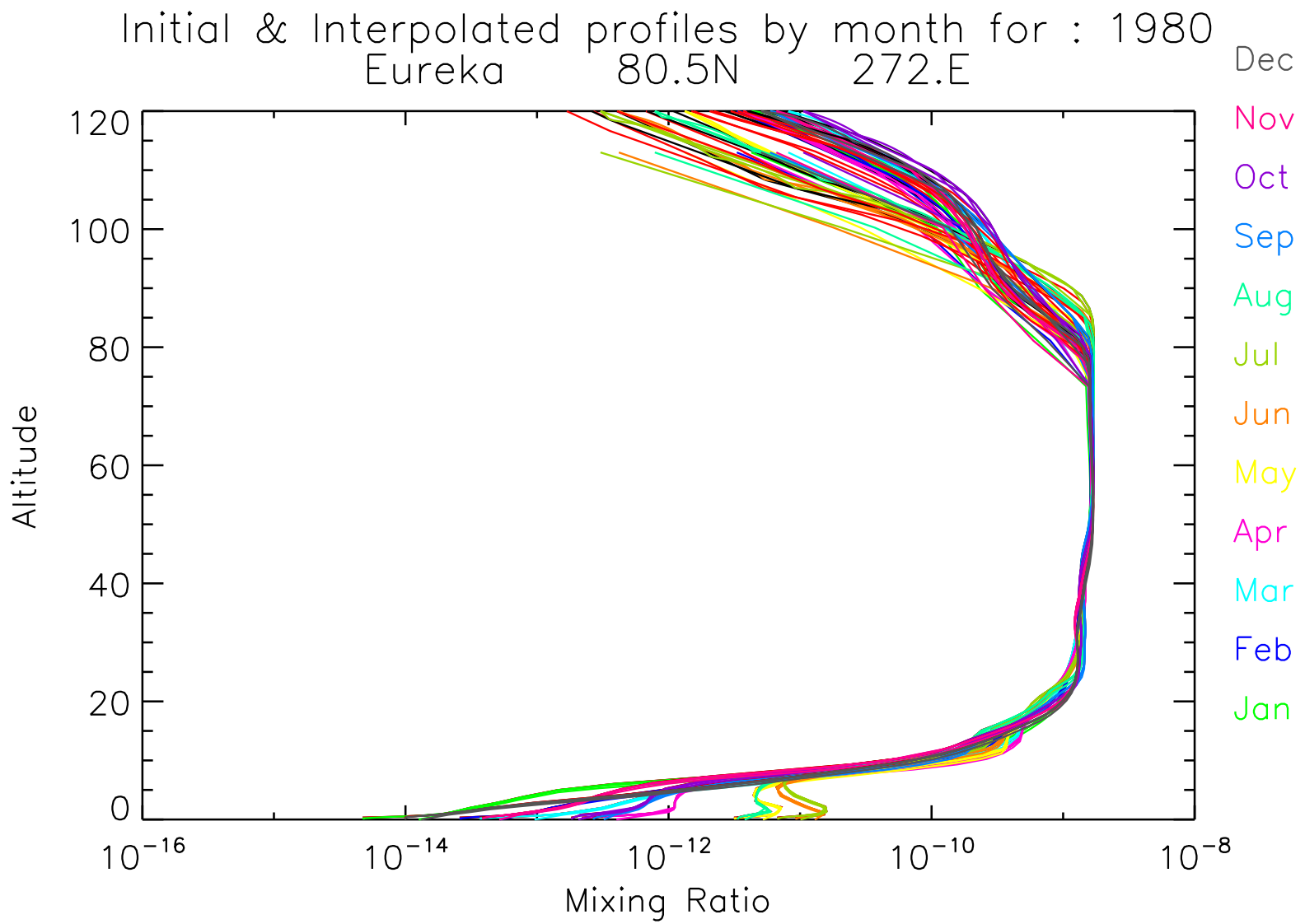
Initial & Interpolated profiles by month for : 1980
Eureka 80.5N 272.E
Dec
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Altitude
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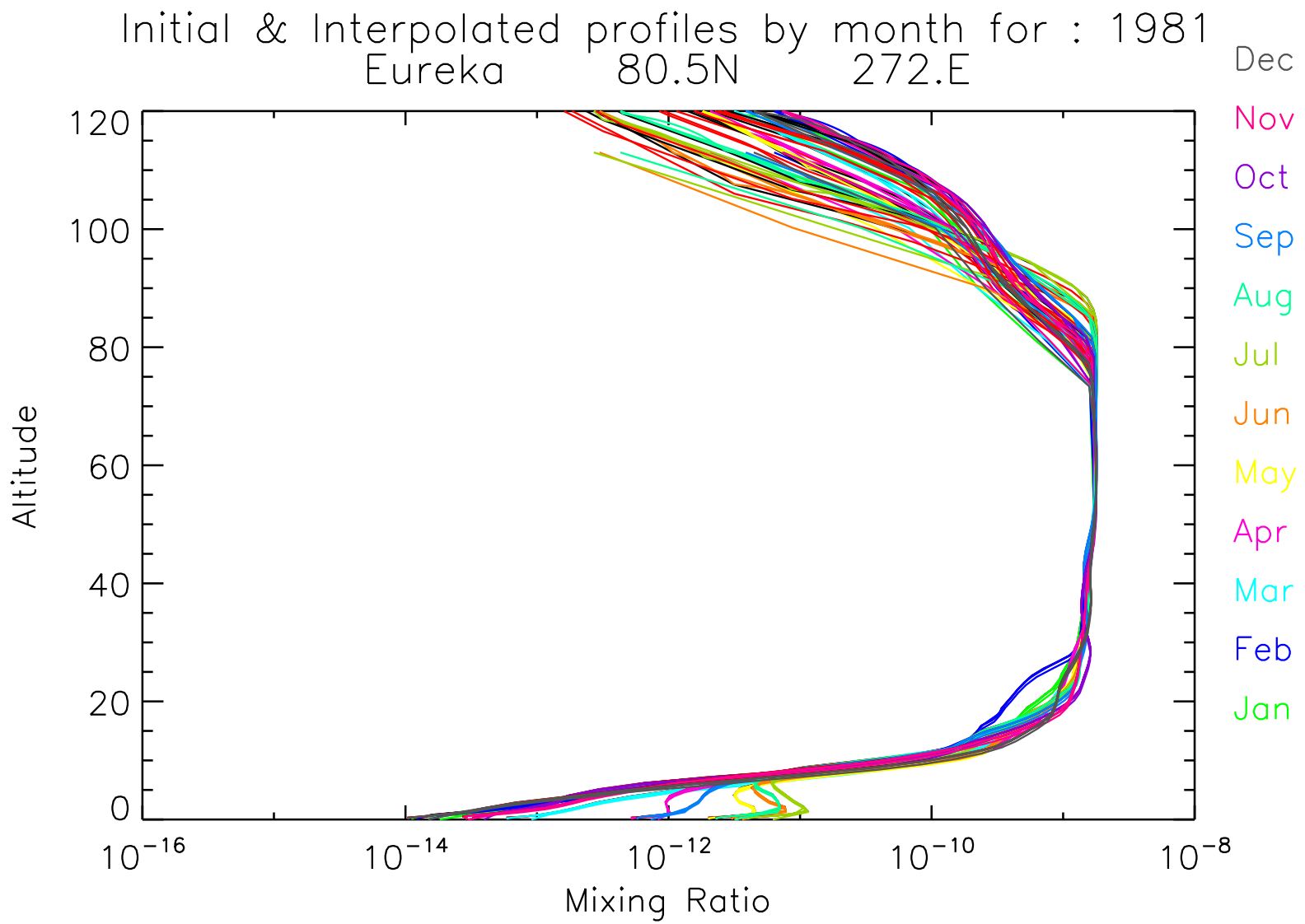
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Eureka 80.5N 272.E
Dec
Nov
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Sep
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Altitude
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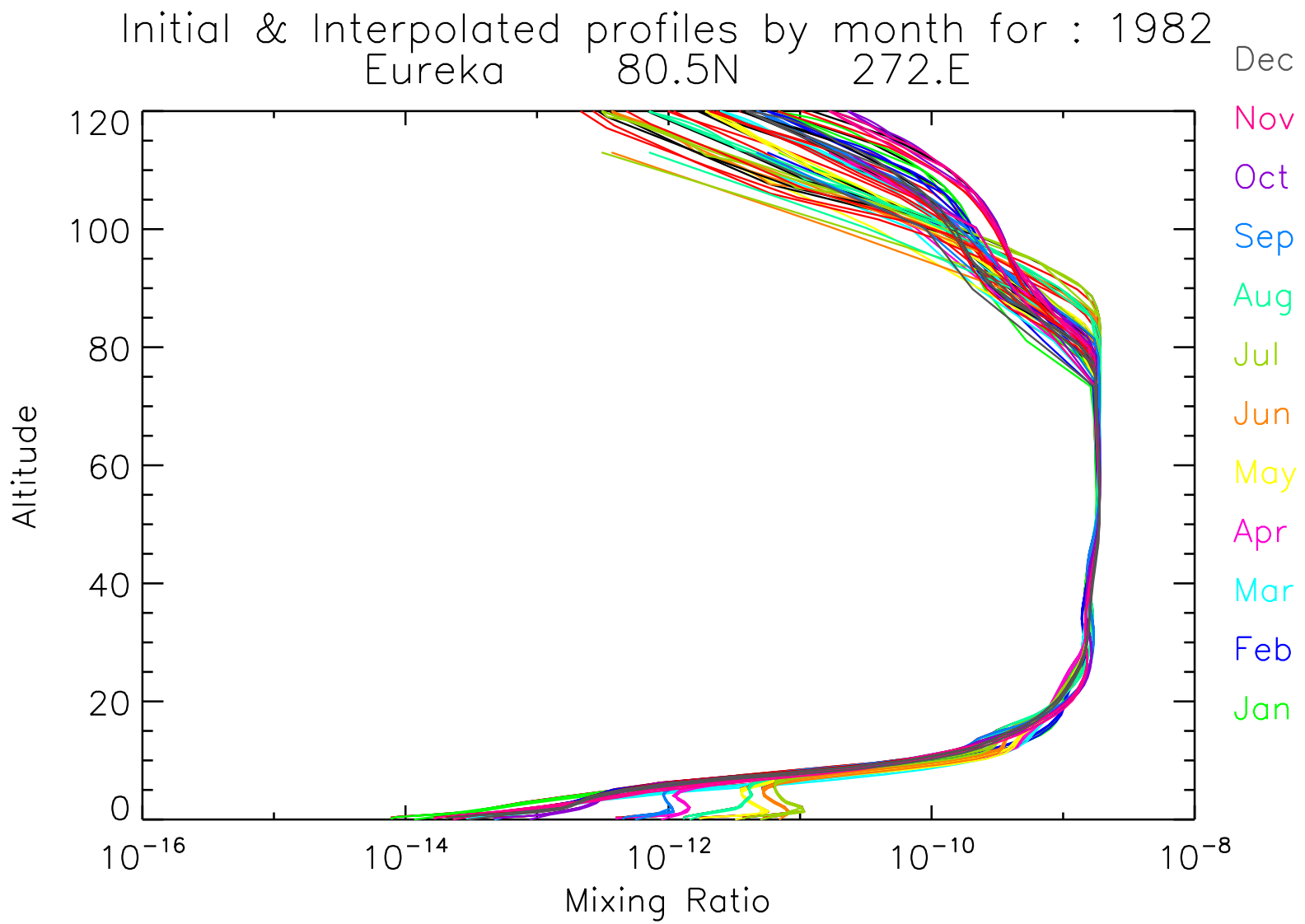
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Eureka 80.5N 272.E
Altitude
120
100
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20
0
10^{-16}
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10^{-8}
Mixing Ratio
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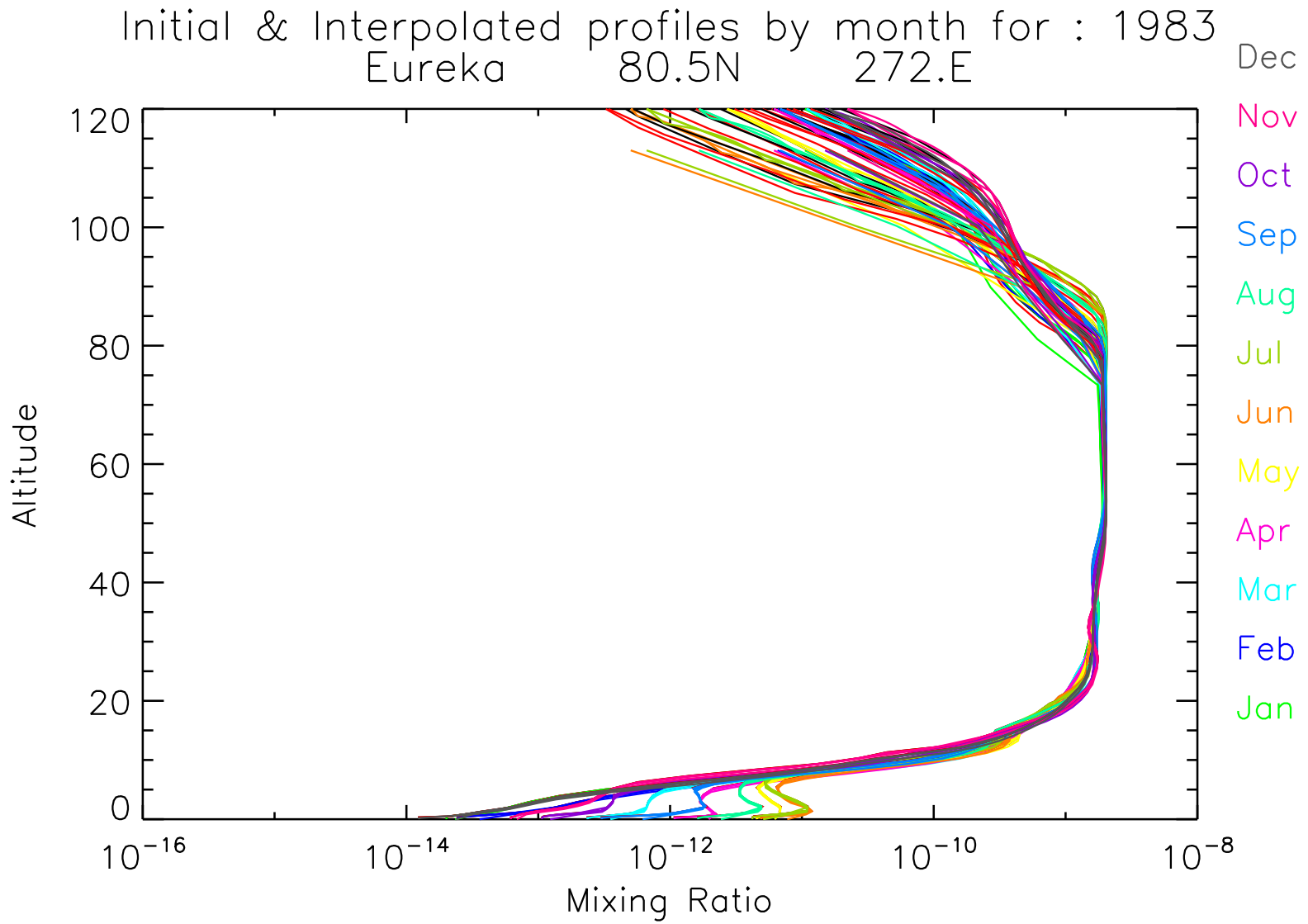
Initial & Interpolated profiles by month for : 1983
Eureka 80.5N 272.E
Altitude
120
100
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0
10^{-16}
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Mixing Ratio
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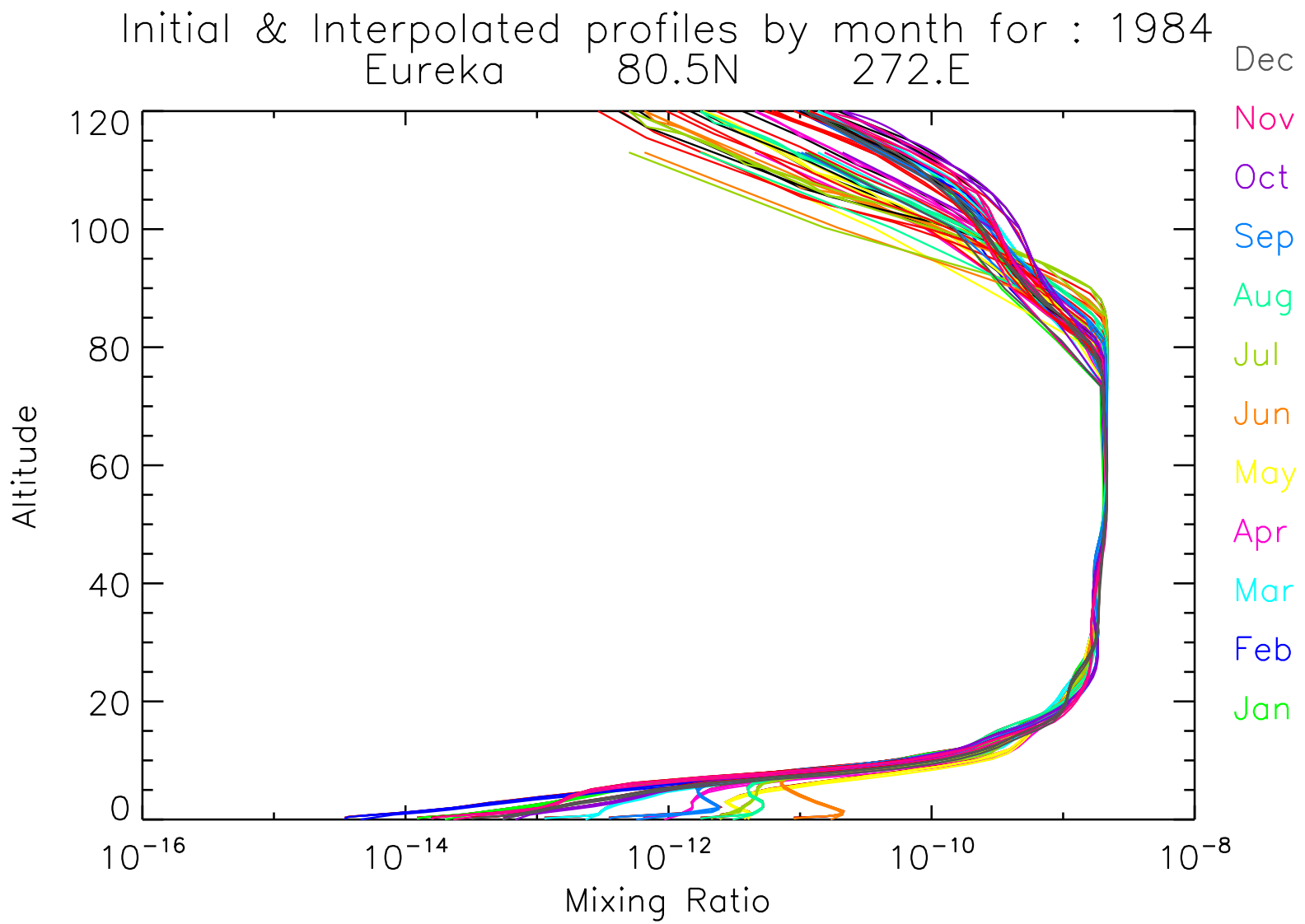
Initial & Interpolated profiles by month for : 1984
Eureka 80.5N 272.E
Altitude
120
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10^{-16}
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Mixing Ratio
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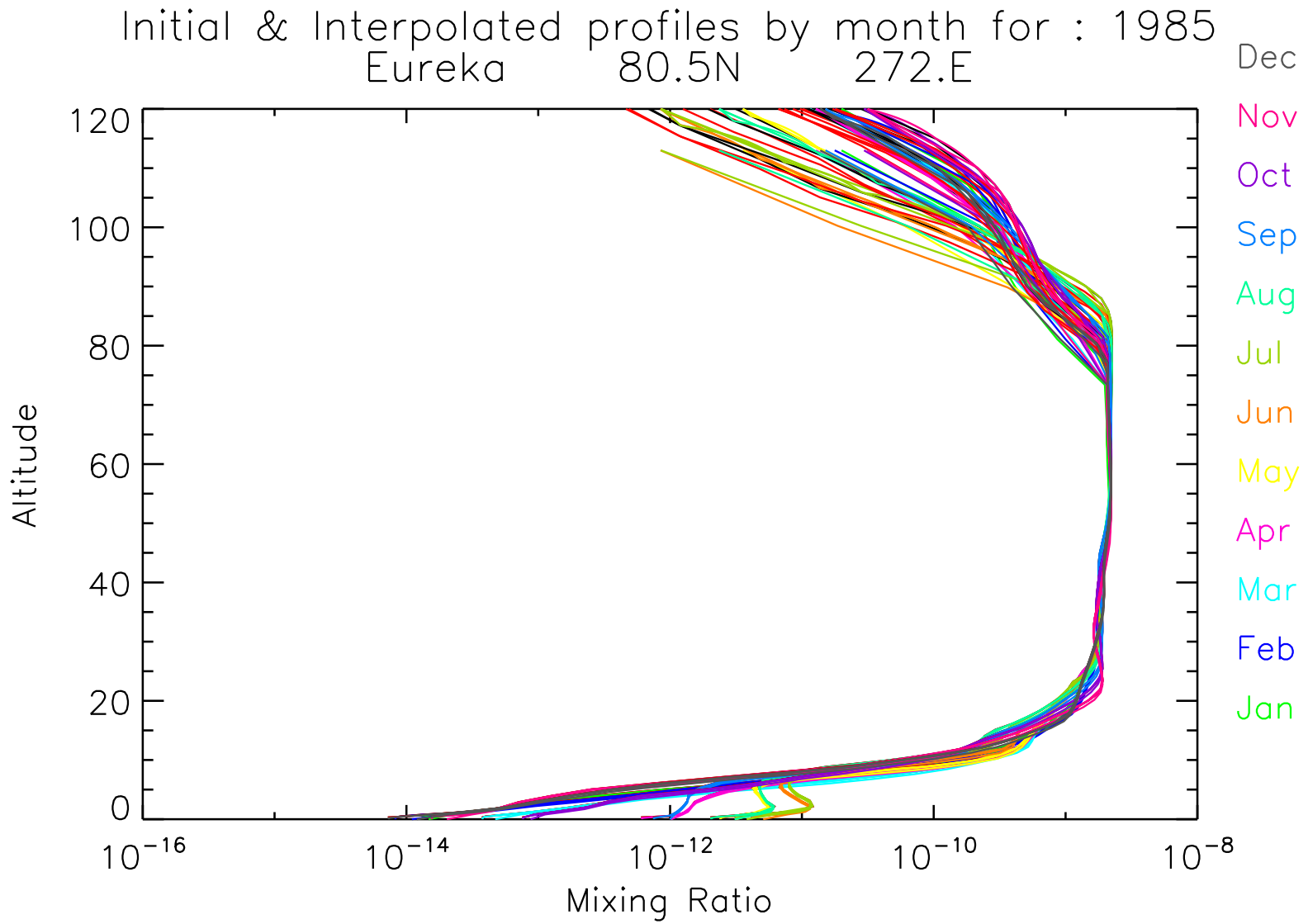
Initial & Interpolated profiles by month for : 1985
Eureka 80.5N 272.E
Dec
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Altitude
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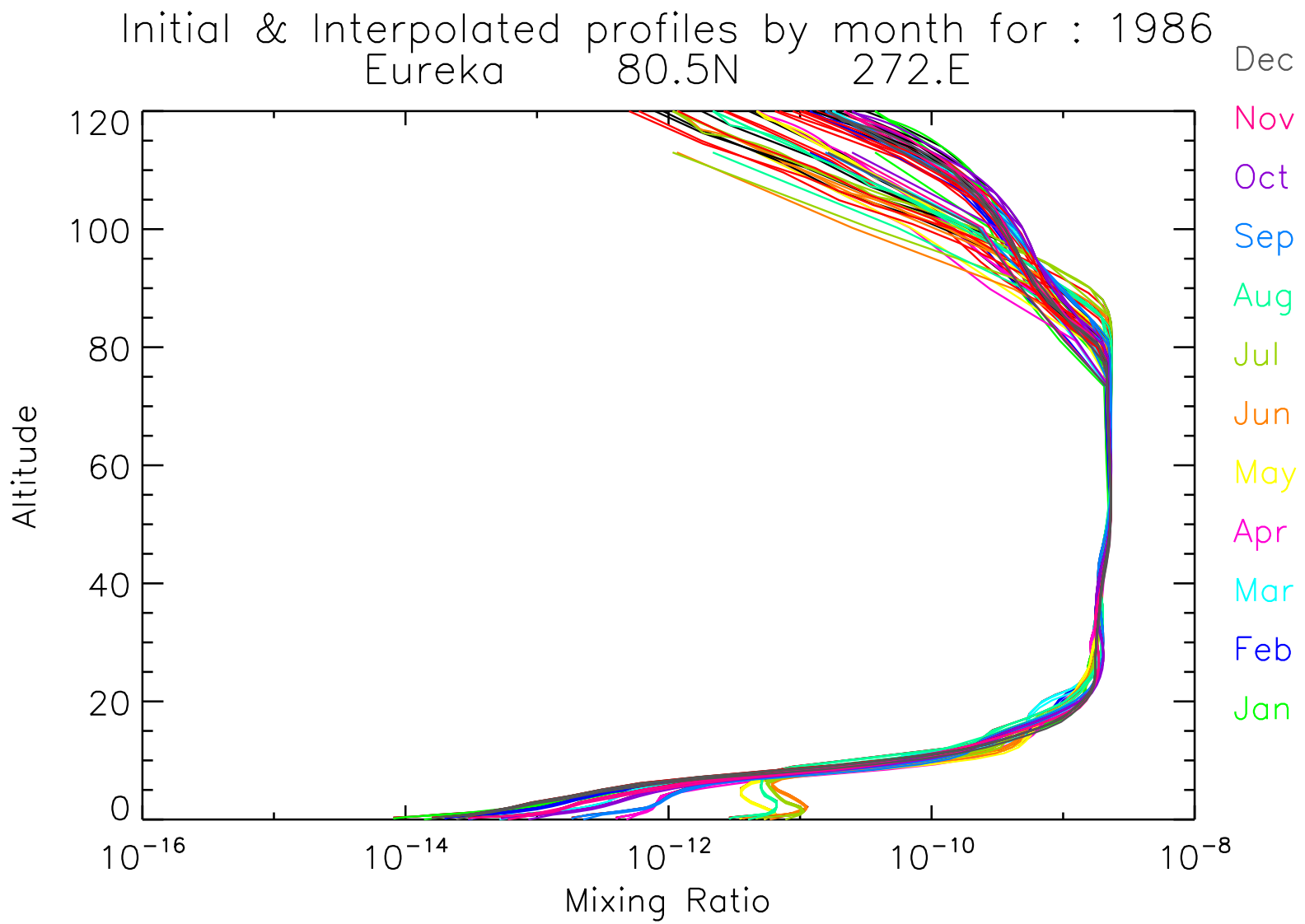
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Eureka 80.5N 272.E
Dec
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10^{-12}
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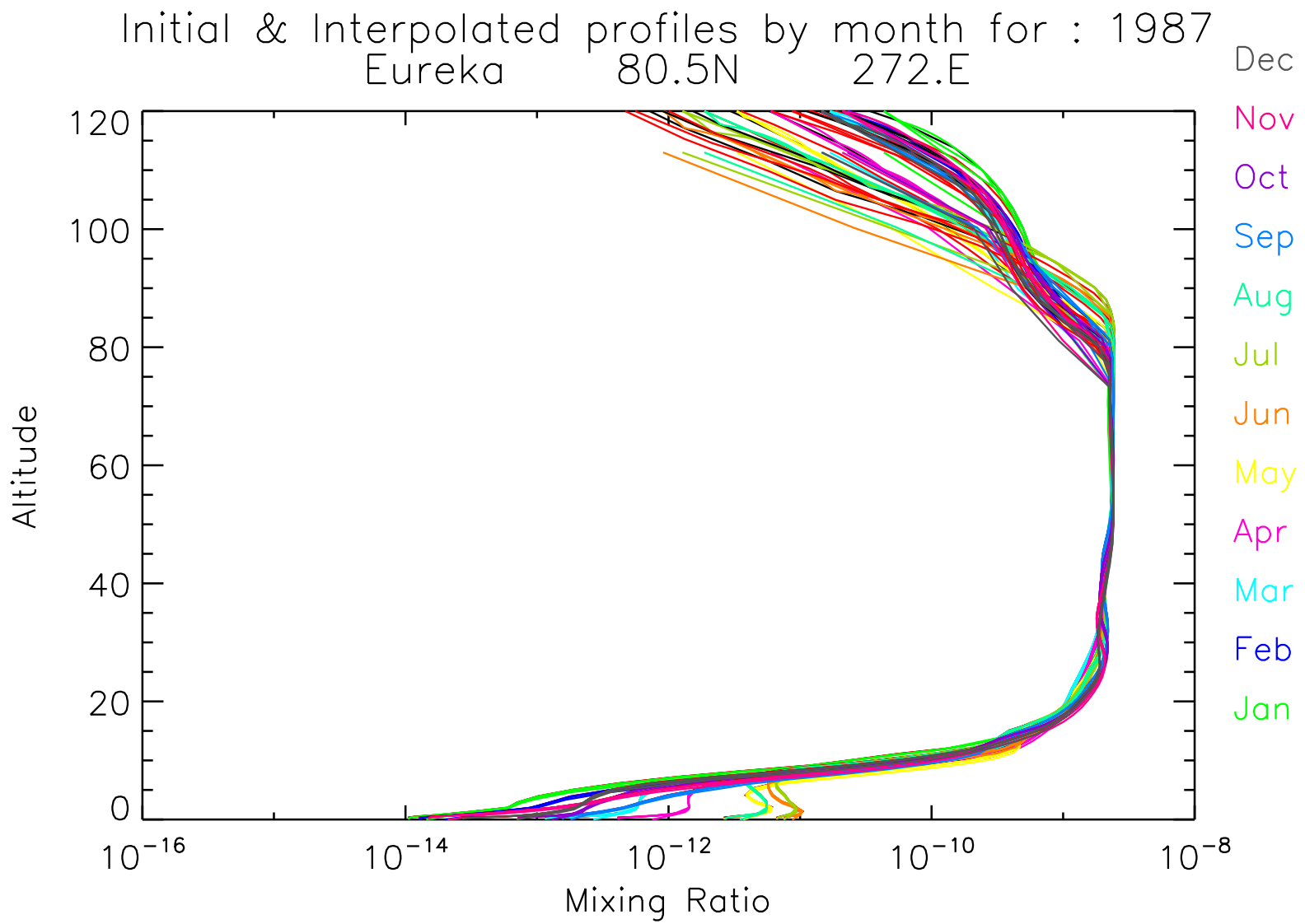
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Eureka 80.5N 272.E
Dec
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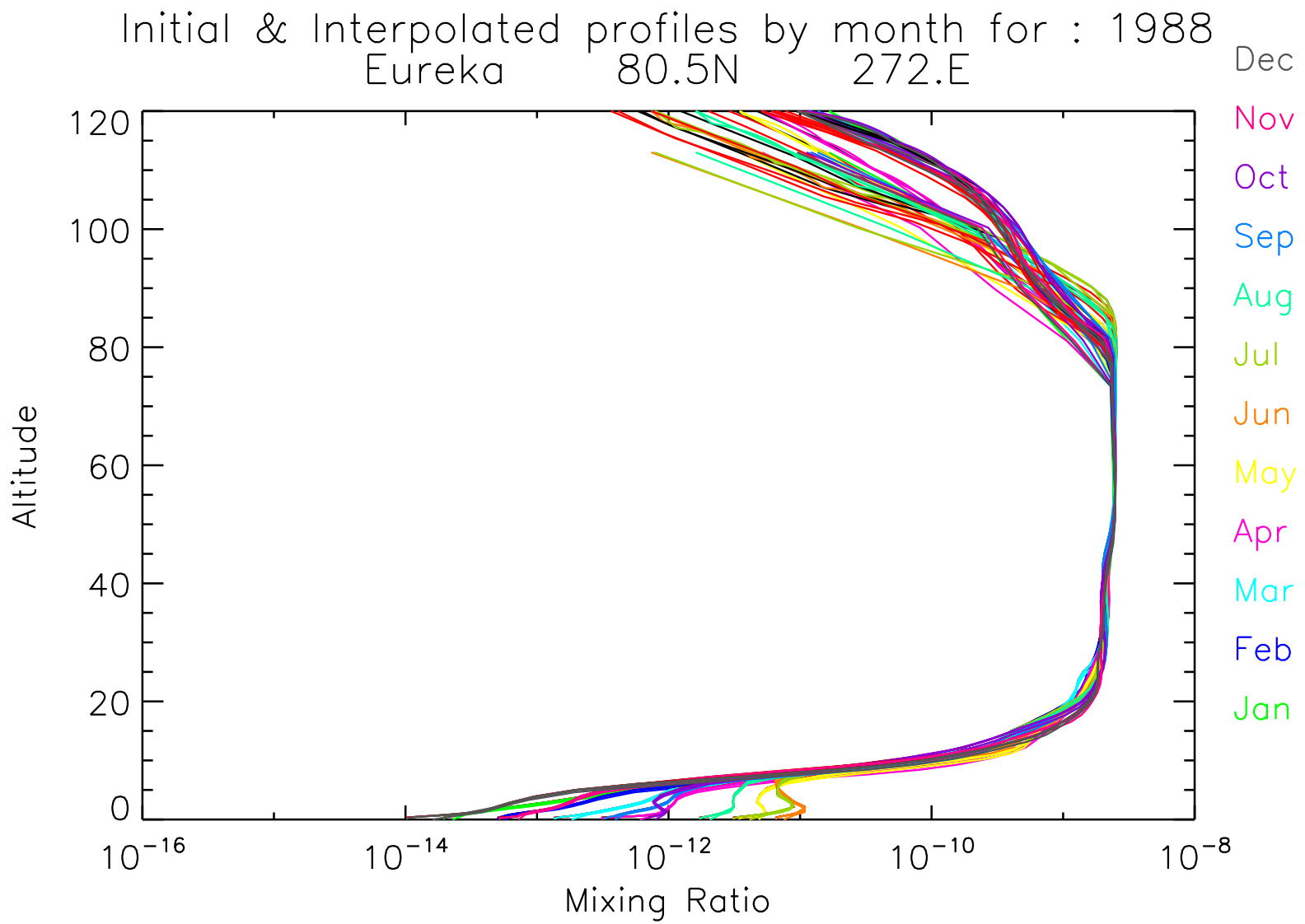
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Eureka 80.5N 272.E
Dec
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Altitude
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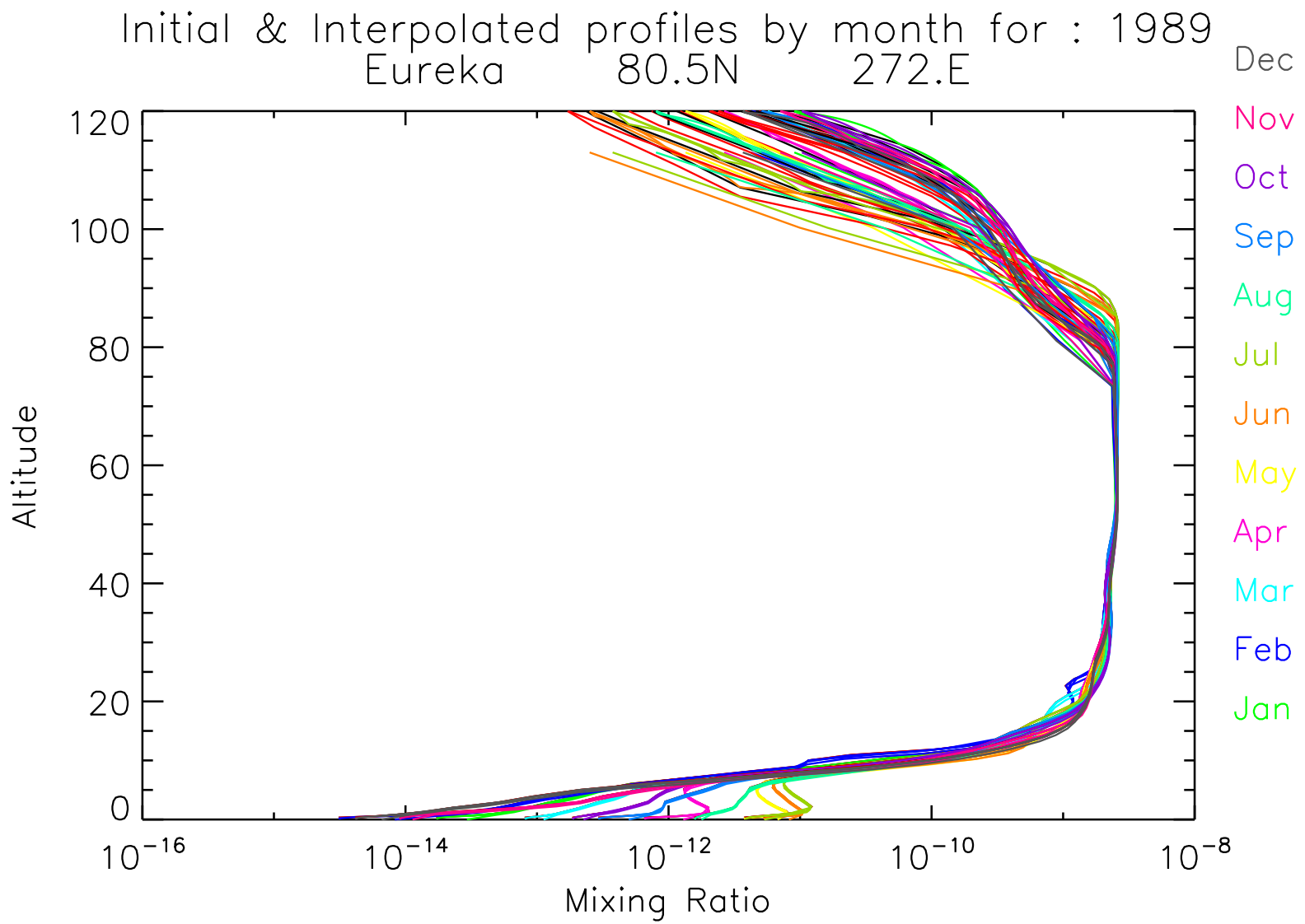
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Eureka 80.5N 272.E
Altitude
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Mixing Ratio
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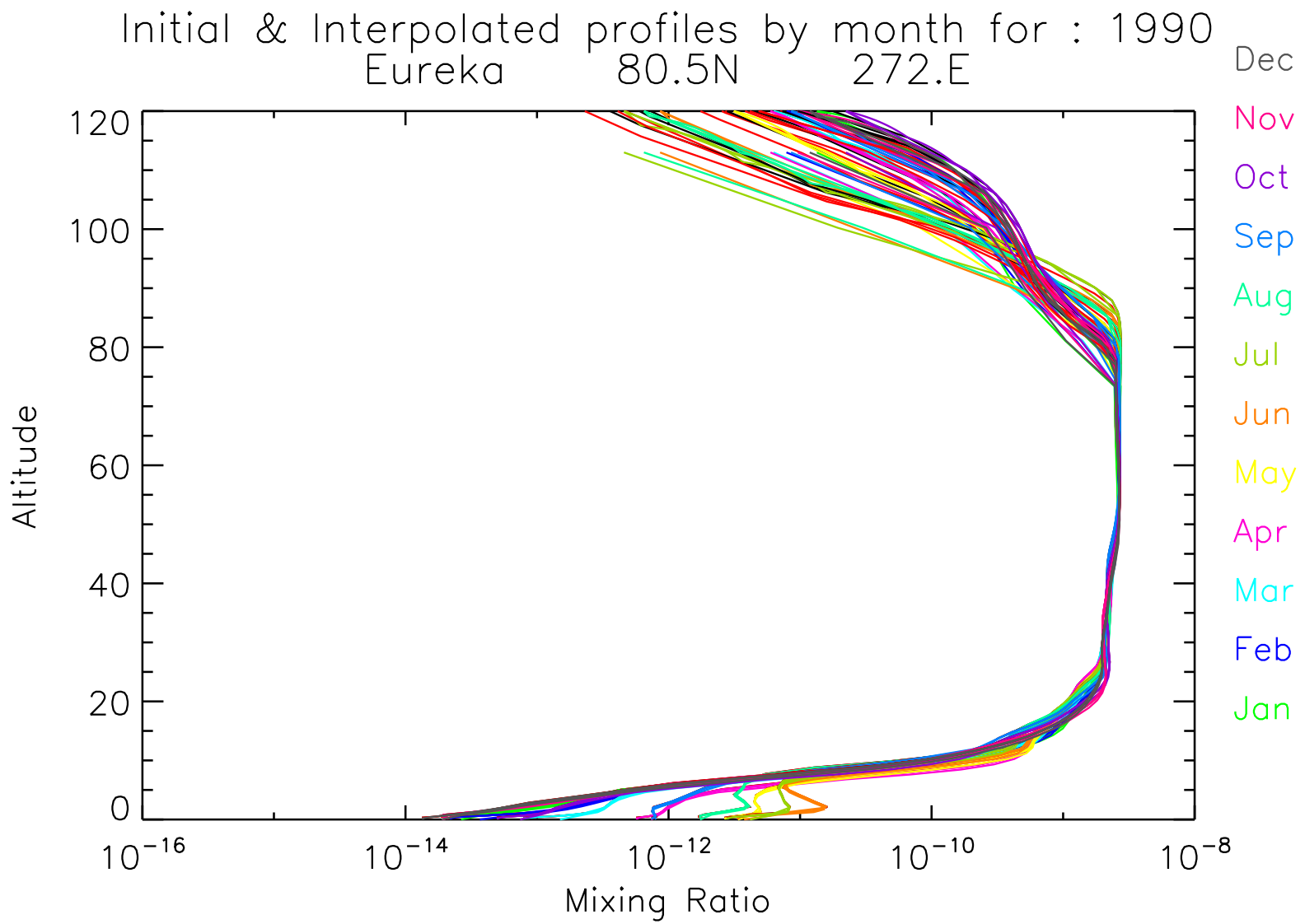
Initial & Interpolated profiles by month for : 1990
Eureka 80.5N 272.E
Altitude
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Mixing Ratio
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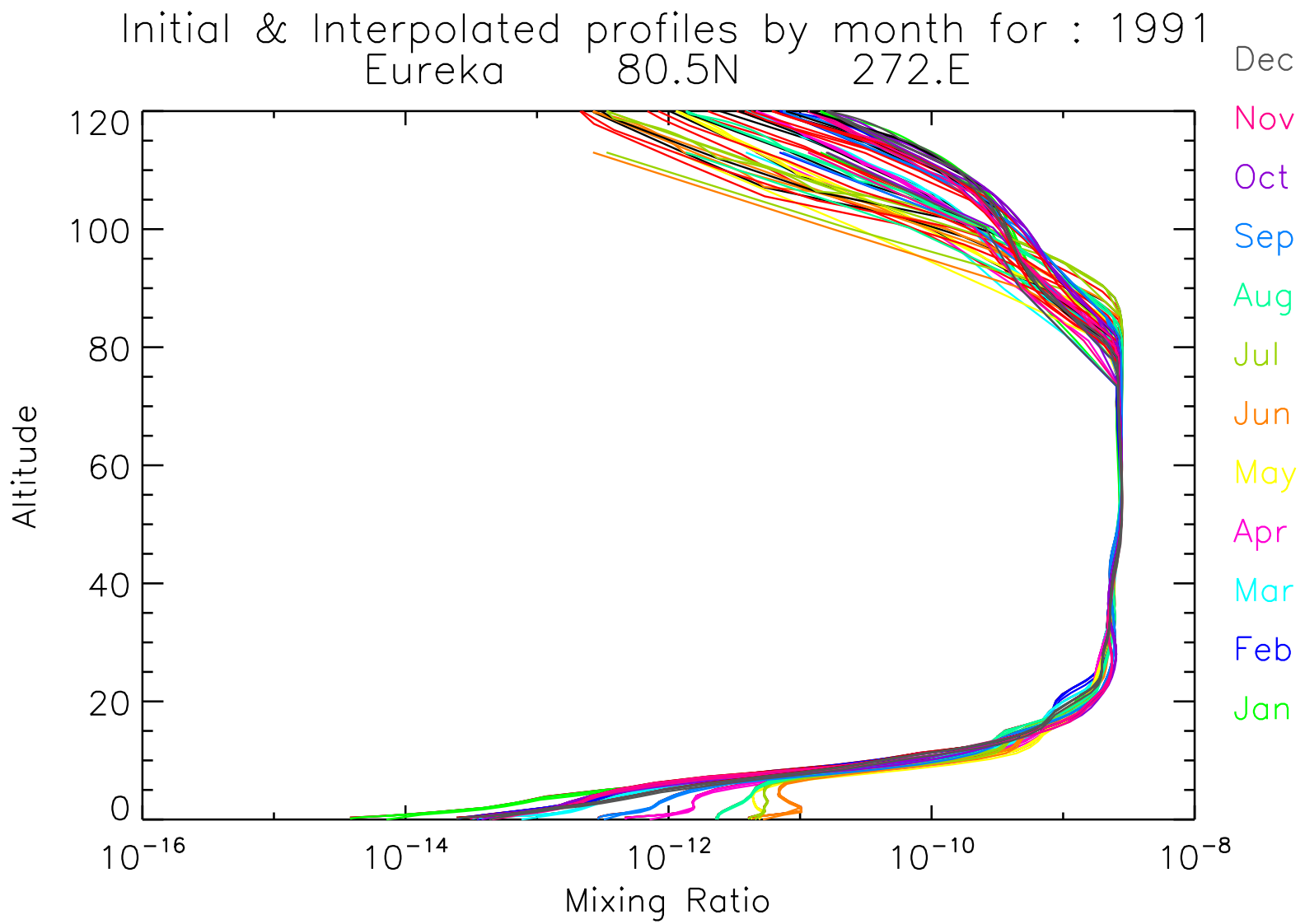
Initial & Interpolated profiles by month for : 1991
Eureka 80.5N 272.E
Altitude
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Mixing Ratio
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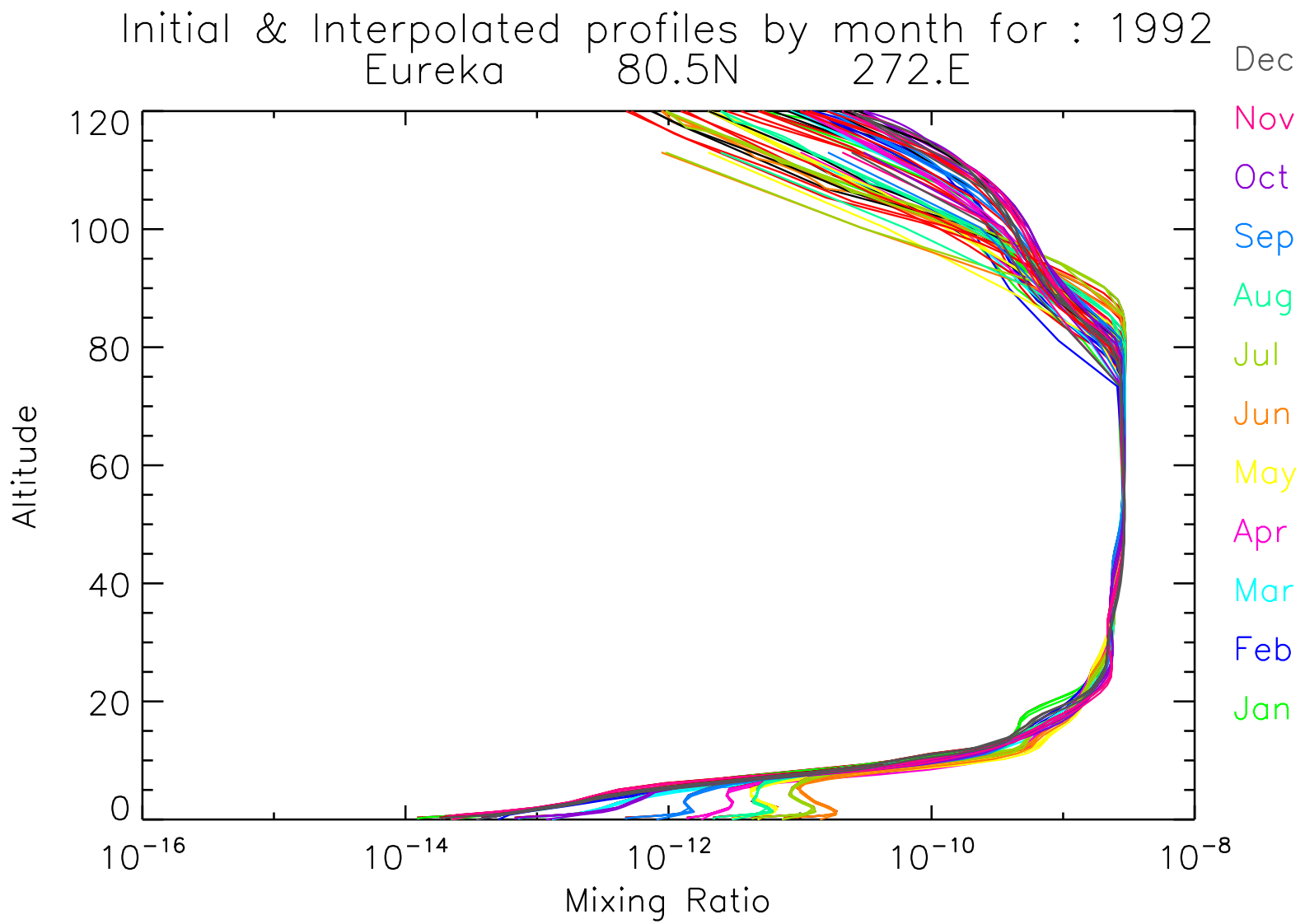
Initial & Interpolated profiles by month for : 1992
Eureka 80.5N 272.E
Dec
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Altitude
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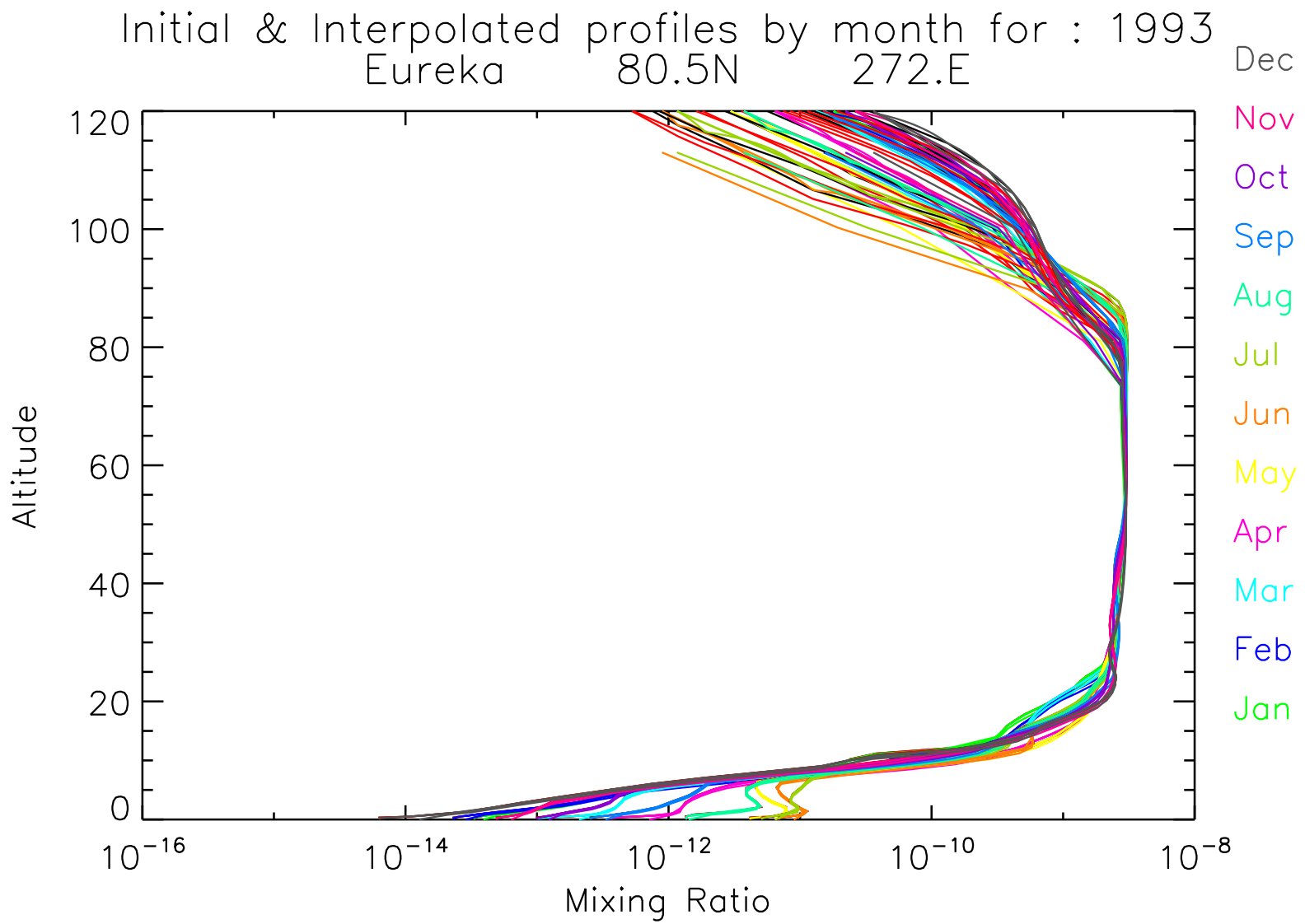
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Eureka 80.5N 272.E
Altitude
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Mixing Ratio
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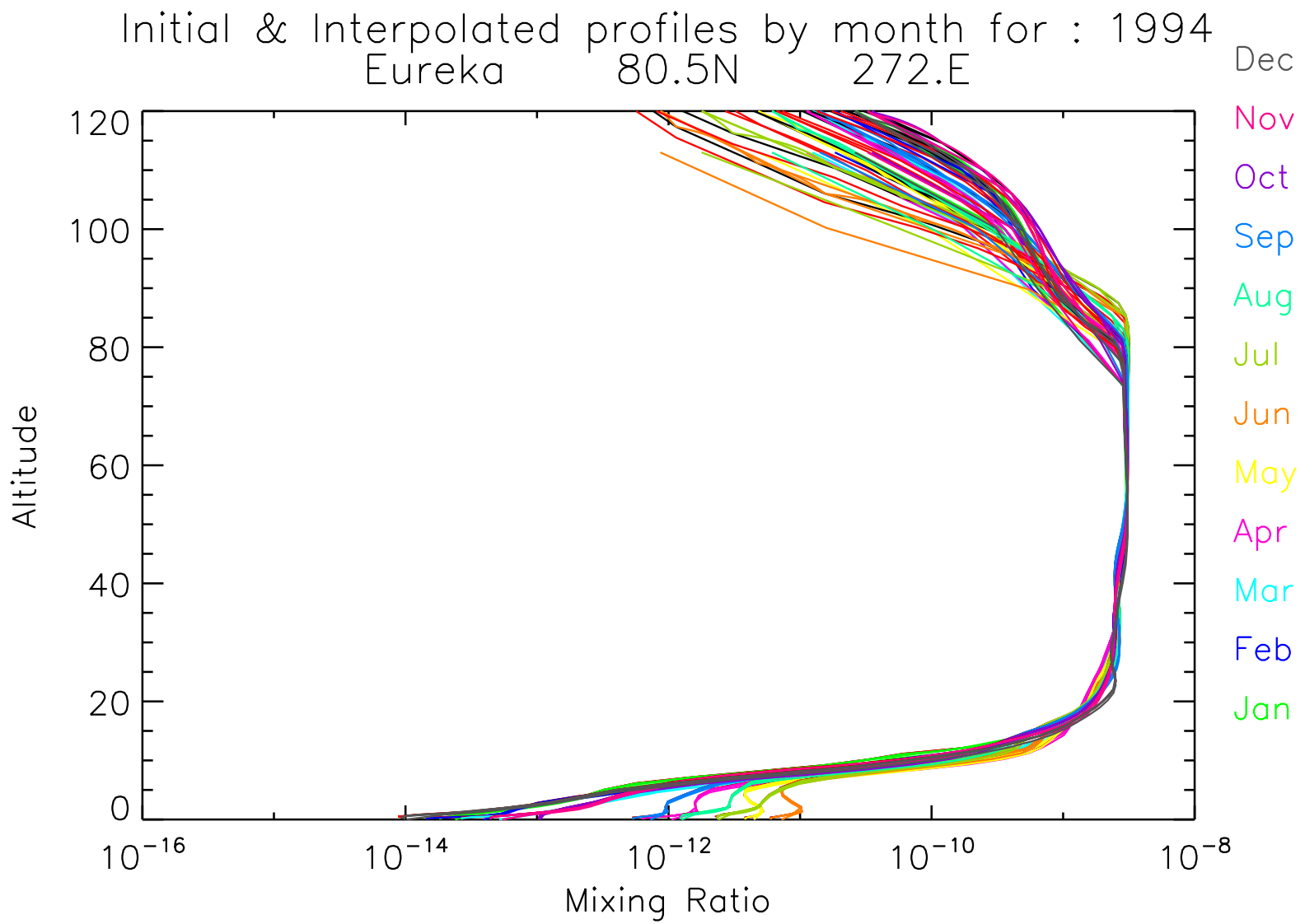
Initial & Interpolated profiles by month for : 1994
Eureka 80.5N 272.E
Dec
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Altitude
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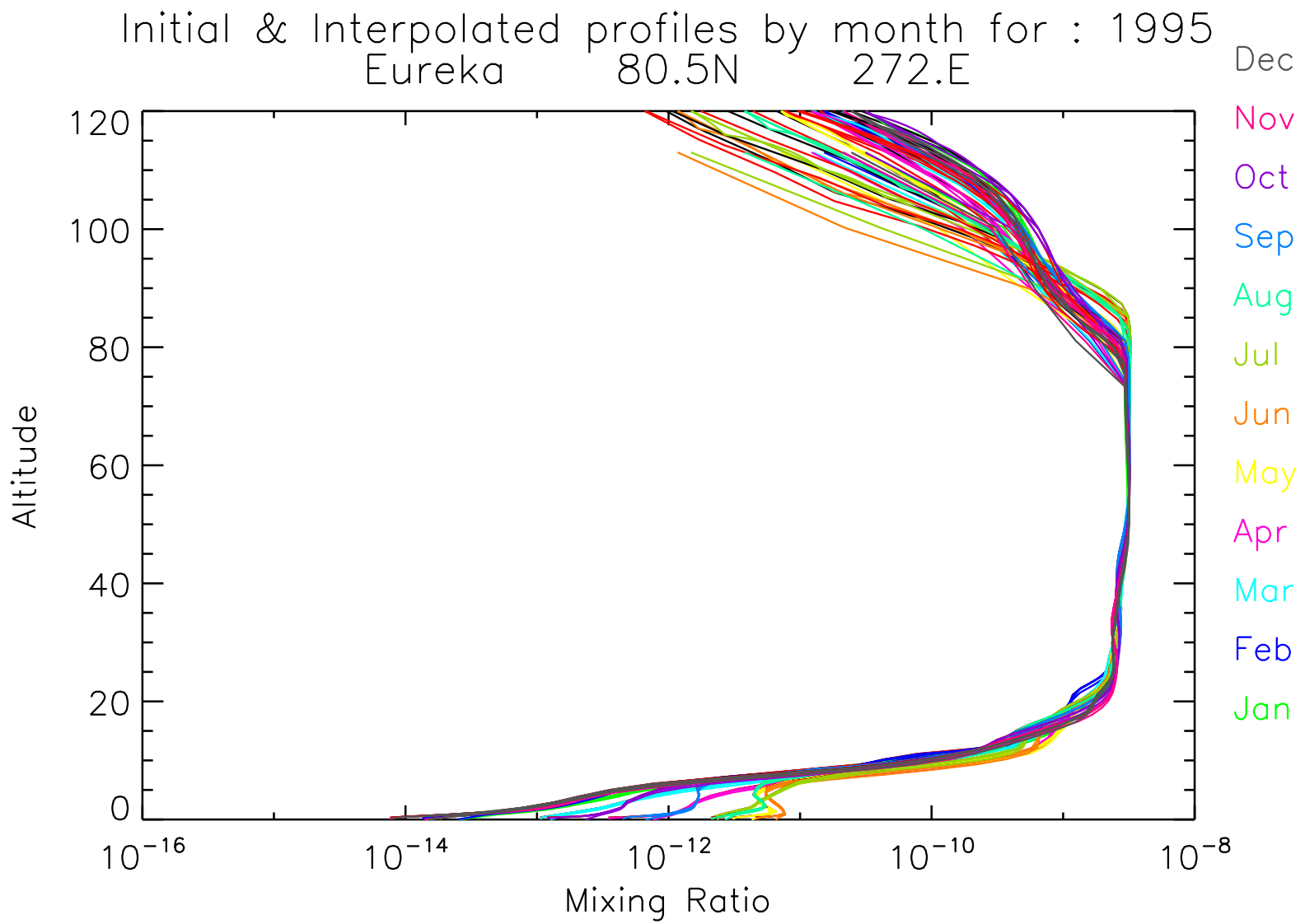
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Eureka 80.5N 272.E
Dec
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Altitude
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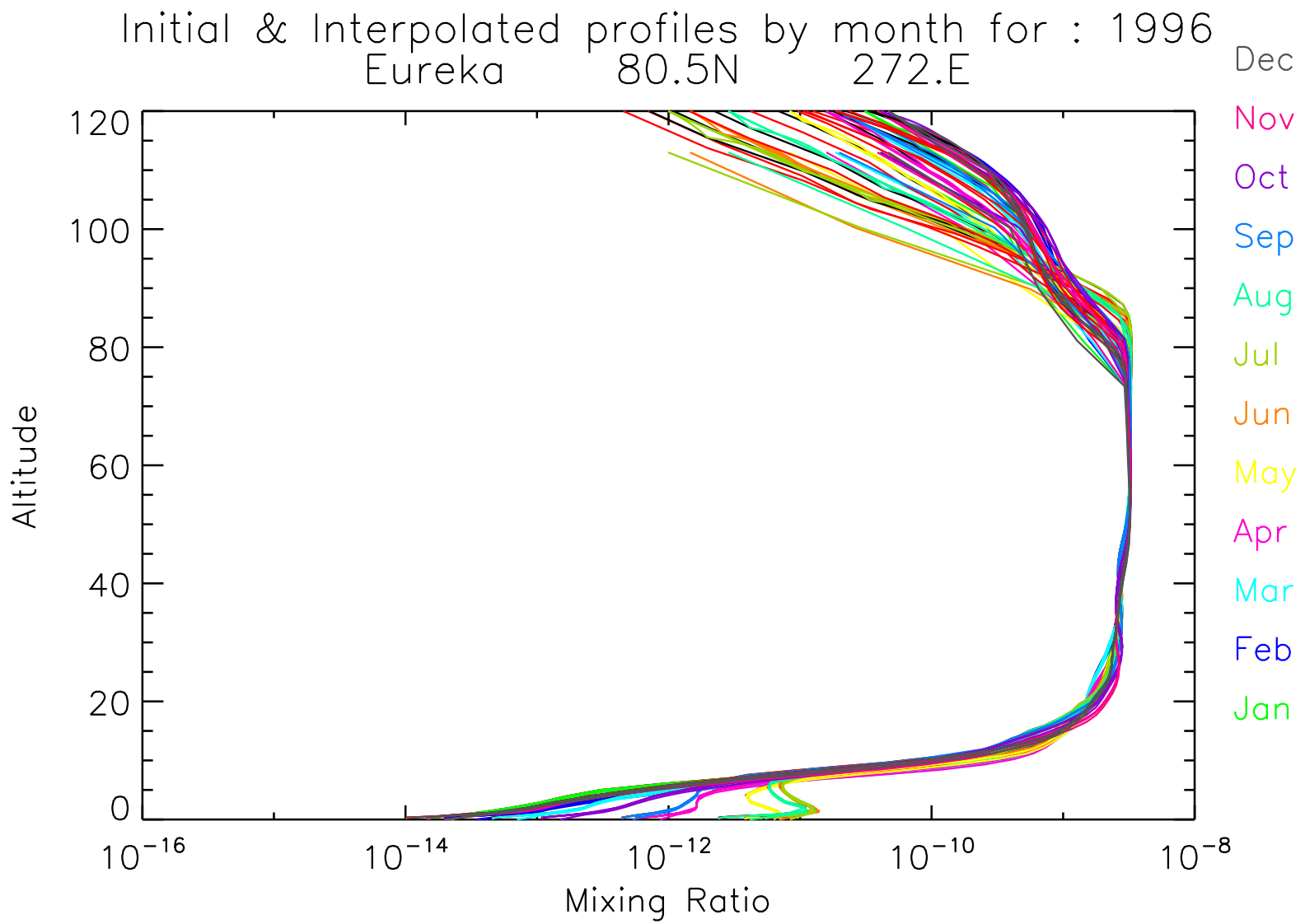
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Eureka 80.5N 272.E
Dec
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Altitude
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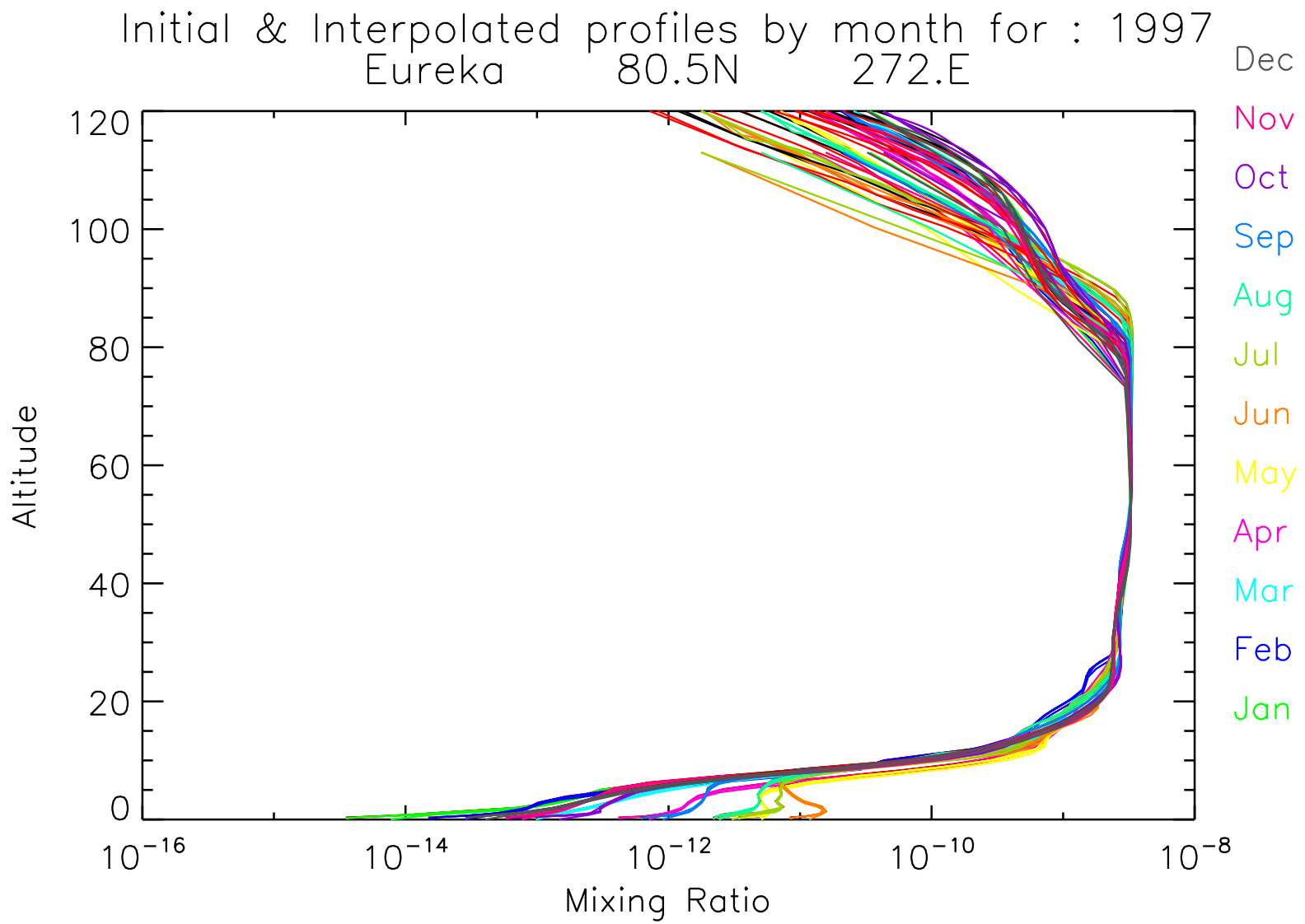
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Eureka 80.5N 272.E
Dec
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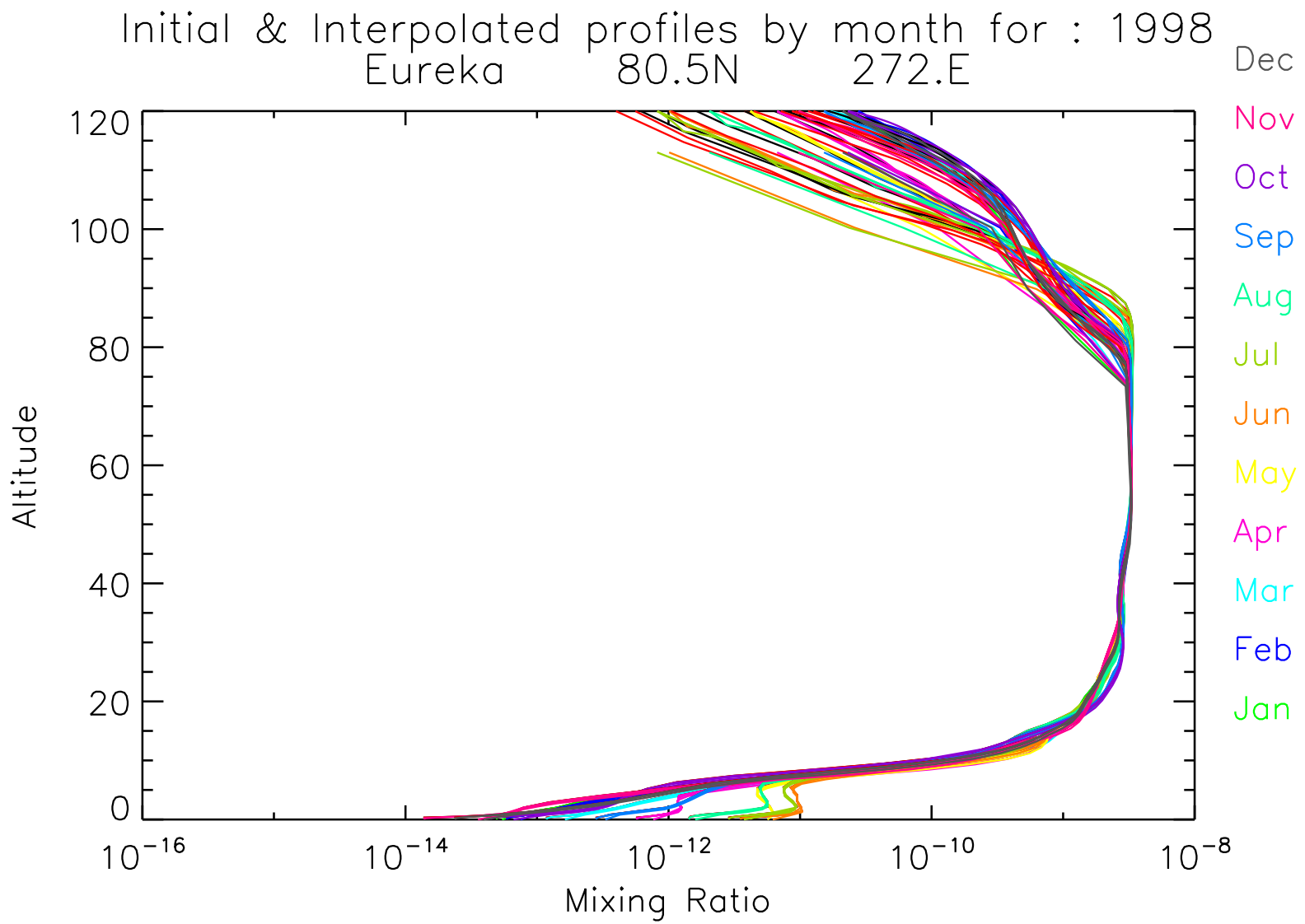
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Eureka 80.5N 272.E
Altitude
120
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10^{-16}
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Mixing Ratio
Dec
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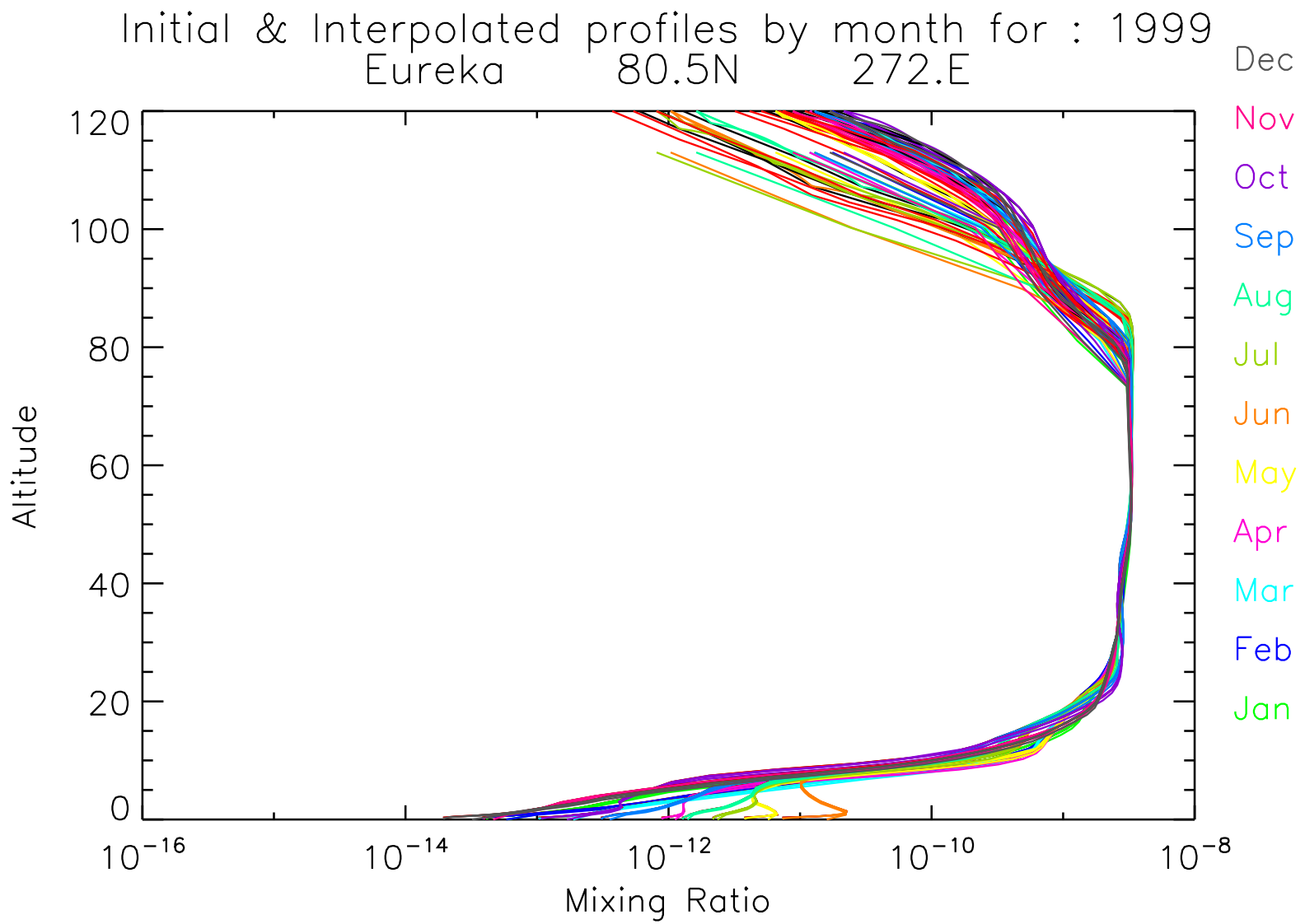
Initial & Interpolated profiles by month for : 1999
Eureka 80.5N 272.E
Altitude
120
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10^{-16}
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Mixing Ratio
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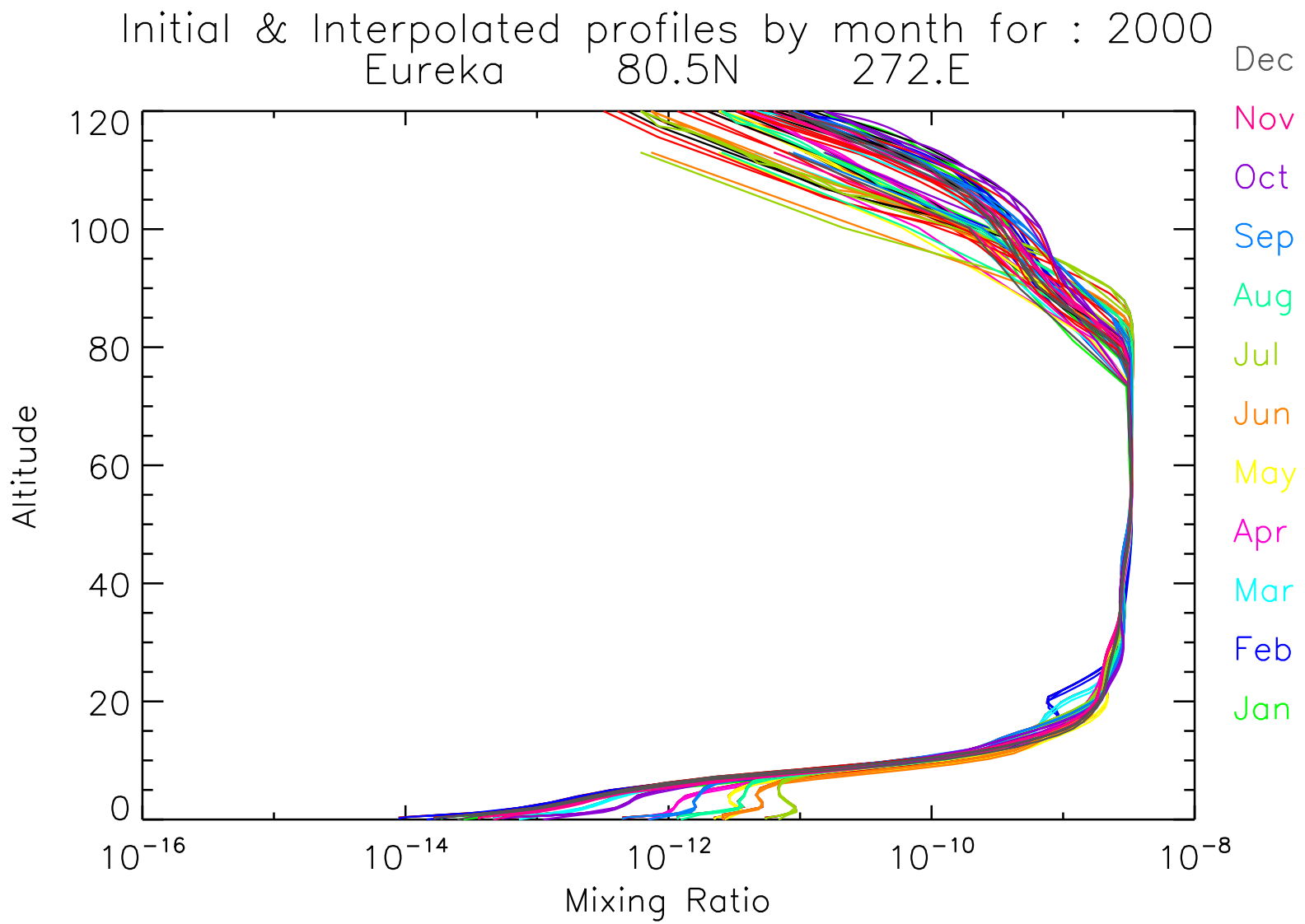
Initial & Interpolated profiles by month for : 2000
Eureka 80.5N 272.E
Dec
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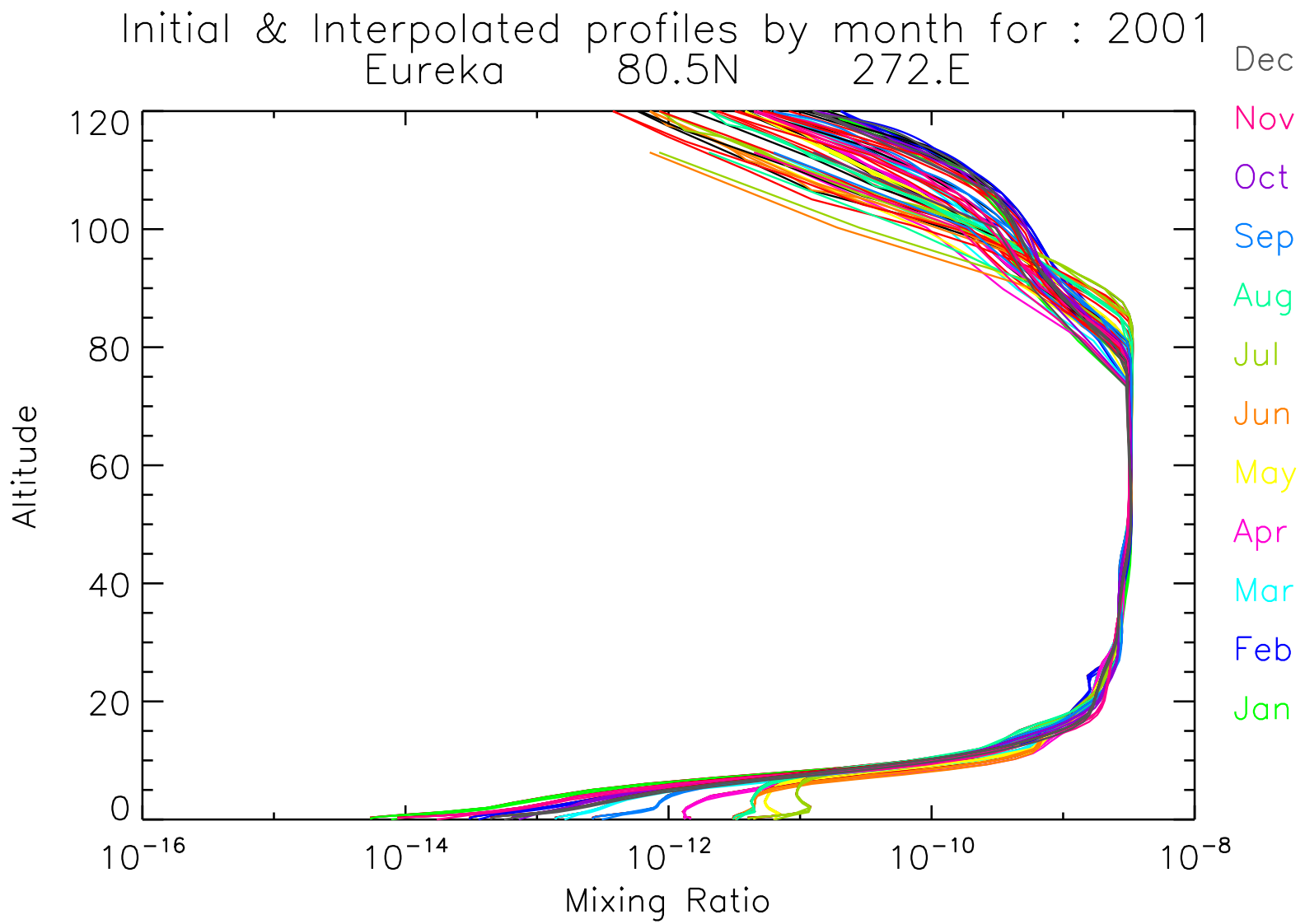
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Eureka 80.5N 272.E
Dec
Nov
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Altitude
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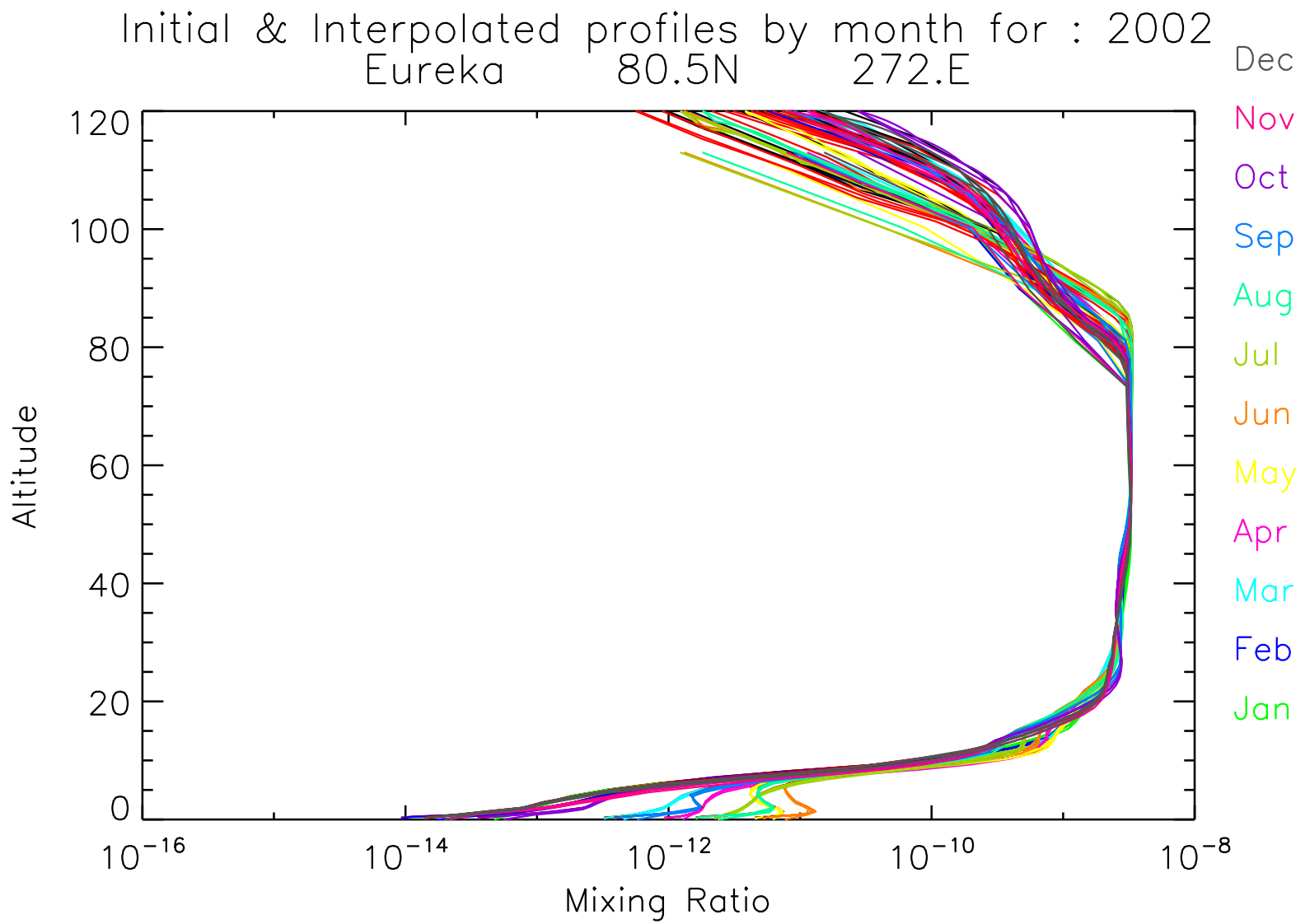
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Eureka 80.5N 272.E
Dec
Nov
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Jan
120
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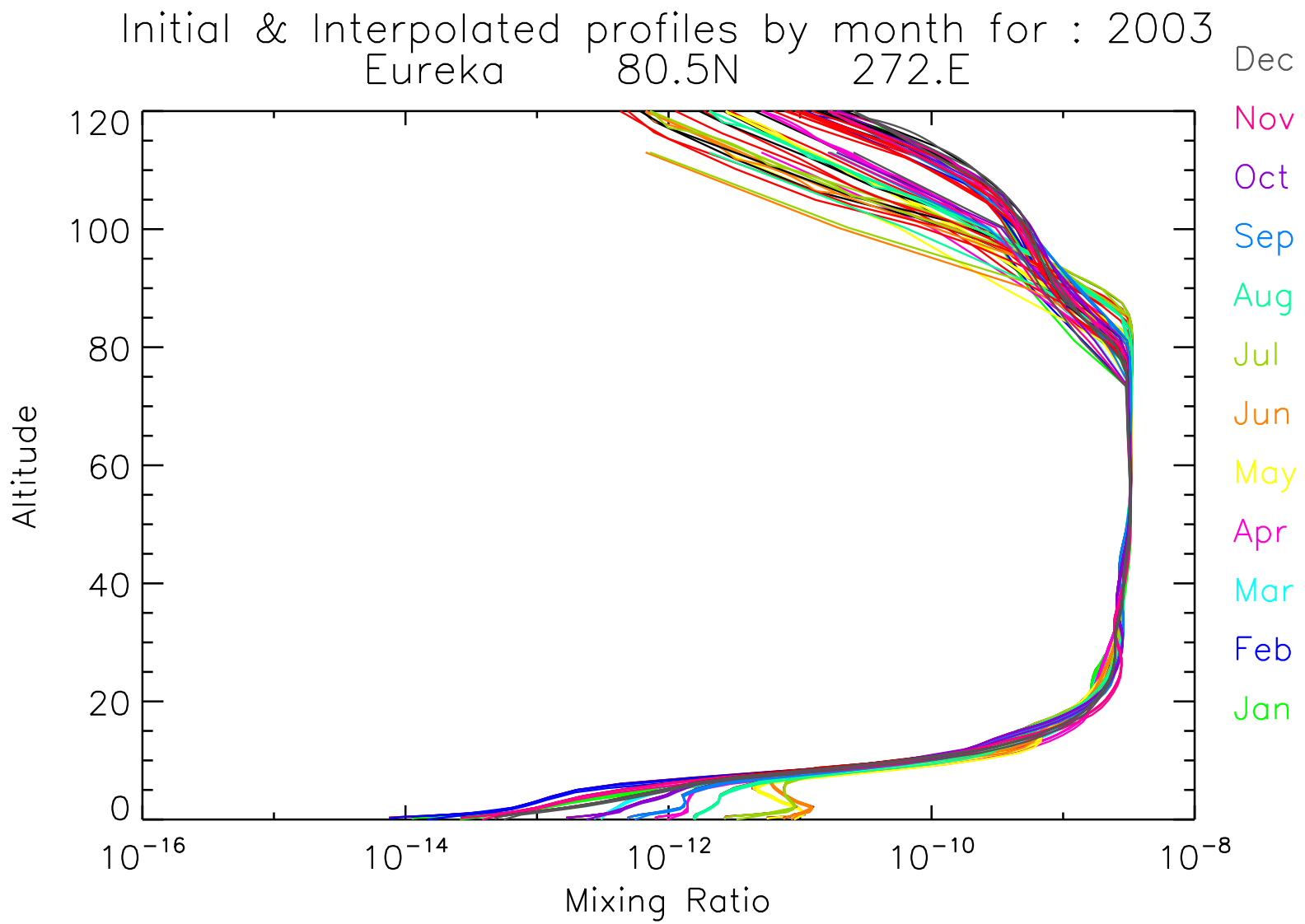
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Eureka 80.5N 272.E
Dec
Nov
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Jan
120
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Altitude
10^{-16}
10^{-14}
10^{-12}
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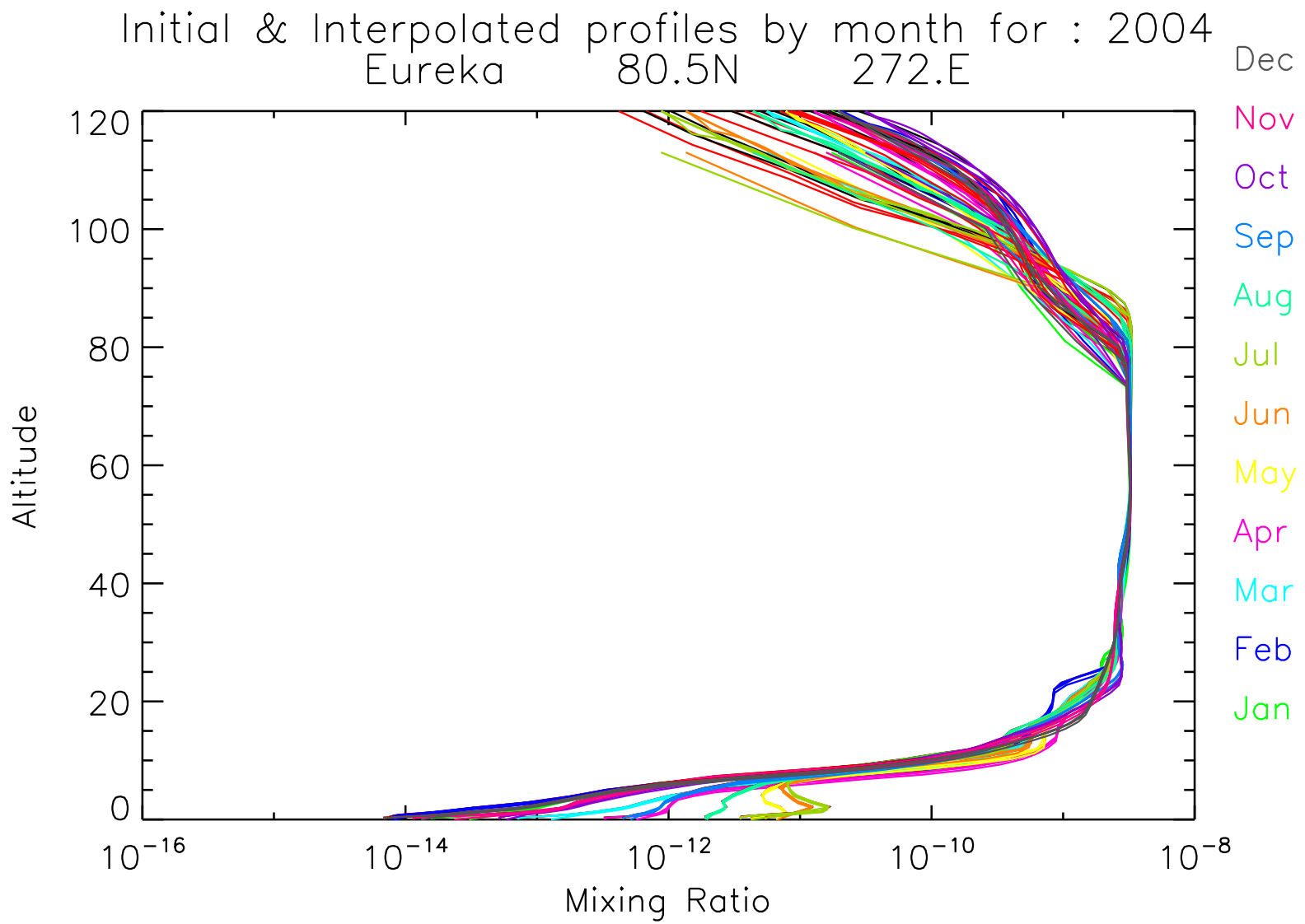
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Eureka 80.5N 272.E
Dec
Nov
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Jan
Altitude
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10^{-16}
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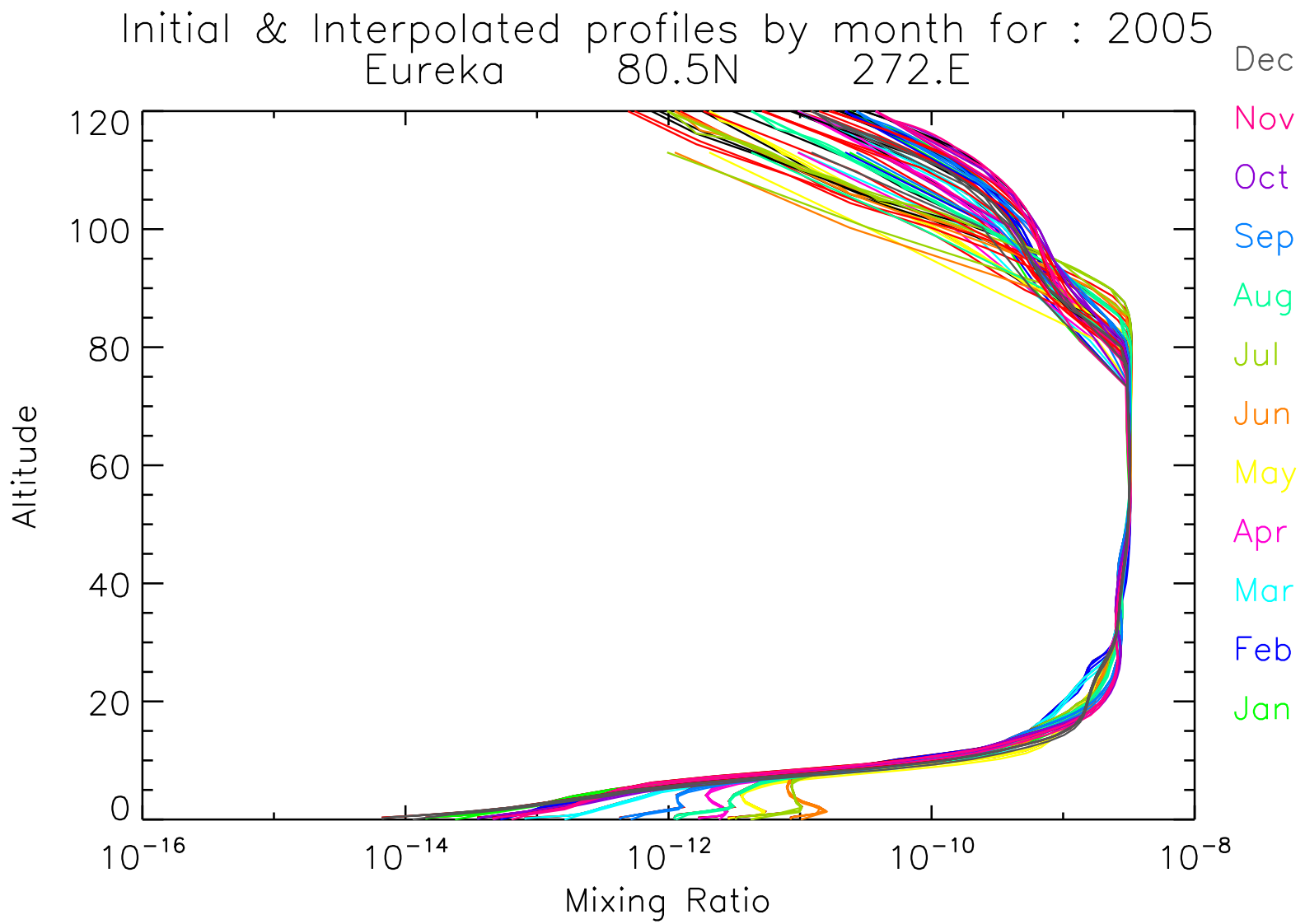
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Eureka 80.5N 272.E
Altitude
120
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10^{-16}
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10^{-8}
Mixing Ratio
Dec
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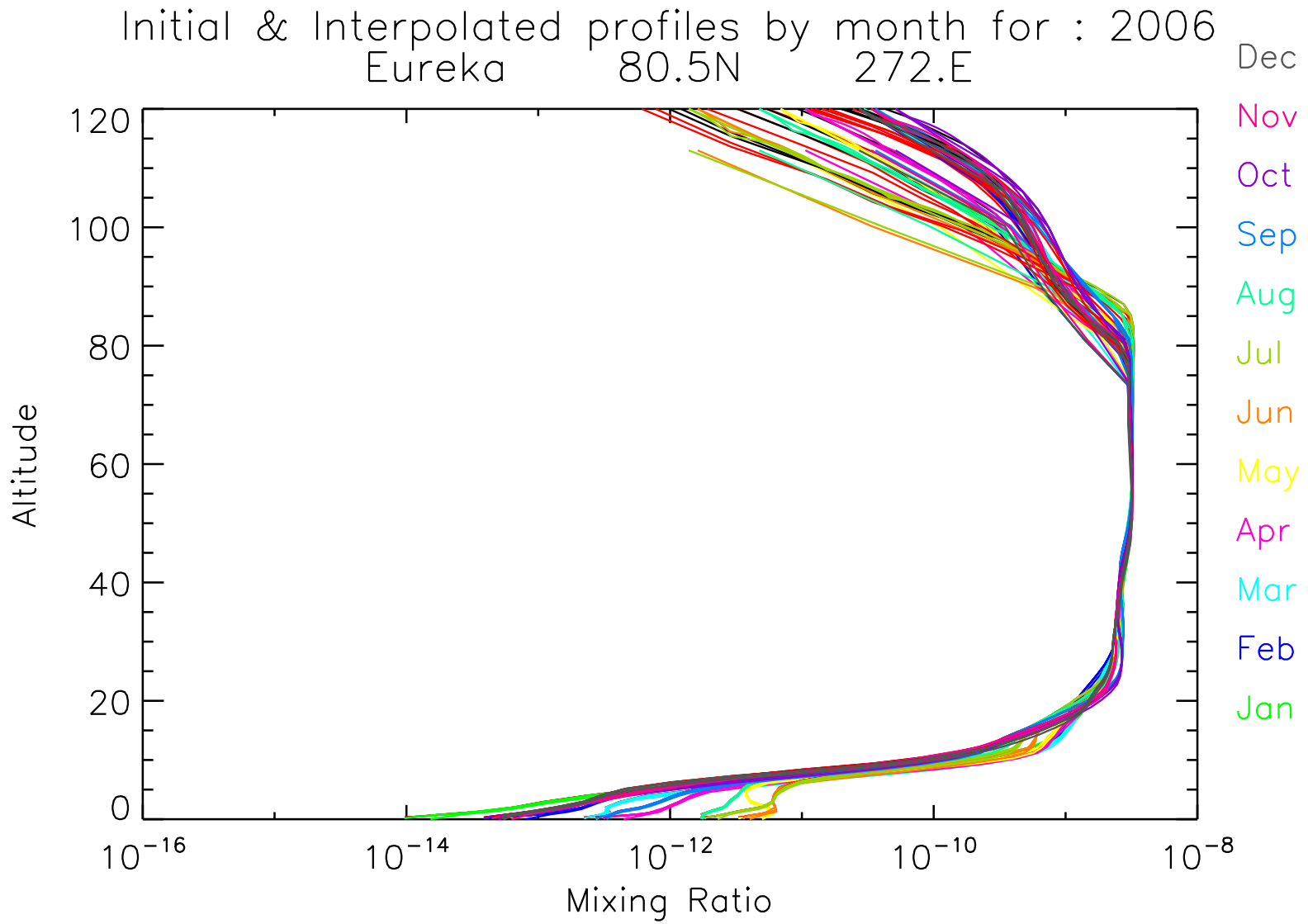
Initial & Interpolated profiles by month for : 2006
Eureka 80.5N 272.E
Altitude
120
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10^{-16}
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Mixing Ratio
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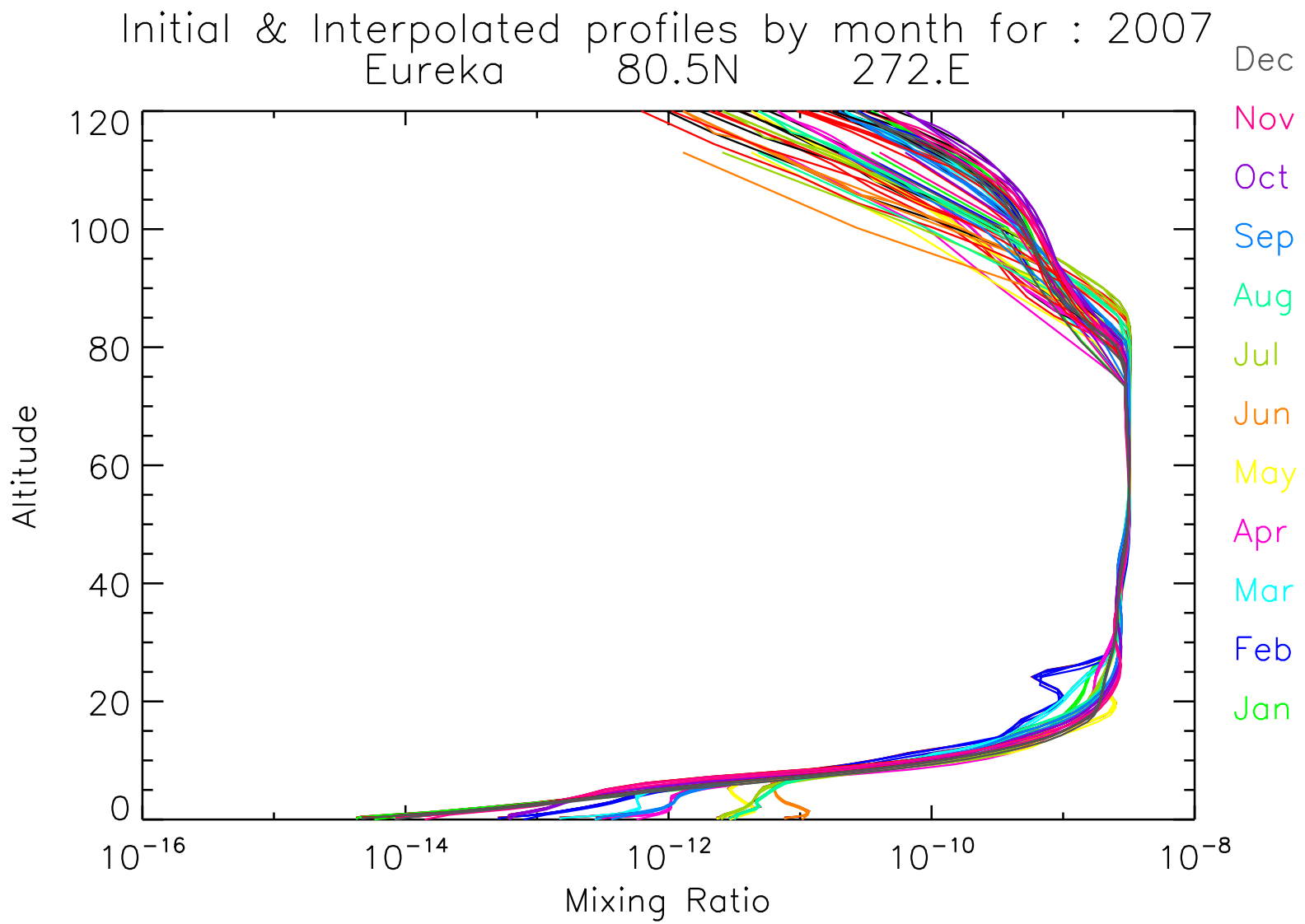
Initial & Interpolated profiles by month for : 2007
Eureka 80.5N 272.E
Dec
Nov
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120
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Altitude
10^{-16}
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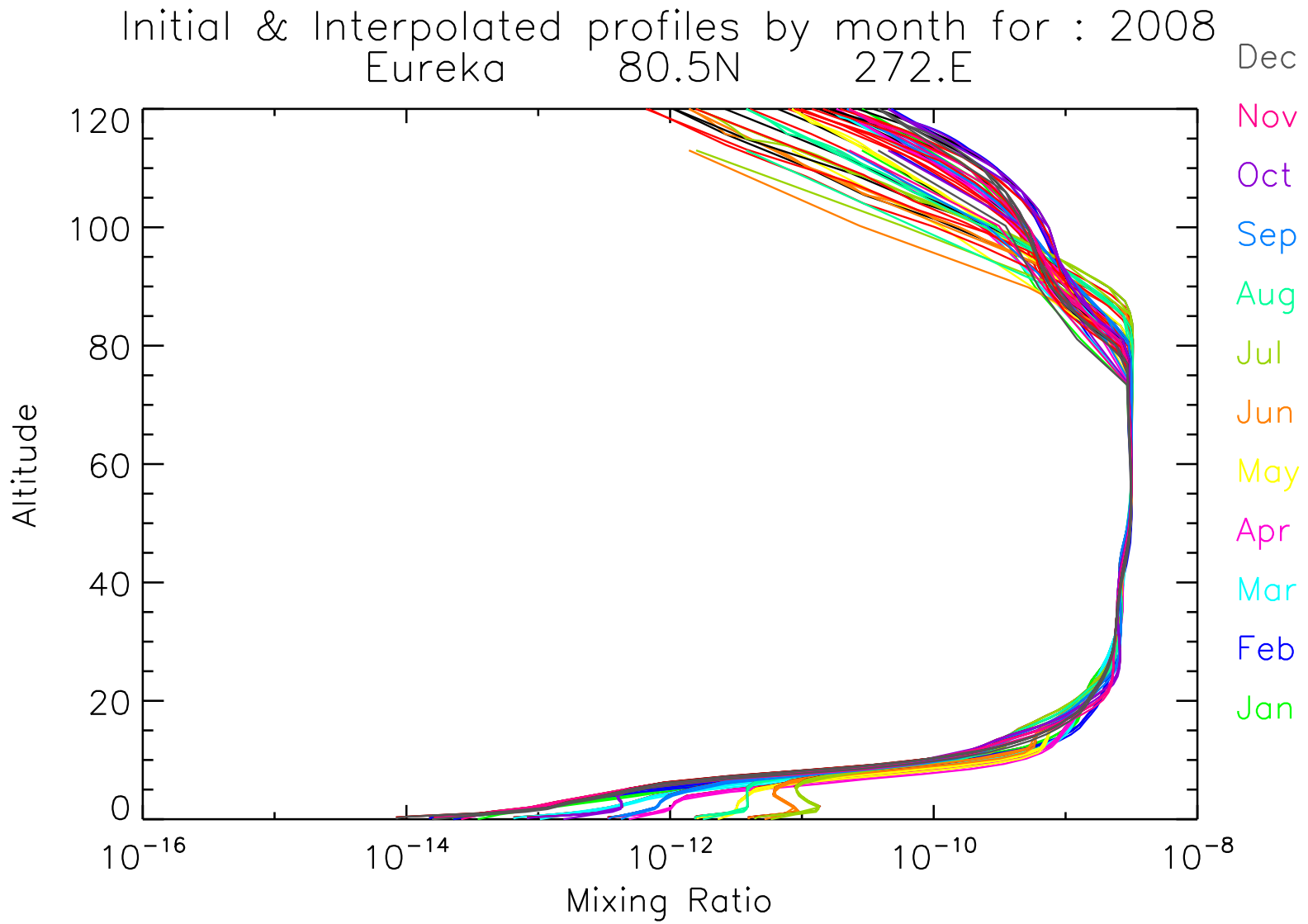
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Eureka 80.5N 272.E
Dec
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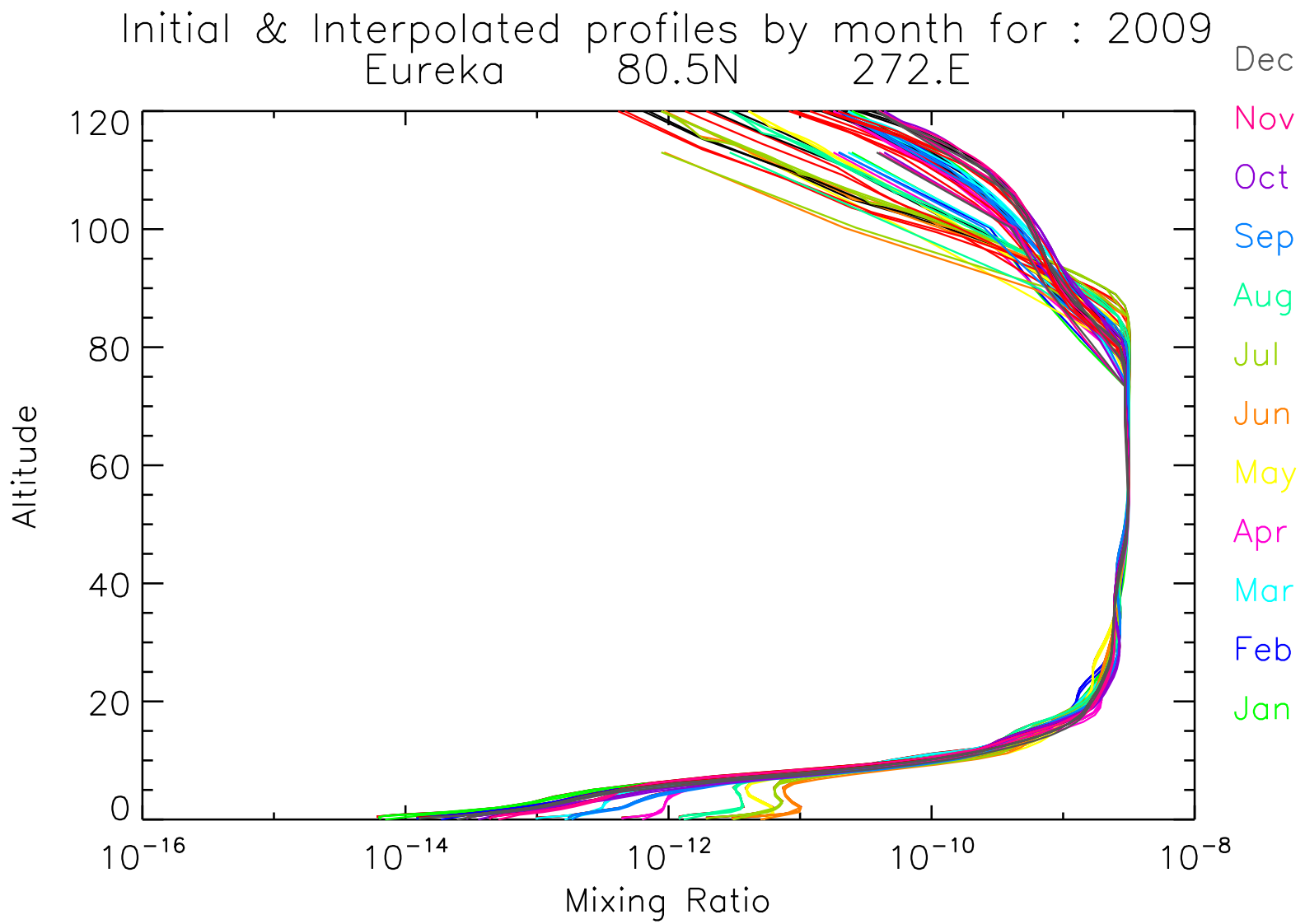
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Eureka 80.5N 272.E
Dec
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Altitude
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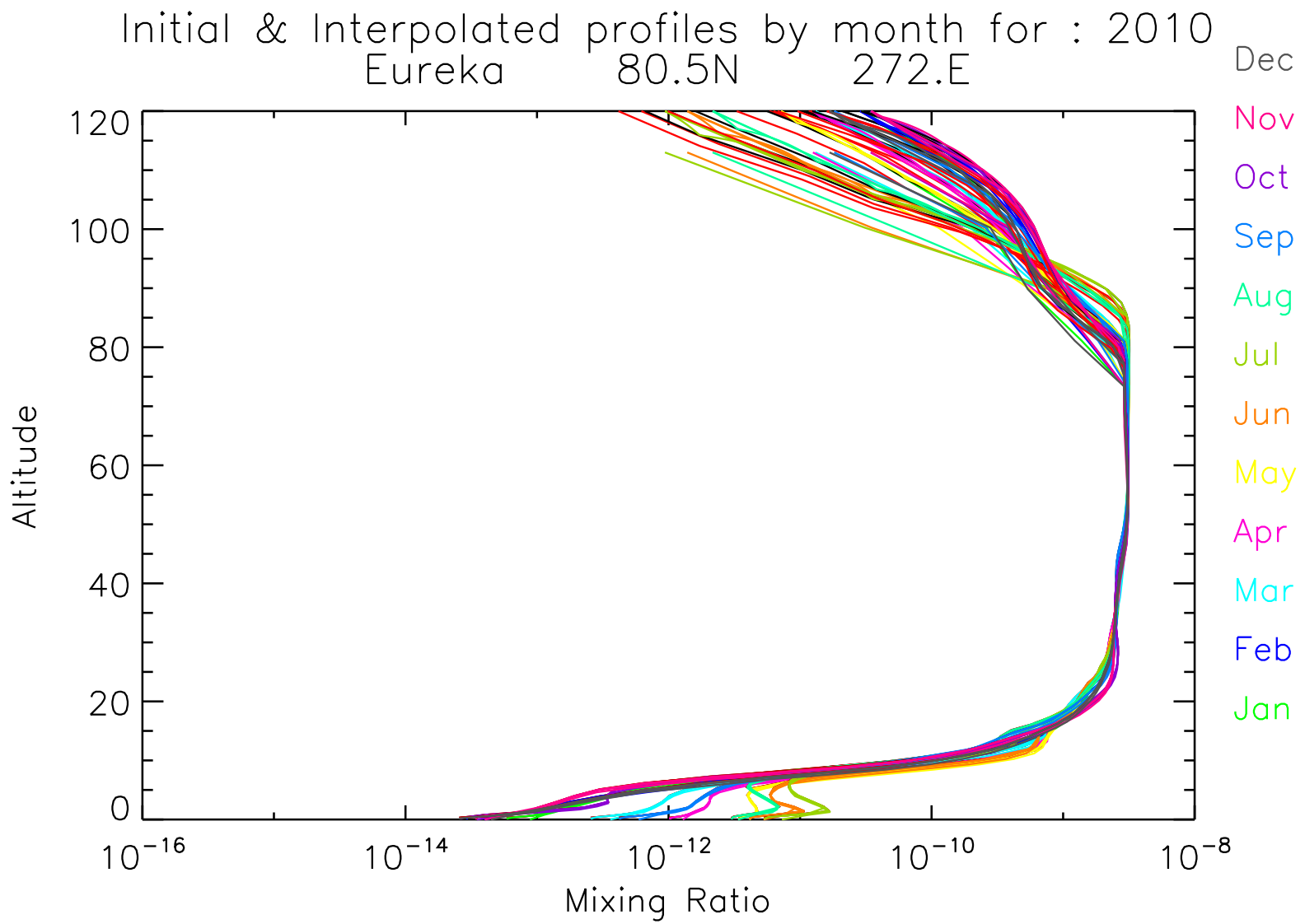
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Eureka 80.5N 272.E
Dec
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Altitude
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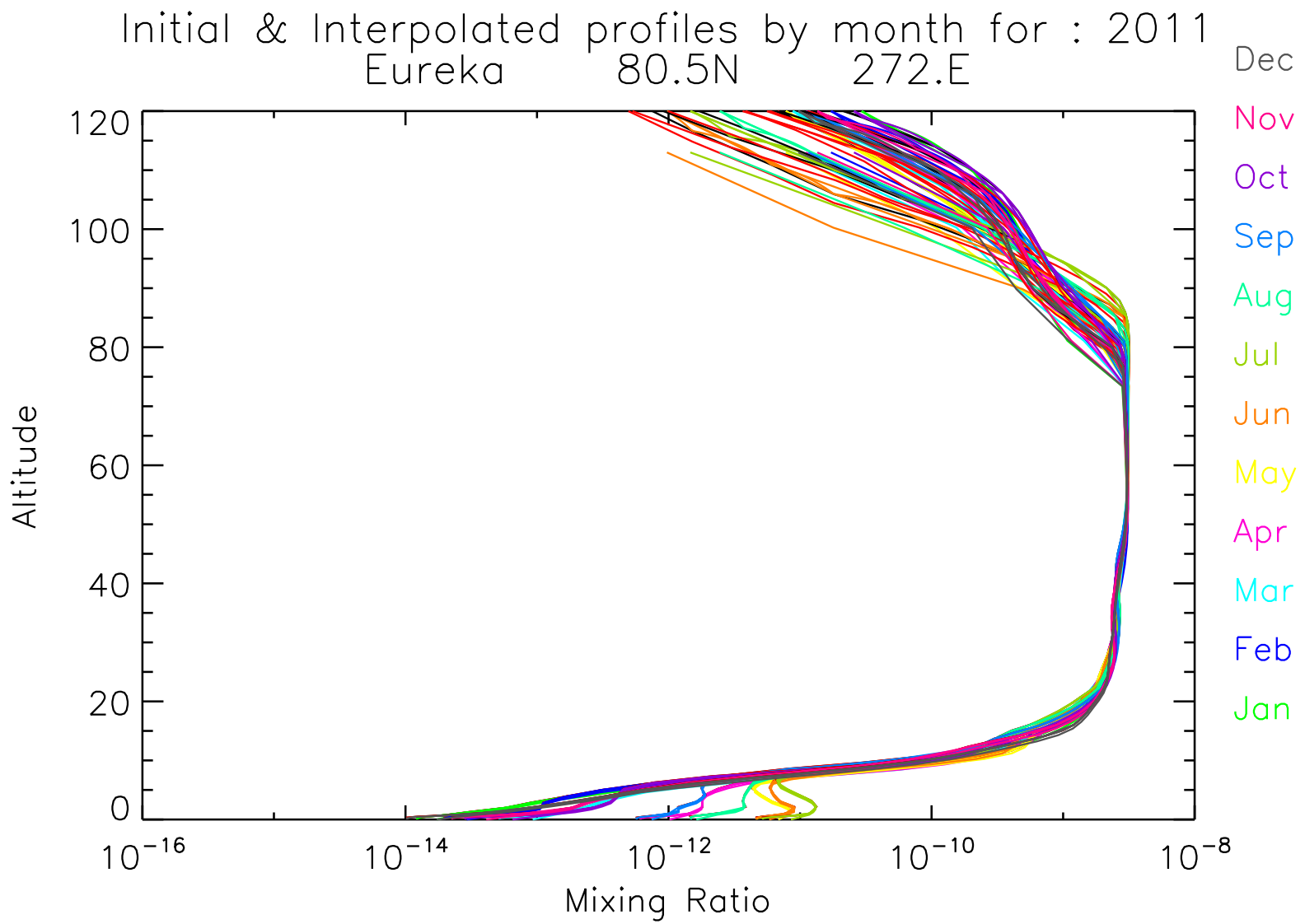
10^{-8}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Eureka 80.5N 272.E
Dec
Nov
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Jan
120
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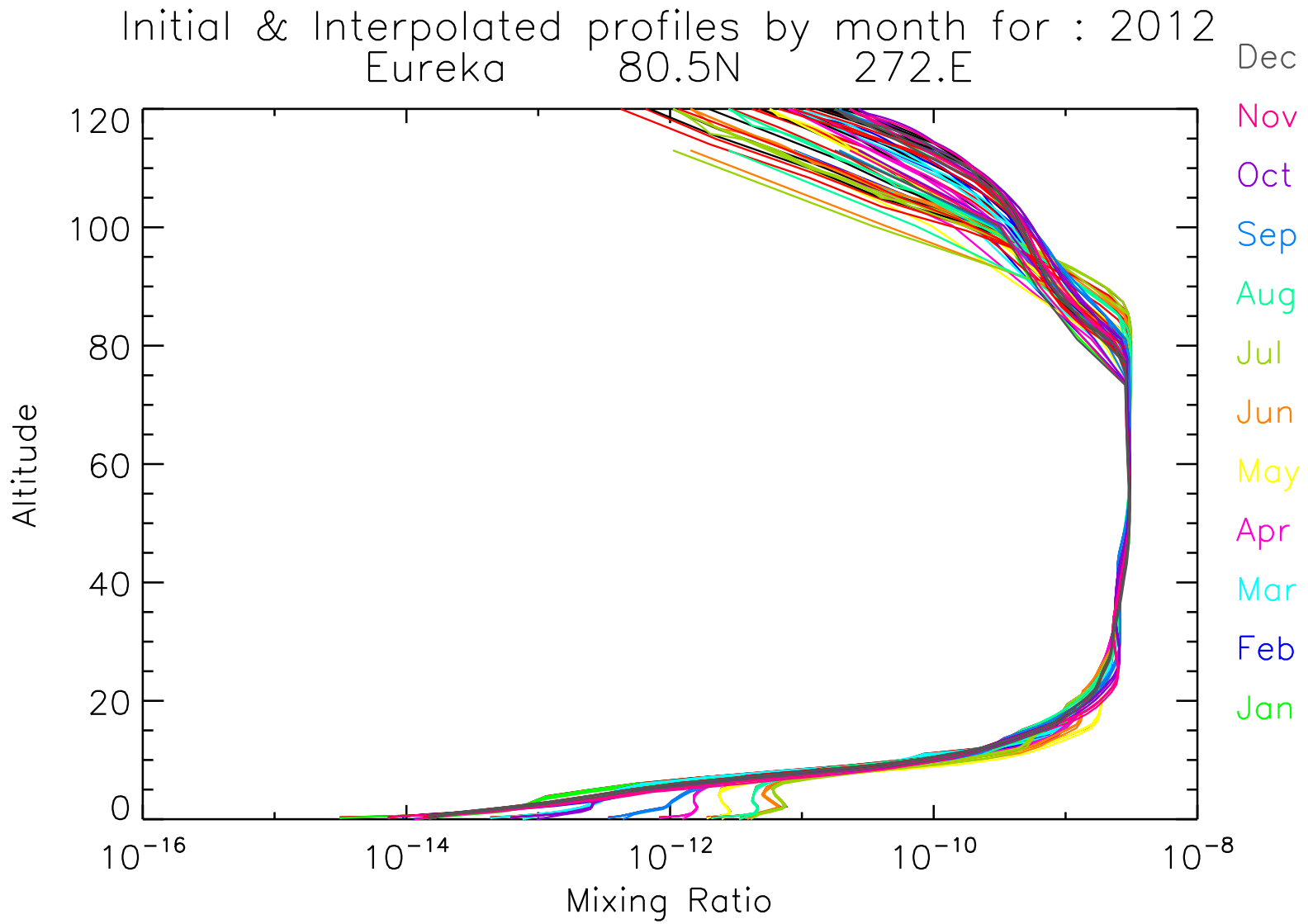
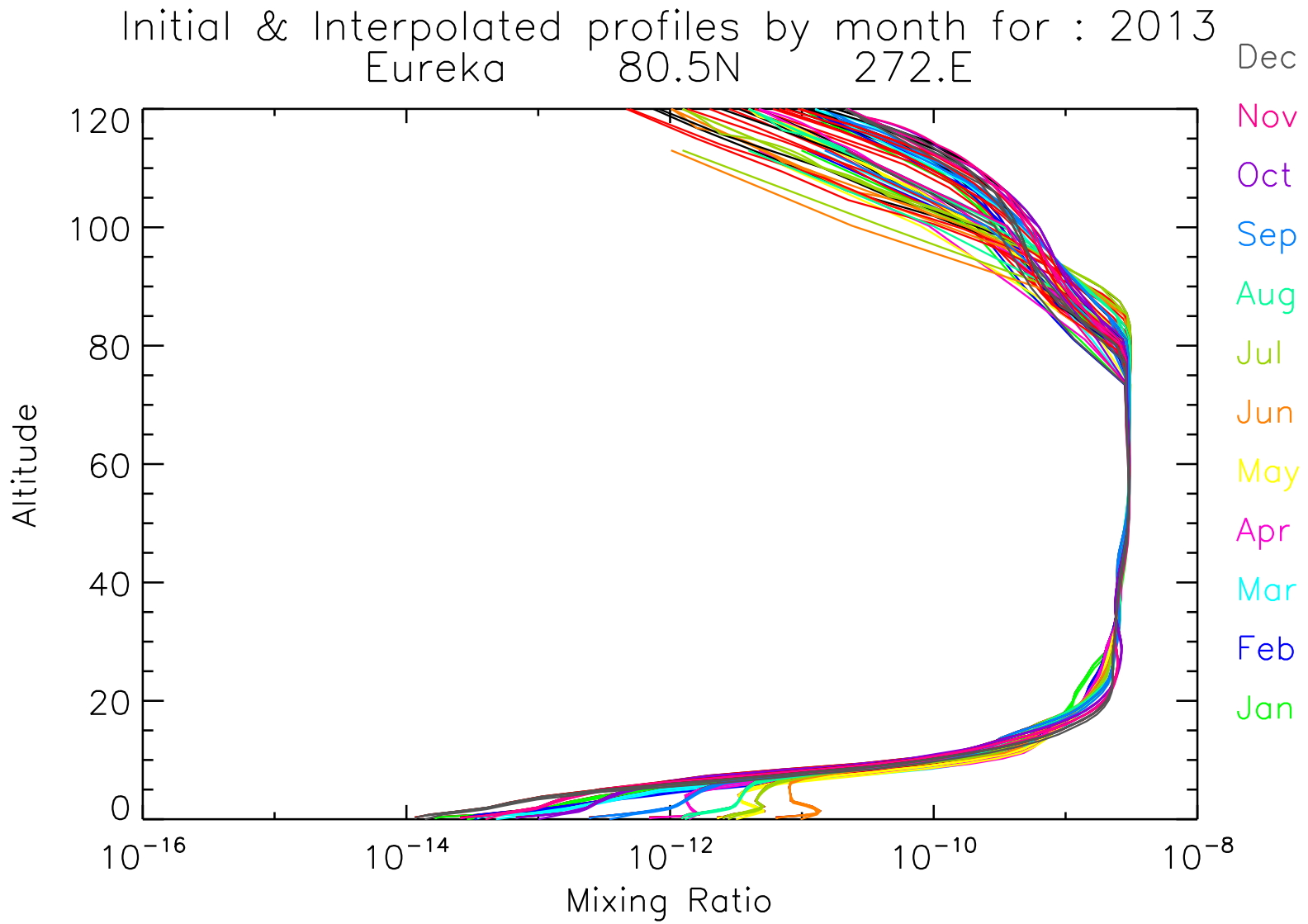
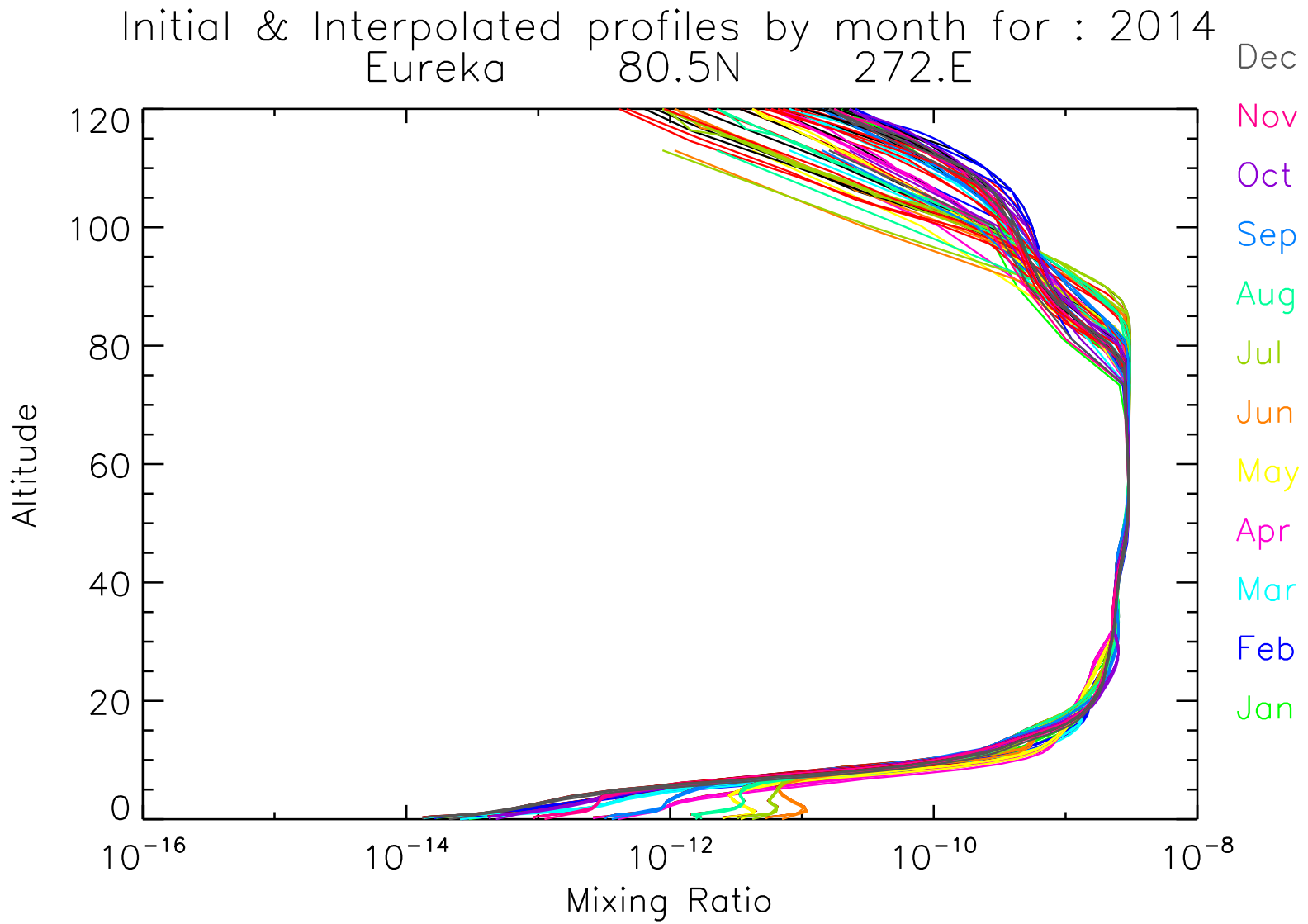
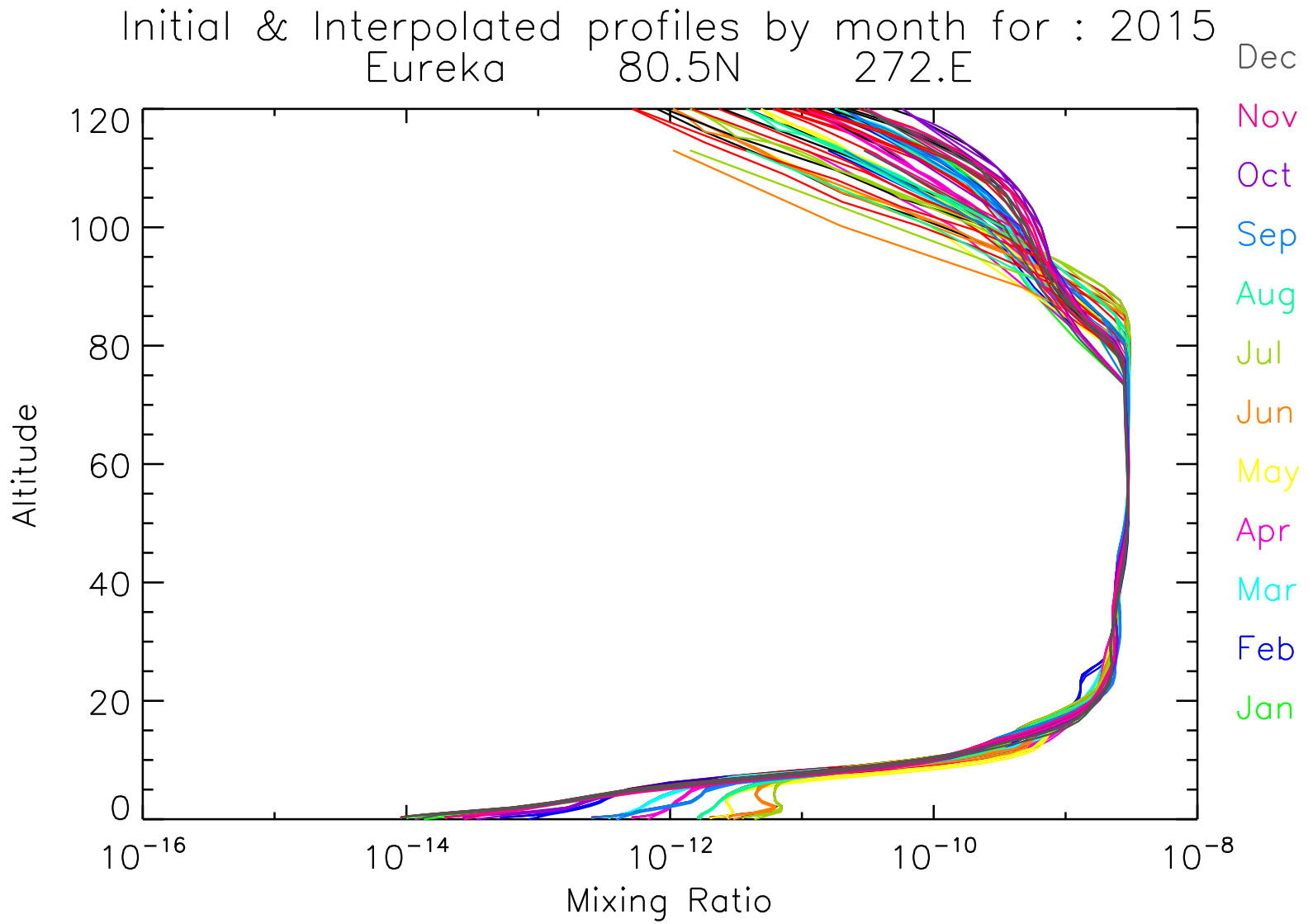
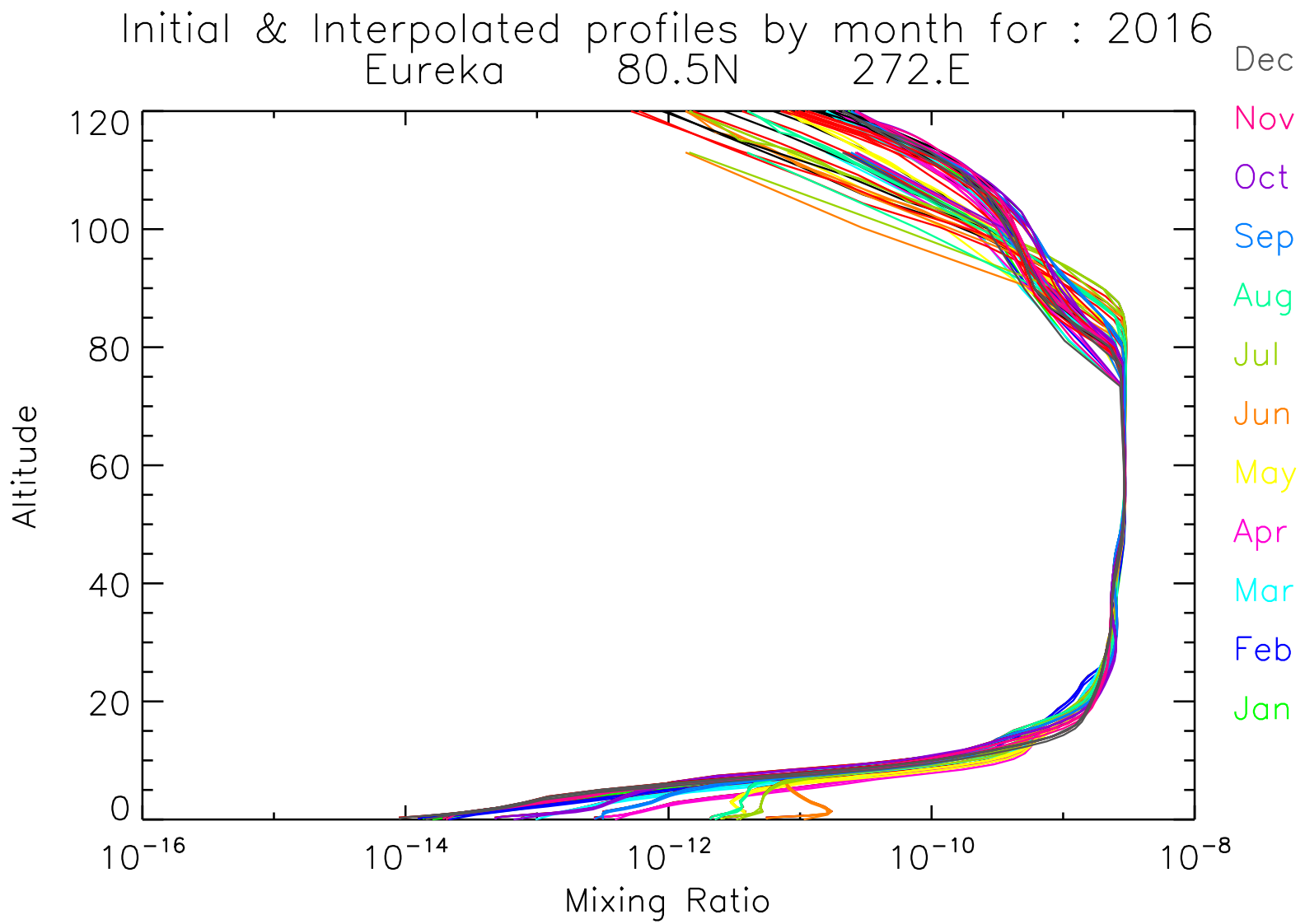
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

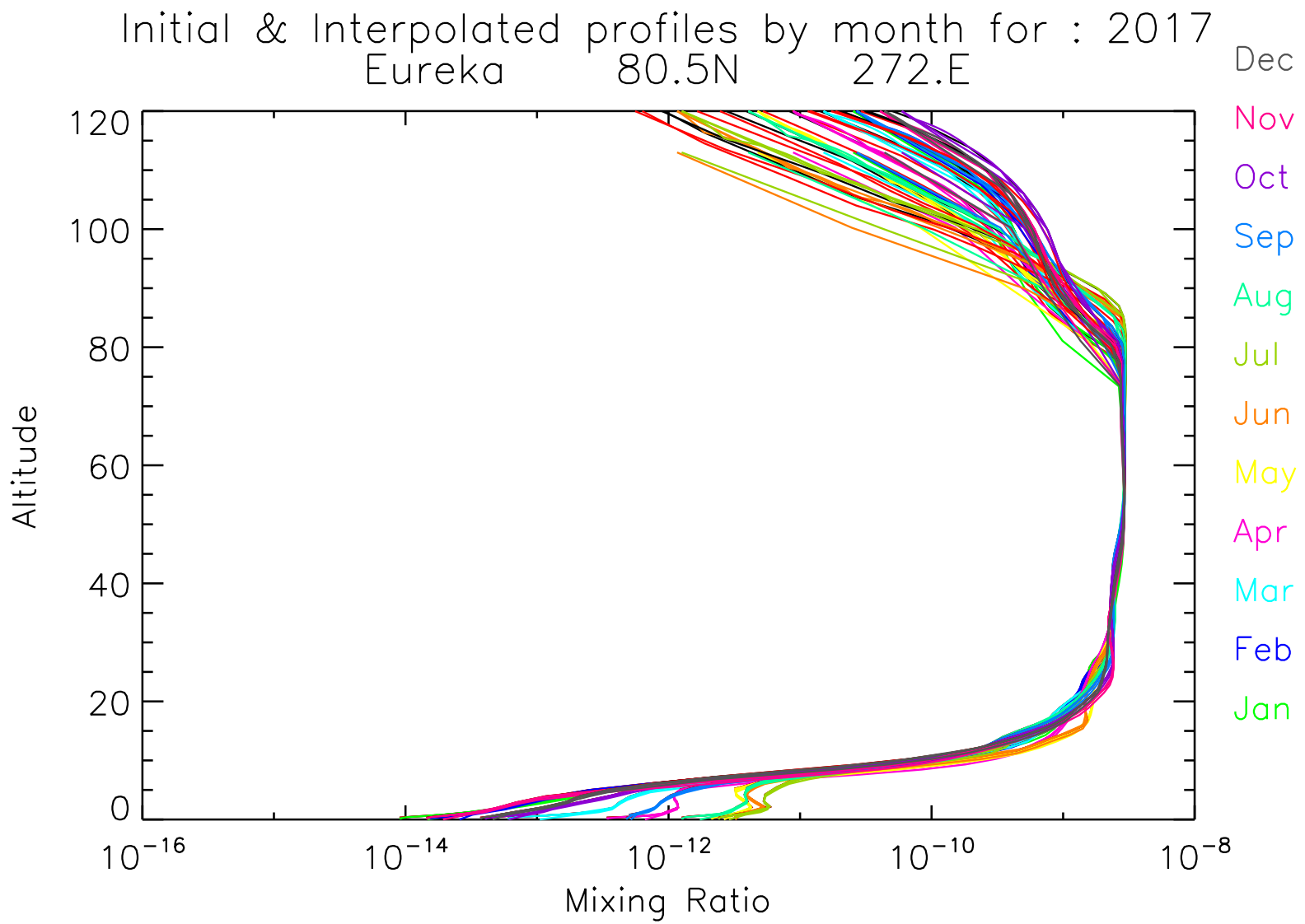

Initial & Interpolated profiles by month for : 2012
Eureka 80.5N 272.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

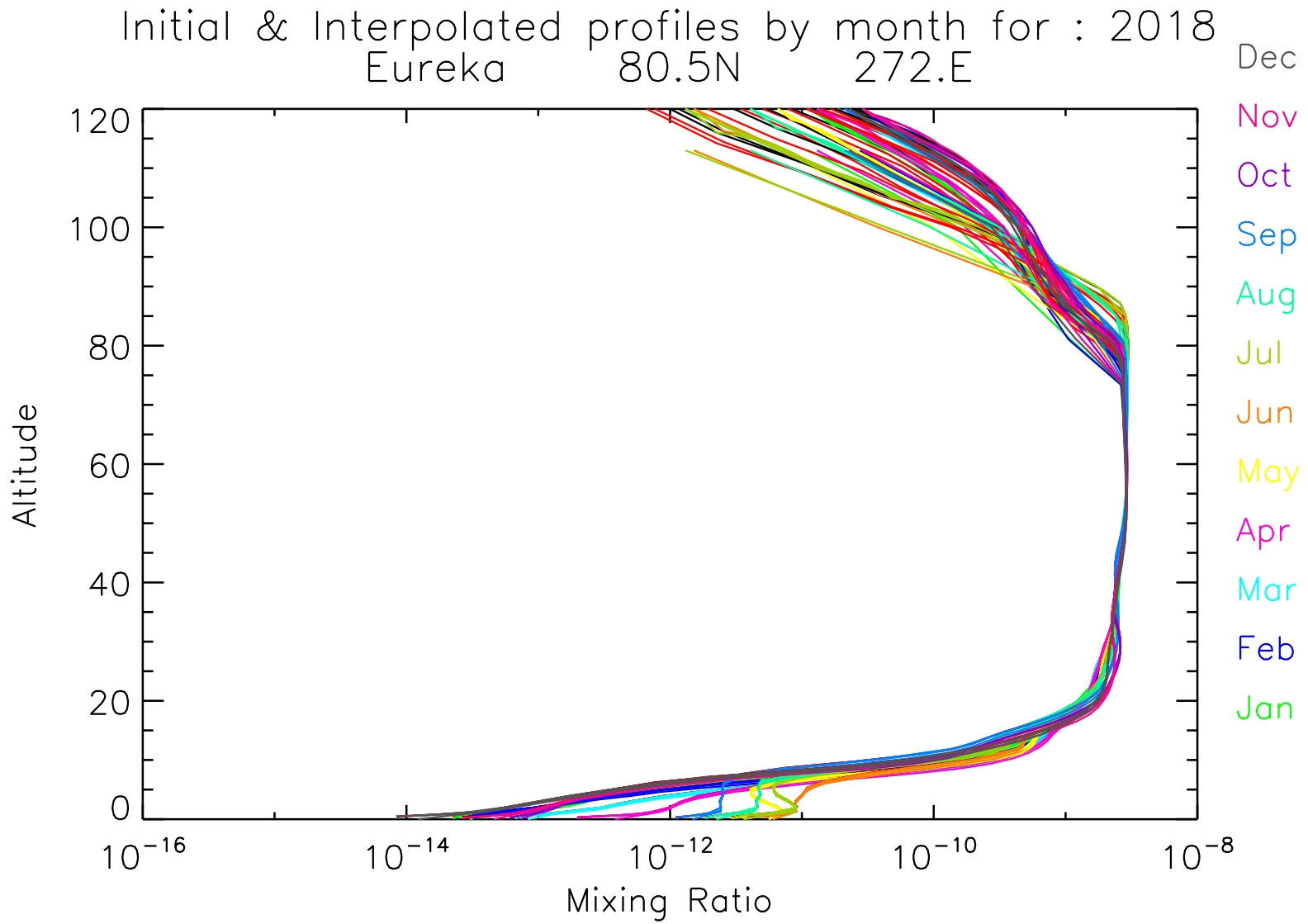

Initial & Interpolated profiles by month for : 2013
Eureka 80.5N 272.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

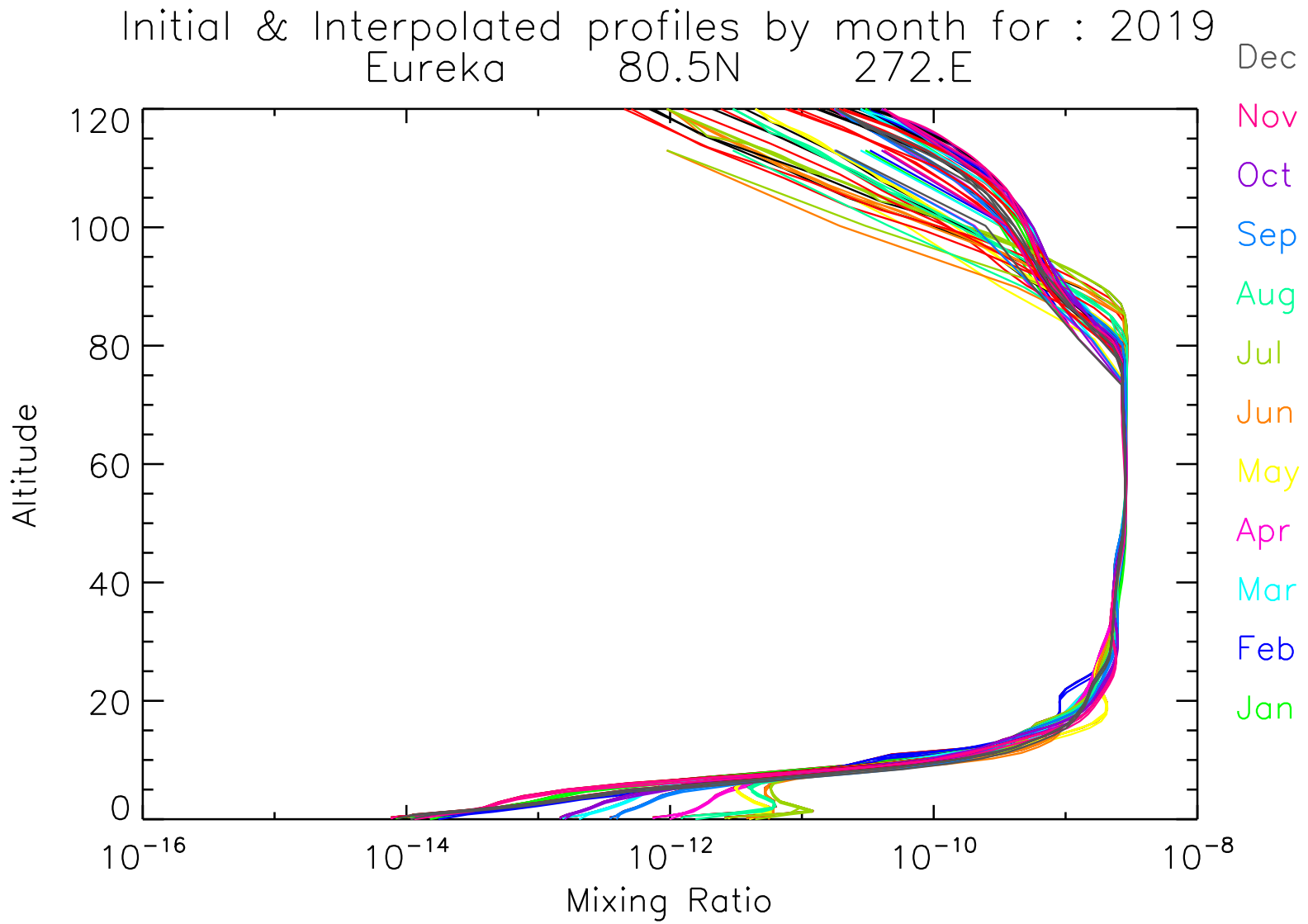

Initial & Interpolated profiles by month for : 2014
Eureka 80.5N 272.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

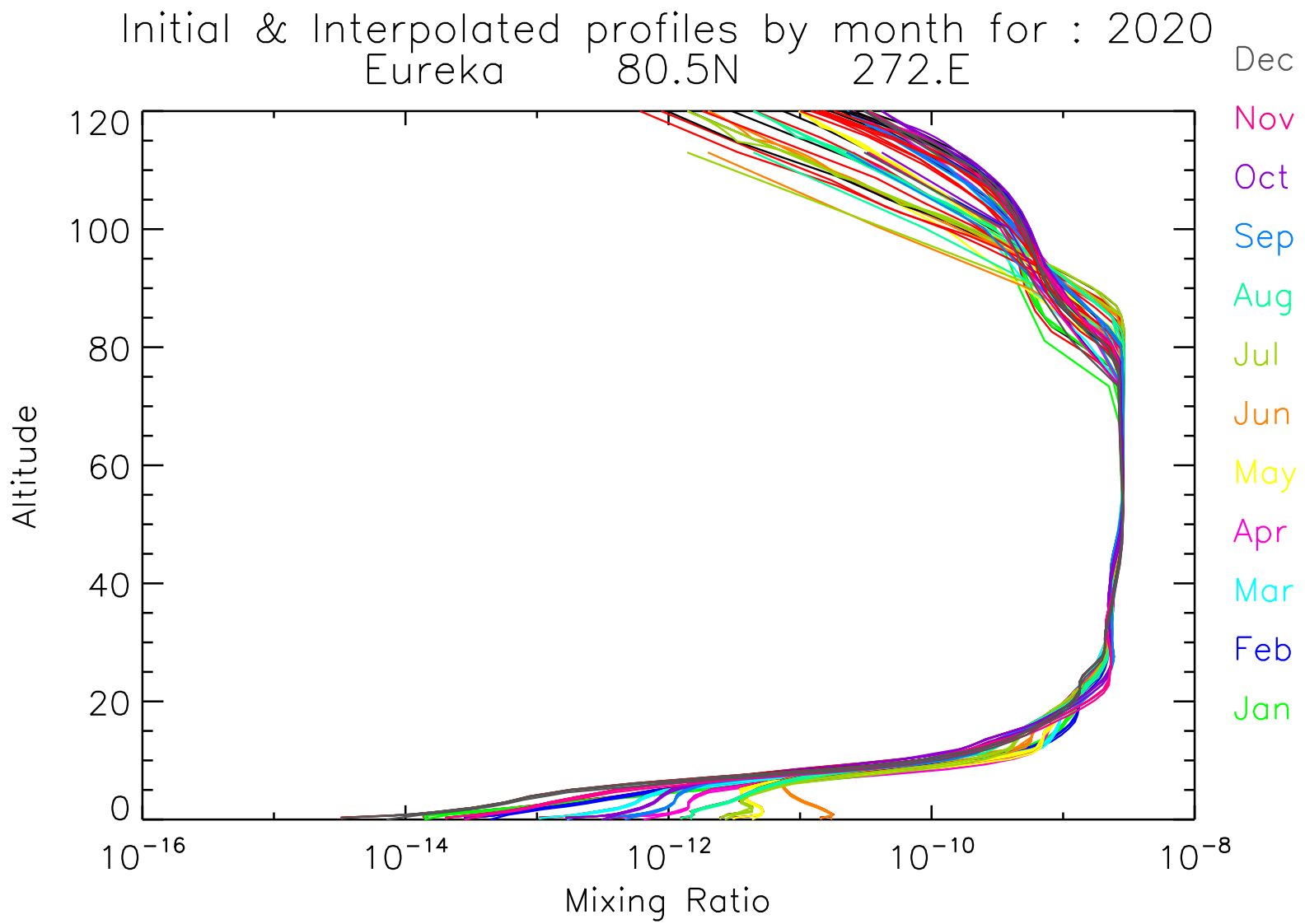

Initial & Interpolated profiles by month for : 2015
Eureka 80.5N 272.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

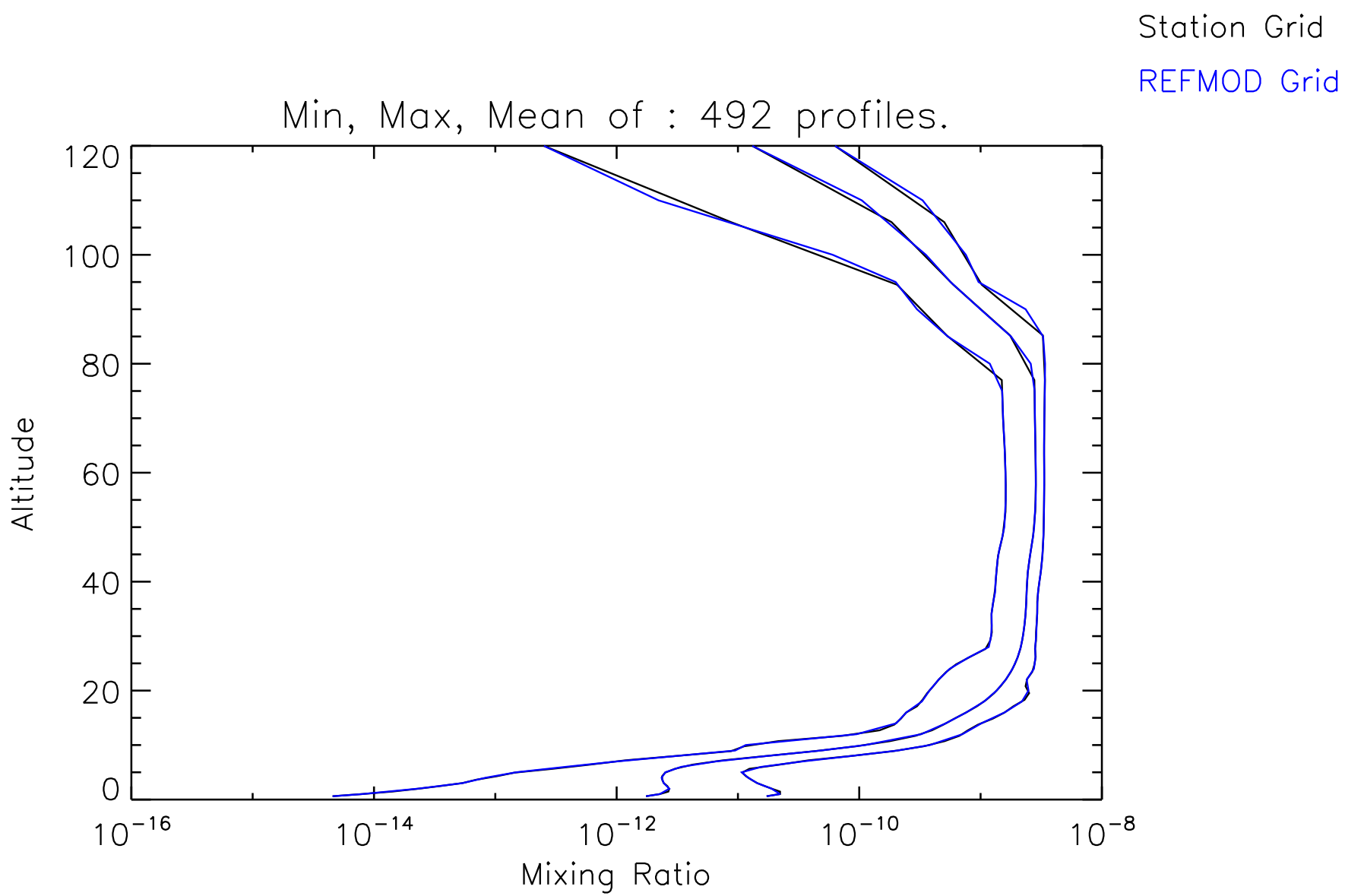

Initial & Interpolated profiles by month for : 2016
Eureka 80.5N 272.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

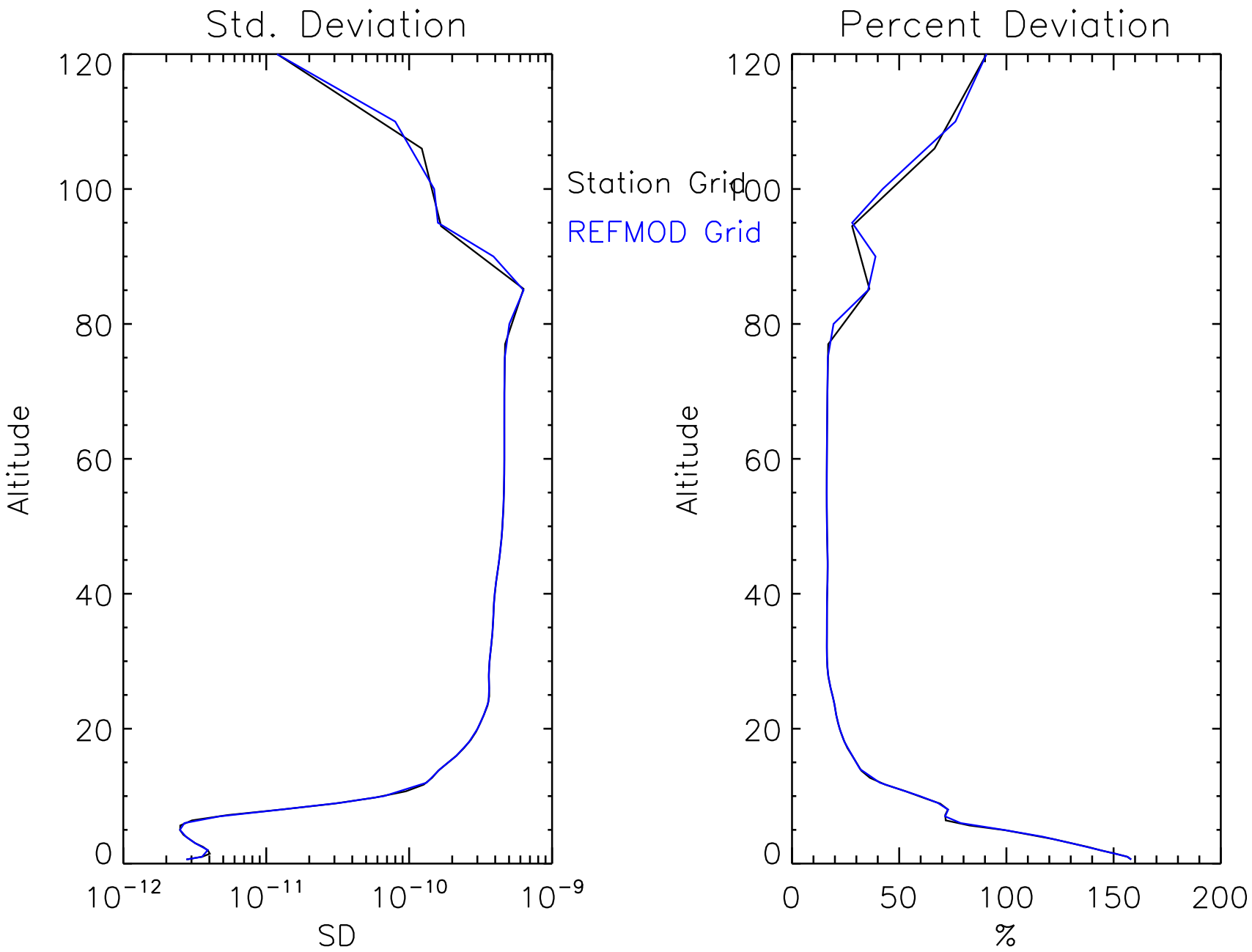

Initial & Interpolated profiles by month for : 2017
Eureka 80.5N 272.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

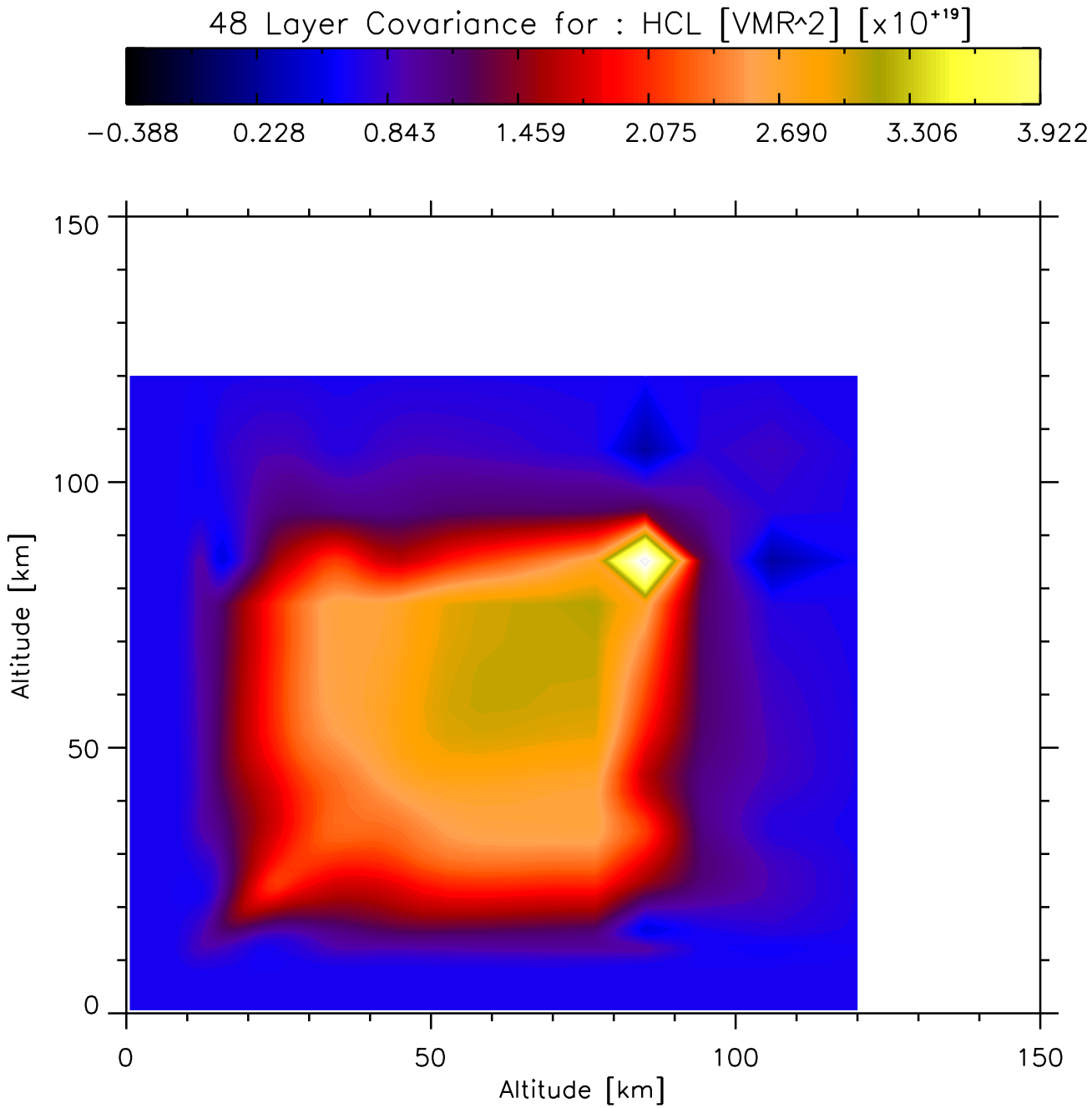

Initial & Interpolated profiles by month for : 2018
Eureka 80.5N 272.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

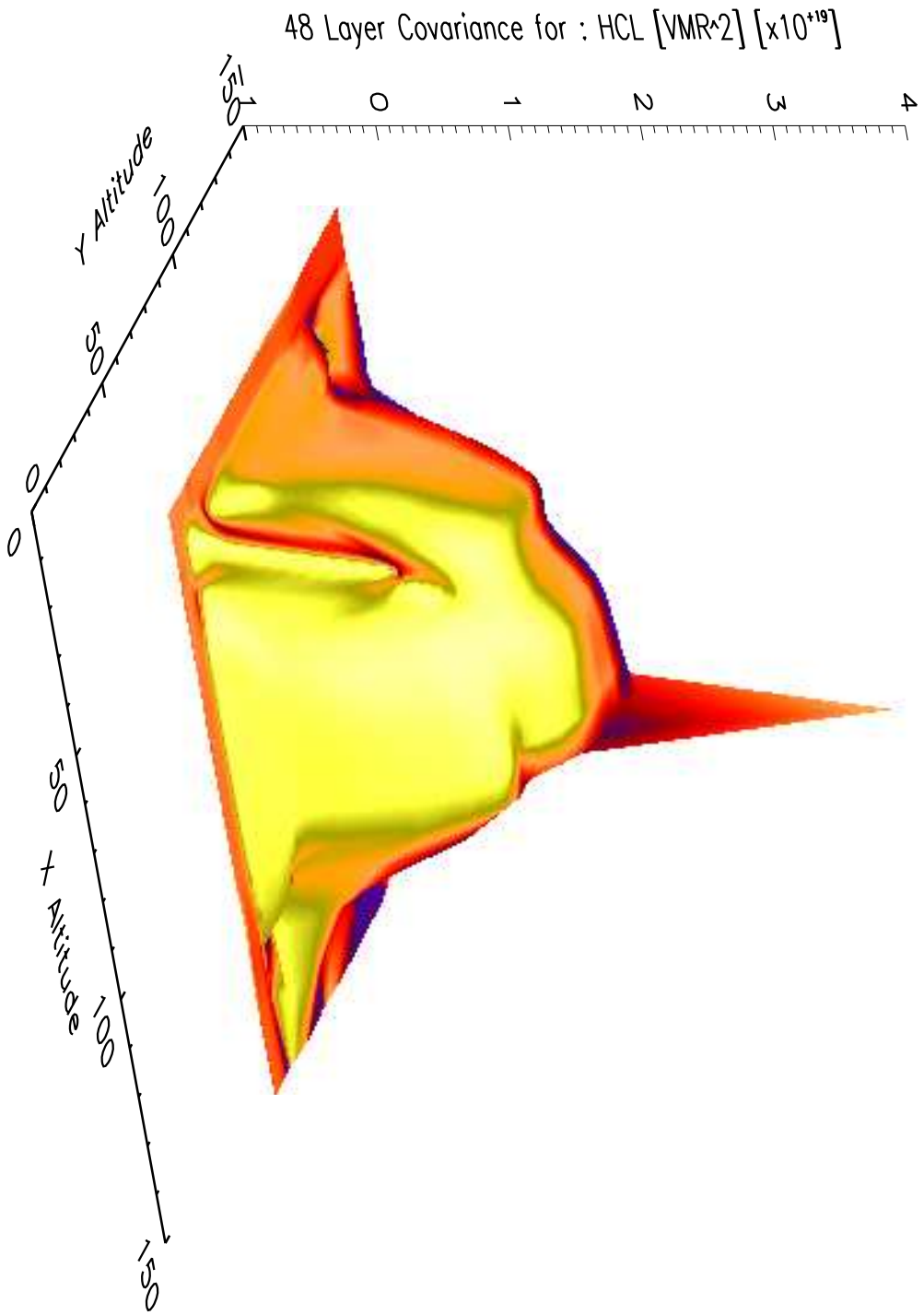

Initial & Interpolated profiles by month for : 2019
Eureka 80.5N 272.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

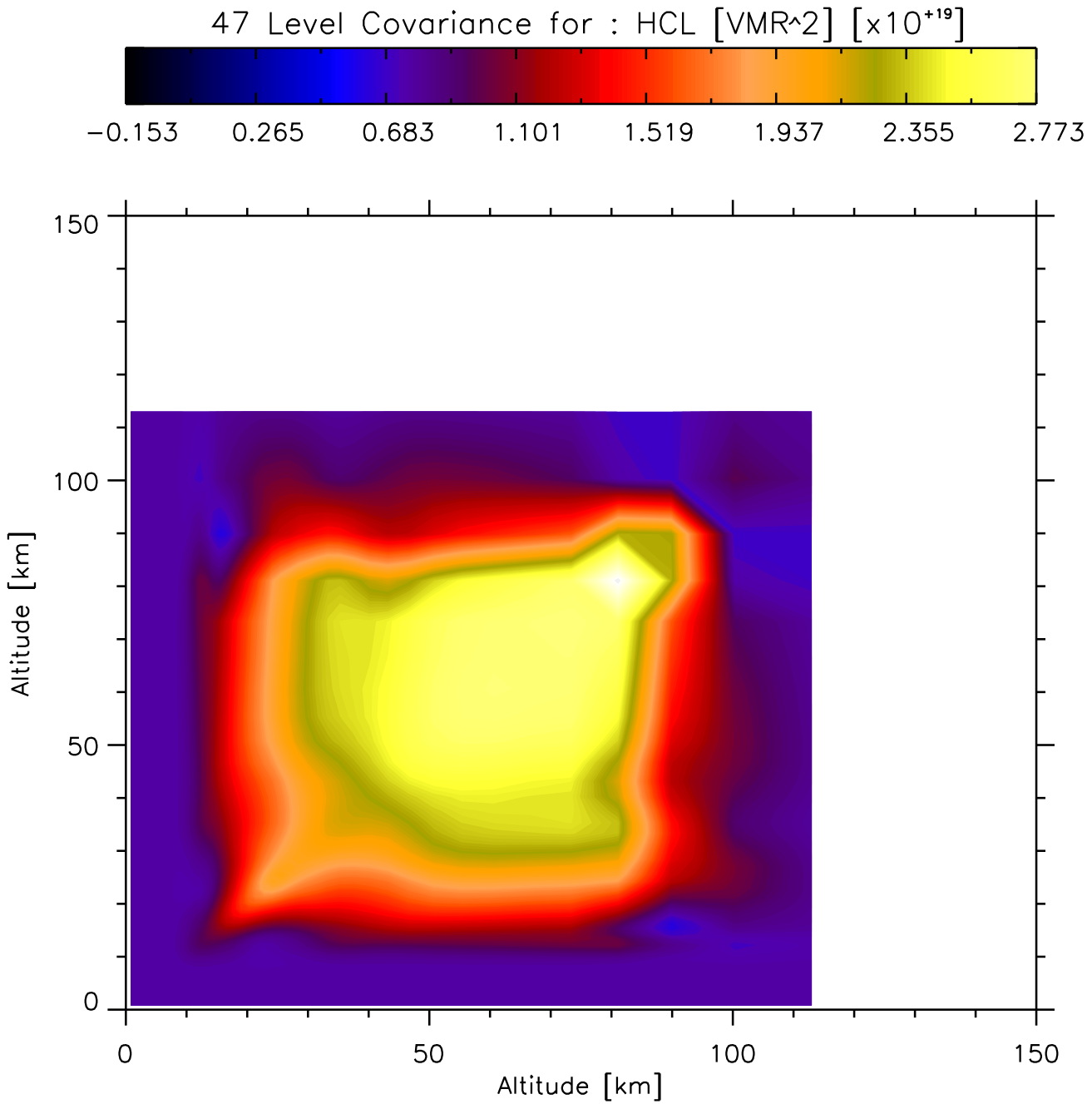

Initial & Interpolated profiles by month for : 2020
Eureka 80.5N 272.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio

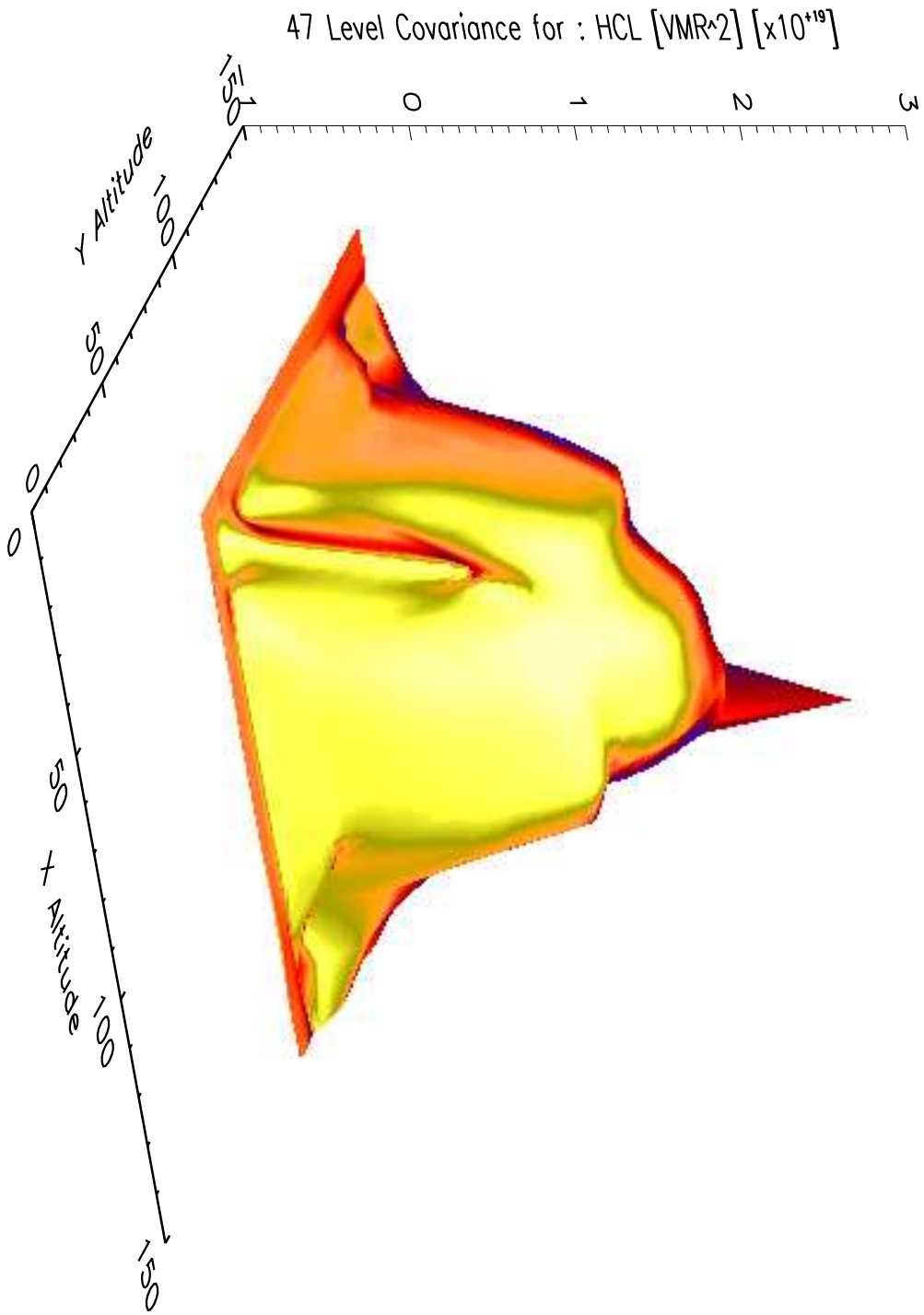

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-11}
10^{-10}
10^{-9}
SD
0
50
100
150
200
%


48 Layer Covariance for : HCL [VMR^2] [x10^+19]
−0.388
0.228
0.843
1.459
2.075
2.690
3.306
3.922
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Layer Covariance for : HCL [VMR^2] [x10^+19]
Y Altitude
X Altitude
0
50
100
150
0
1
2
3
4


47 Level Covariance for : HCL [VMR^2] [x10^+19]
−0.153
0.265
0.683
1.101
1.519
1.937
2.355
2.773
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


47 Level Covariance for : HCL [VMR^2] [x10^+19]
0
1
2
3
150
100
50
0
Y Altitude
0
50
100
150
X Altitude