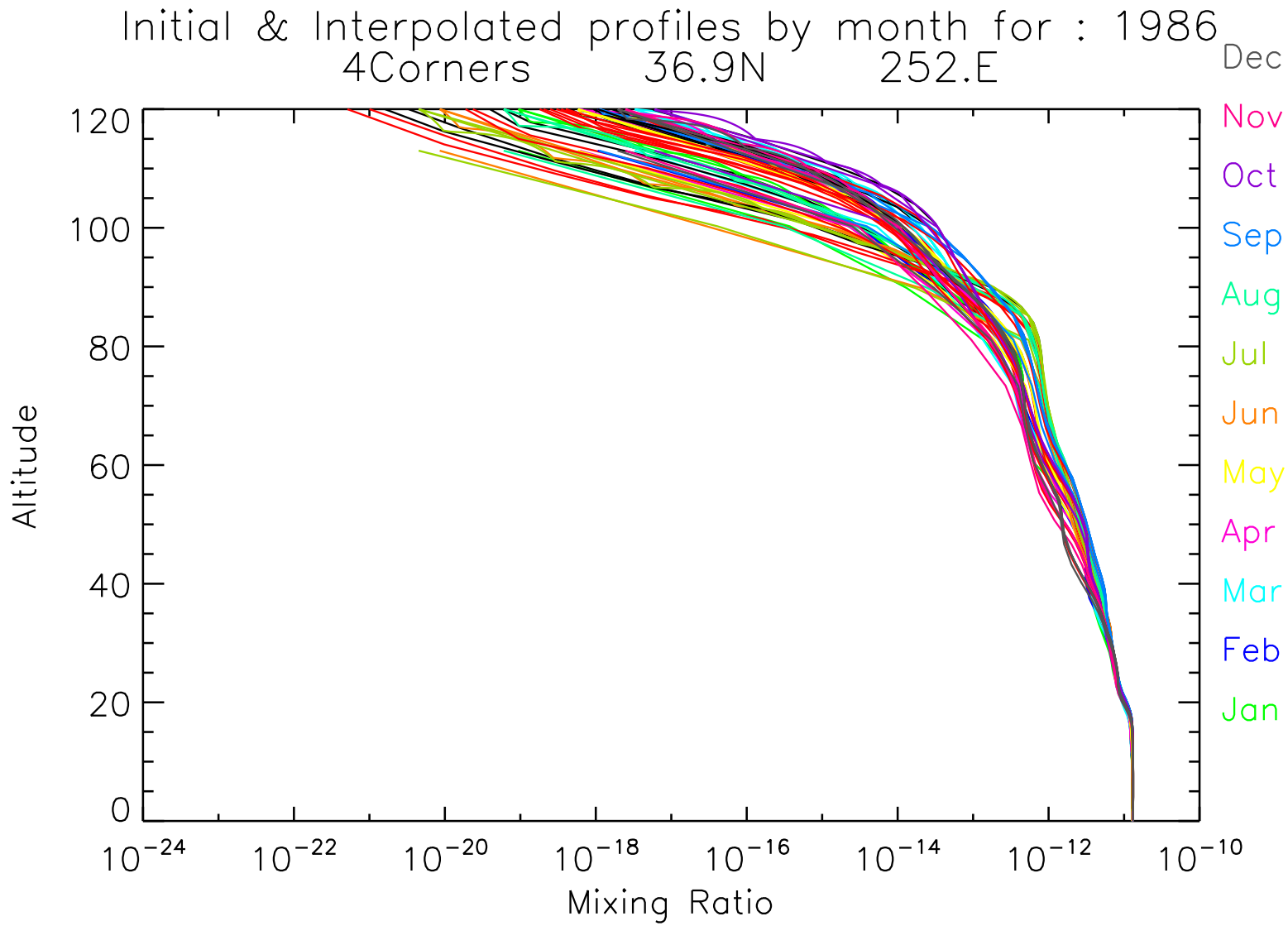
Mixing Ratio


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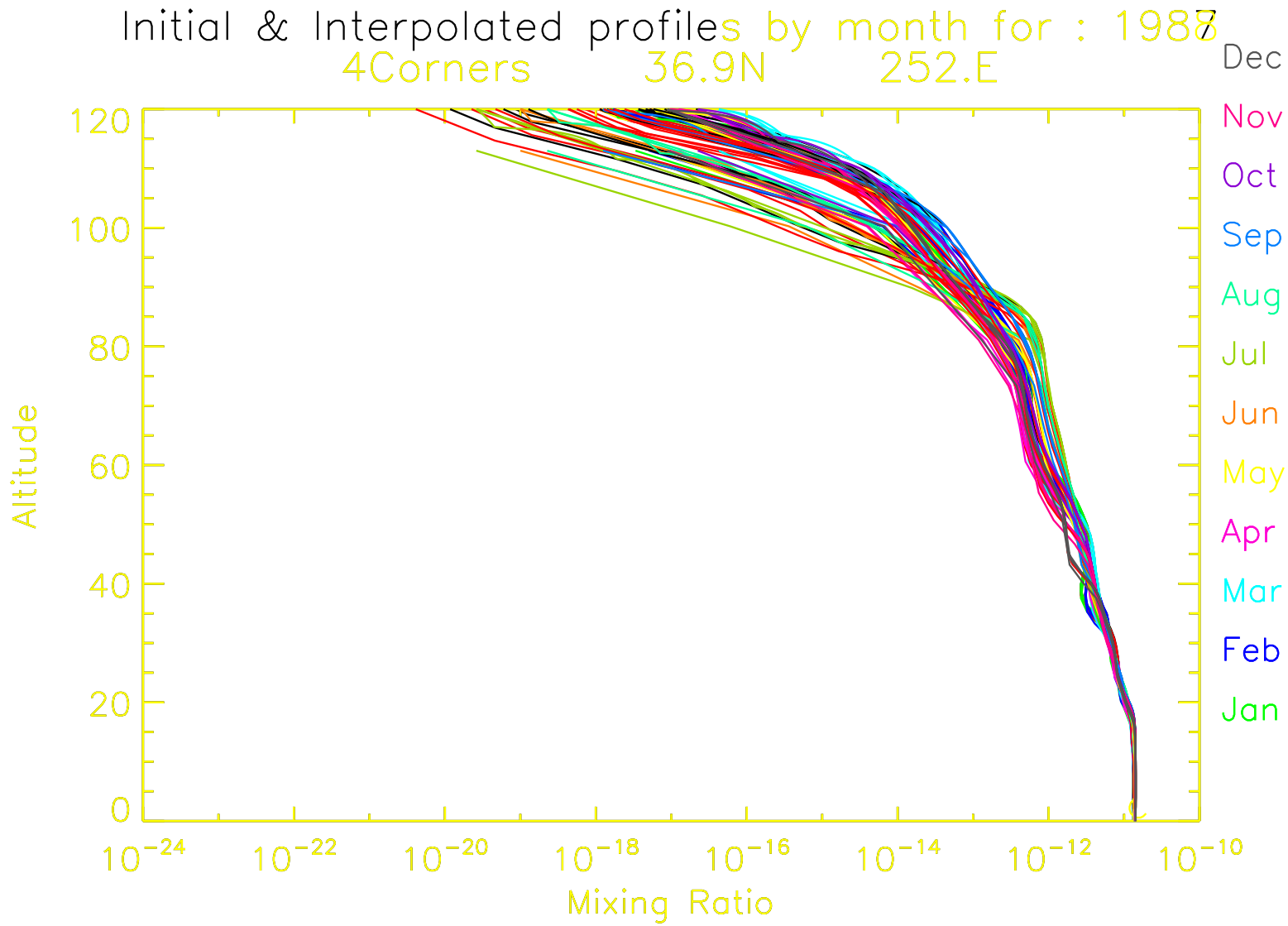
Mixing Ratio


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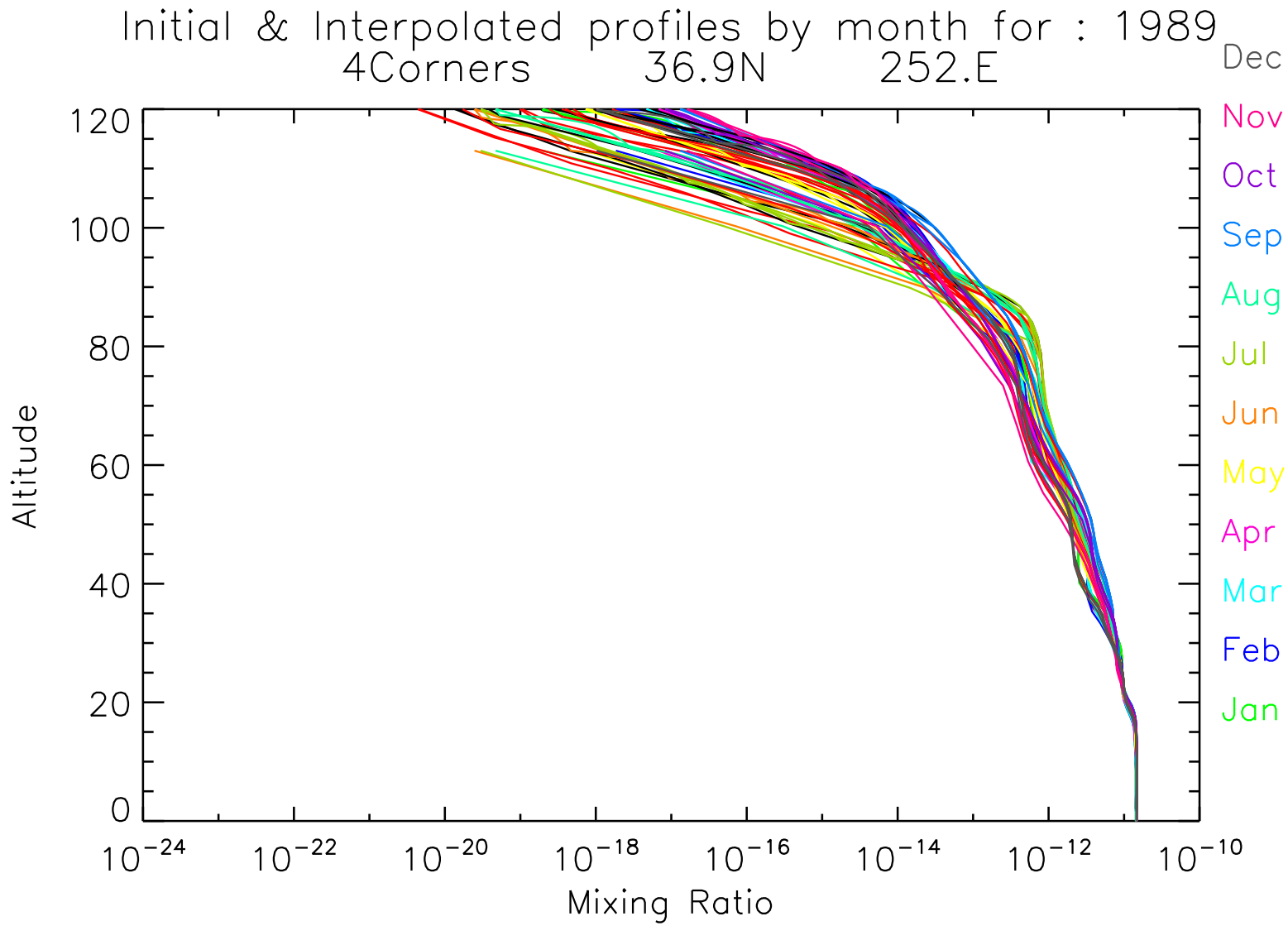
Mixing Ratio


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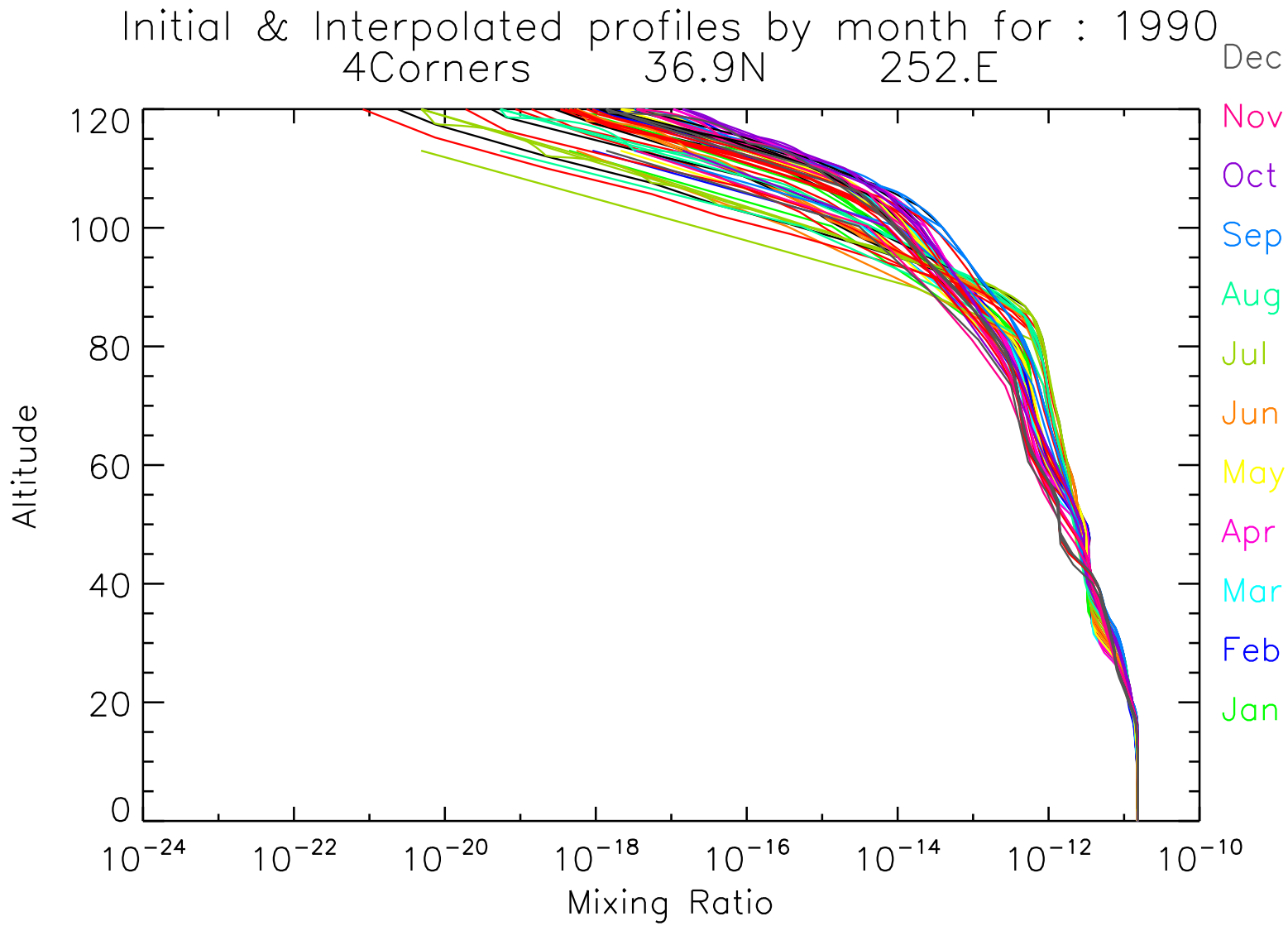
Mixing Ratio


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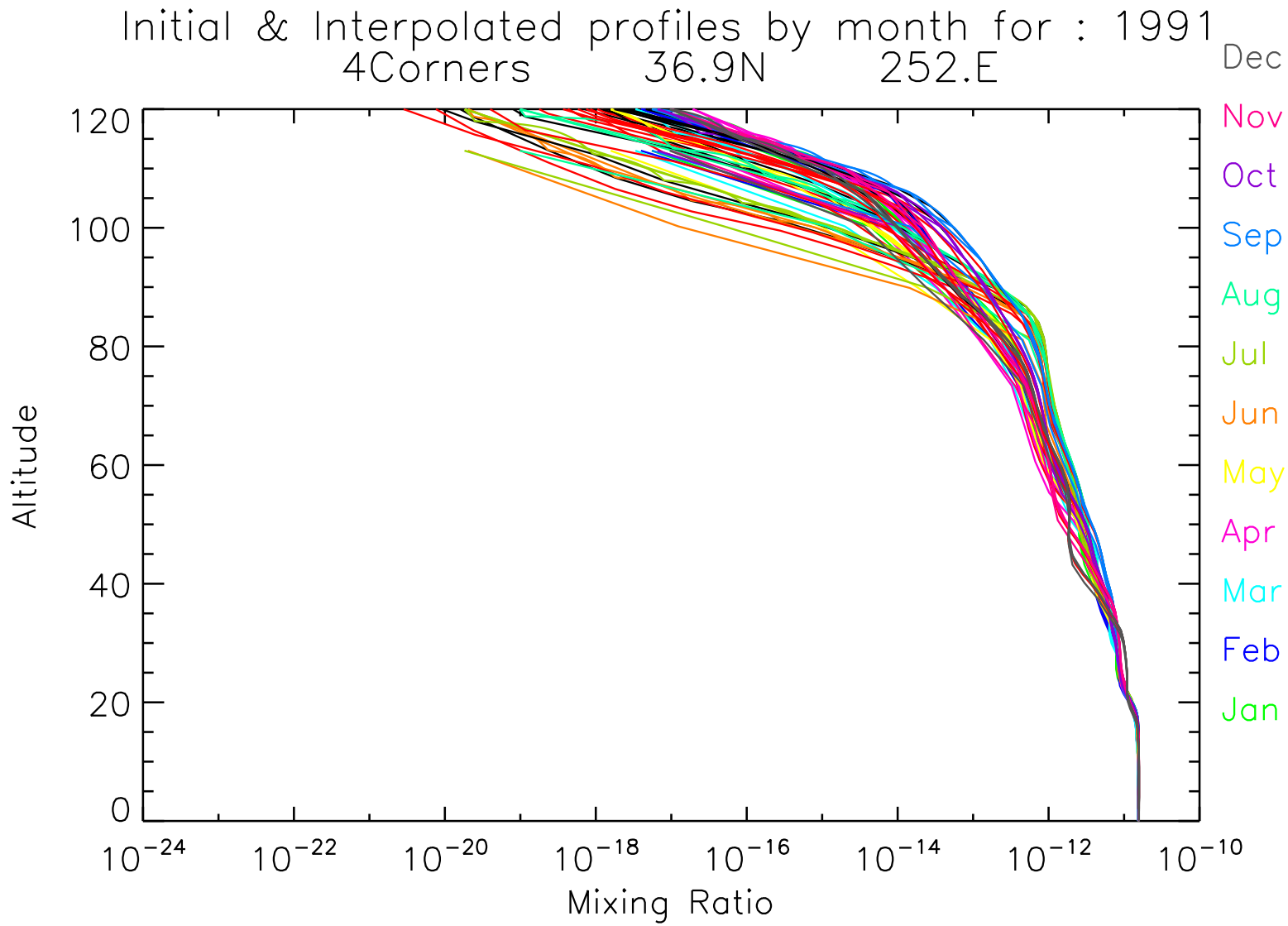
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
4Corners 36.9N 252.E
Dec
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Altitude
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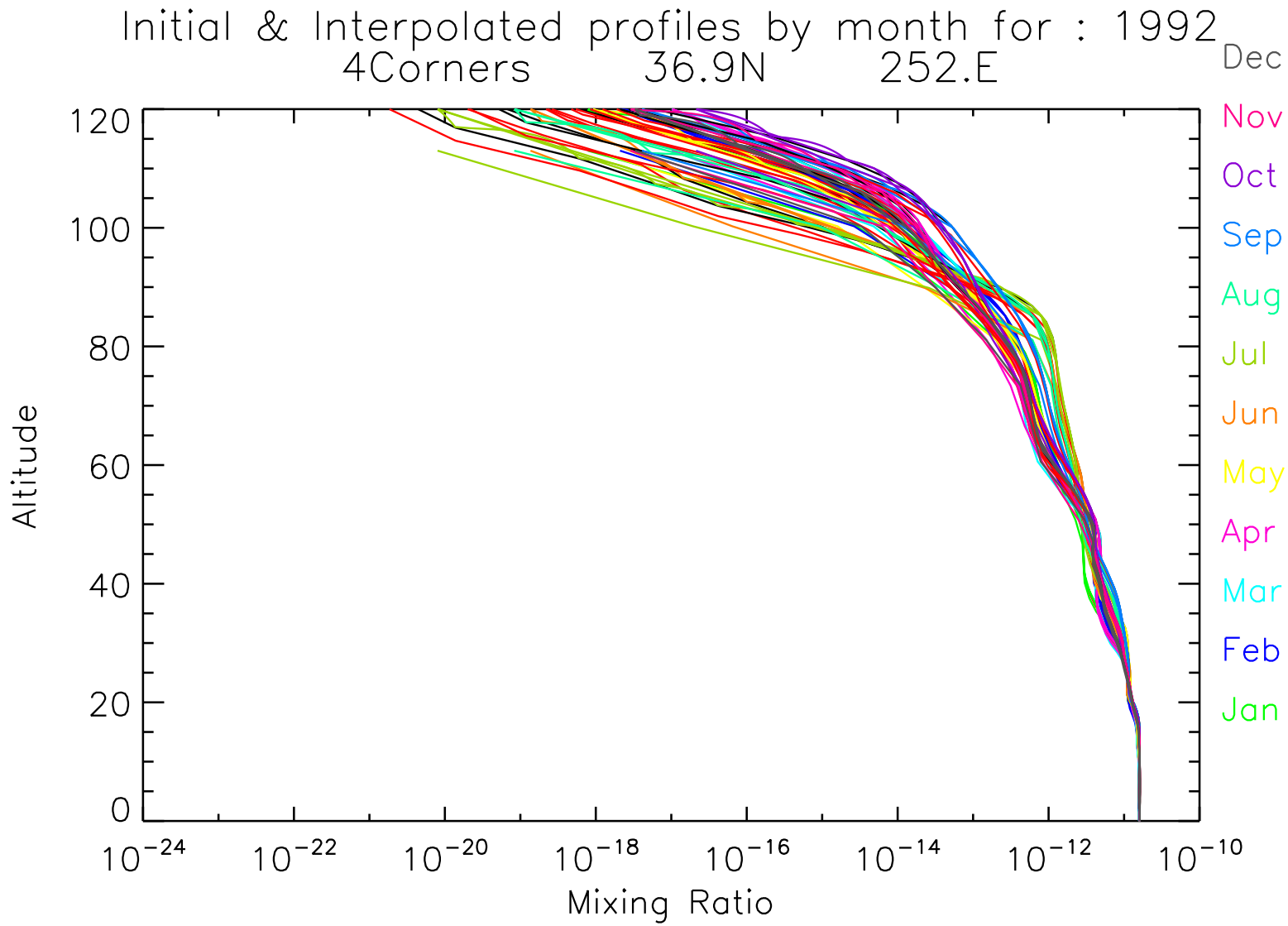
Mixing Ratio


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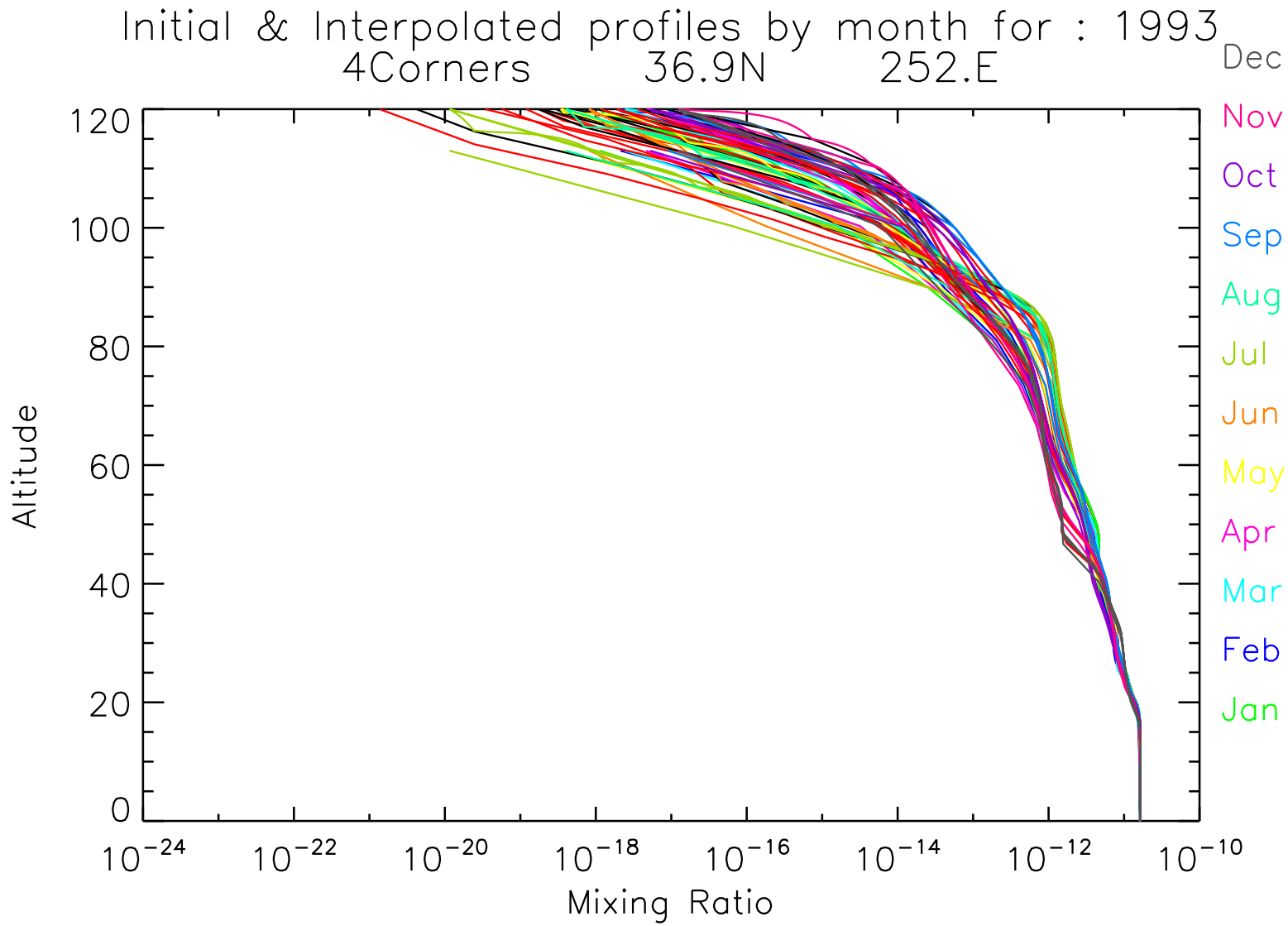
Mixing Ratio


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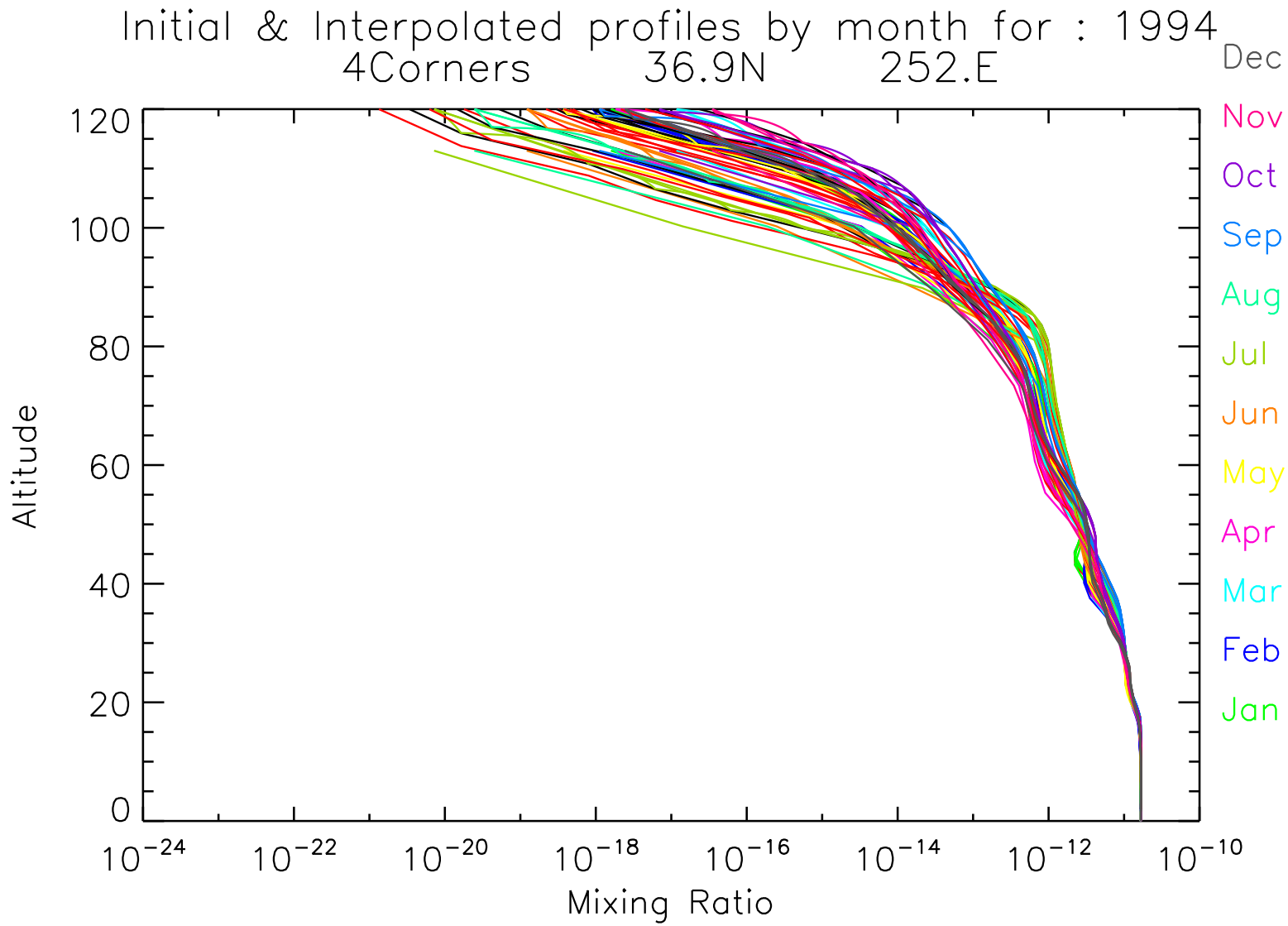
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
4Corners 36.9N 252.E
Dec
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Altitude
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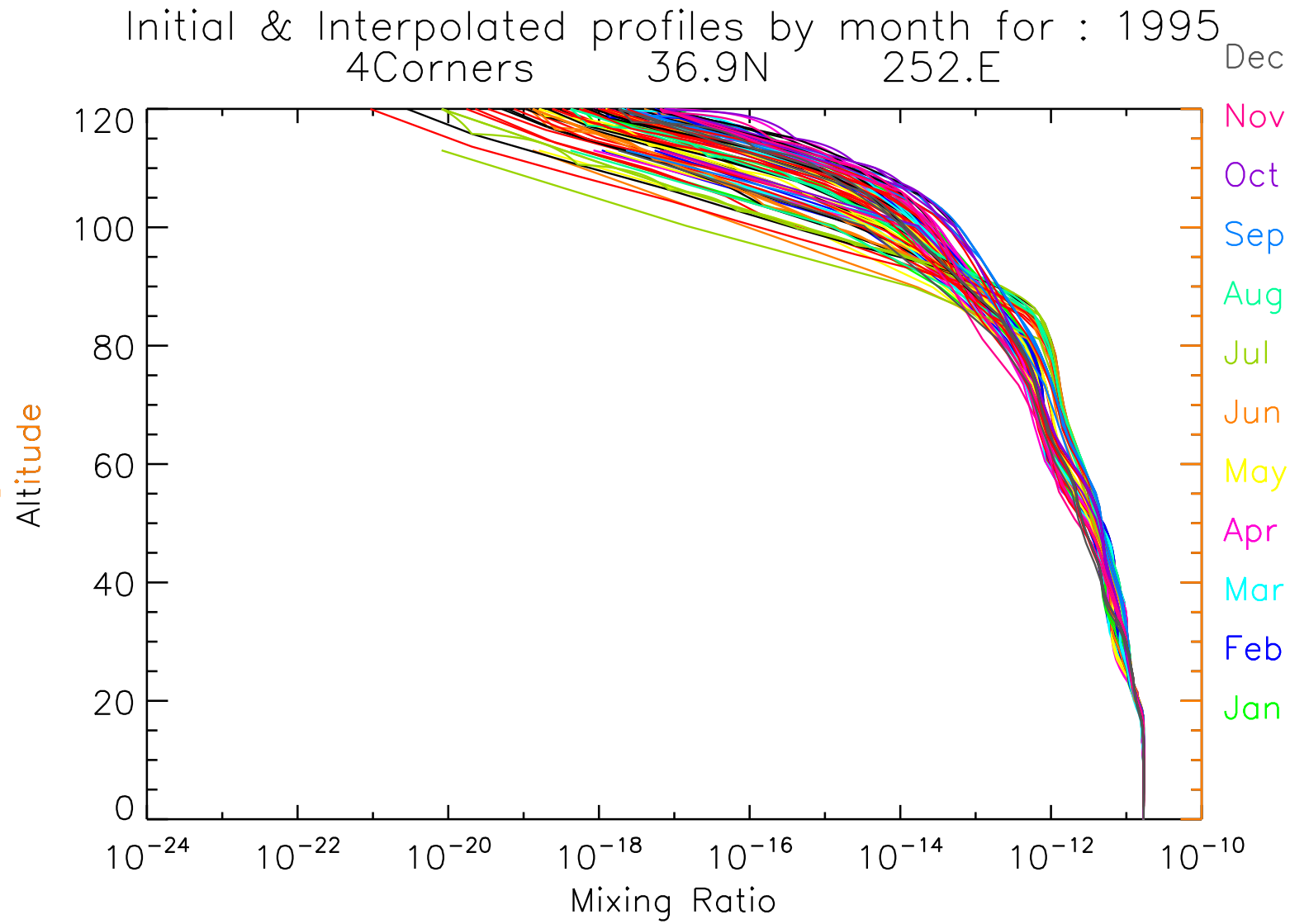
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
4Corners 36.9N 252.E
Dec
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Altitude
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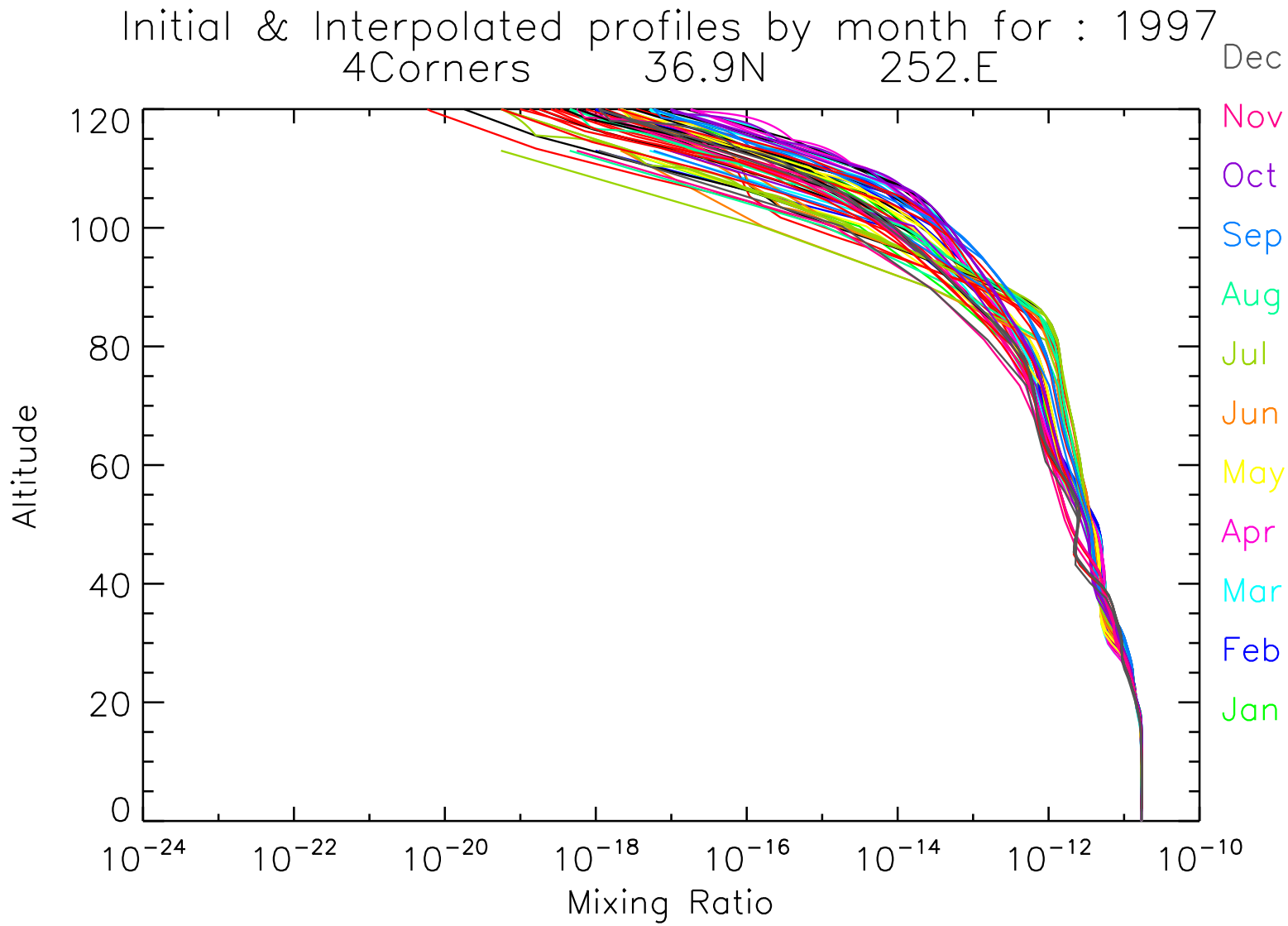
Mixing Ratio


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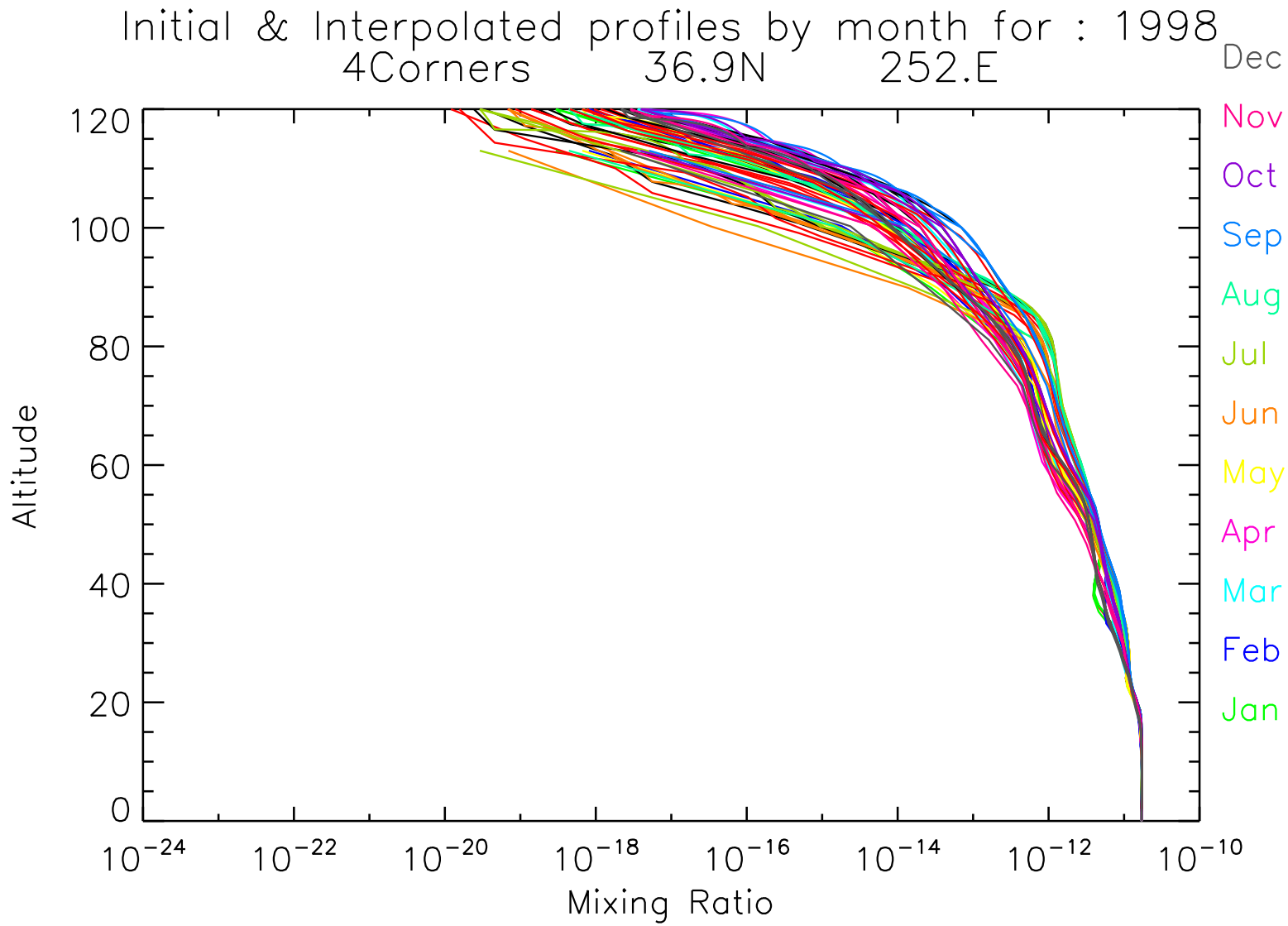
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
4Corners 36.9N 252.E
Dec
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Altitude
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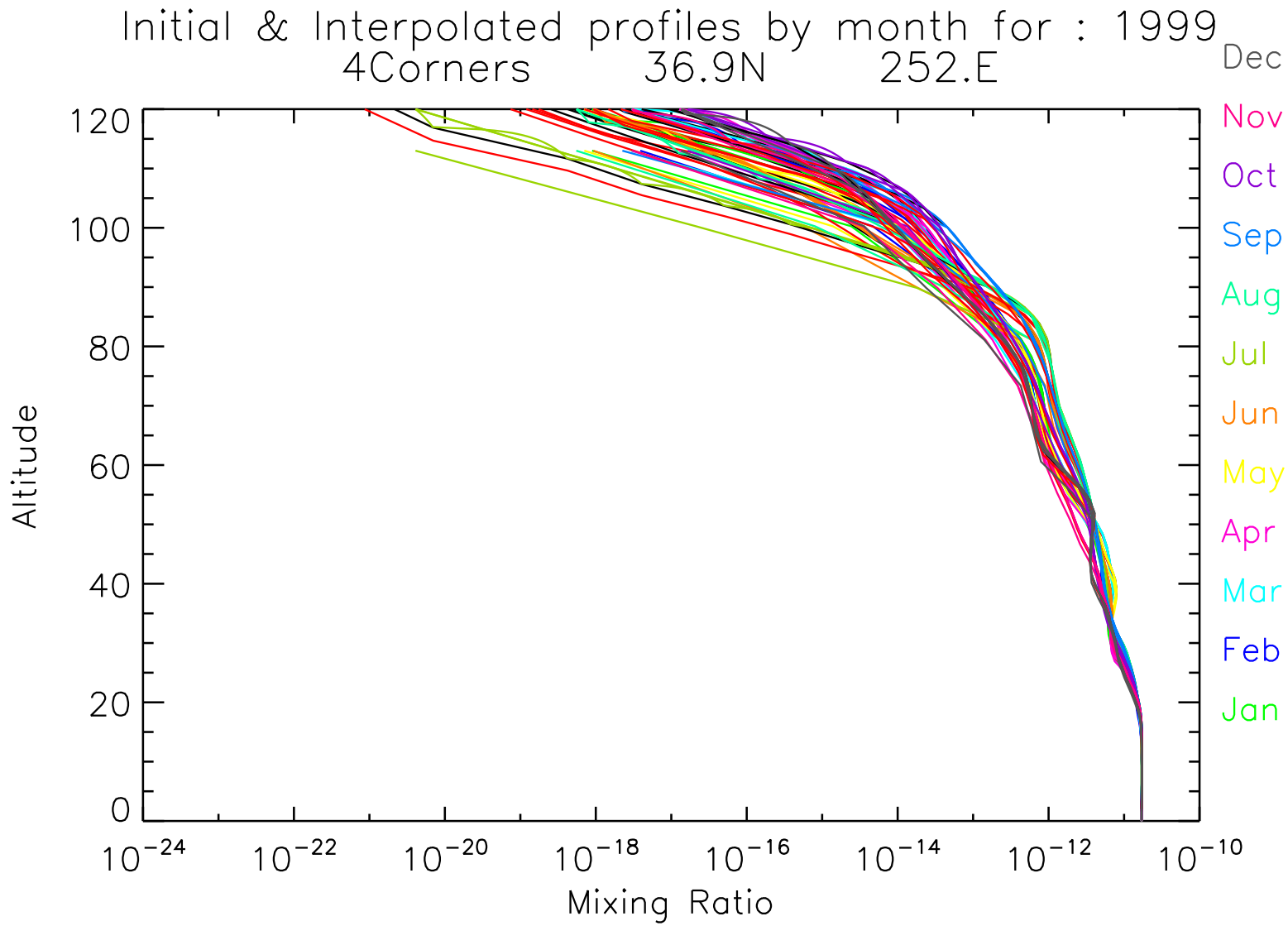
10^{-10}
Mixing Ratio


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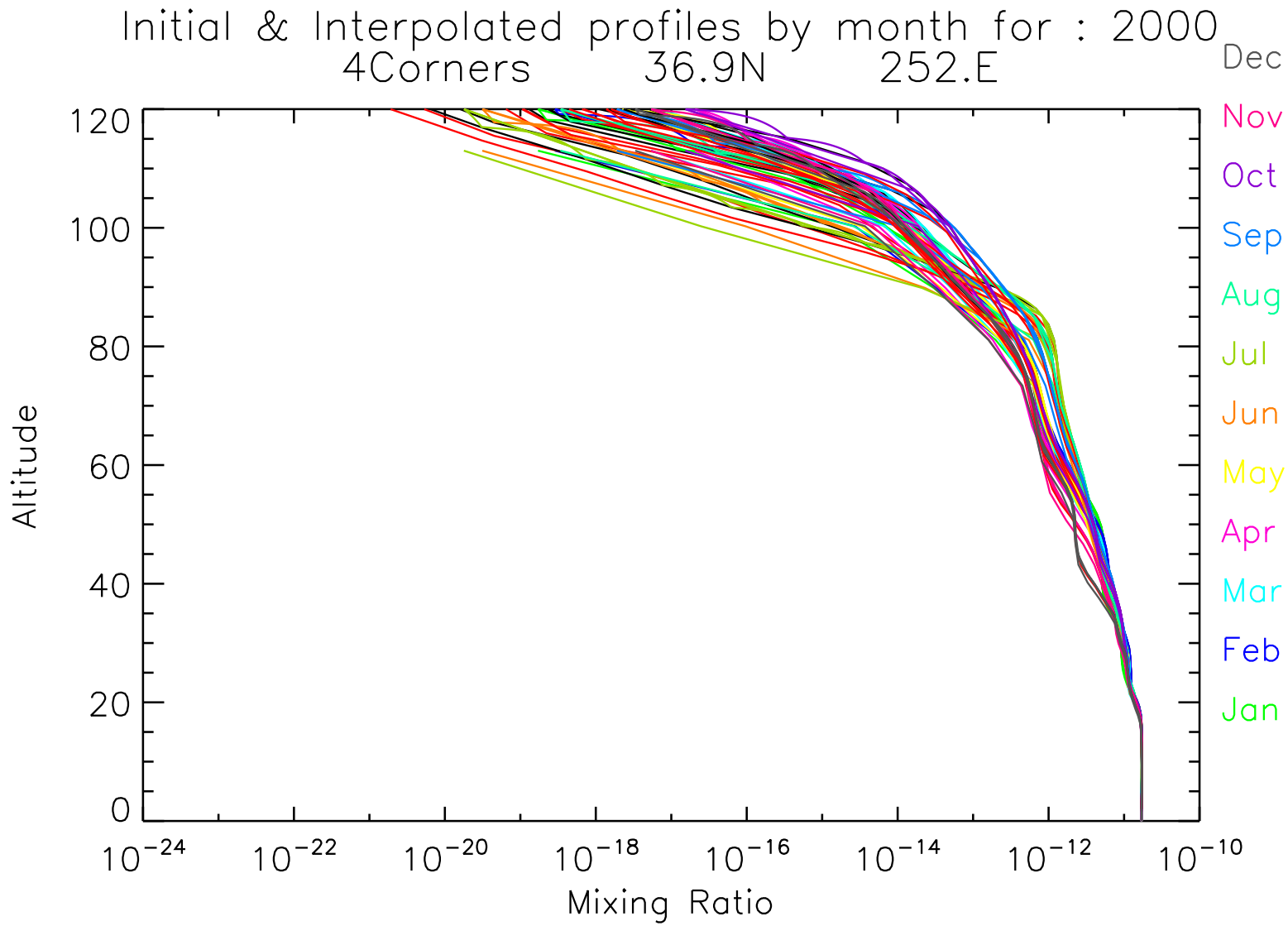
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
4Corners 36.9N 252.E
Dec
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Altitude
120
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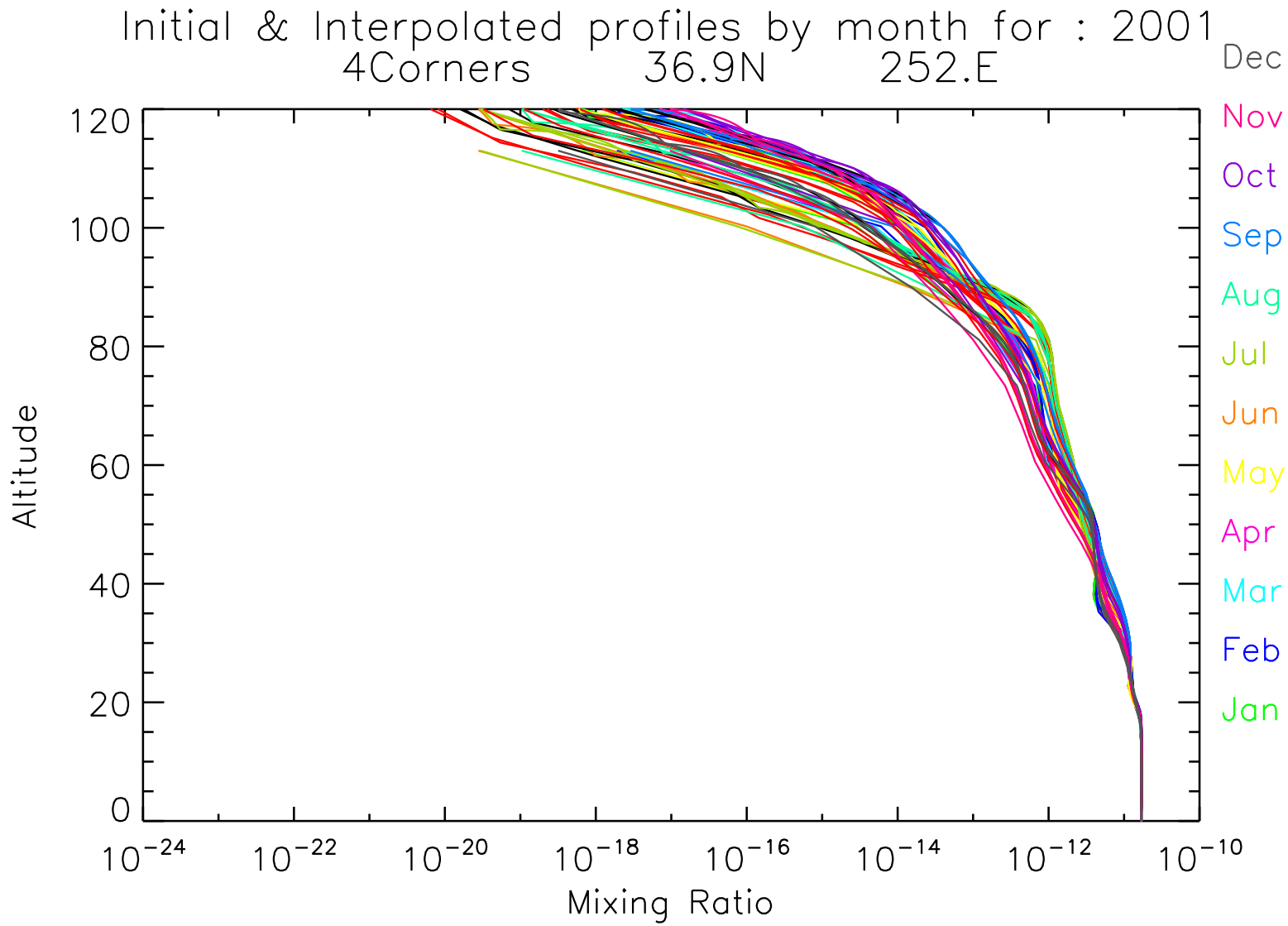
10^{-12}
10^{-10}
Mixing Ratio


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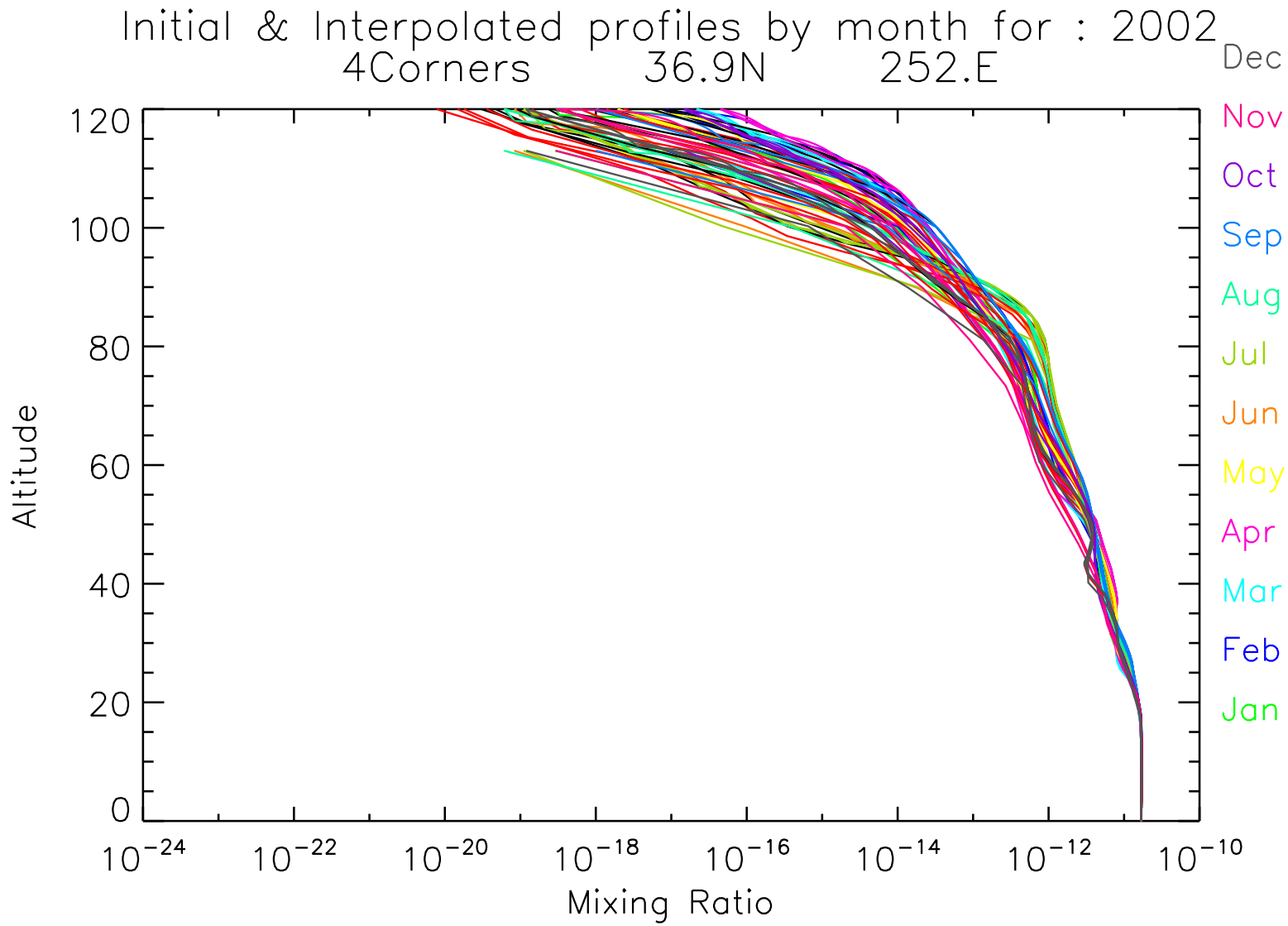
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


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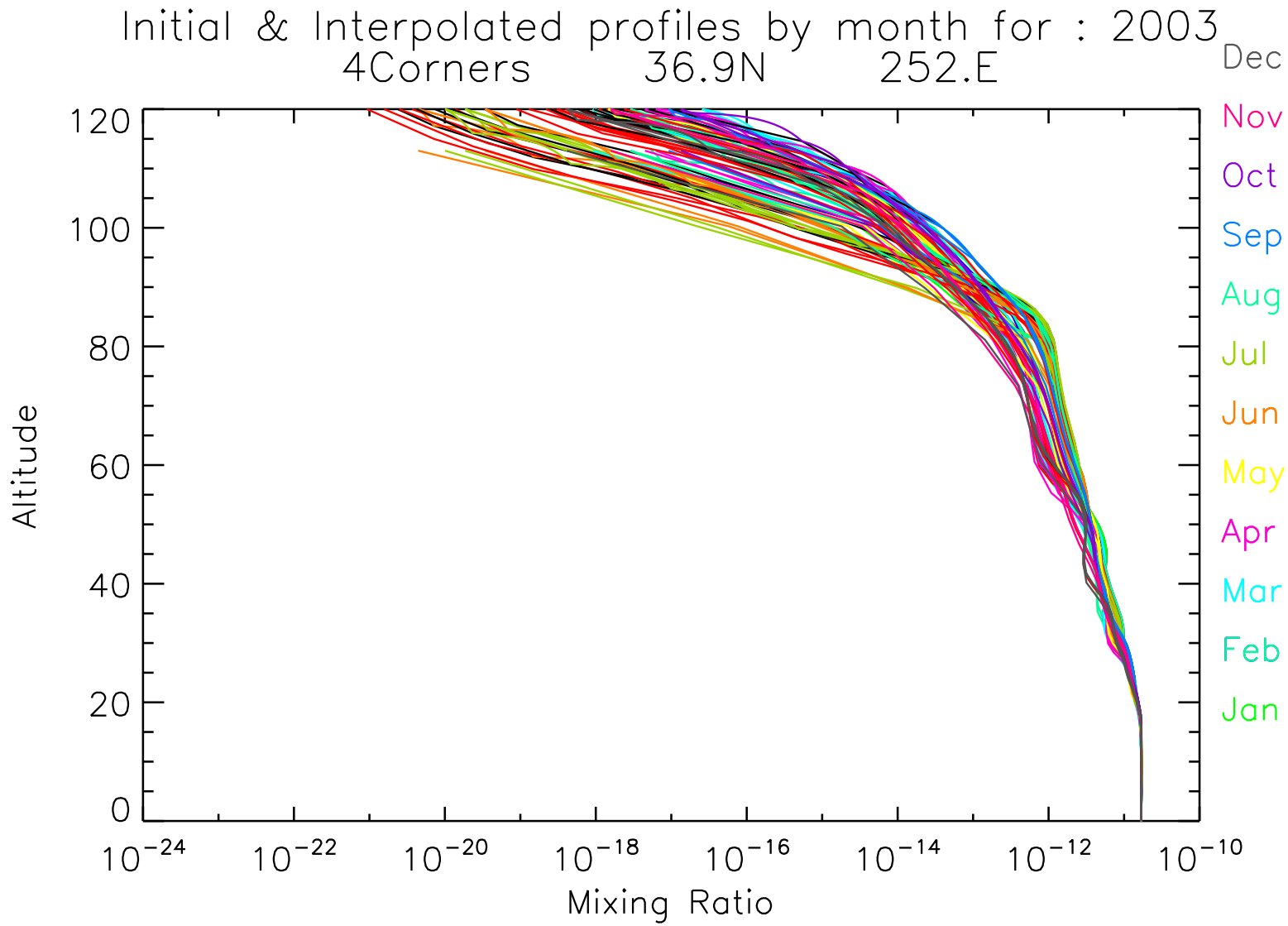
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
4Corners 36.9N 252.E
Dec
Nov
Oct
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Apr
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Feb
Jan
Altitude
120
100
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10^{-22}
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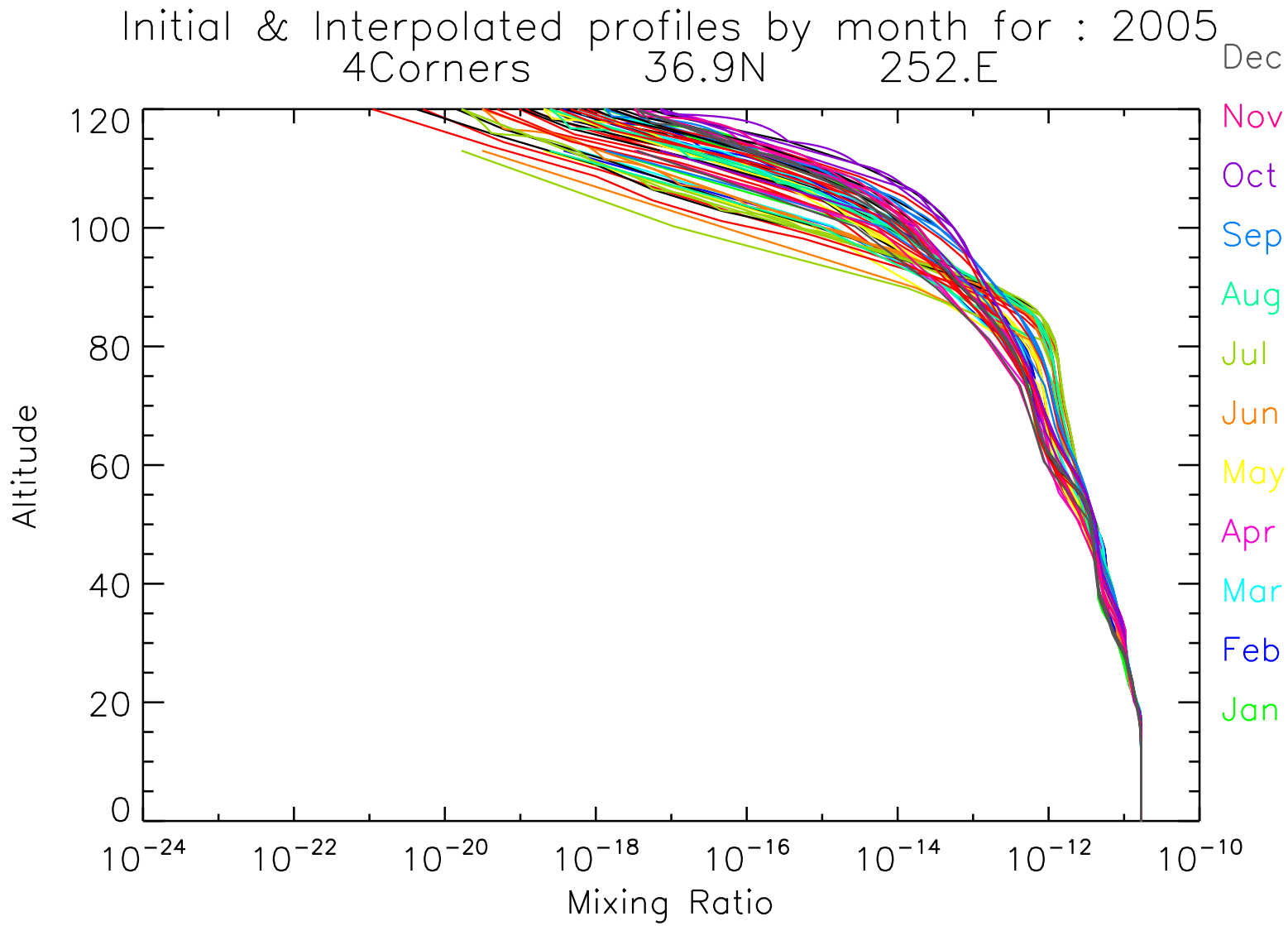
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
4Corners 36.9N 252.E
Dec
Nov
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Feb
Jan
Altitude
120
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10^{-22}
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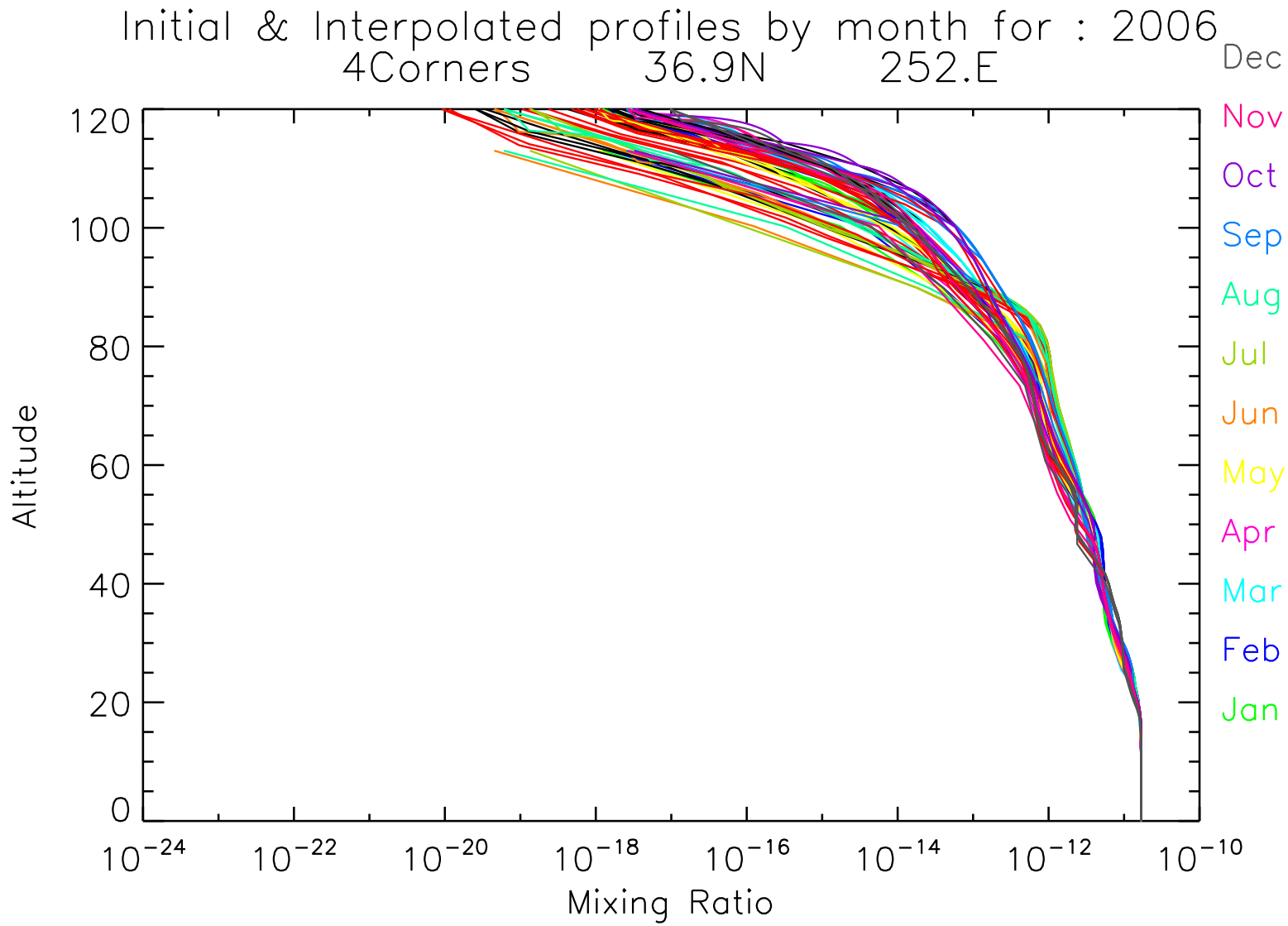
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
4Corners 36.9N 252.E
Dec
Nov
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Altitude
120
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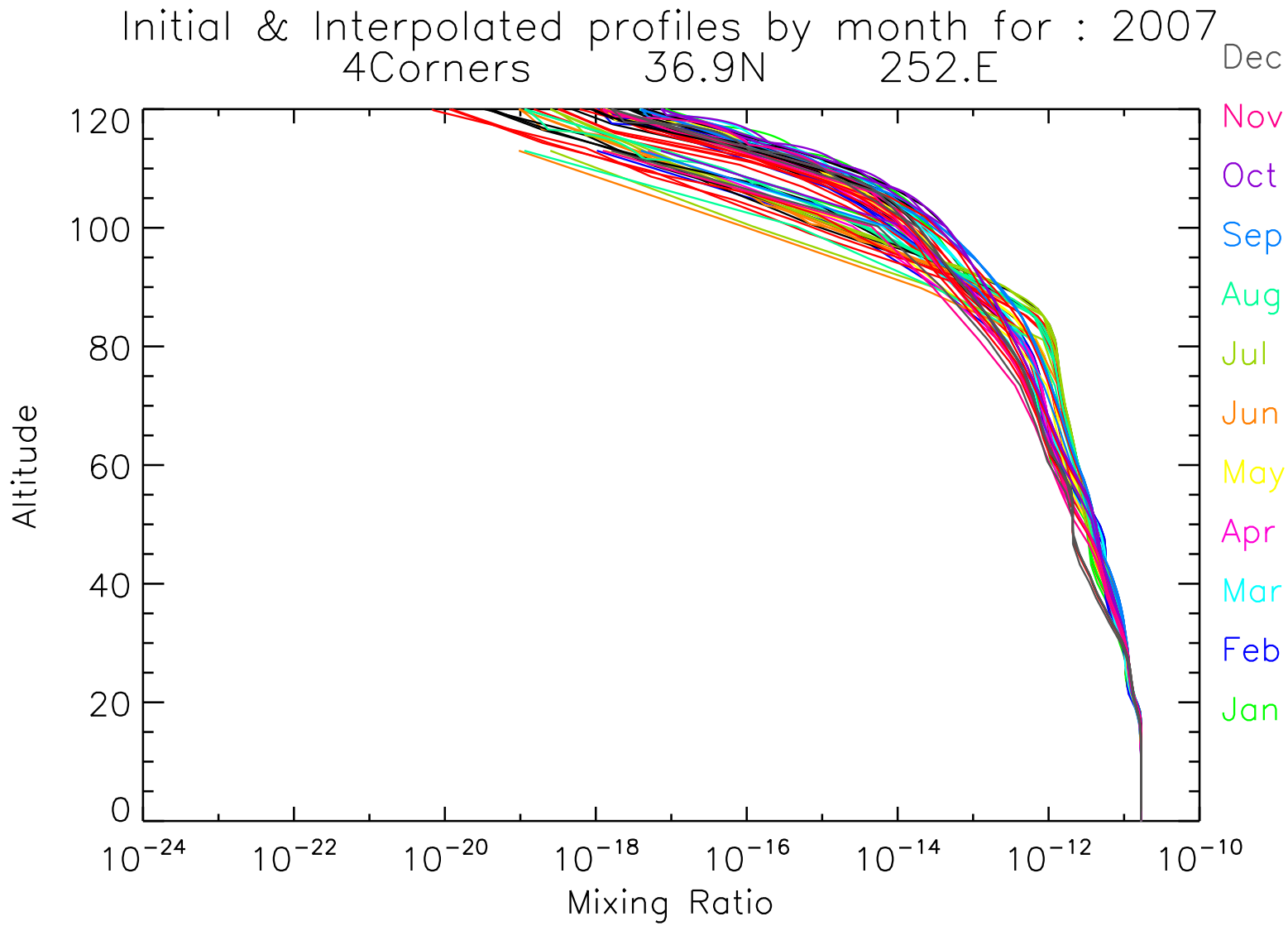
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
4Corners 36.9N 252.E
Dec
Nov
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Feb
Jan
Altitude
120
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10^{-24}
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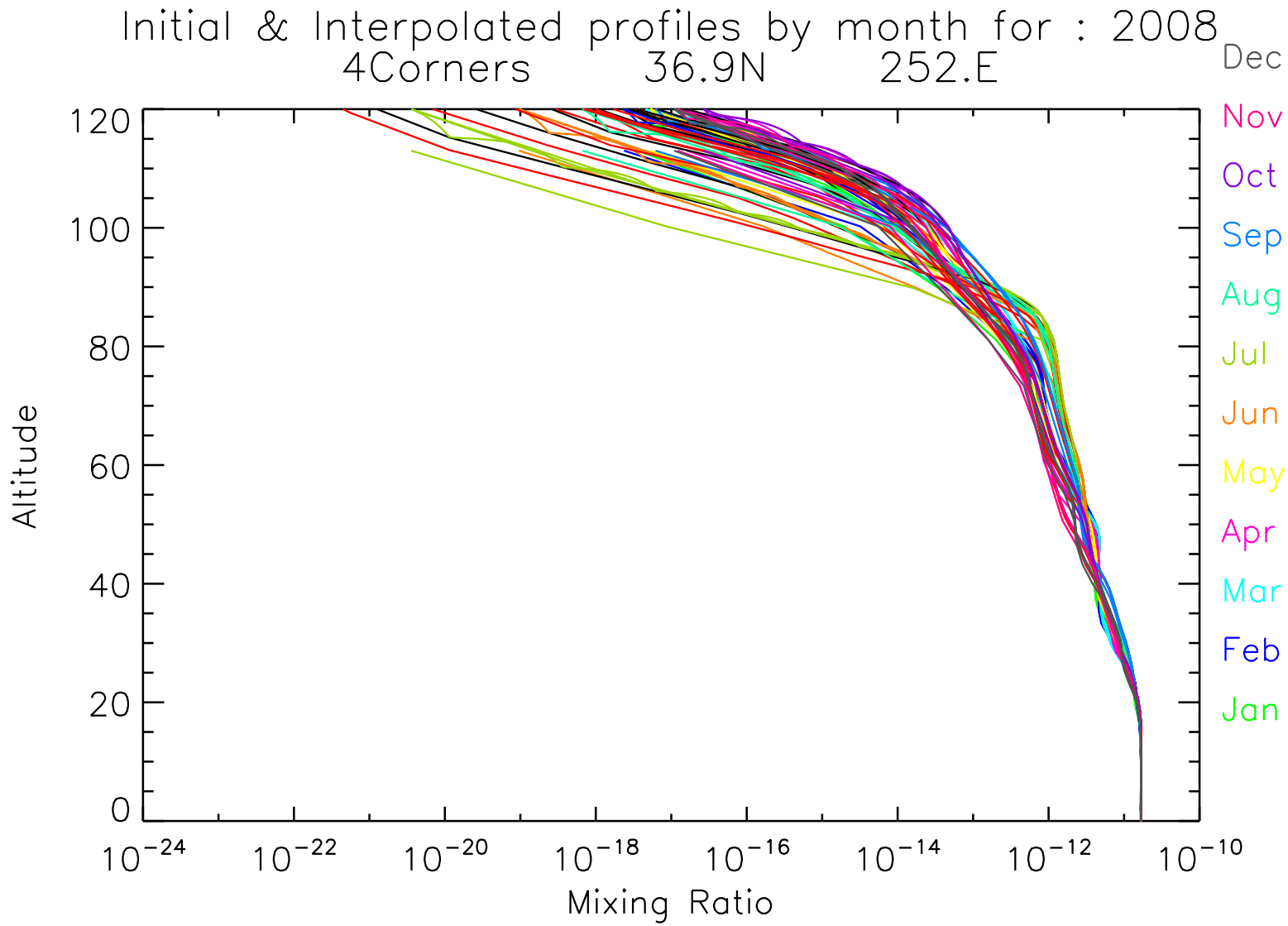
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
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^{-24}
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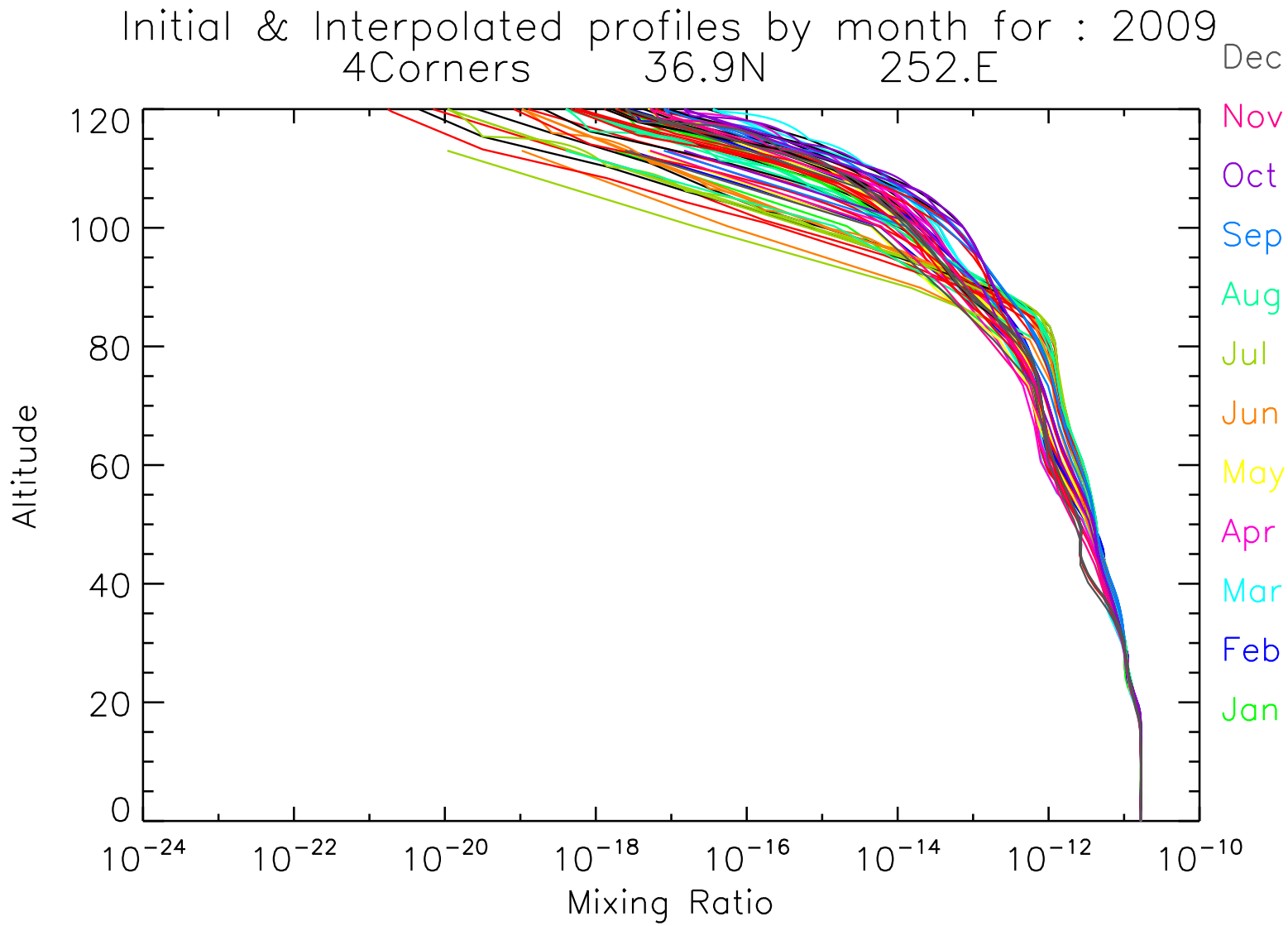
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
4Corners 36.9N 252.E
Dec
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Feb
Jan
Altitude
120
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10^{-24}
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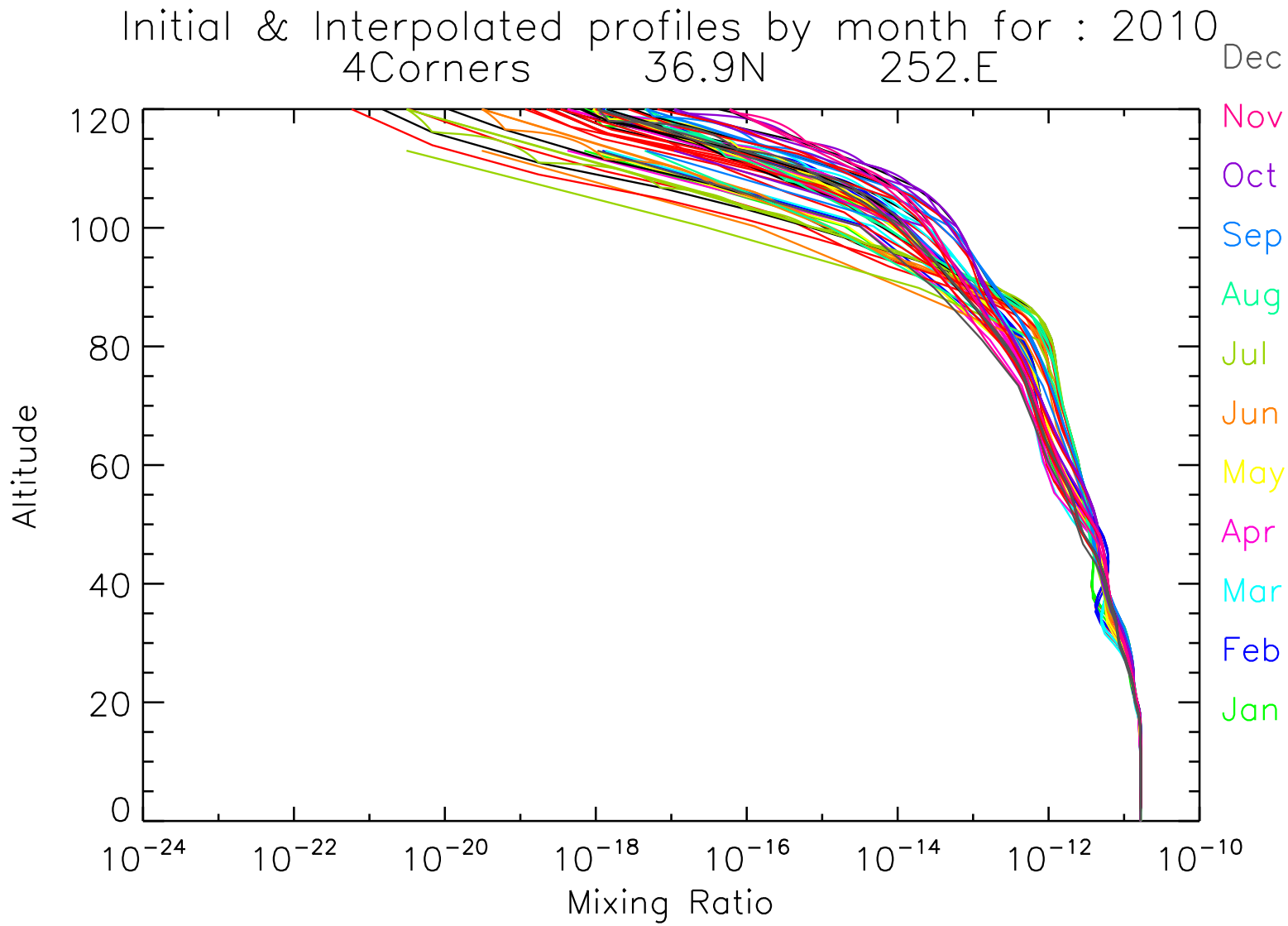
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


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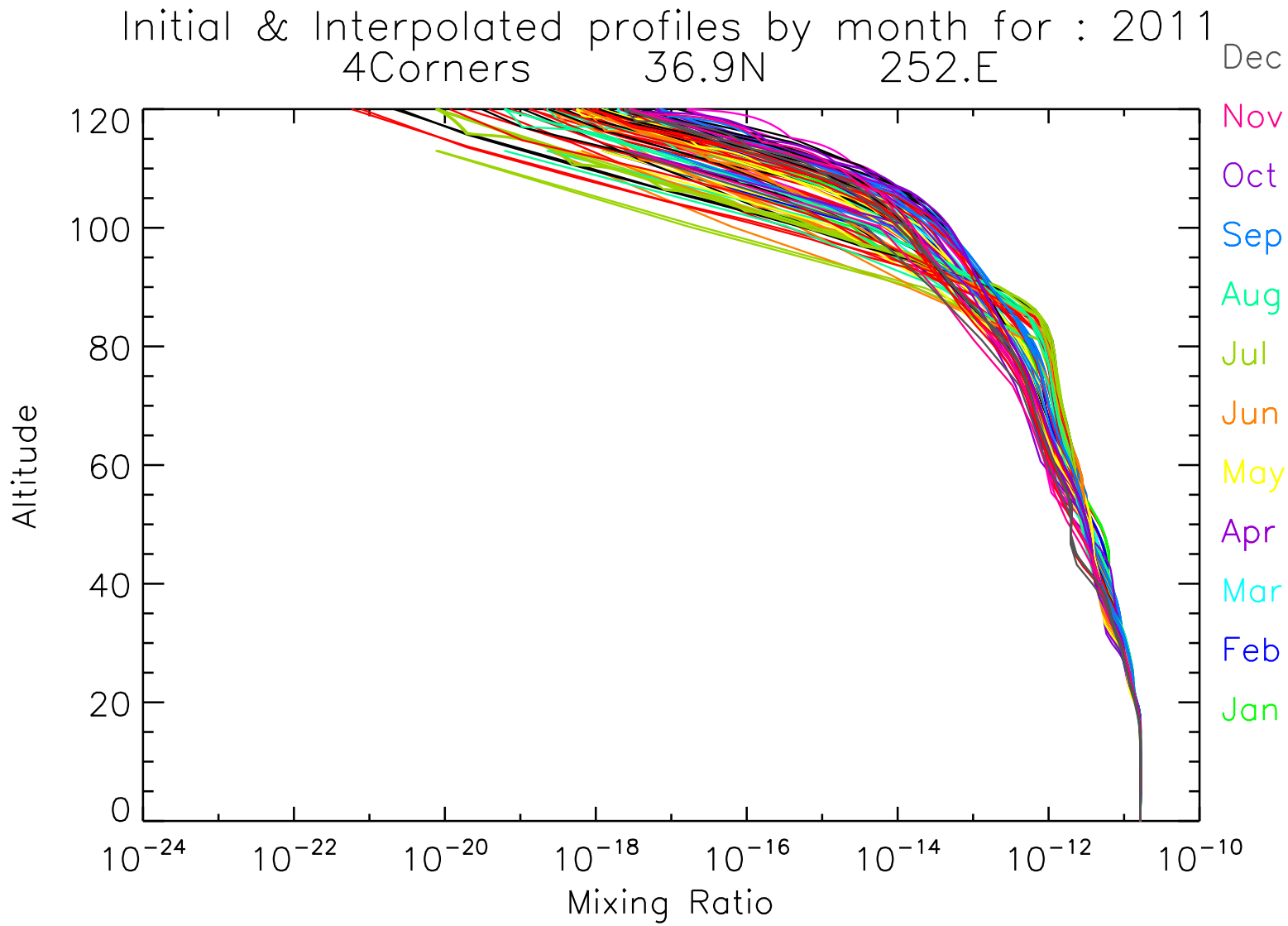
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
4Corners 36.9N 252.E
Dec
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Feb
Jan
Altitude
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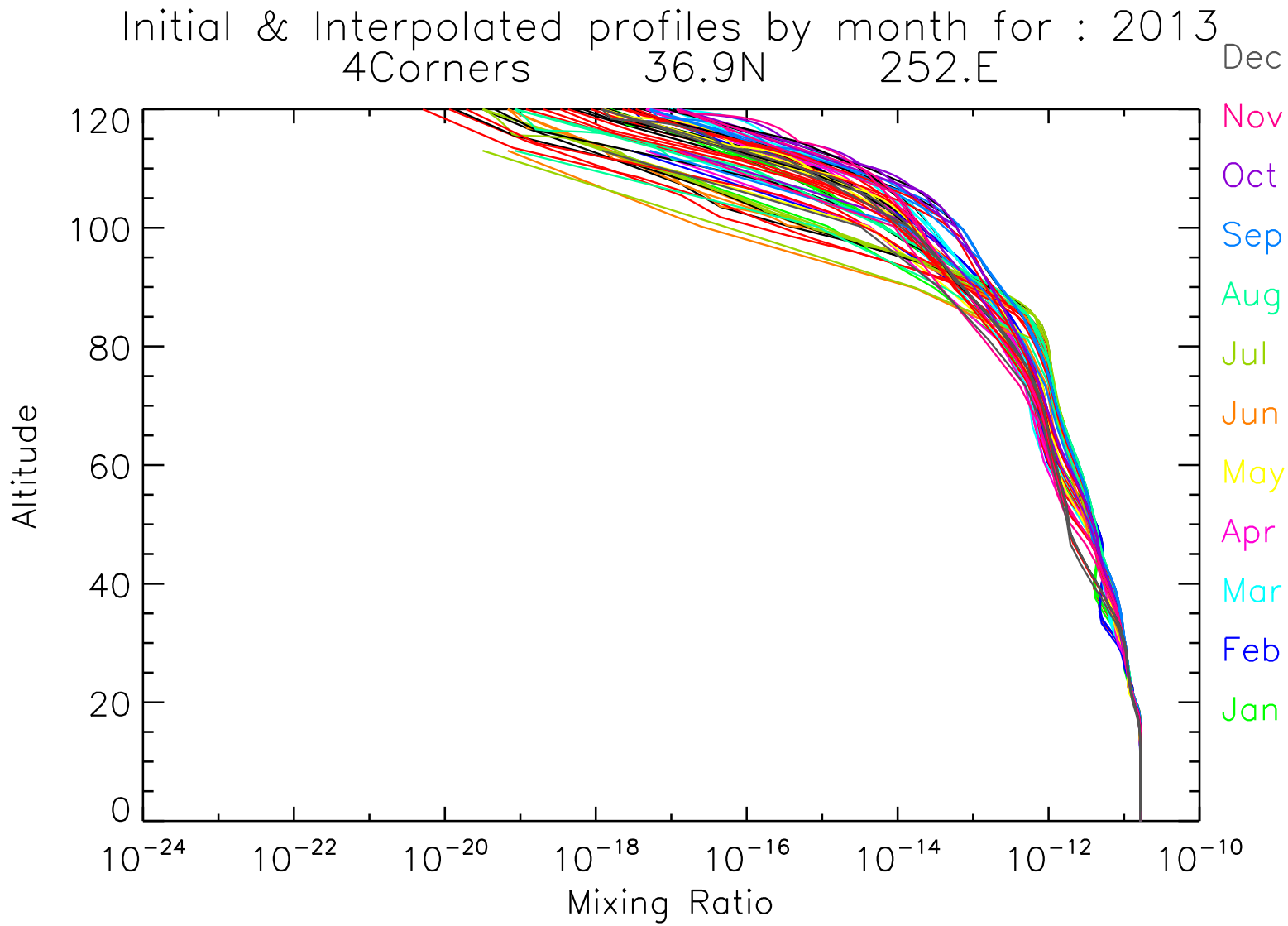
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio


Initial & Interpolated profiles by month for : 2013
4Corners 36.9N 252.E
Dec
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Feb
Jan
Altitude
120
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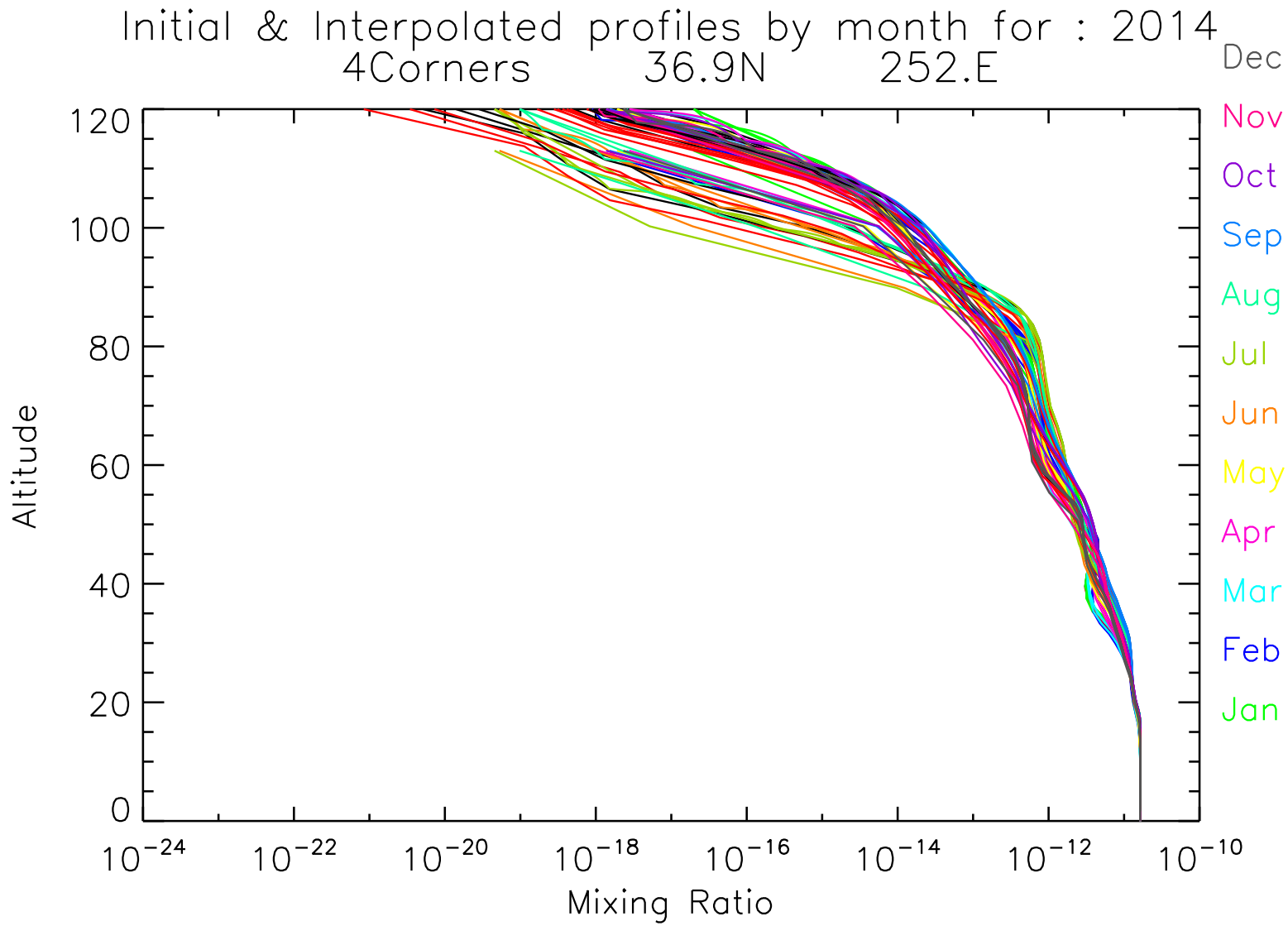
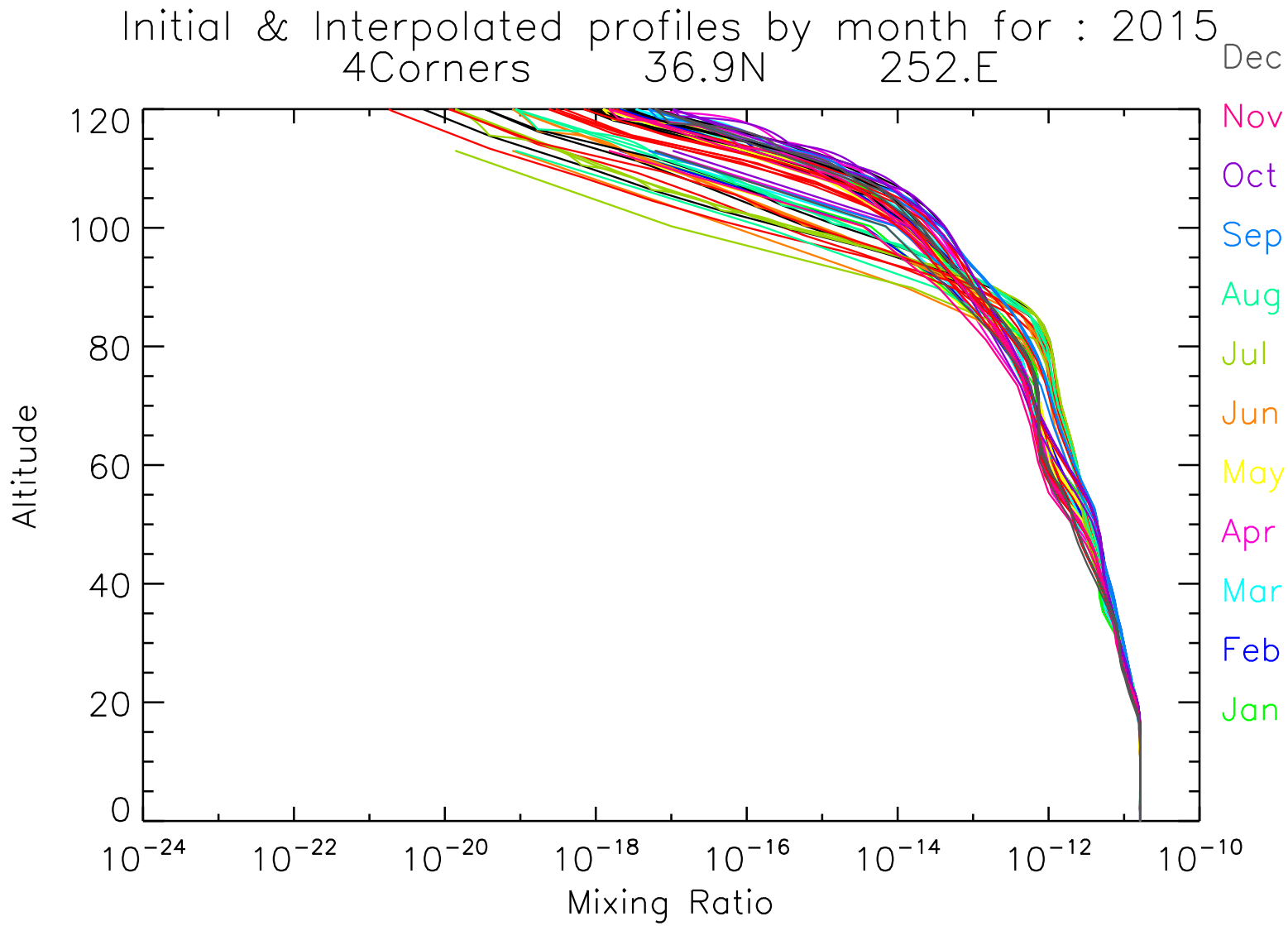
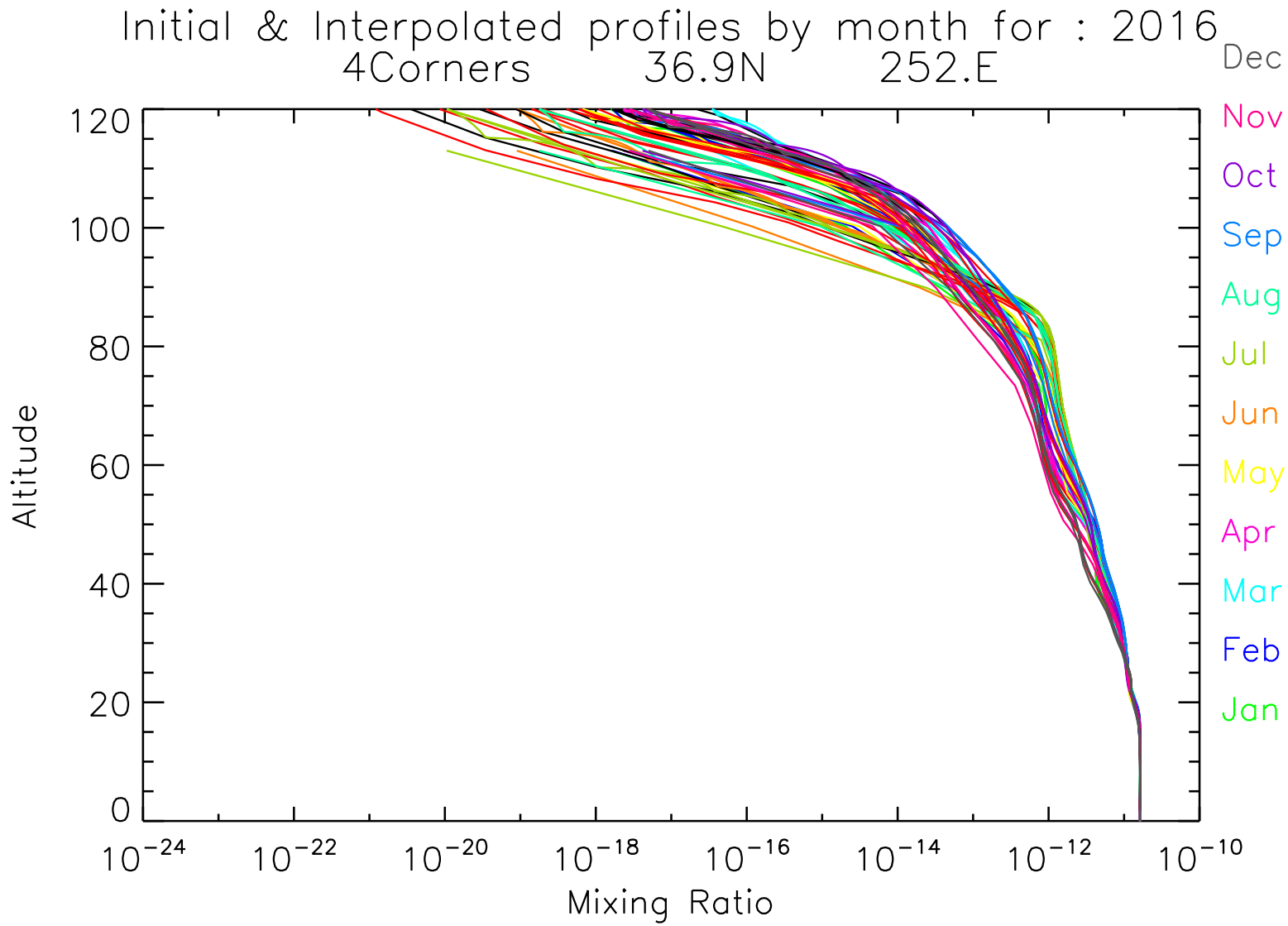
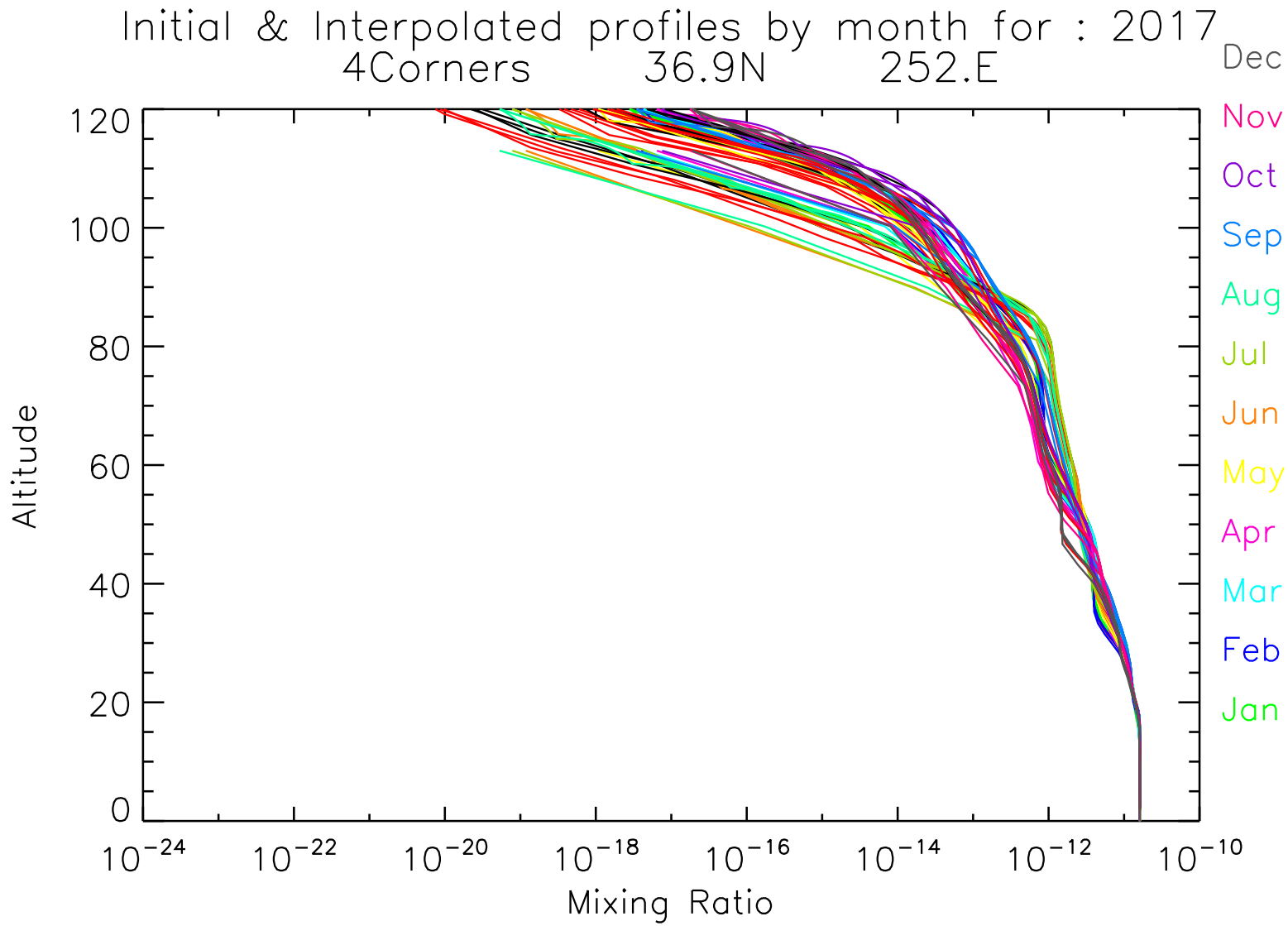
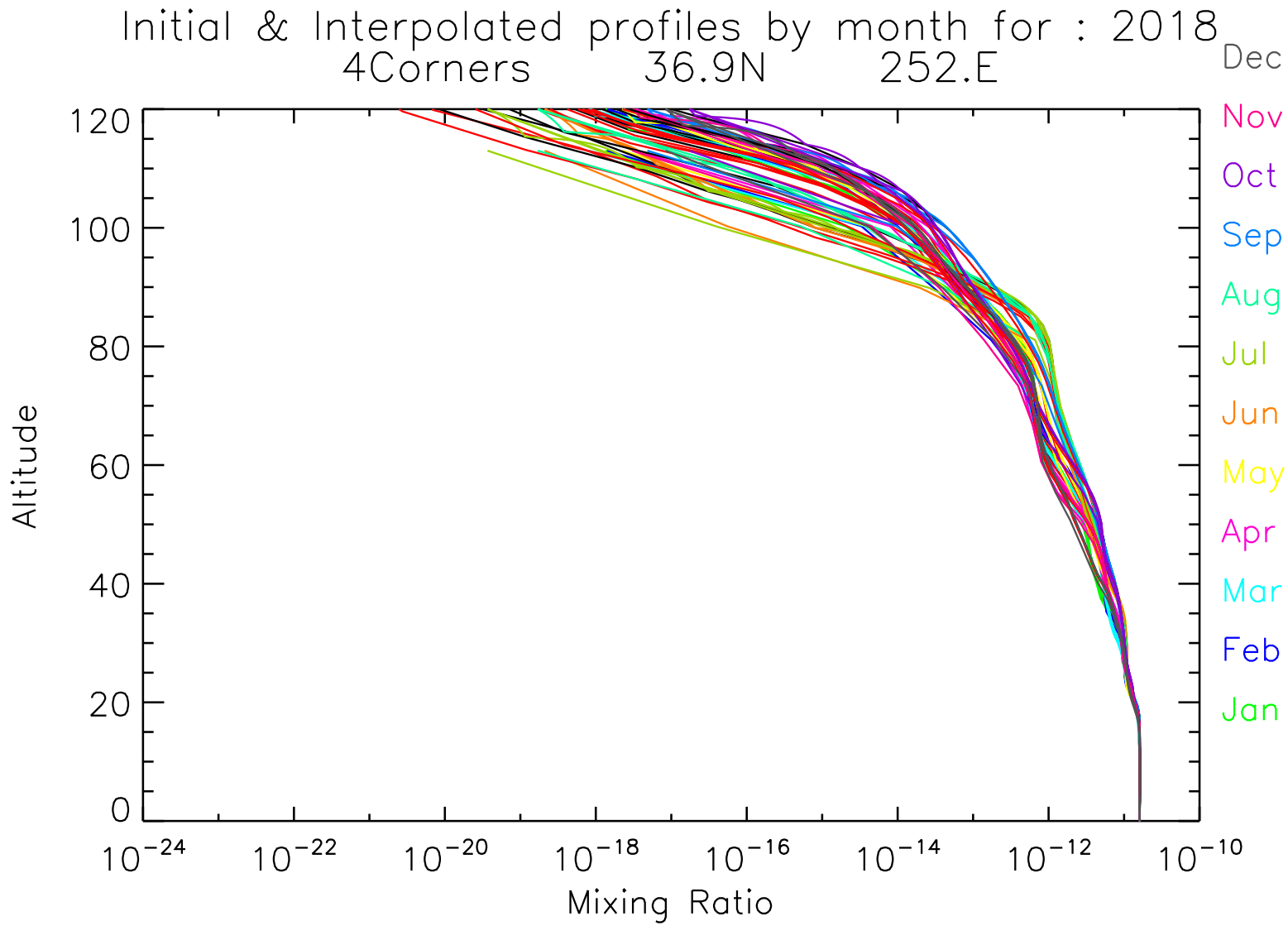
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

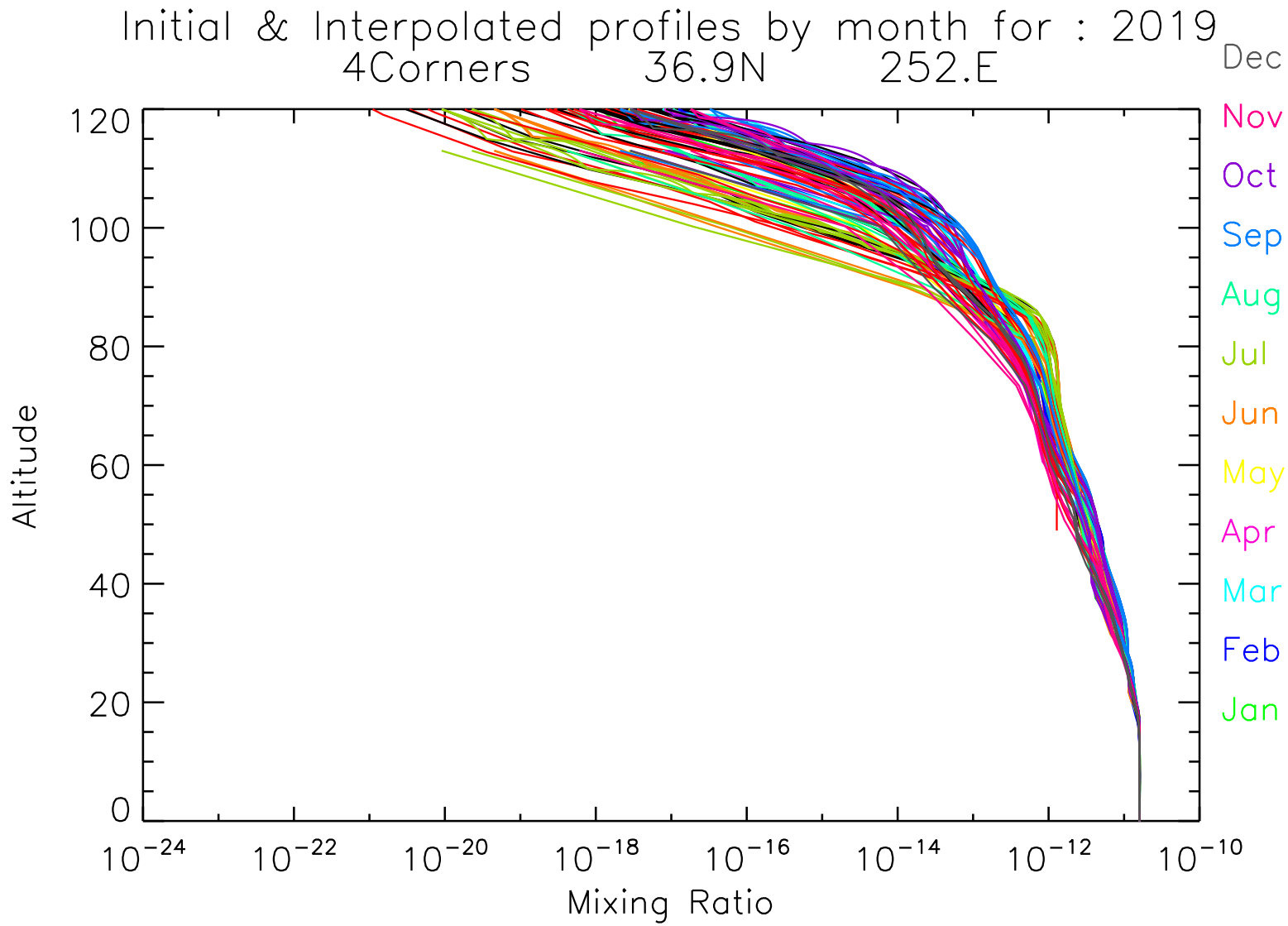

Initial & Interpolated profiles by month for : 2014
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

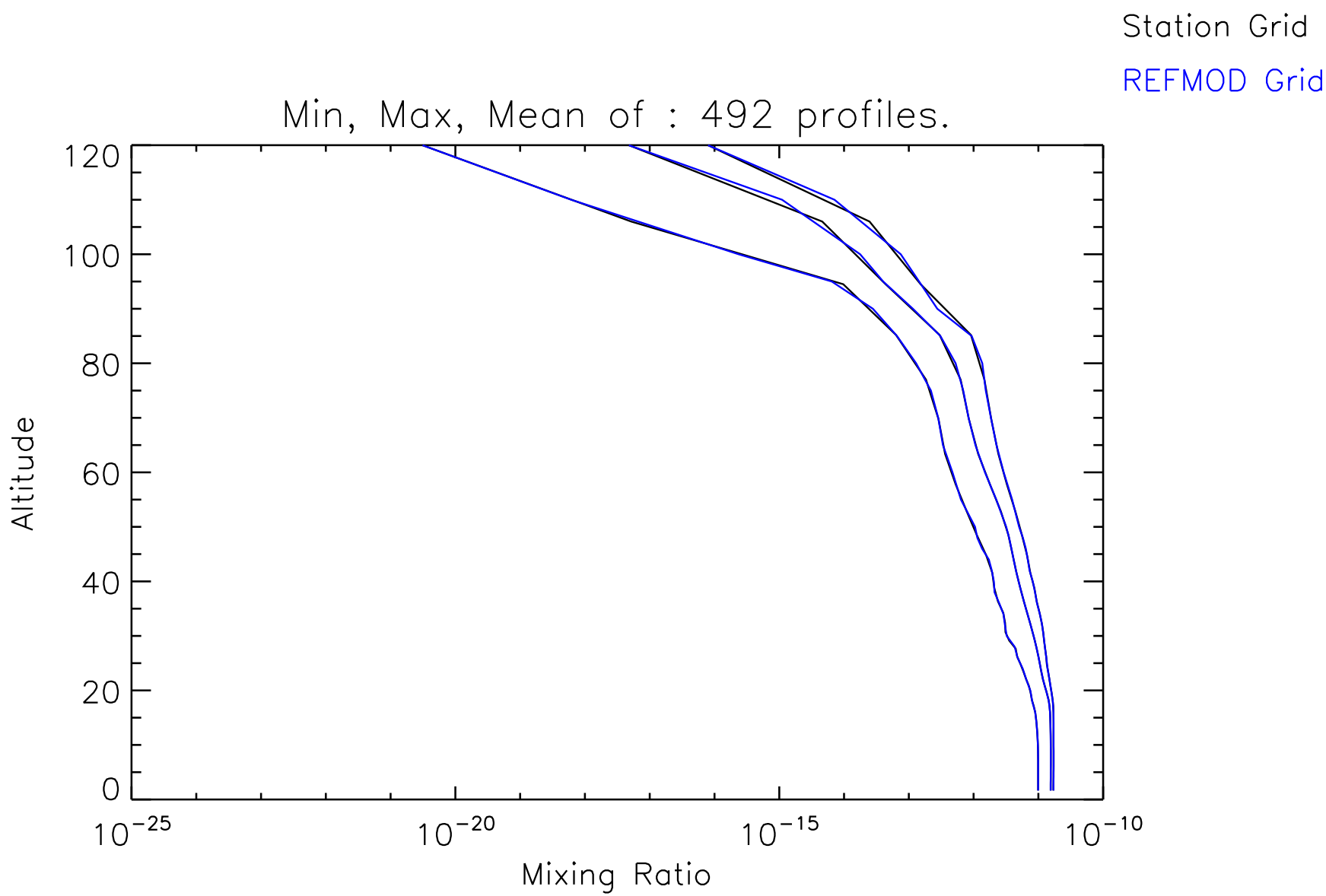

Initial & Interpolated profiles by month for : 2015
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

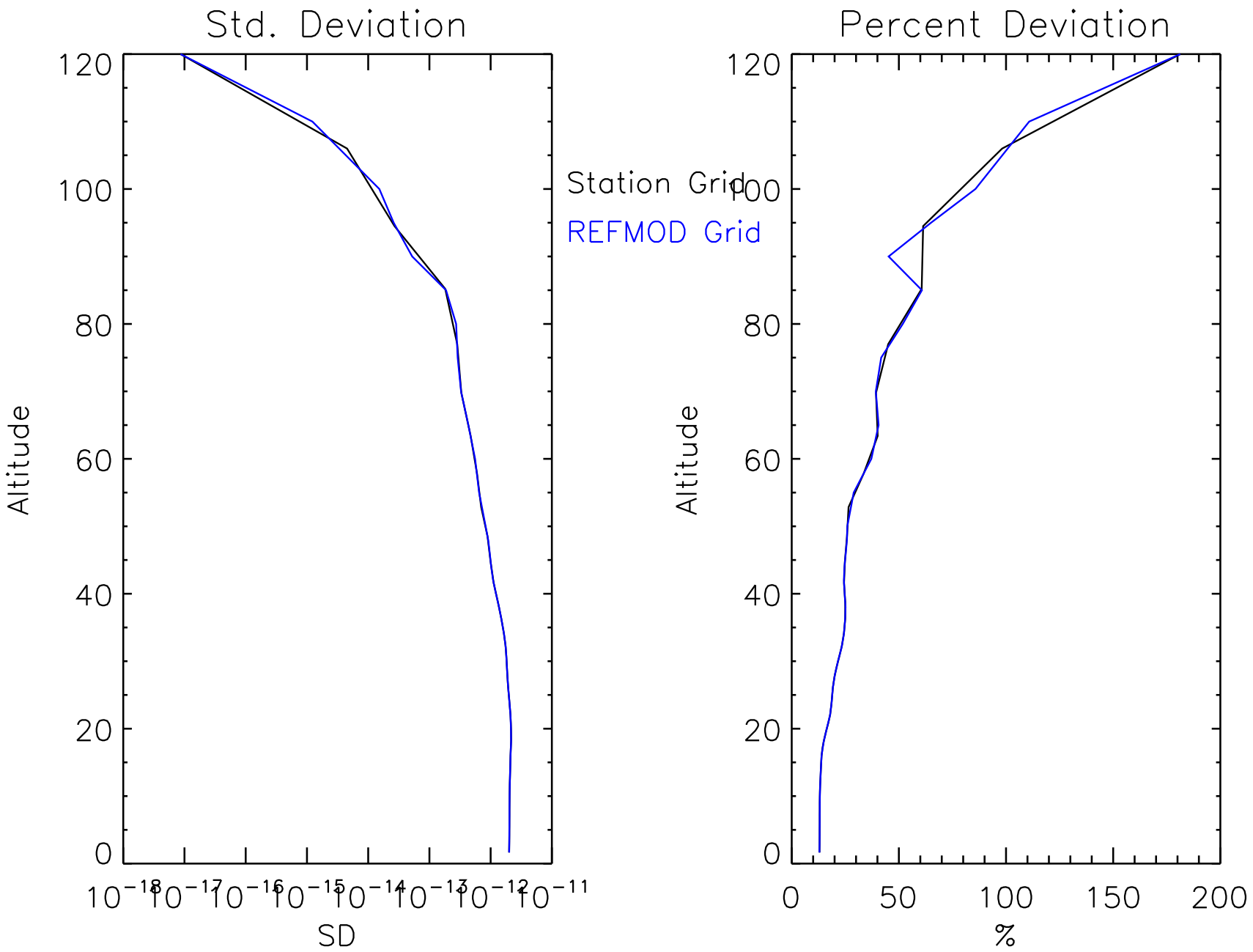

Initial & Interpolated profiles by month for : 2016
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

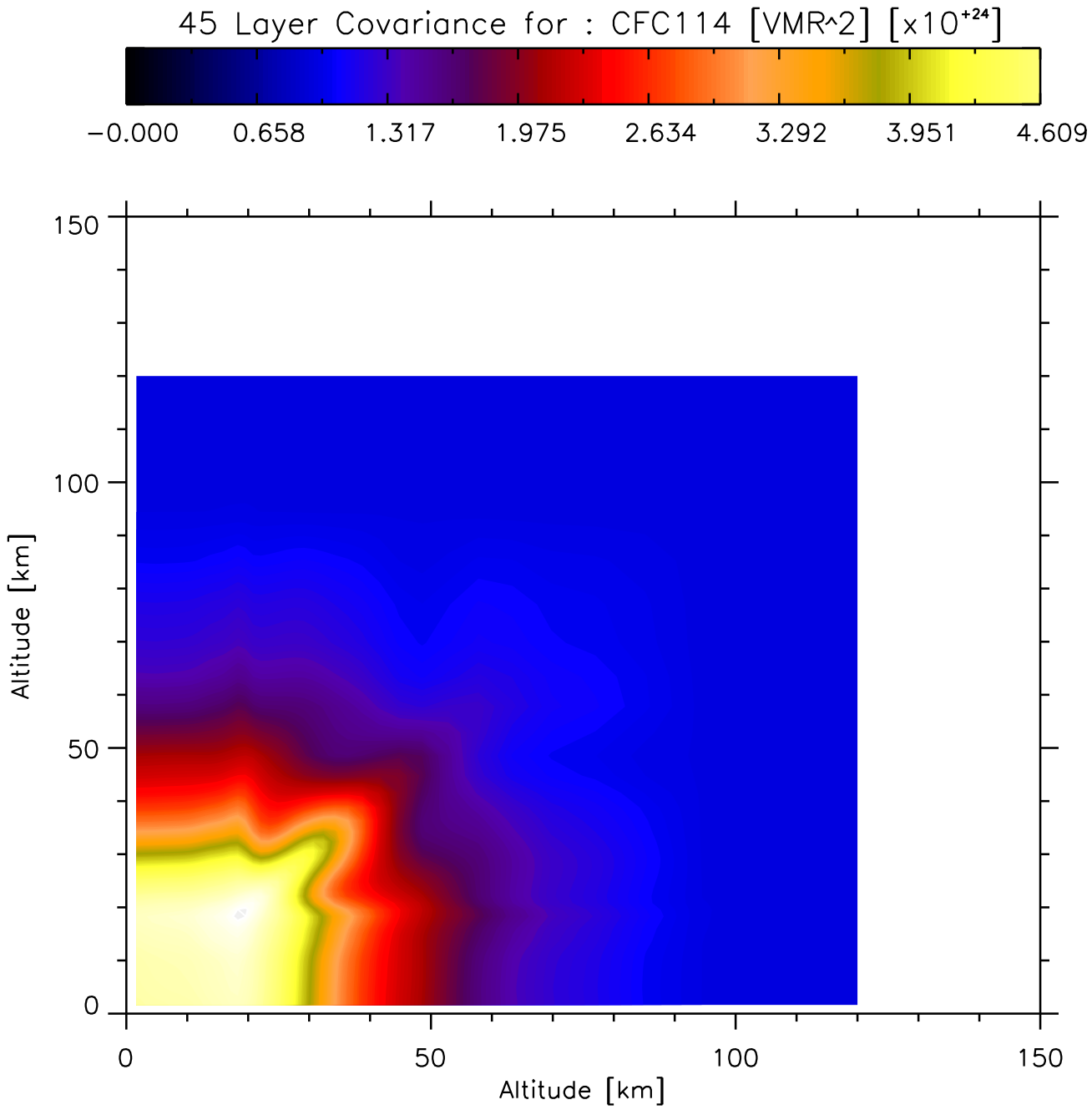

Initial & Interpolated profiles by month for : 2017
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

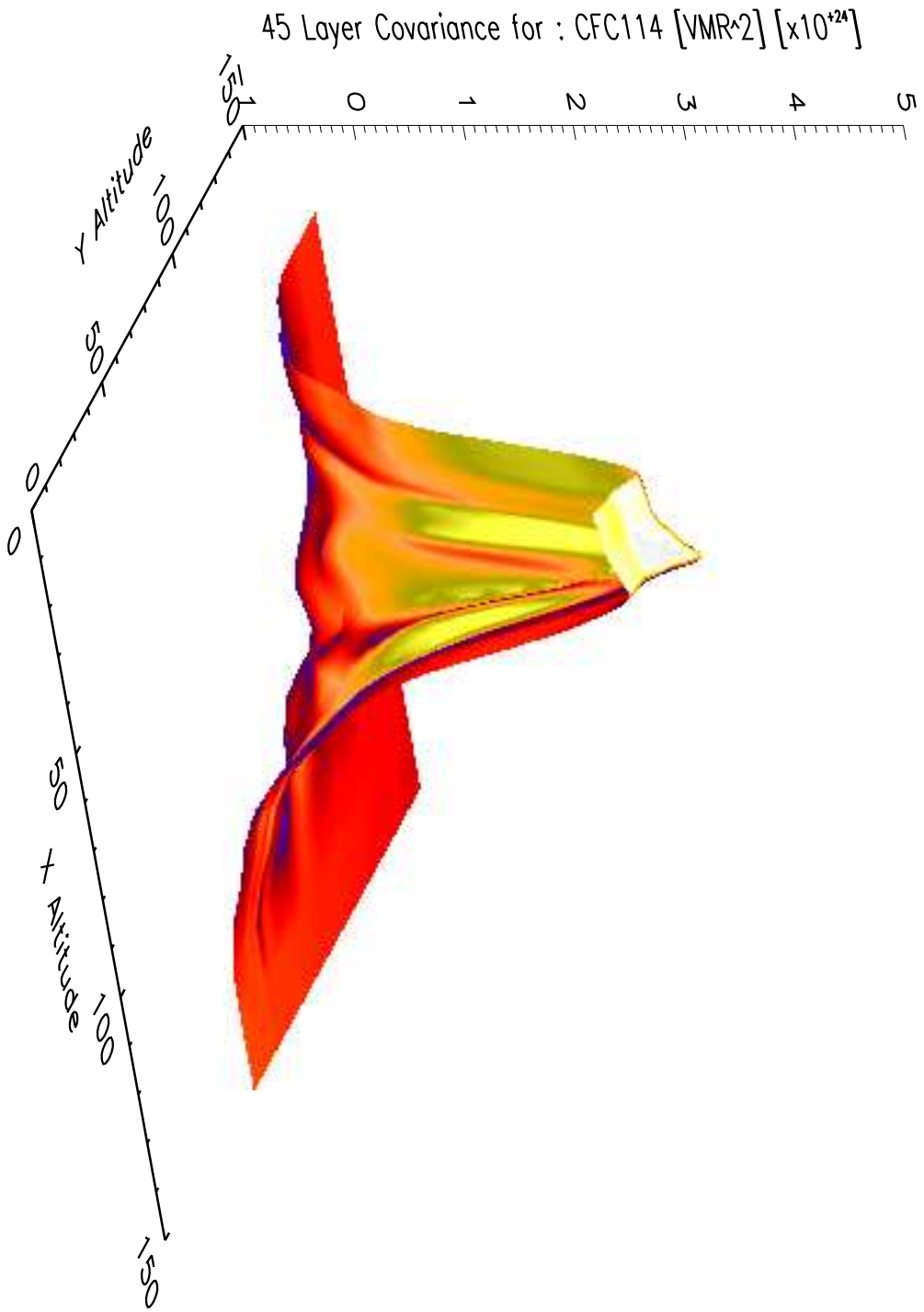

Initial & Interpolated profiles by month for : 2018
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

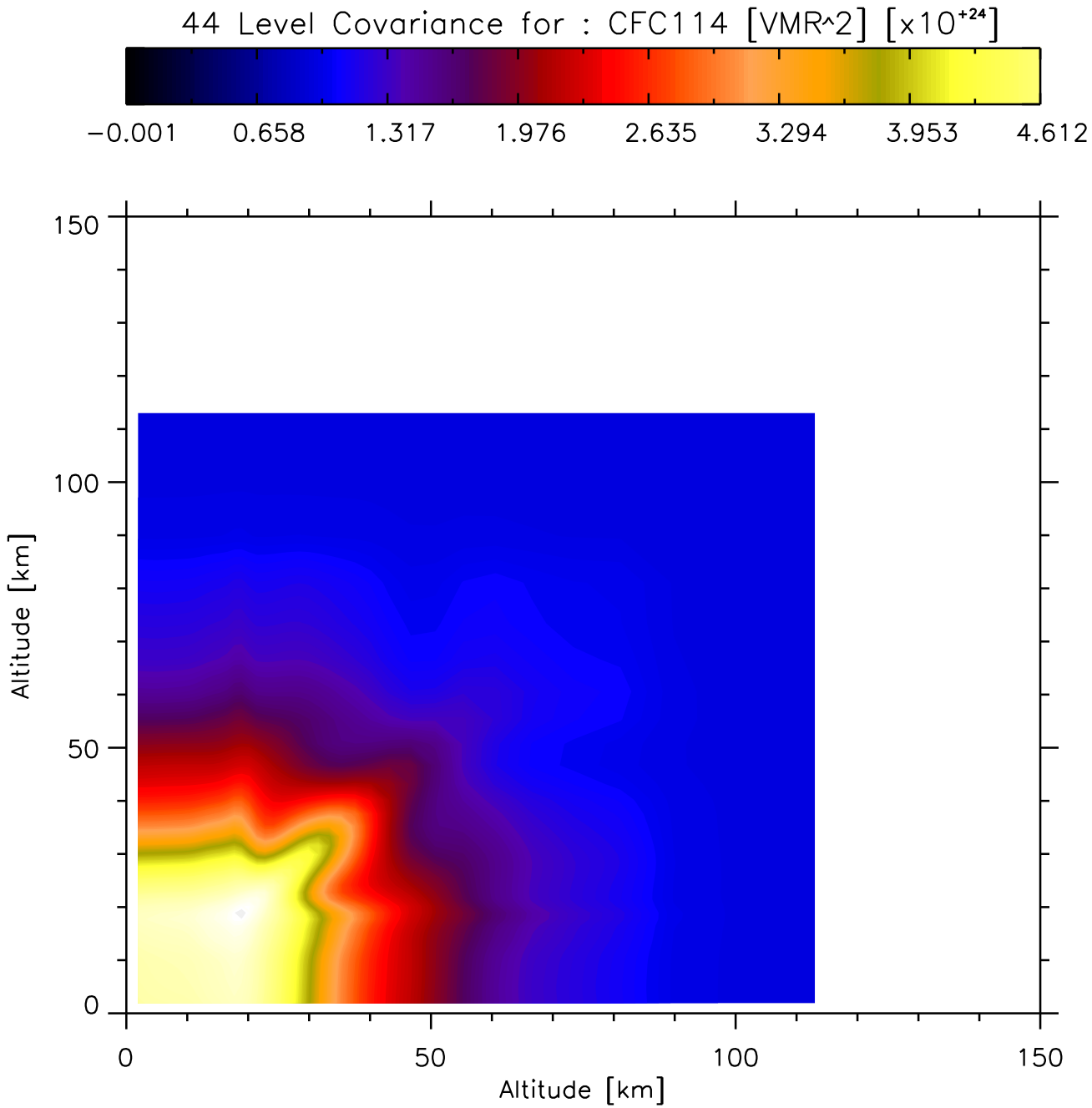

Initial & Interpolated profiles by month for : 2019
4Corners 36.9N 252.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-24}
10^{-22}
10^{-20}
10^{-18}
10^{-16}
10^{-14}
10^{-12}
10^{-10}
Mixing Ratio

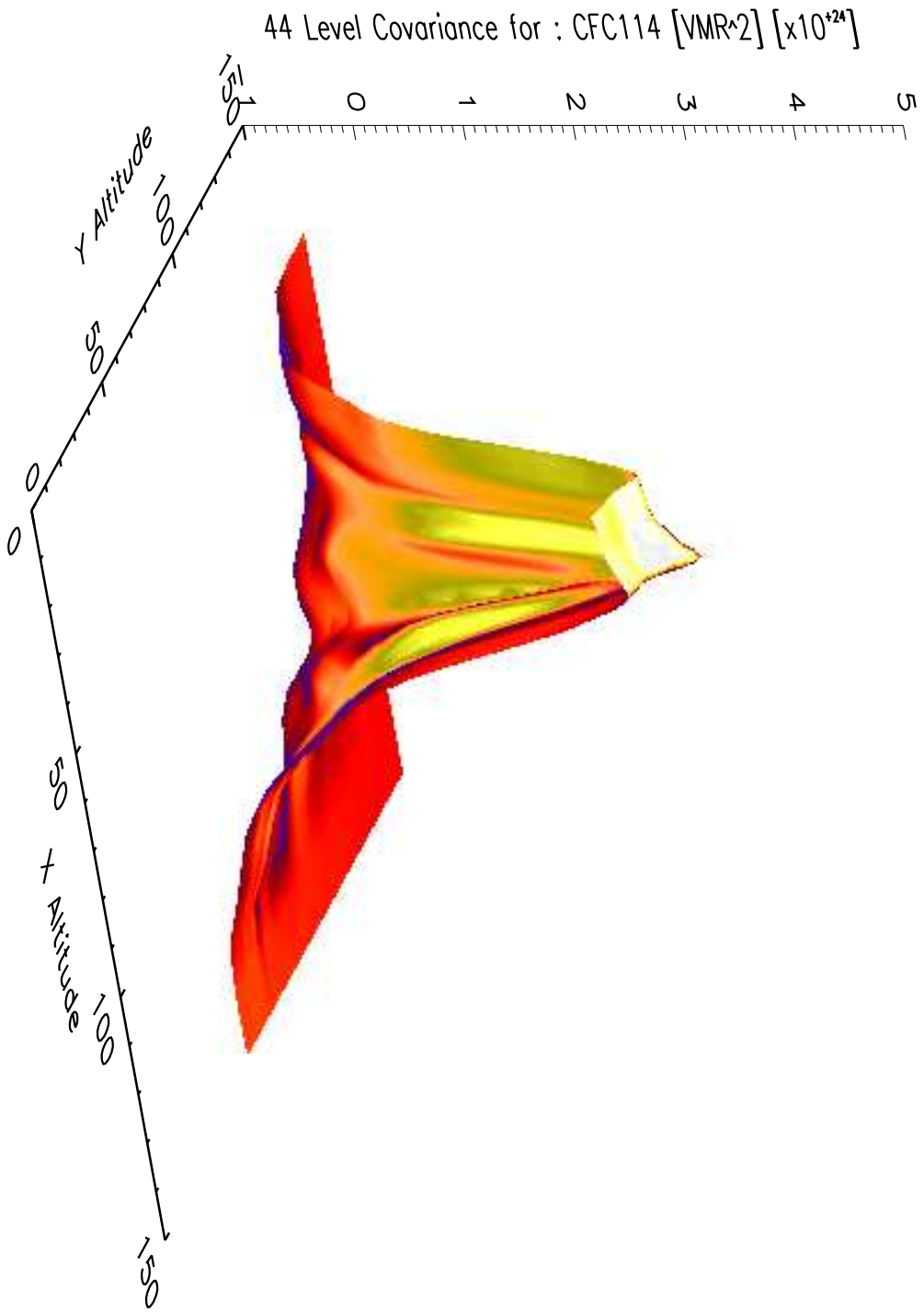

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-25}
10^{-20}
10^{-15}
10^{-10}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-18} 10^{-17} 10^{-16} 10^{-15} 10^{-14} 10^{-13} 10^{-12} 10^{-11}
SD
0
50
100
150
200
%


45 Layer Covariance for : CFC114 [VMR^2] [x10^+24]
−0.000
0.658
1.317
1.975
2.634
3.292
3.951
4.609
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


45 Layer Covariance for : CFC114 [VMR^2] [x10^+24]
0
1
2
3
4
5
Y Altitude
0
50
100
150
X Altitude
0
50
100
150


44 Level Covariance for : CFC114 [VMR^2] [x10^+24]
−0.001
0.658
1.317
1.976
2.635
3.294
3.953
4.612
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


44 Level Covariance for : CFC114 [VMR^2] [x10^+24]
0
1
2
3
4
5
Y Altitude
0
50
100
150
0
50
100
150
X Altitude