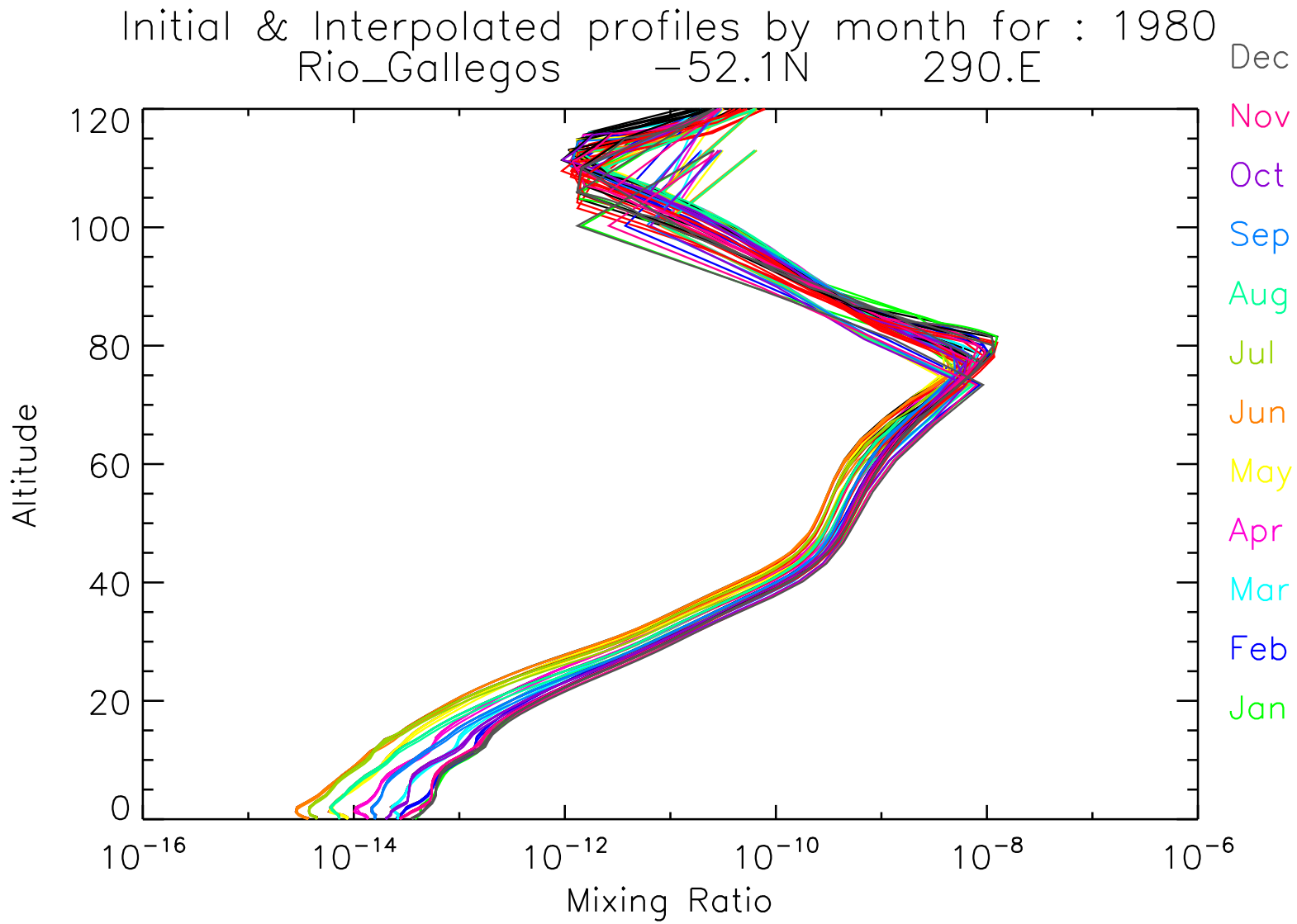
Initial & Interpolated profiles by month for : 1980
Rio_Gallegos −52.1N 290.E
Dec
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Oct
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Feb
Jan
120
100
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0
Altitude
10^{-16}
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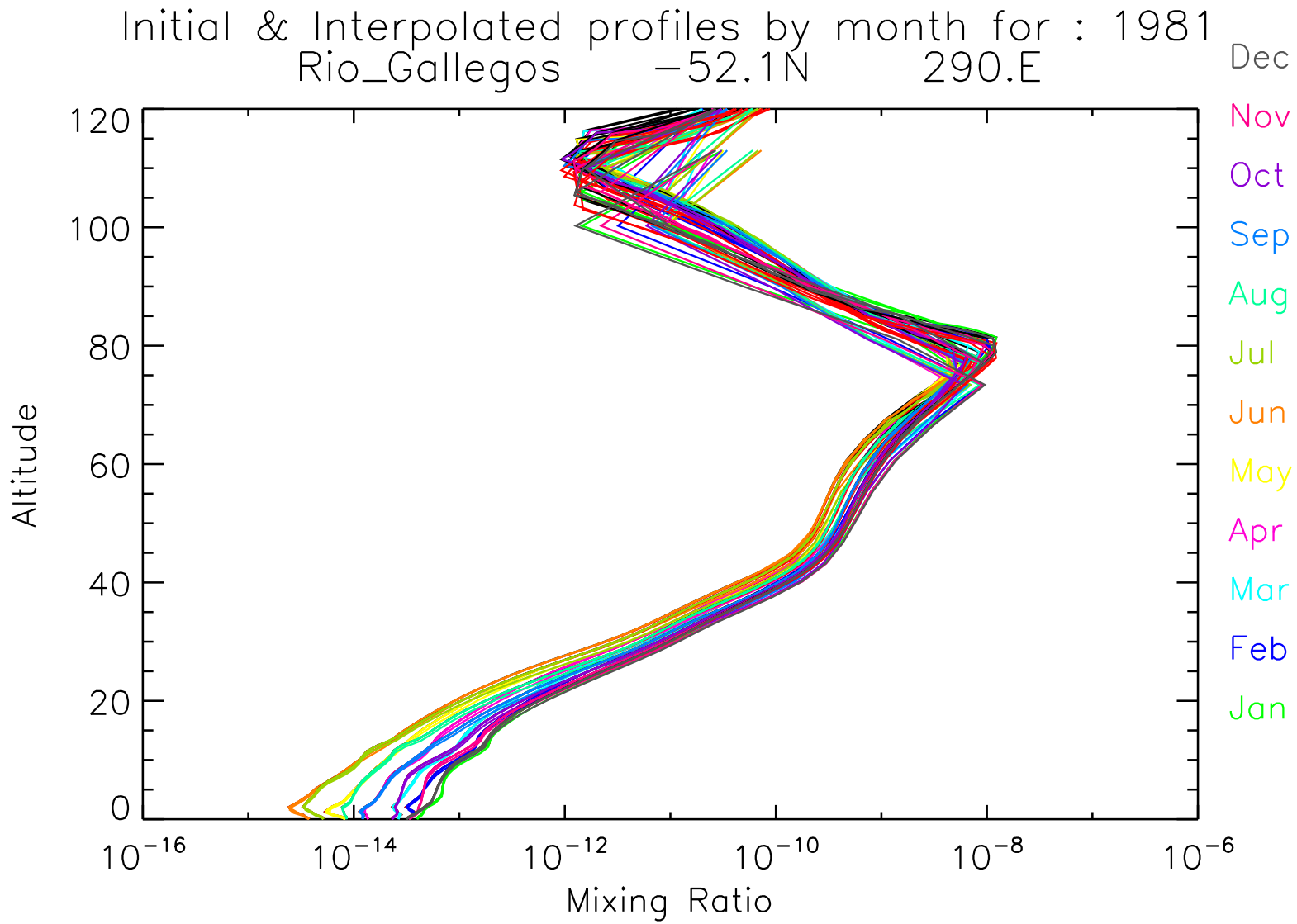
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Rio_Gallegos −52.1N 290.E
Altitude
120
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40
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0
10^{-16}
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Mixing Ratio
Dec
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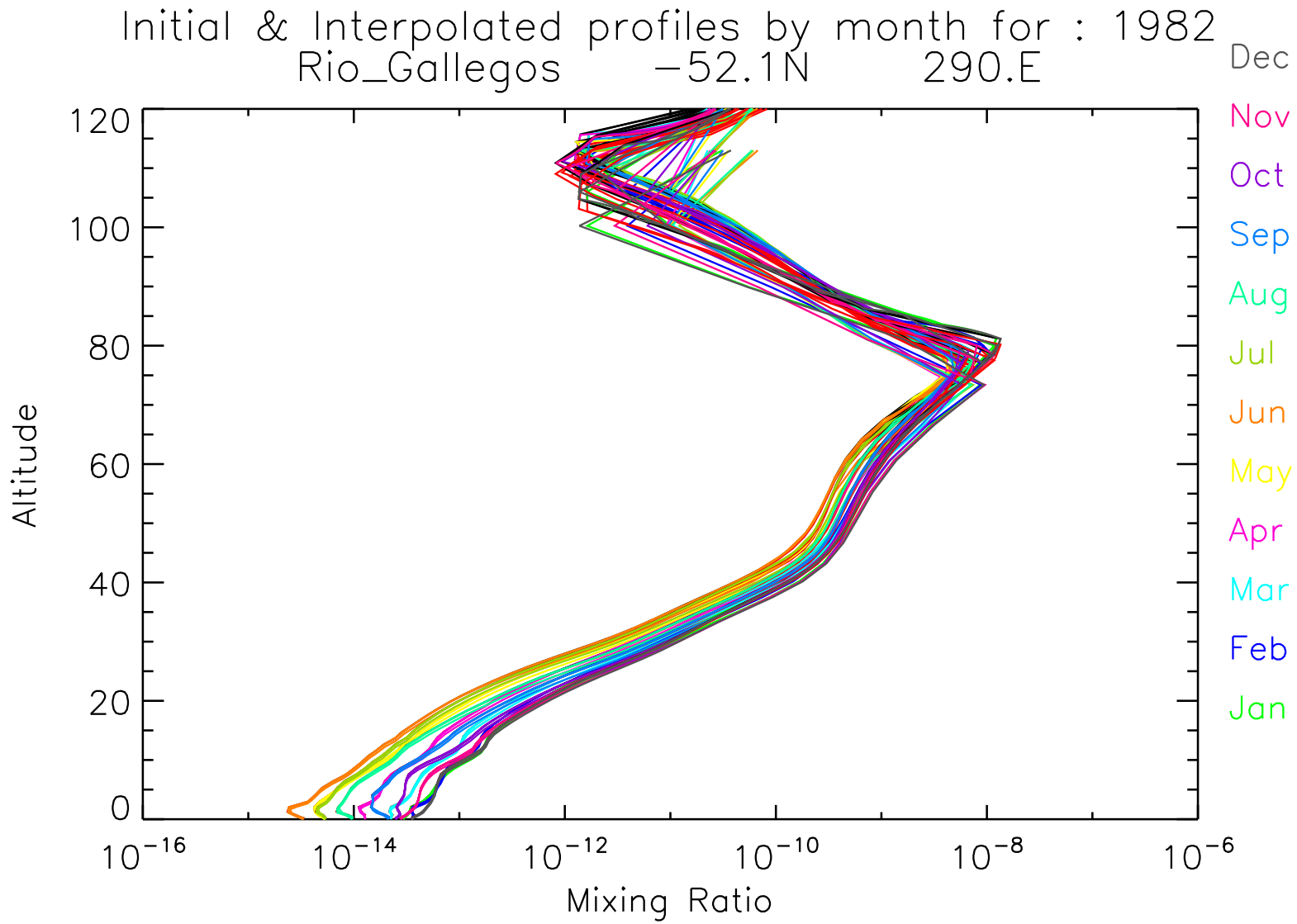
Feb
Jan


Initial & Interpolated profiles by month for : 1982
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
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May
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Feb
Jan
Altitude
120
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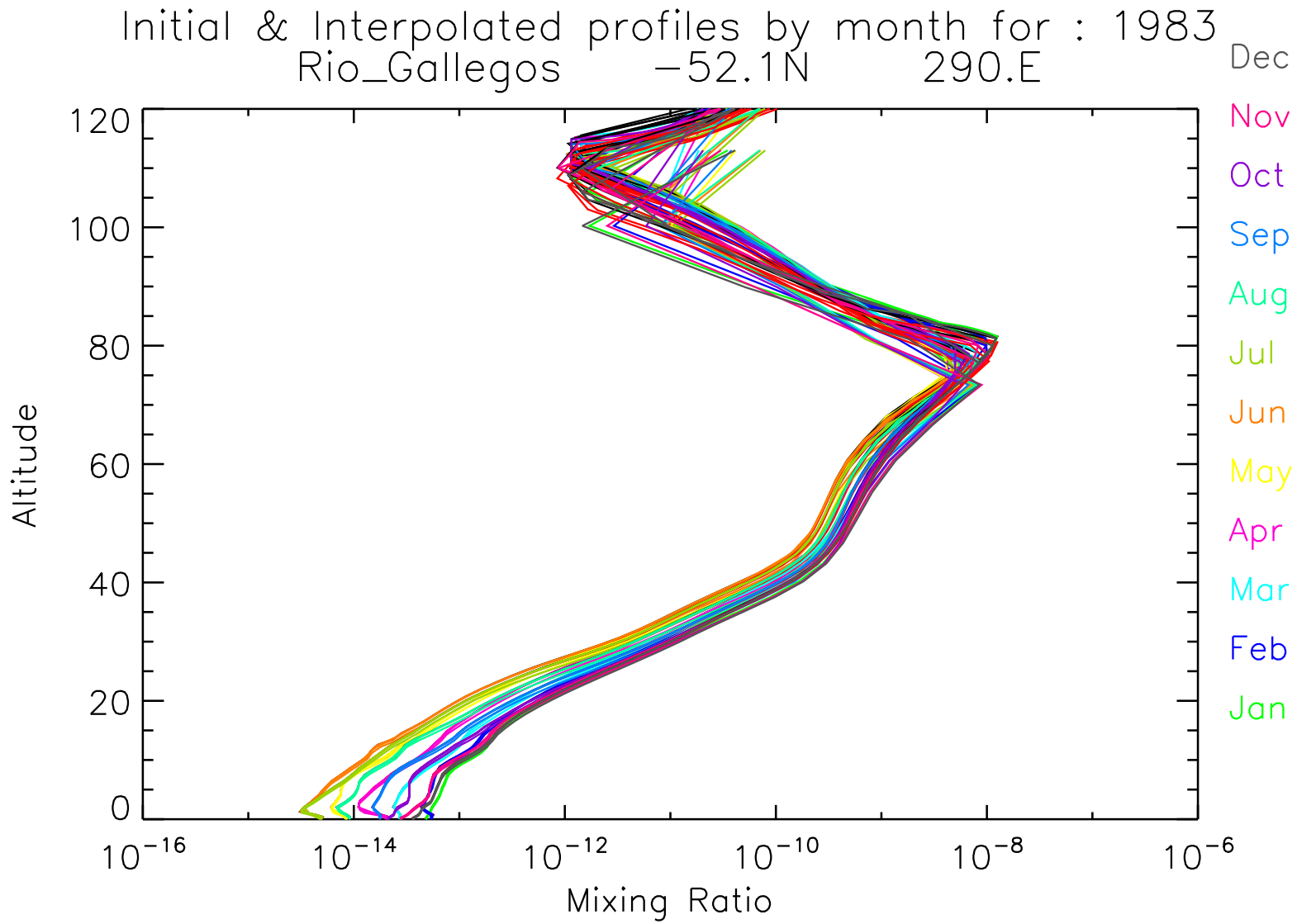
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1983
Rio_Gallegos −52.1N 290.E
Dec
Nov
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Altitude
120
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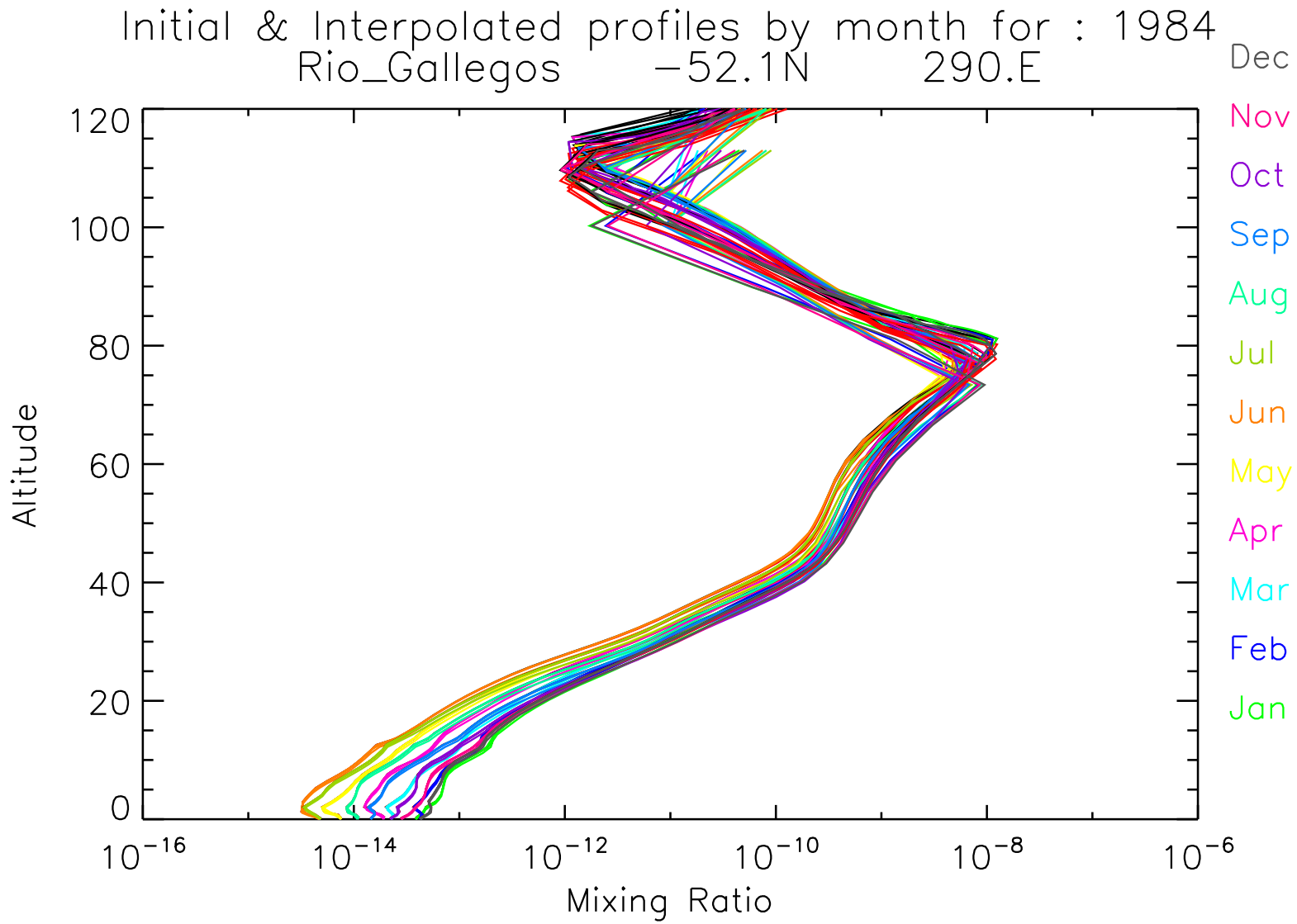
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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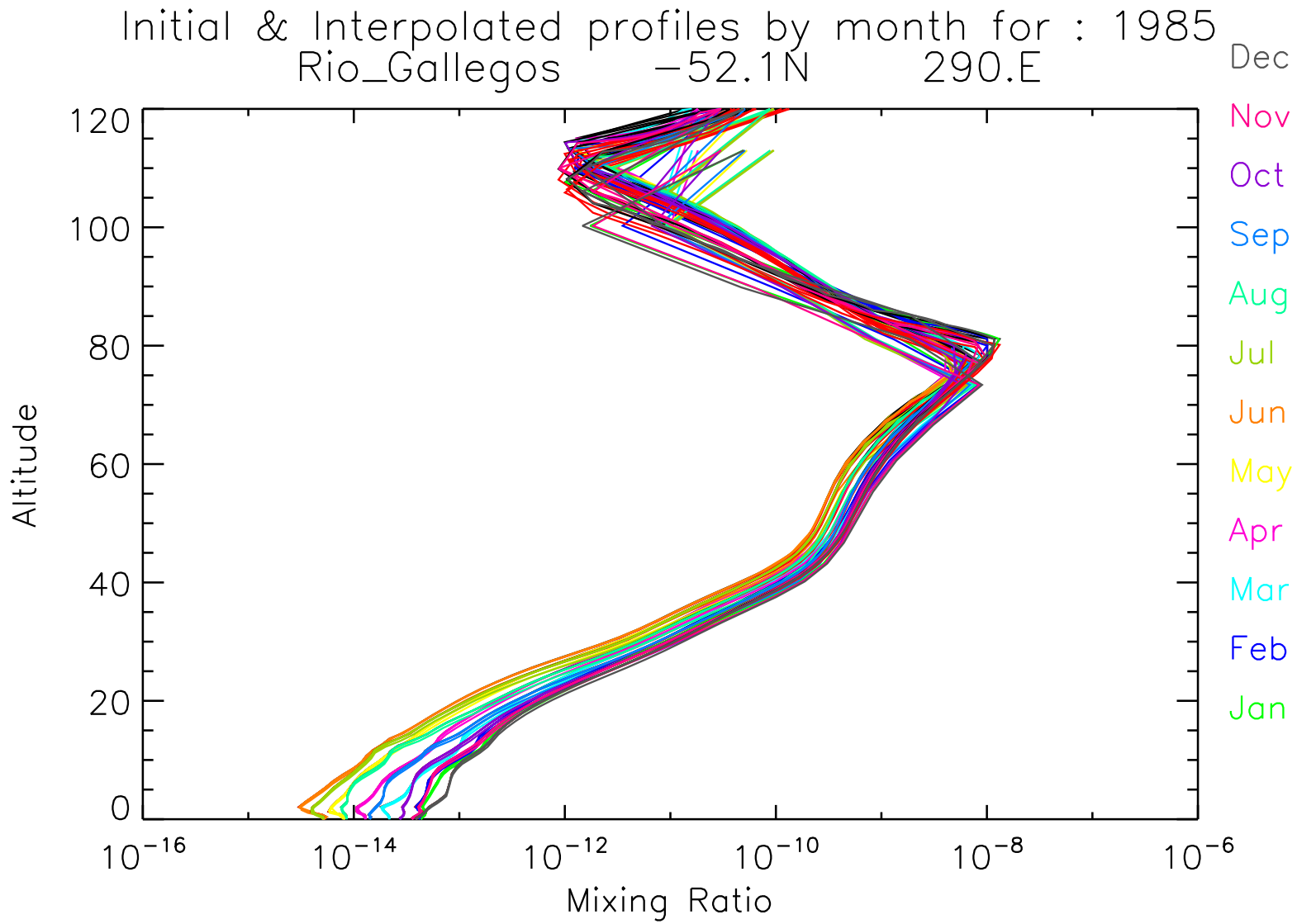
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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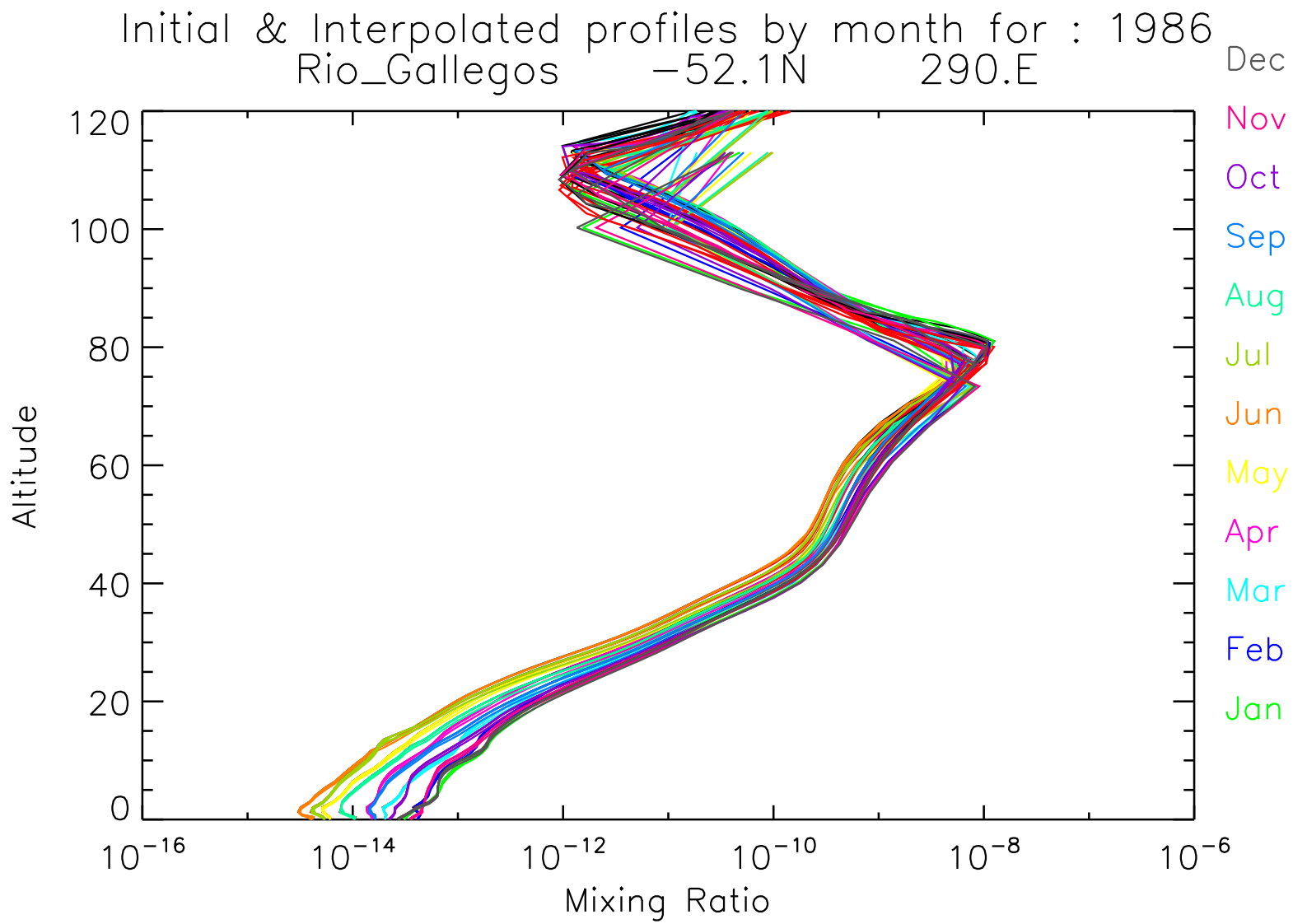
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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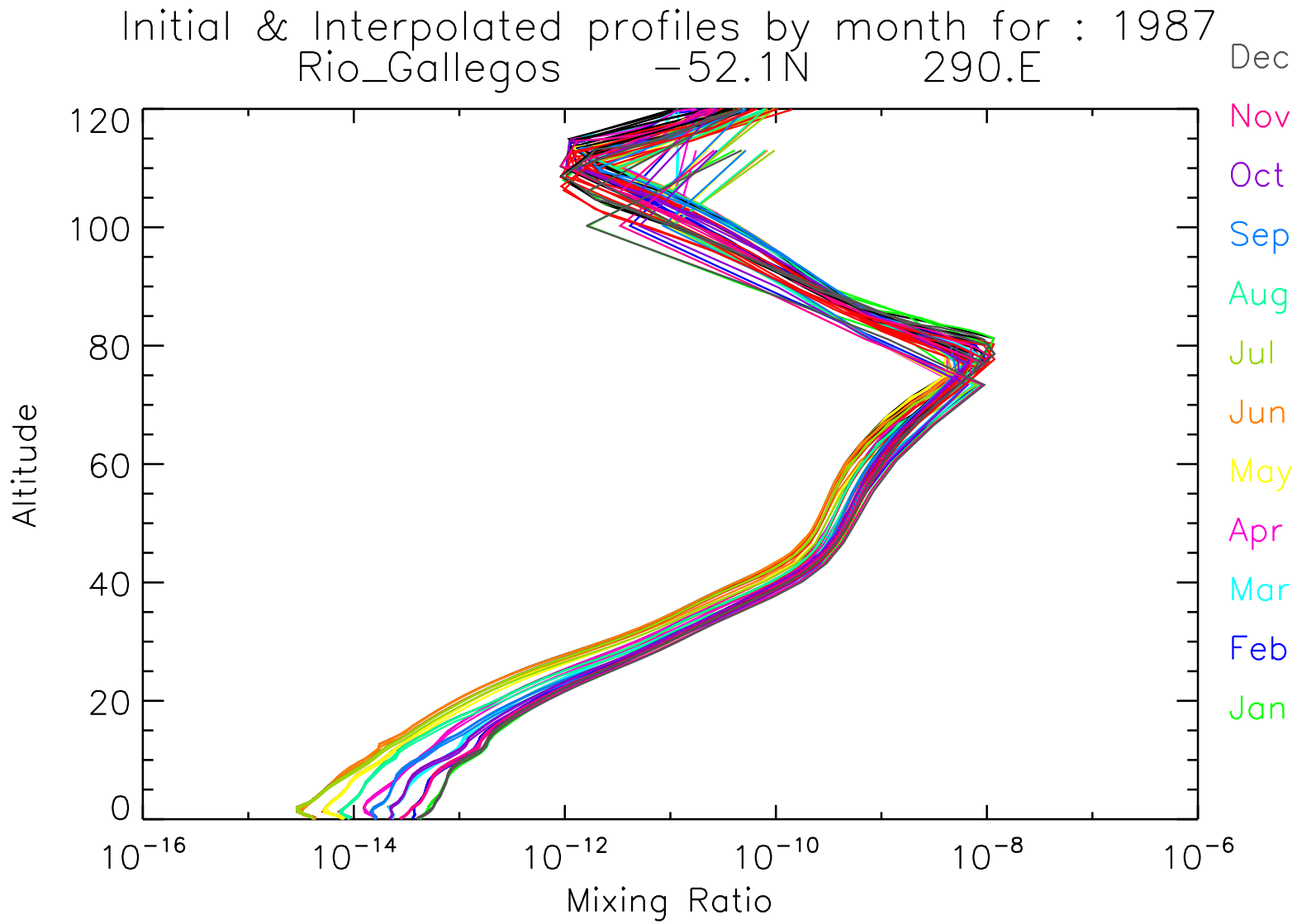
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1987
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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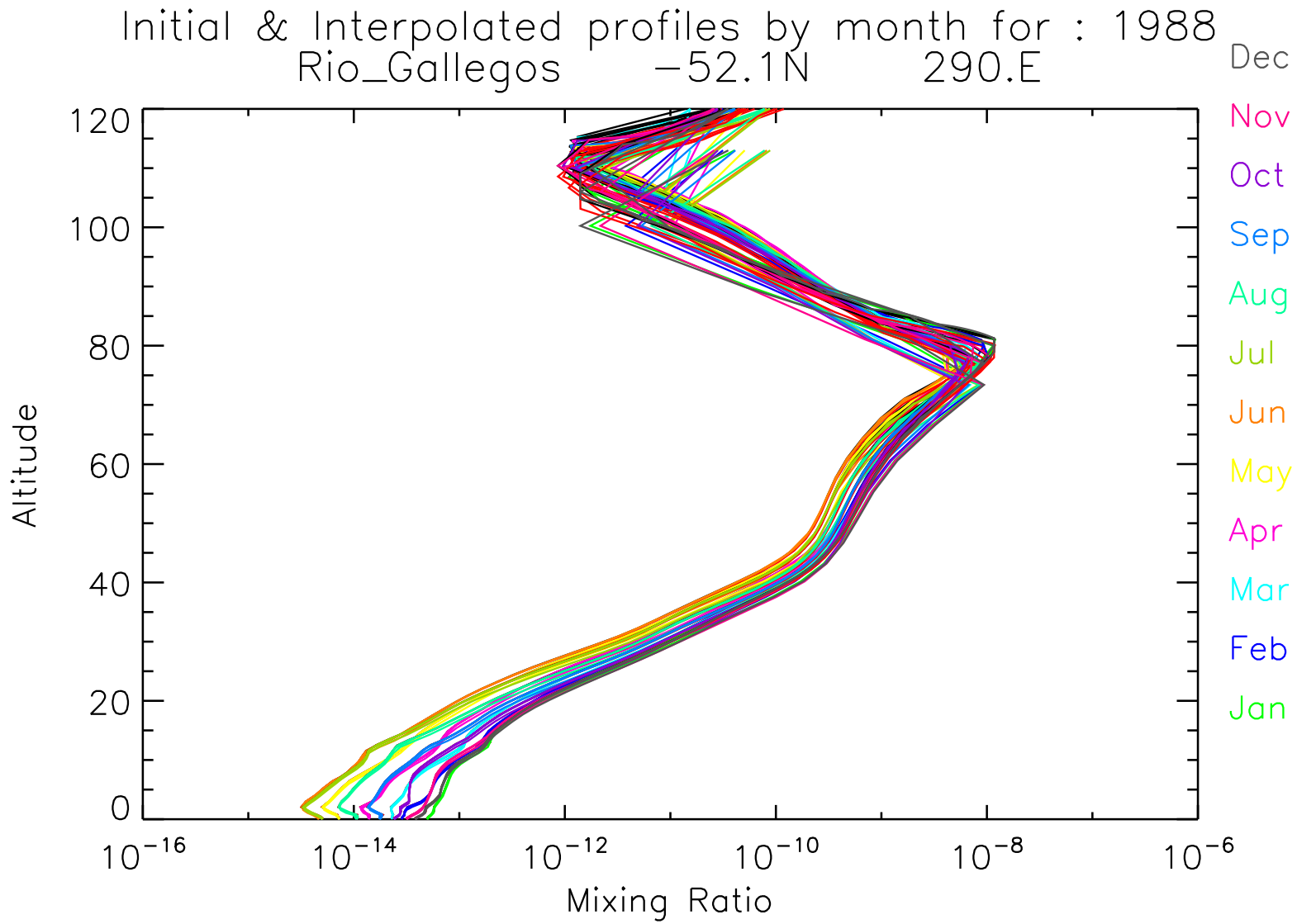
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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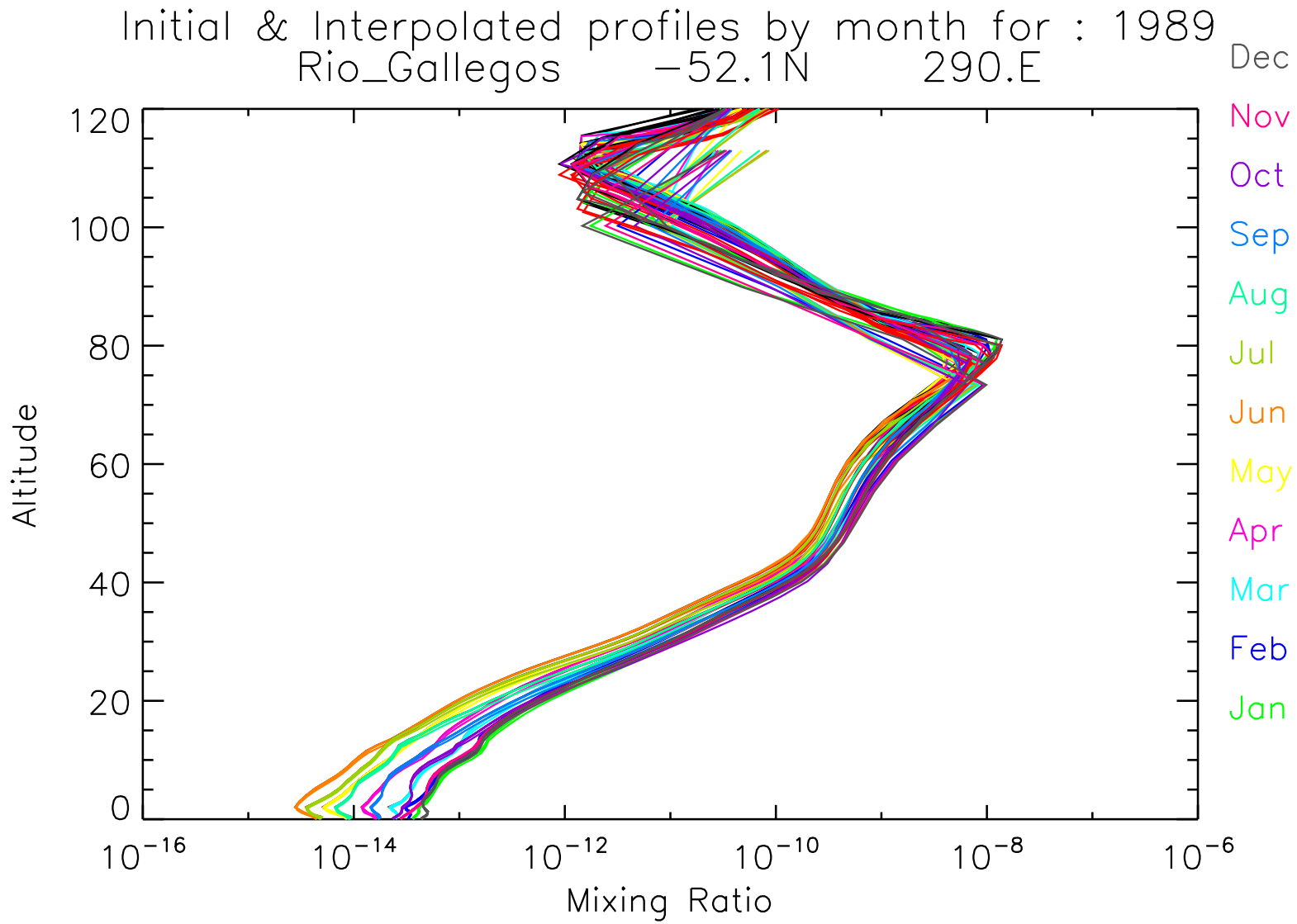
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Rio_Gallegos −52.1N 290.E
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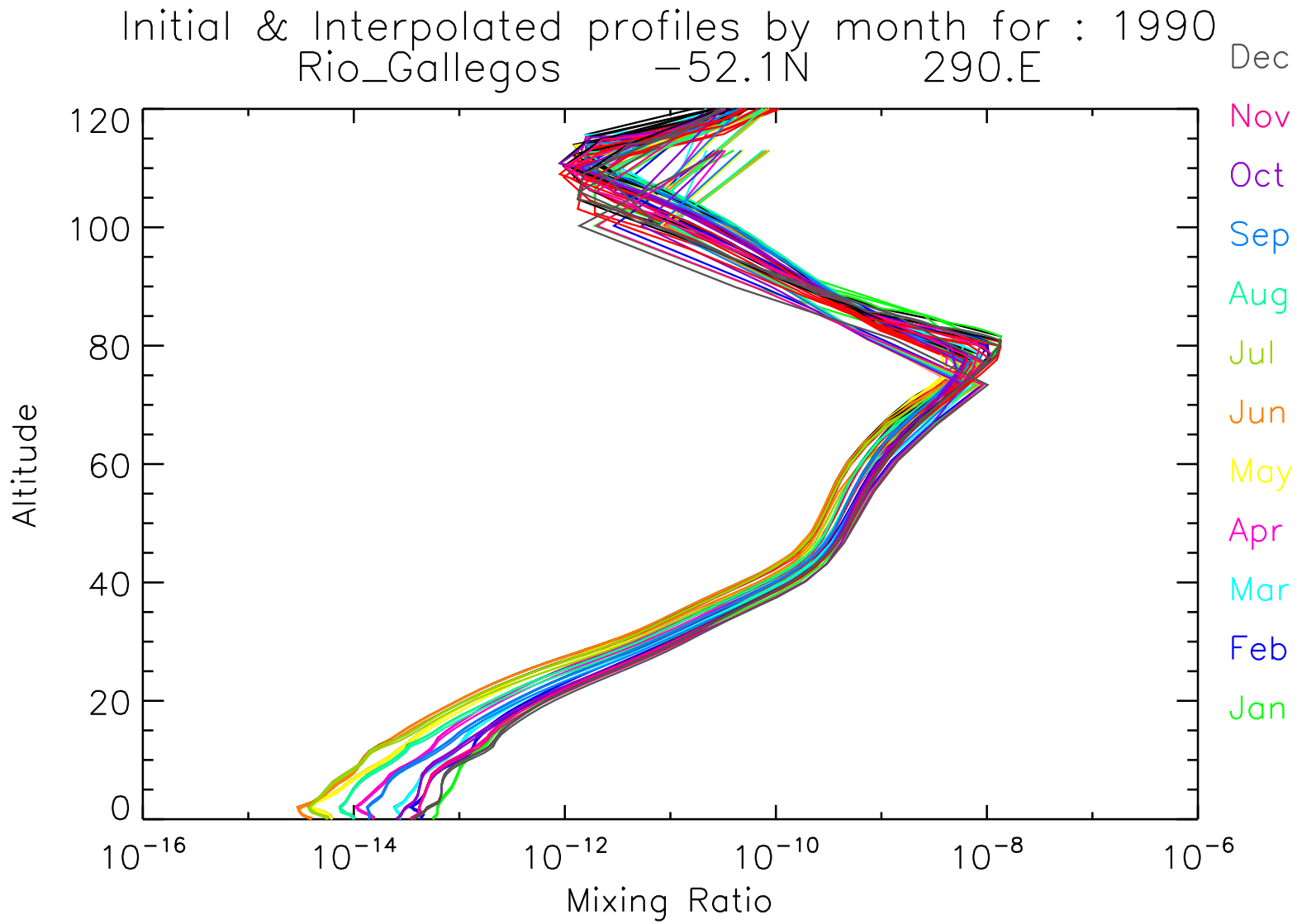
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Rio_Gallegos −52.1N 290.E
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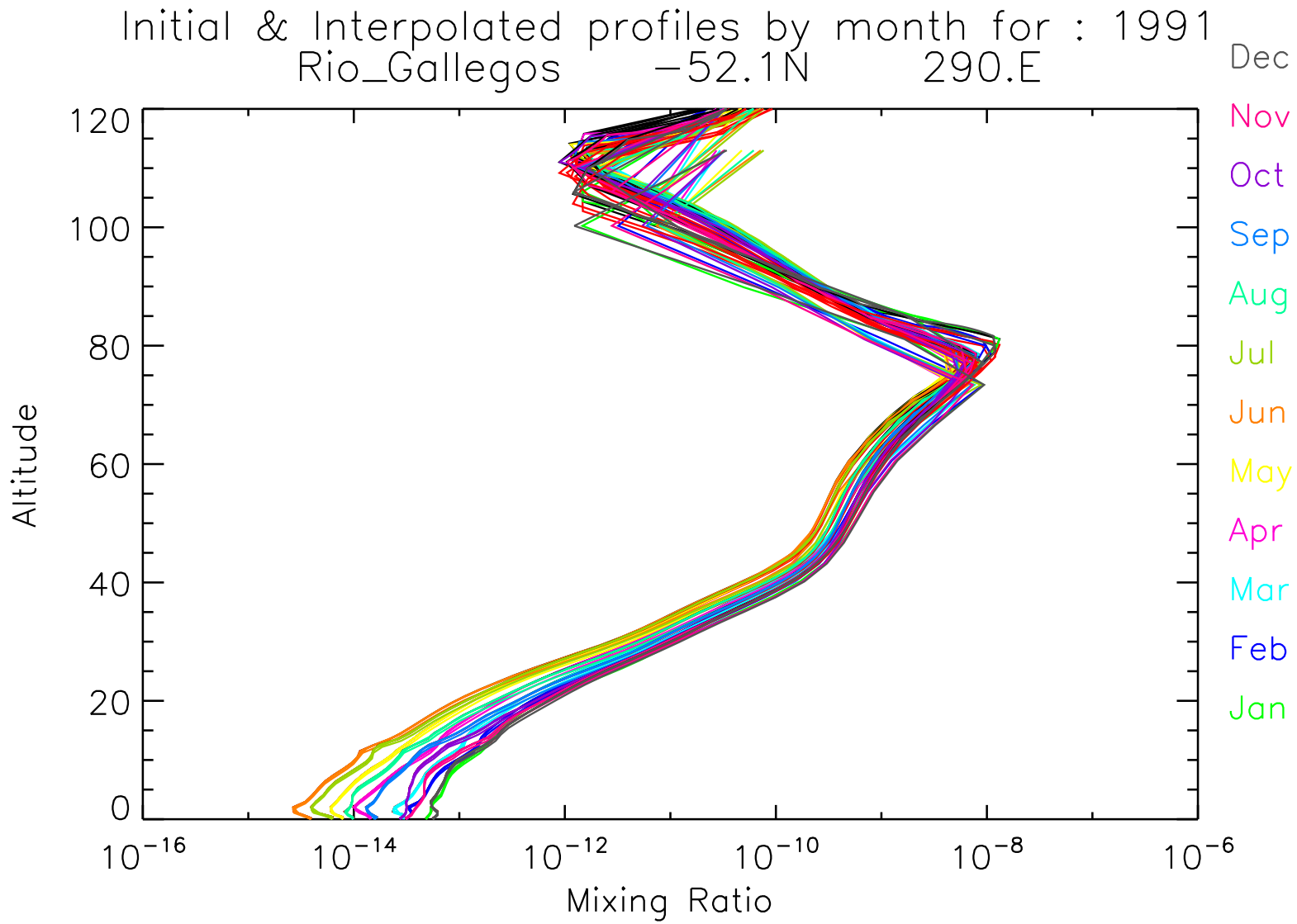
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Rio_Gallegos −52.1N 290.E
Dec
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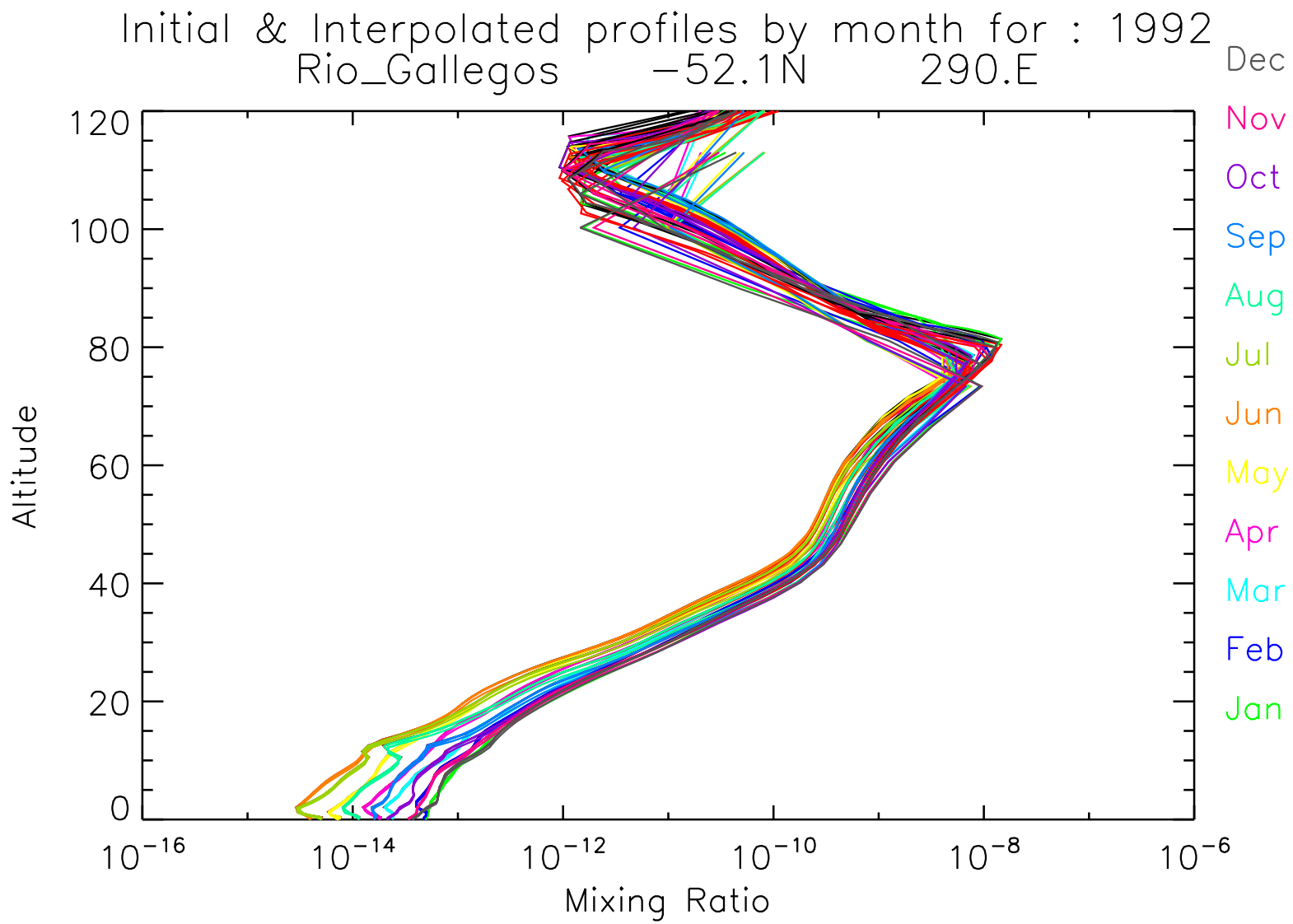
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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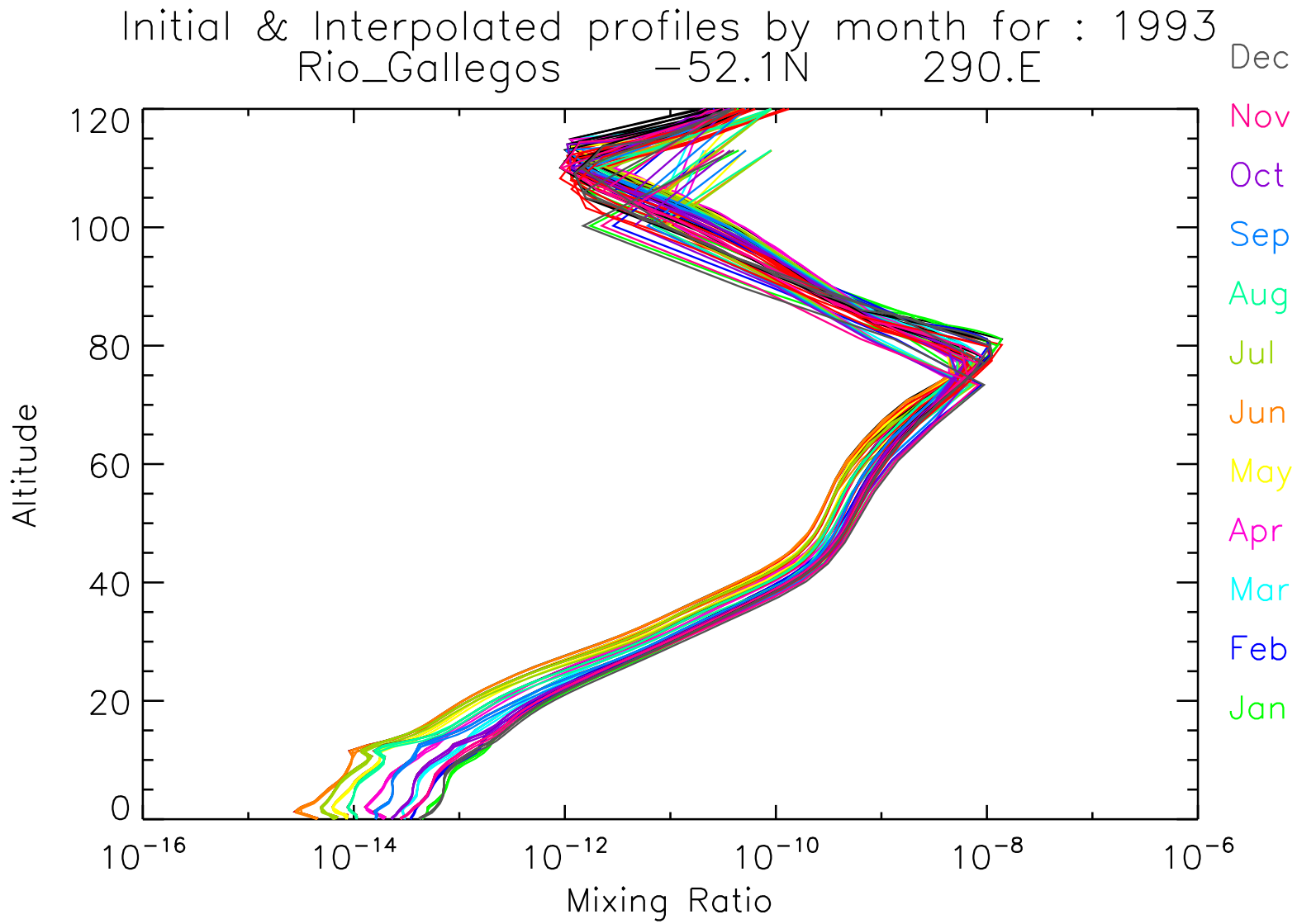
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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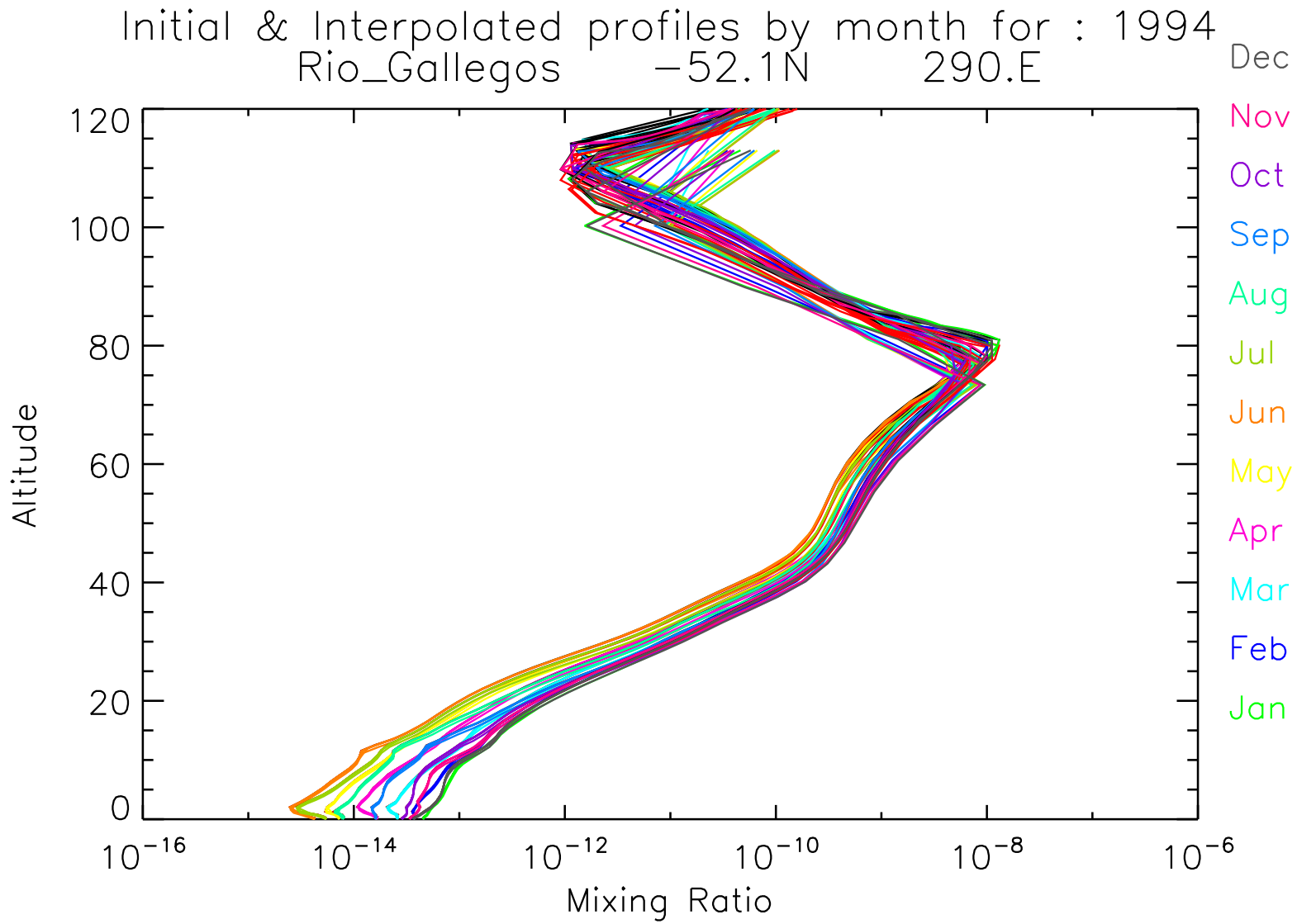
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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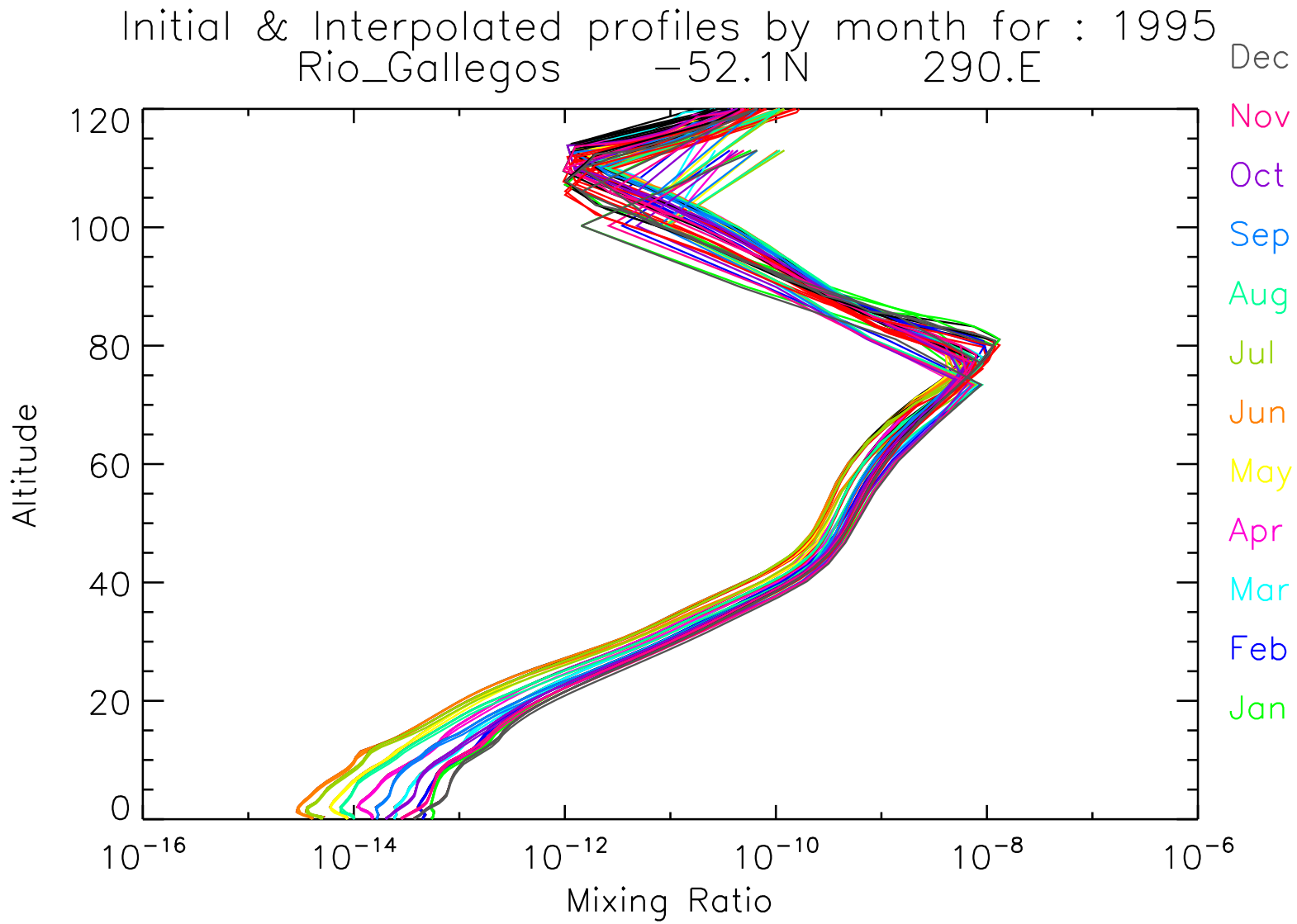
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Rio_Gallegos −52.1N 290.E
Altitude
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10^{-6}
Mixing Ratio
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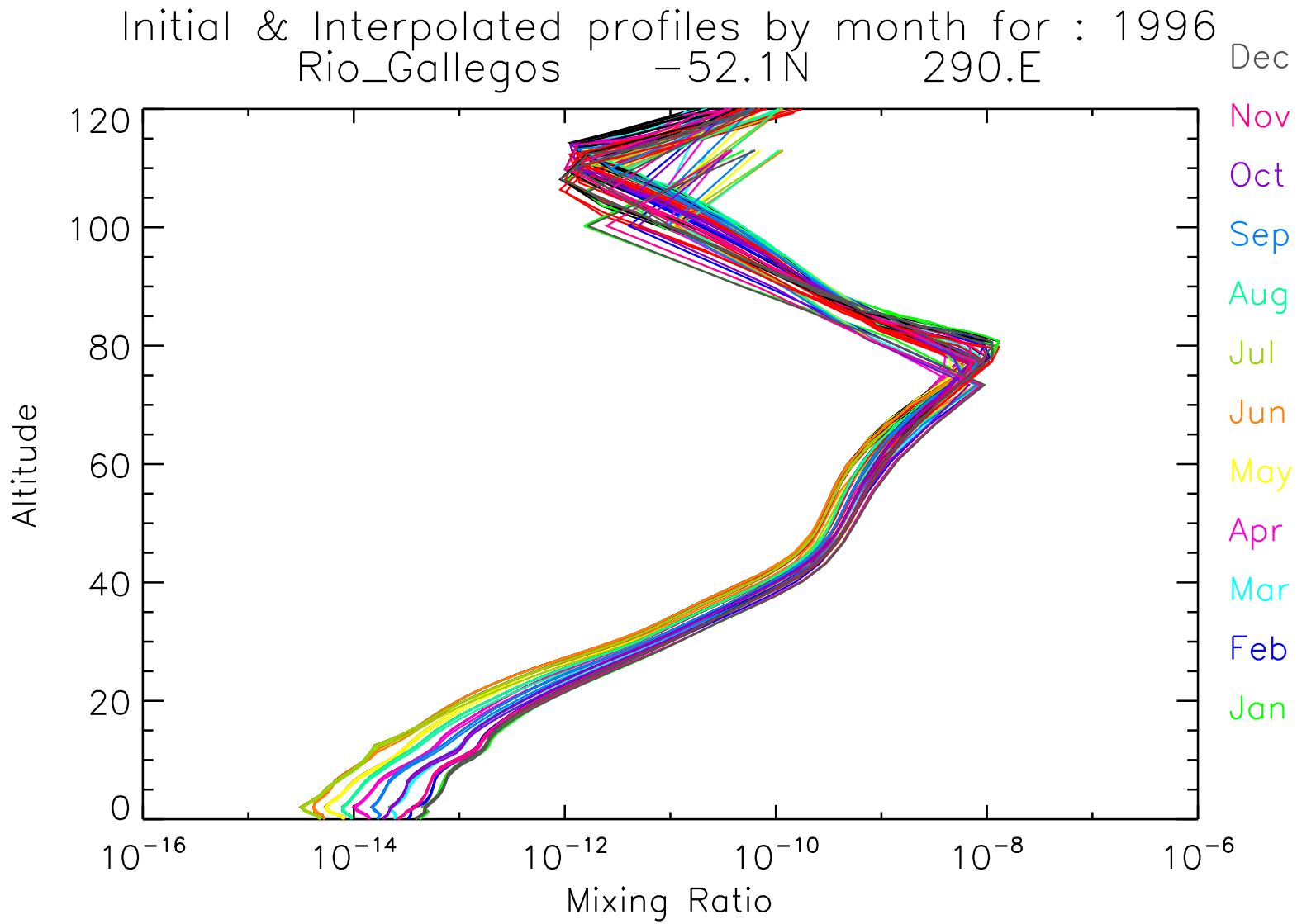
Initial & Interpolated profiles by month for : 1996
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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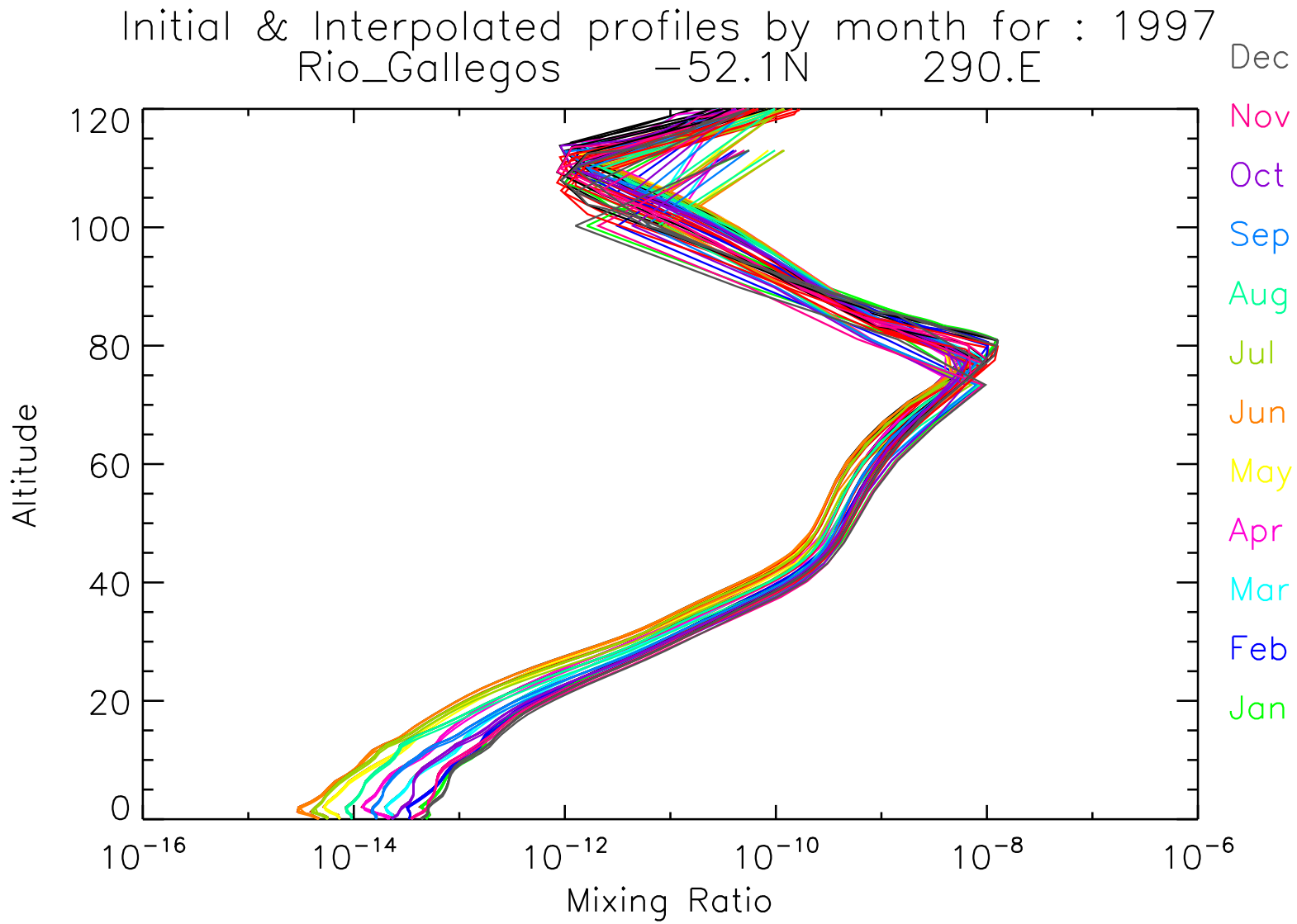
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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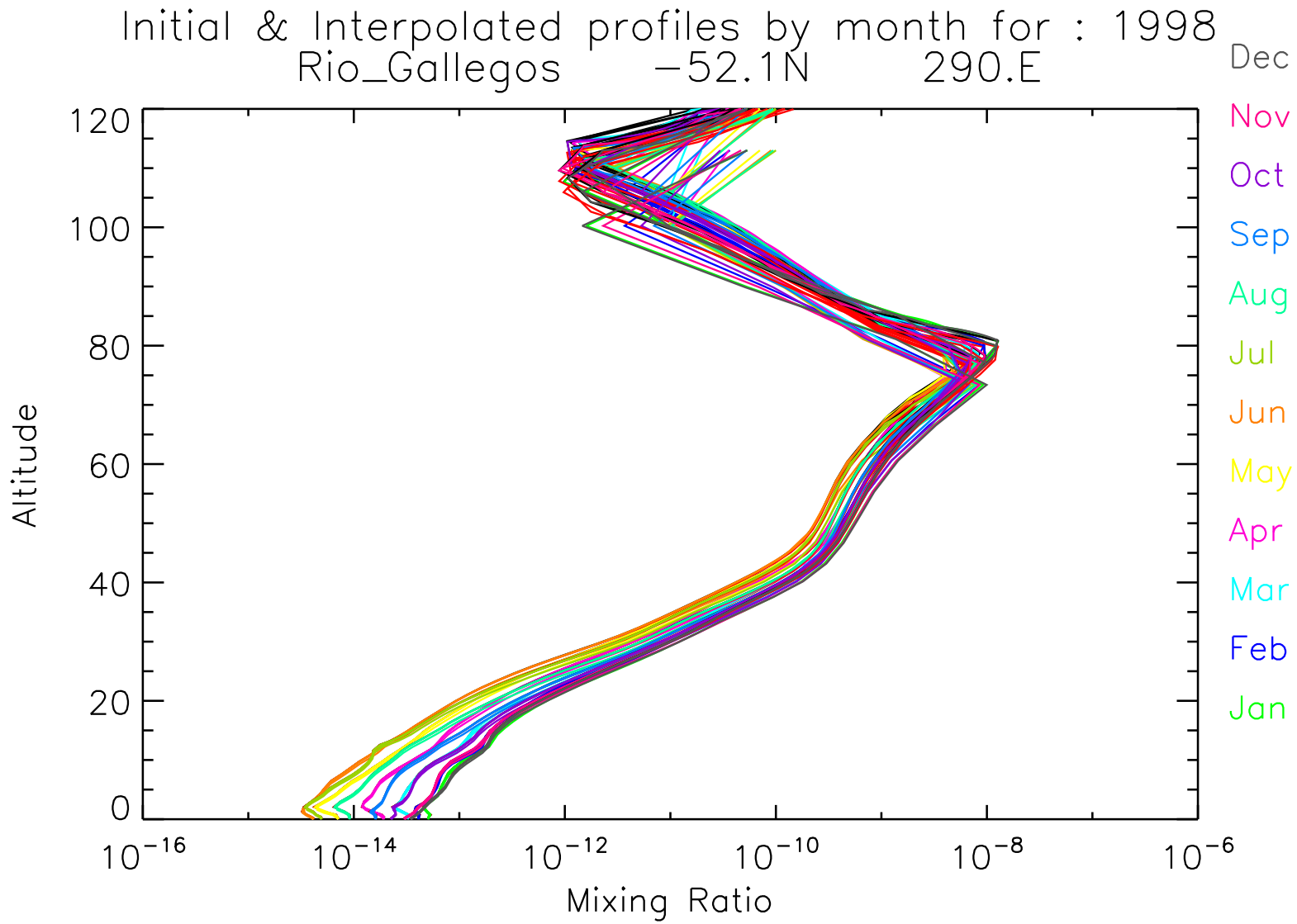
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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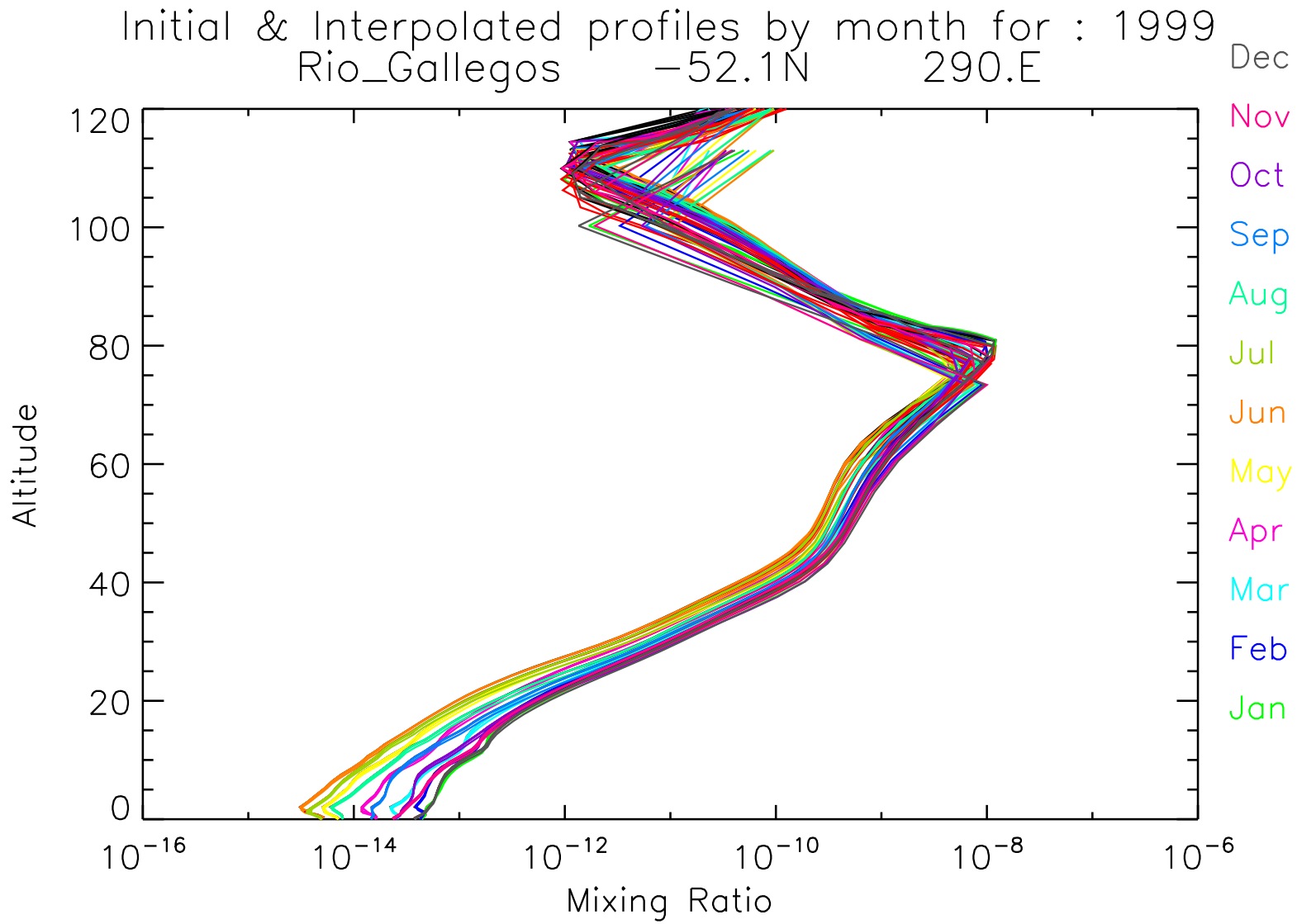
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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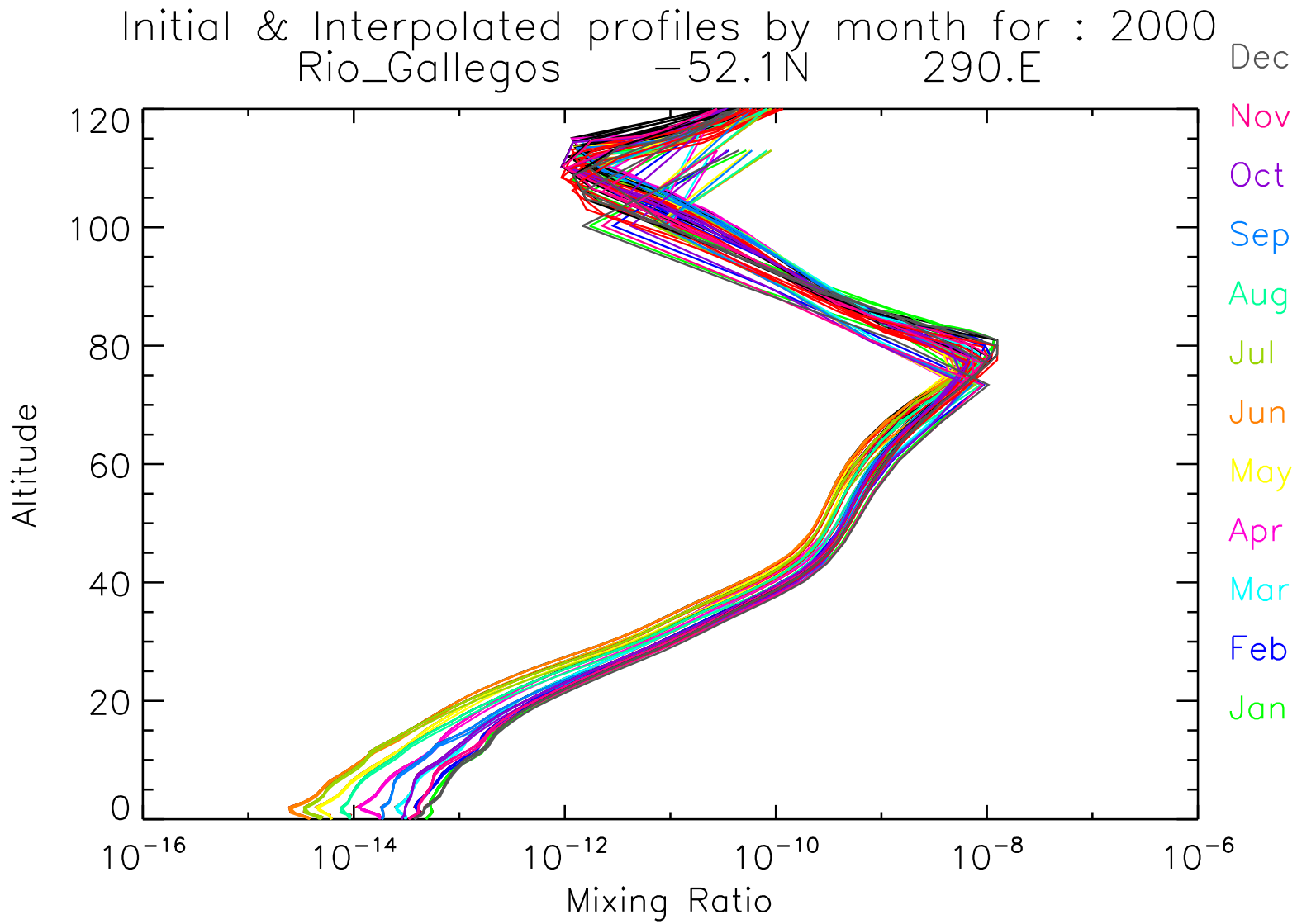
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Rio_Gallegos −52.1N 290.E
Dec
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Jan
120
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Altitude
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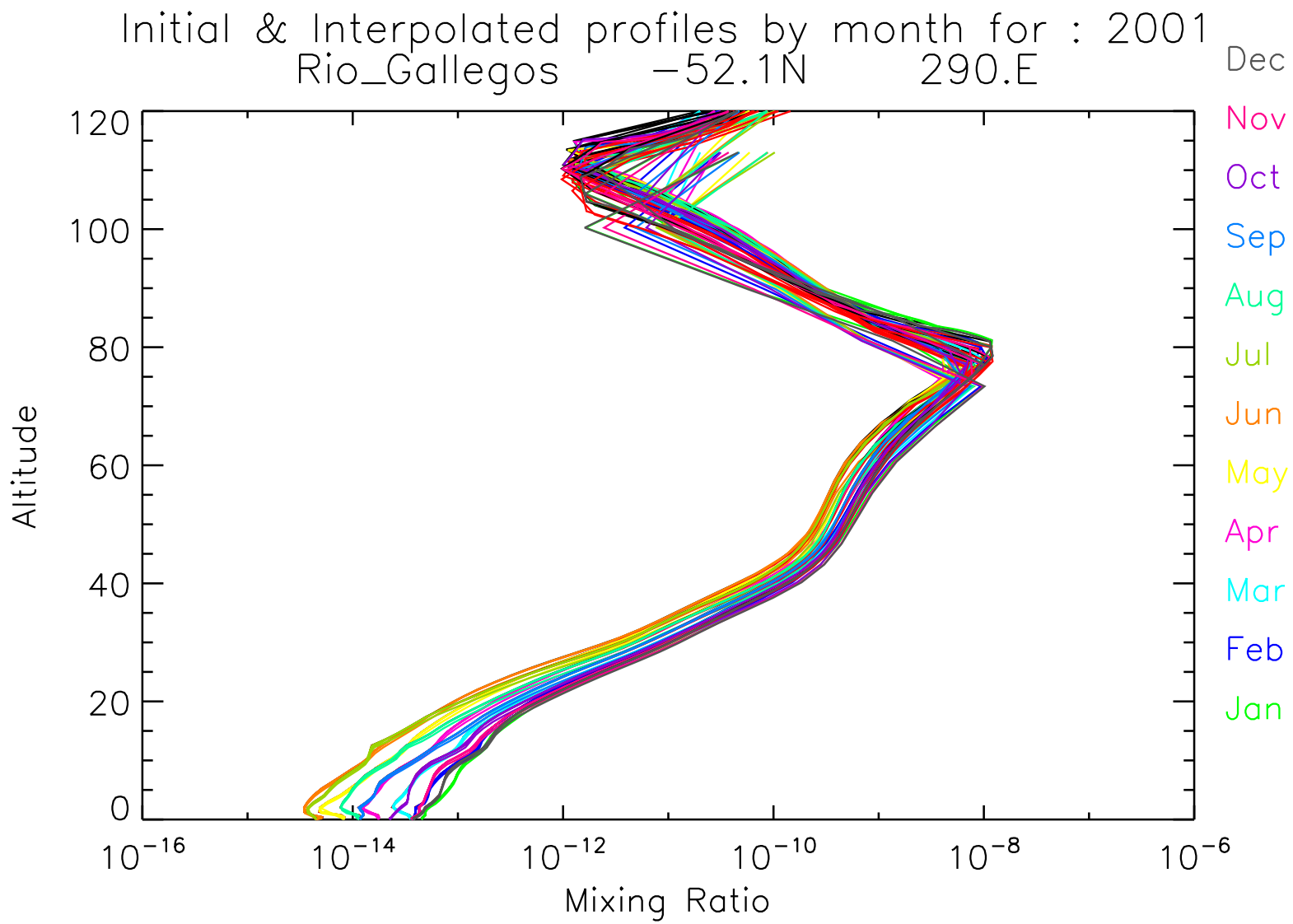
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Rio_Gallegos −52.1N 290.E
Dec
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Jan
Altitude
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10^{-16}
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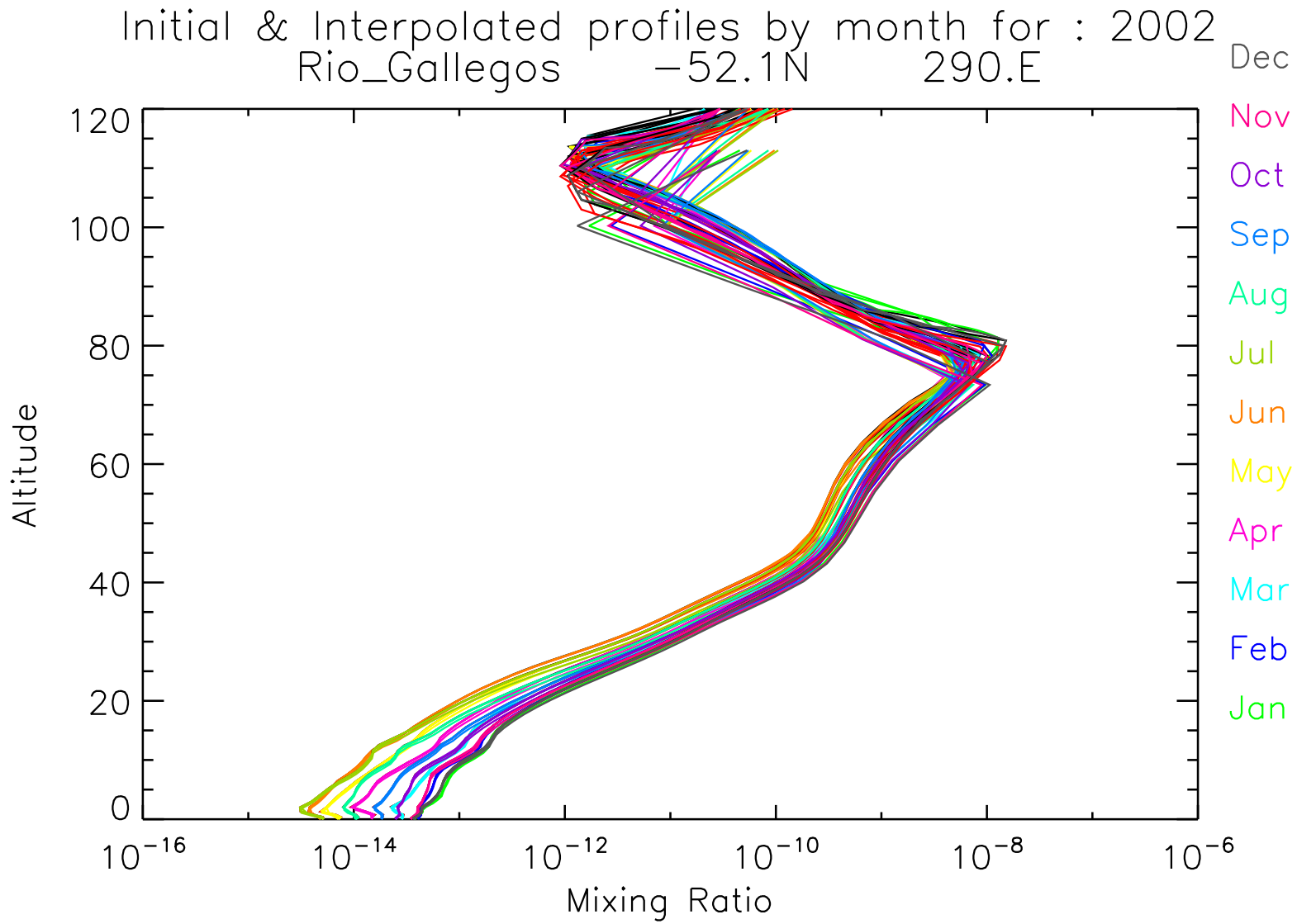
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Rio_Gallegos −52.1N 290.E
Dec
Nov
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May
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Feb
Jan
Altitude
120
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10^{-16}
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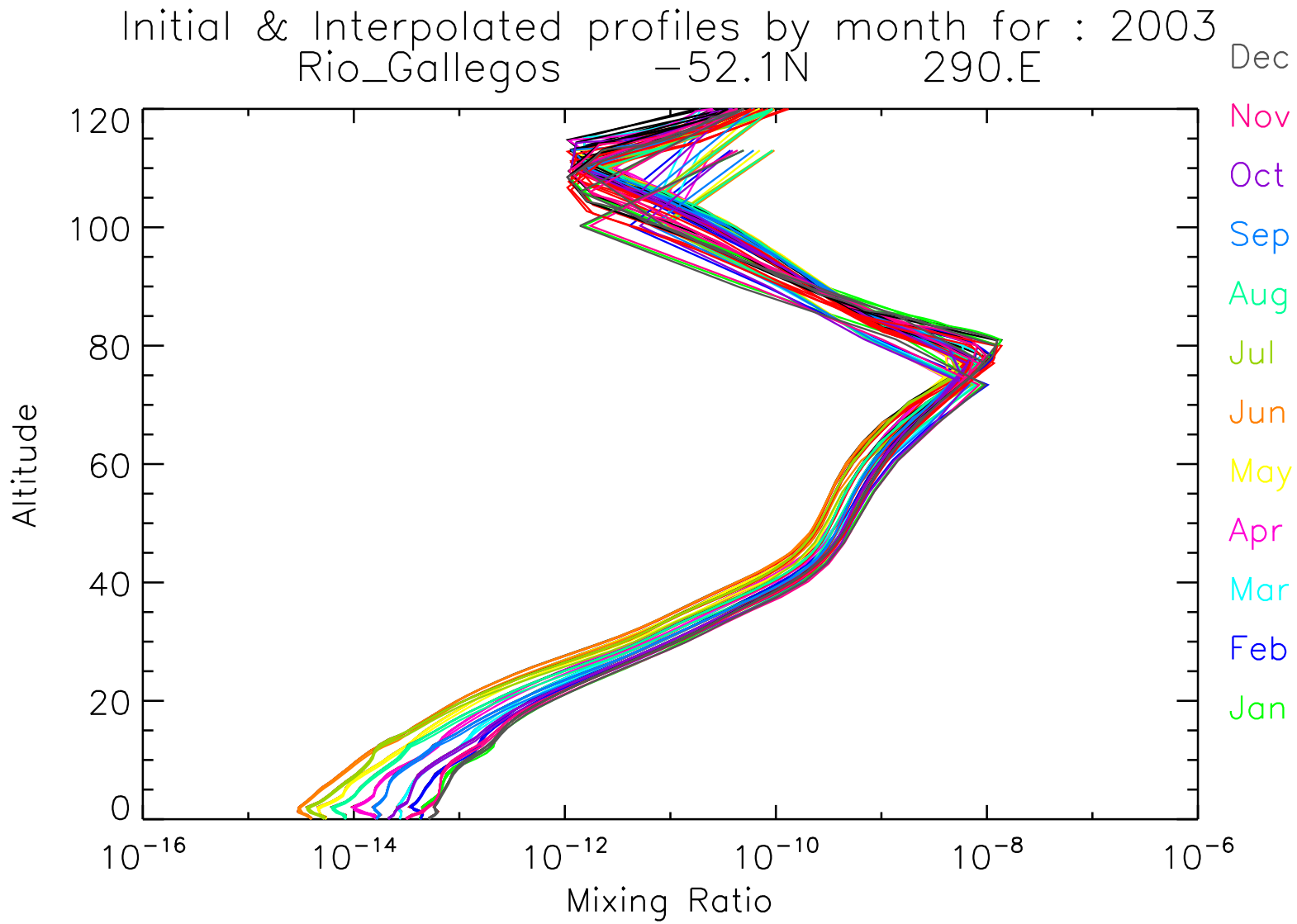
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Rio_Gallegos −52.1N 290.E
Altitude
120
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10^{-16}
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10^{-12}
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10^{-6}
Mixing Ratio
Dec
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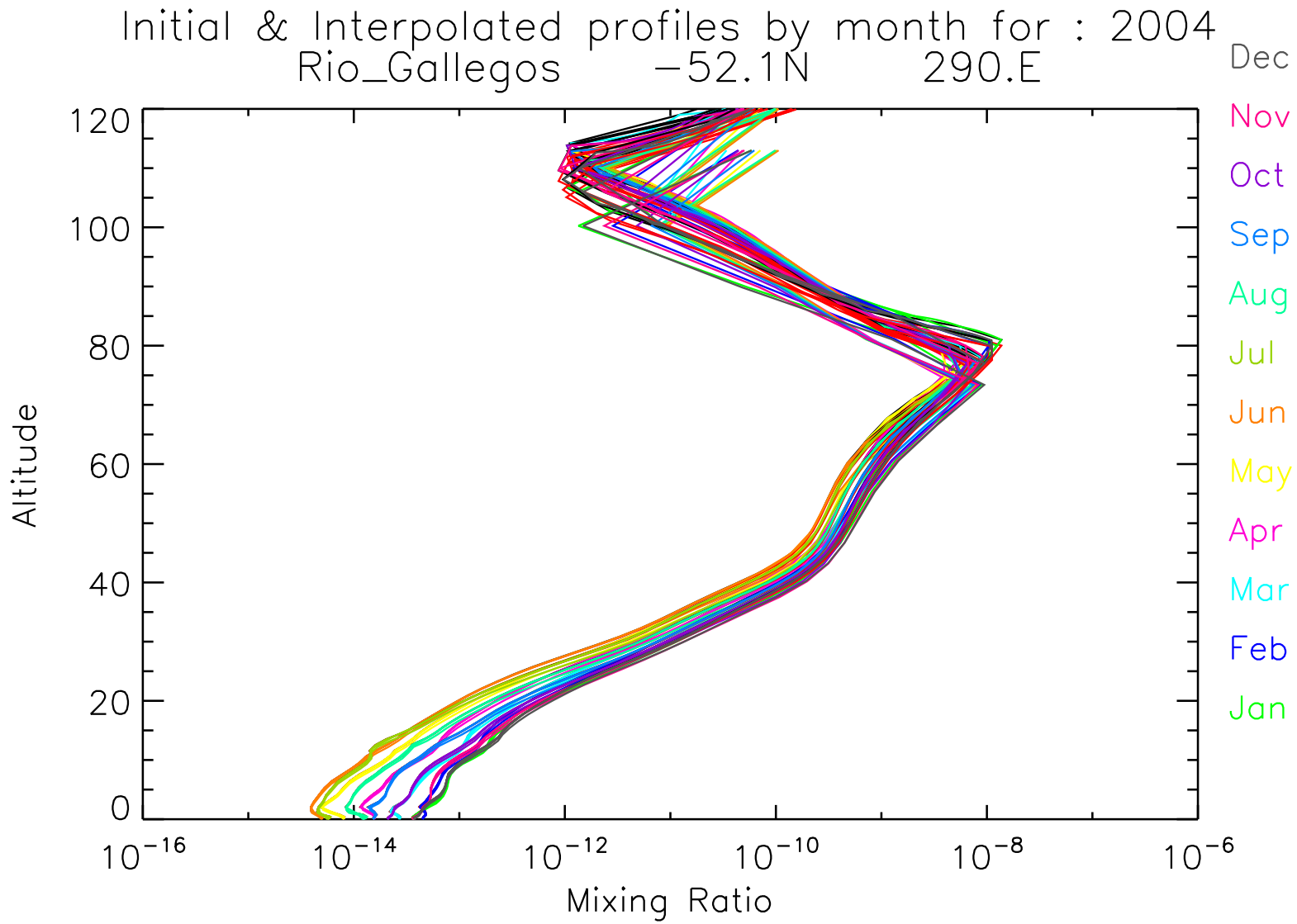
Initial & Interpolated profiles by month for : 2004
Rio_Gallegos −52.1N 290.E
Dec
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120
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Altitude
10^{-16}
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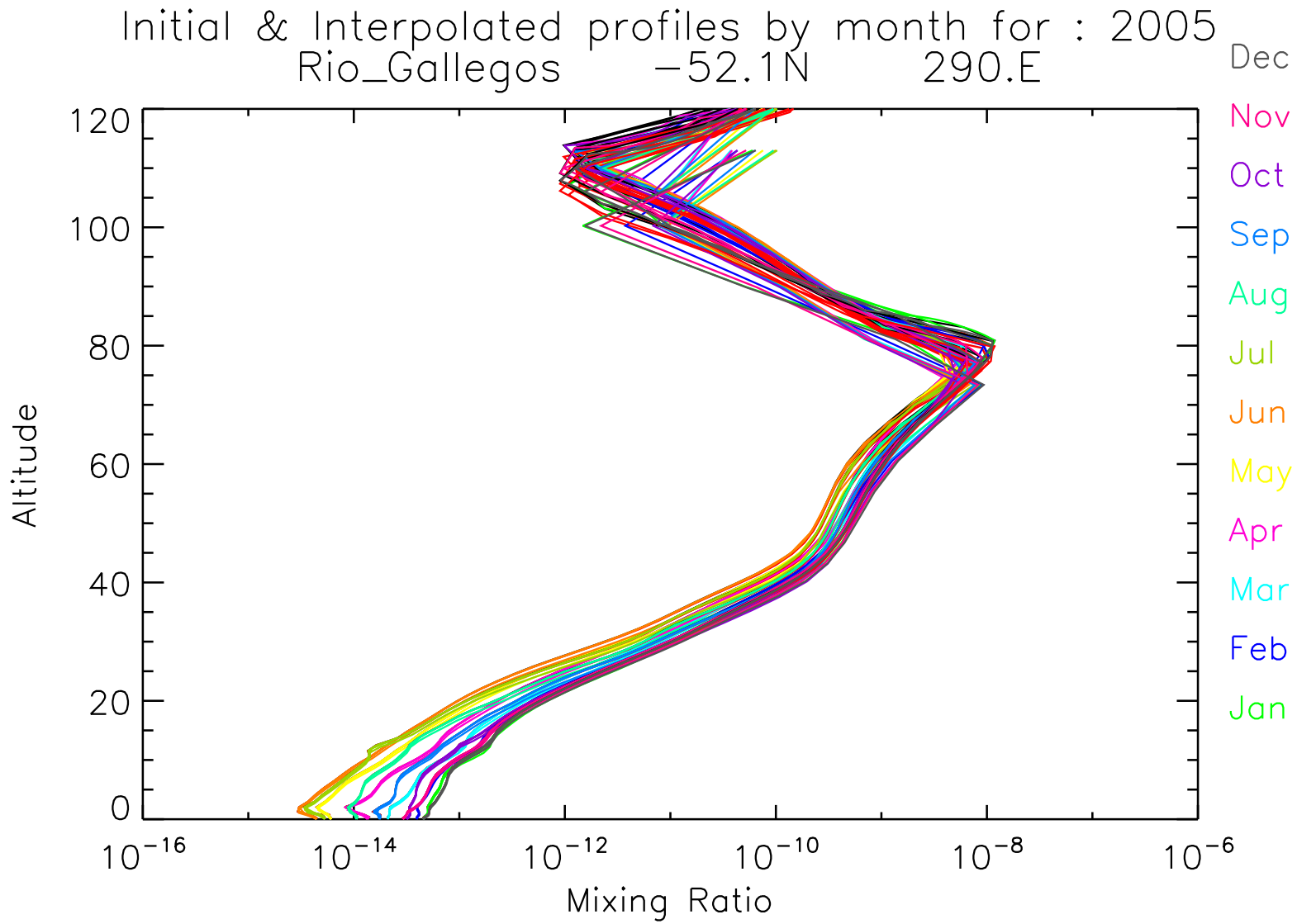
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Rio_Gallegos −52.1N 290.E
Dec
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120
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Altitude
10^{-16}
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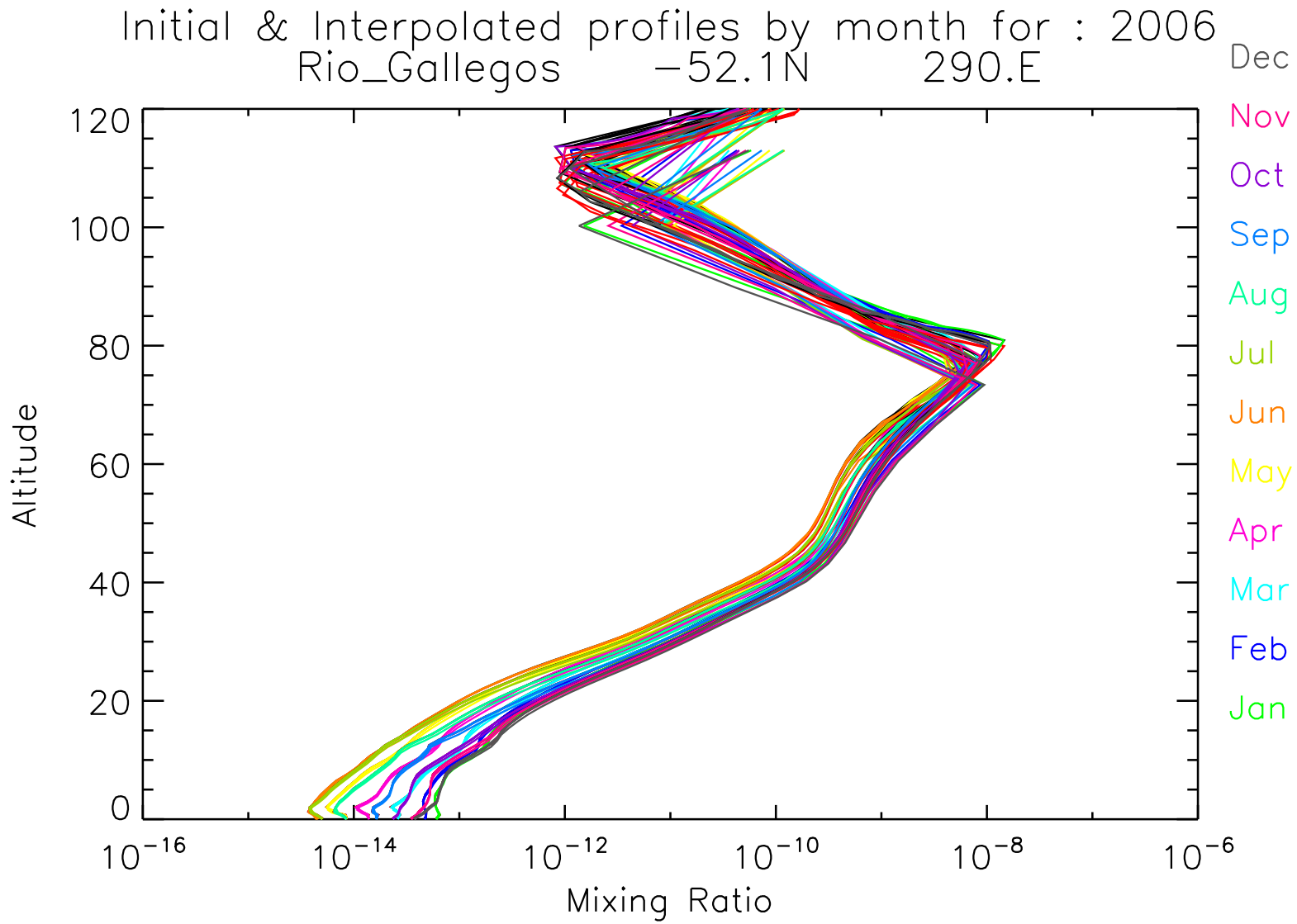
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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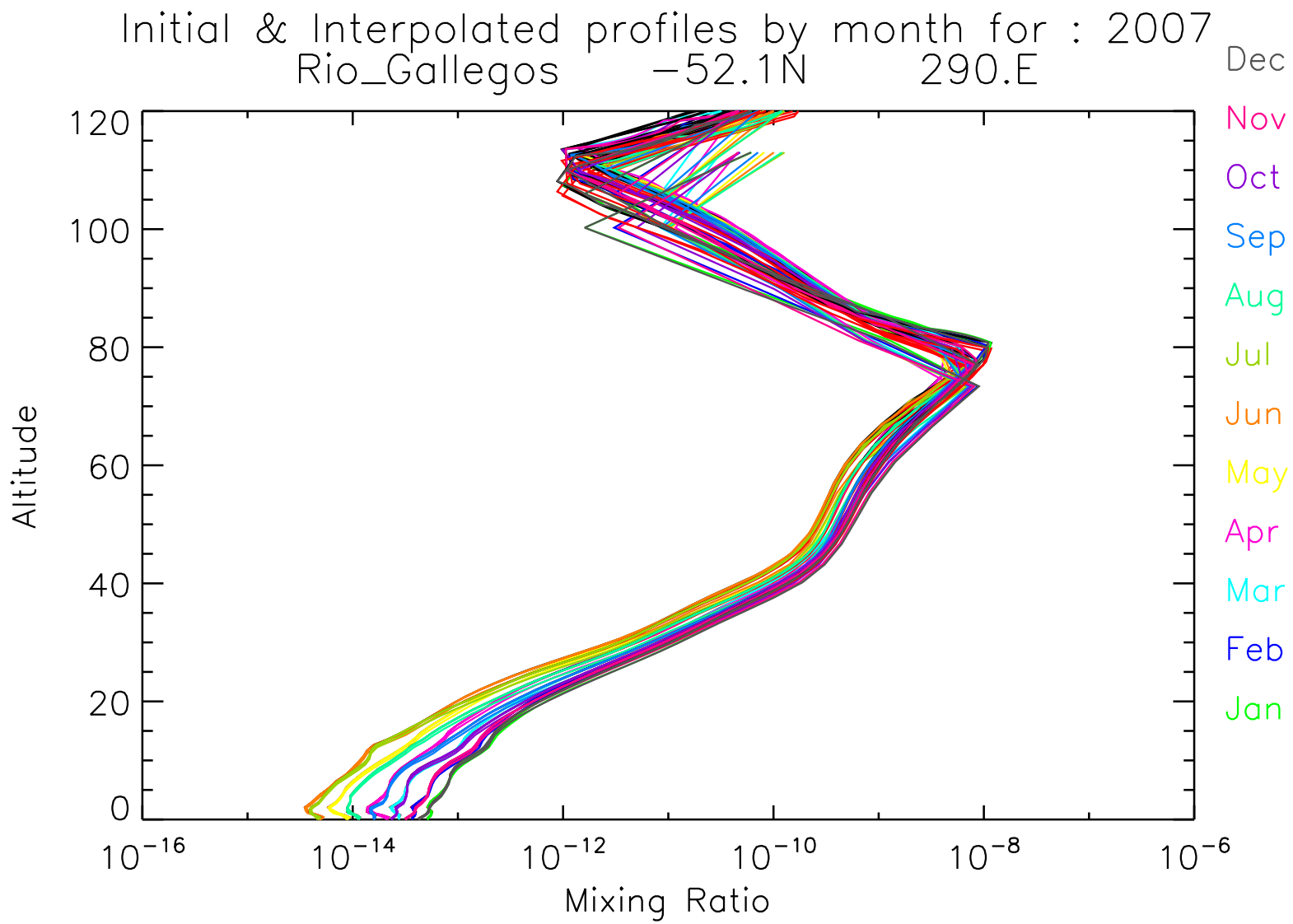
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Rio_Gallegos −52.1N 290.E
Dec
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Jan
120
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Altitude
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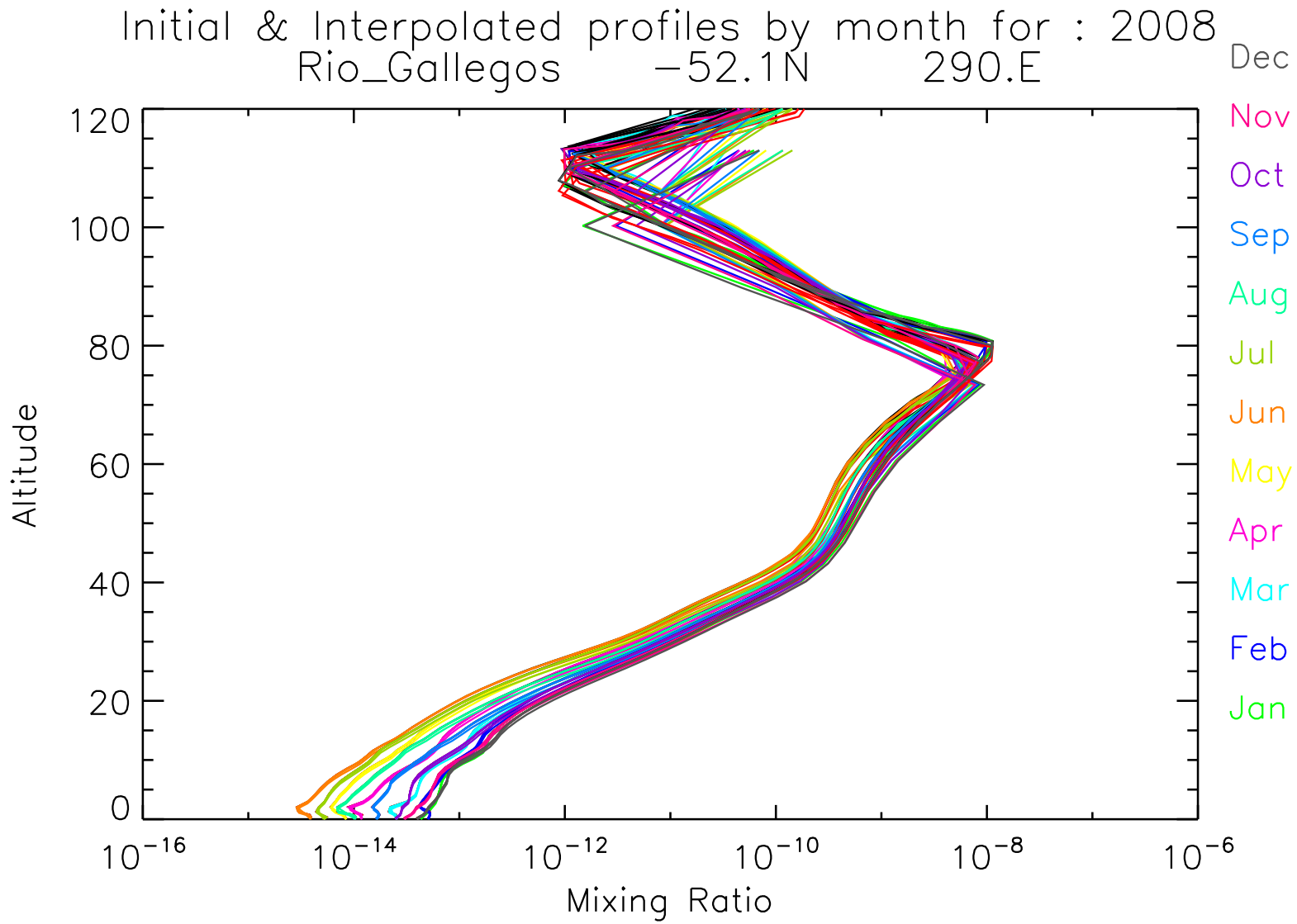
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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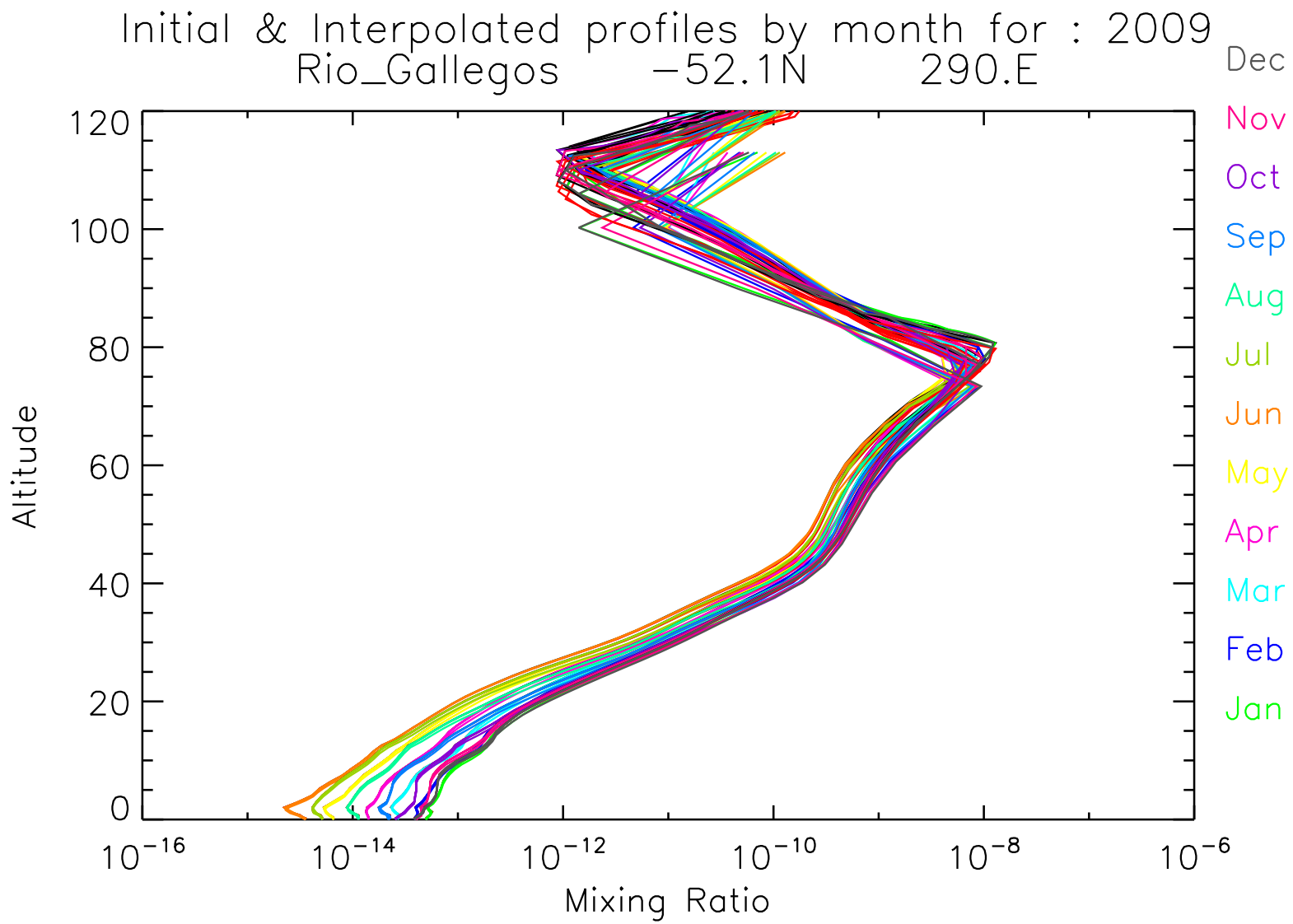
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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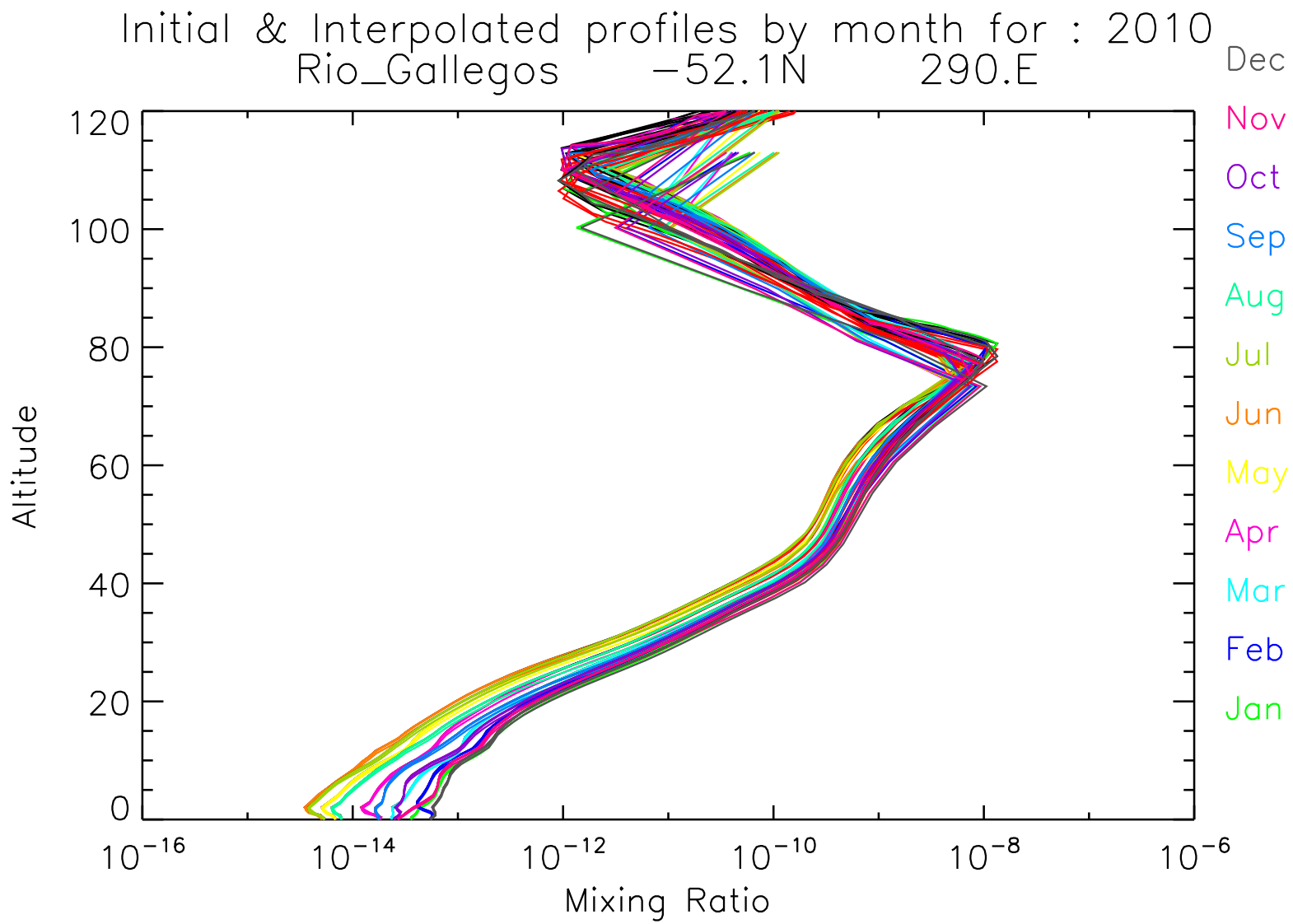
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Rio_Gallegos −52.1N 290.E
Dec
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Feb
Jan
Altitude
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10^{-16}
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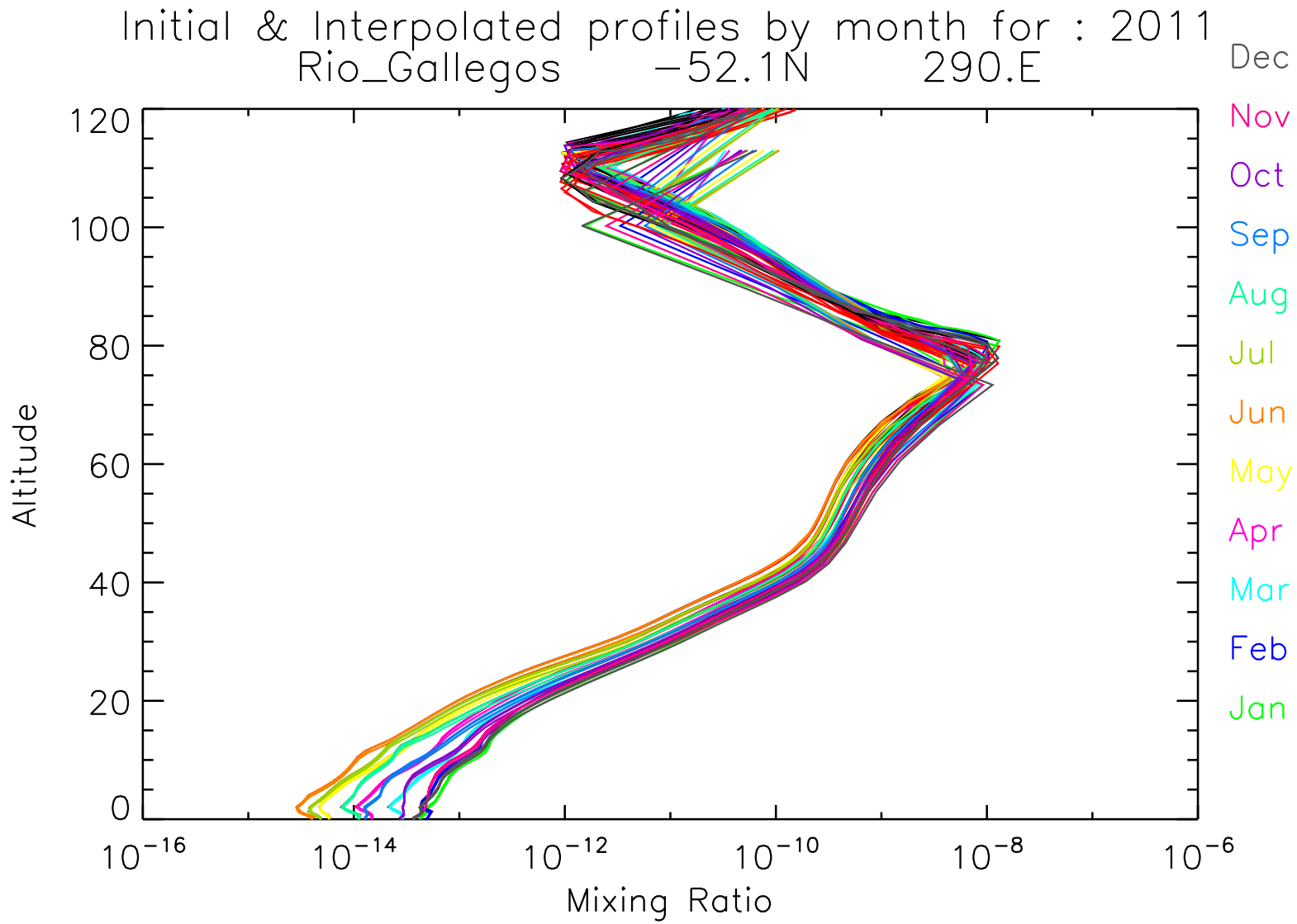
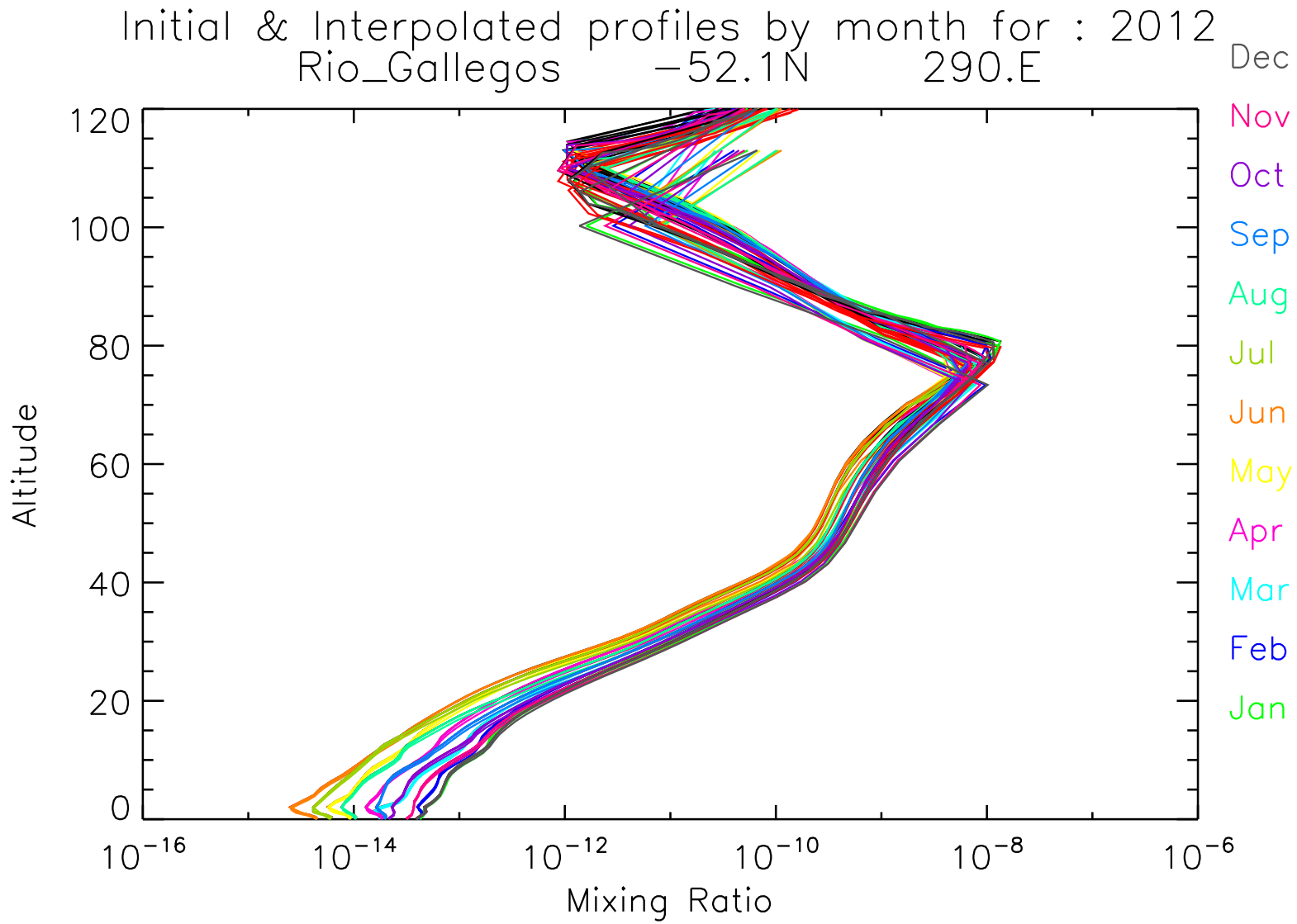
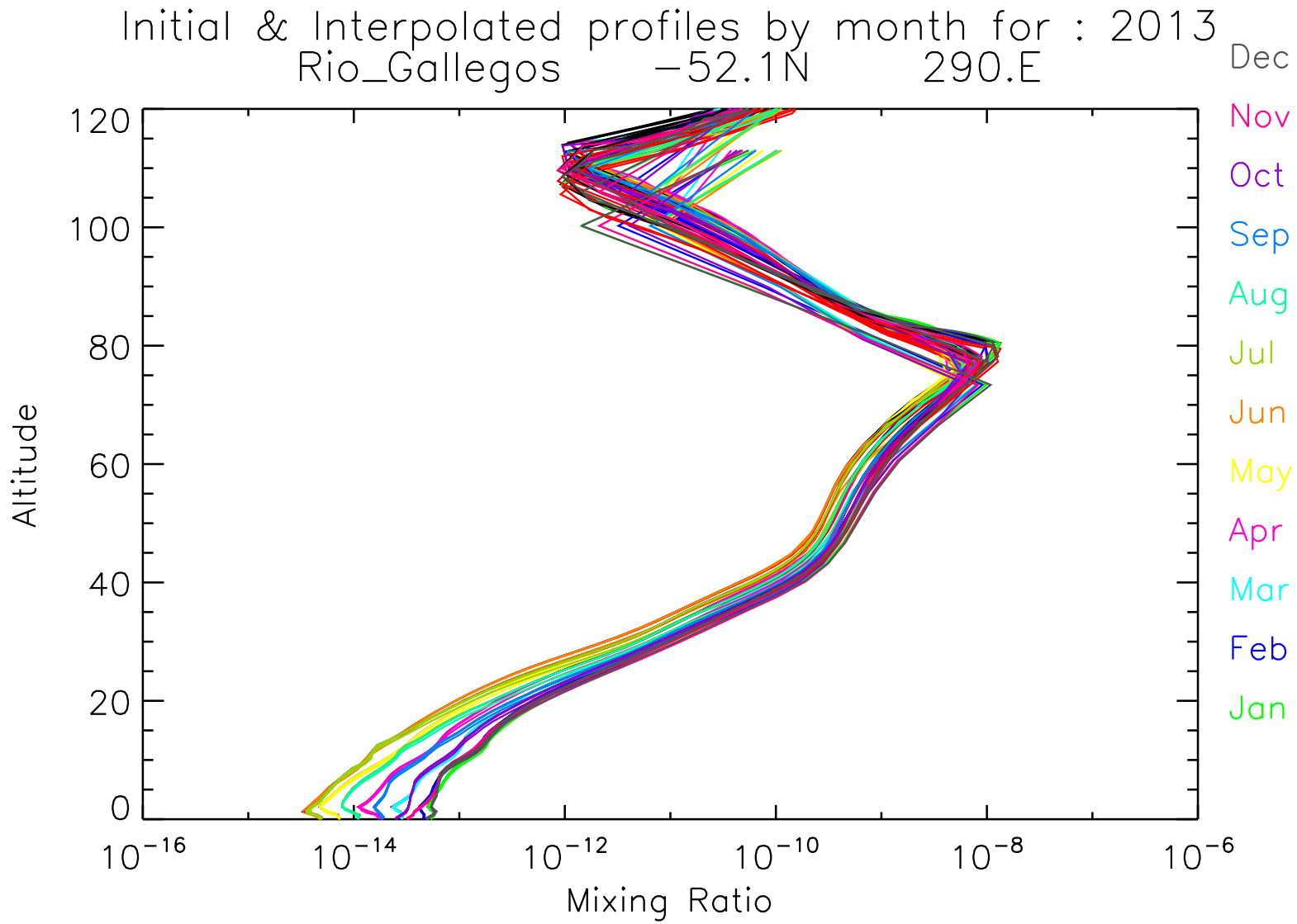
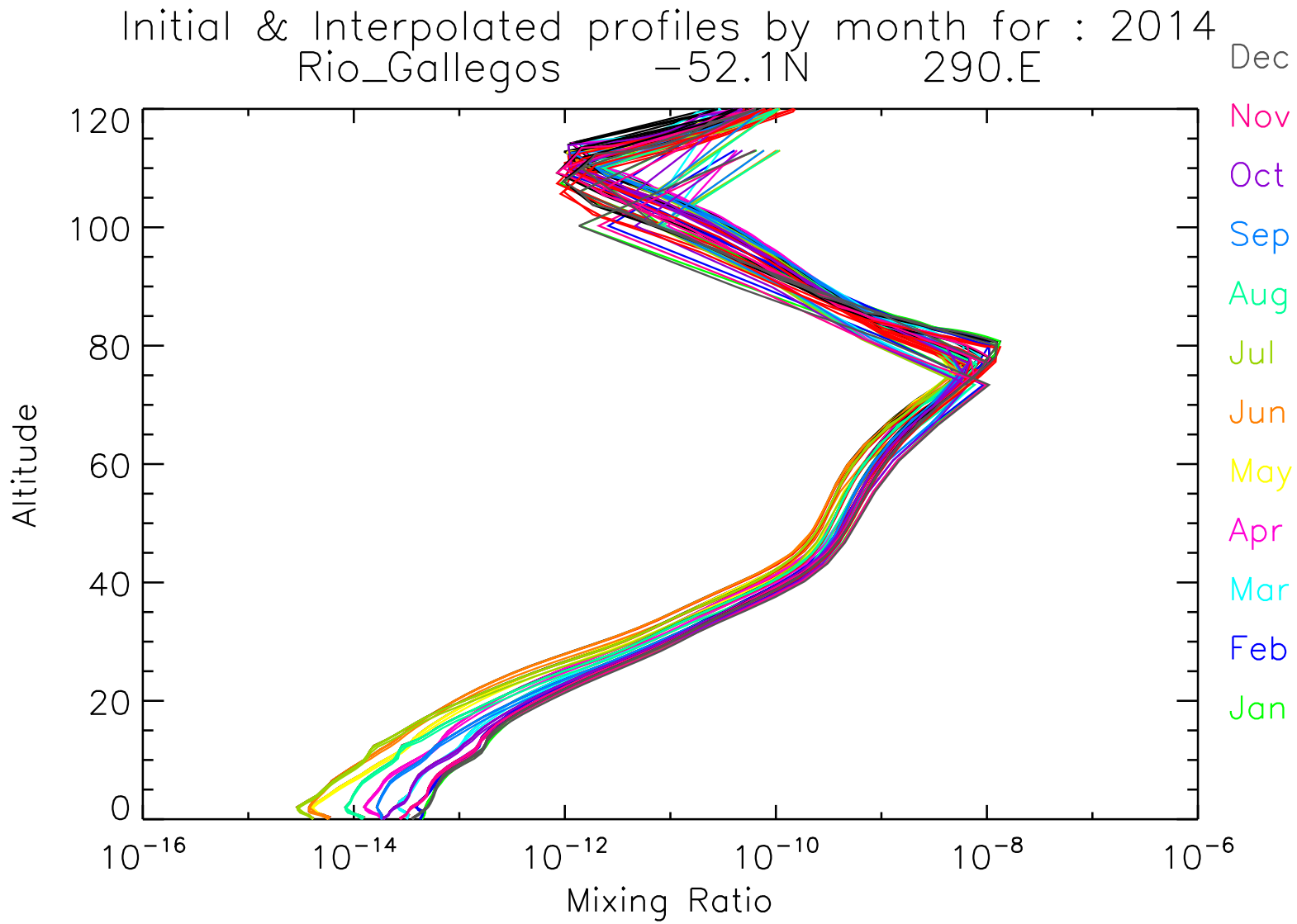
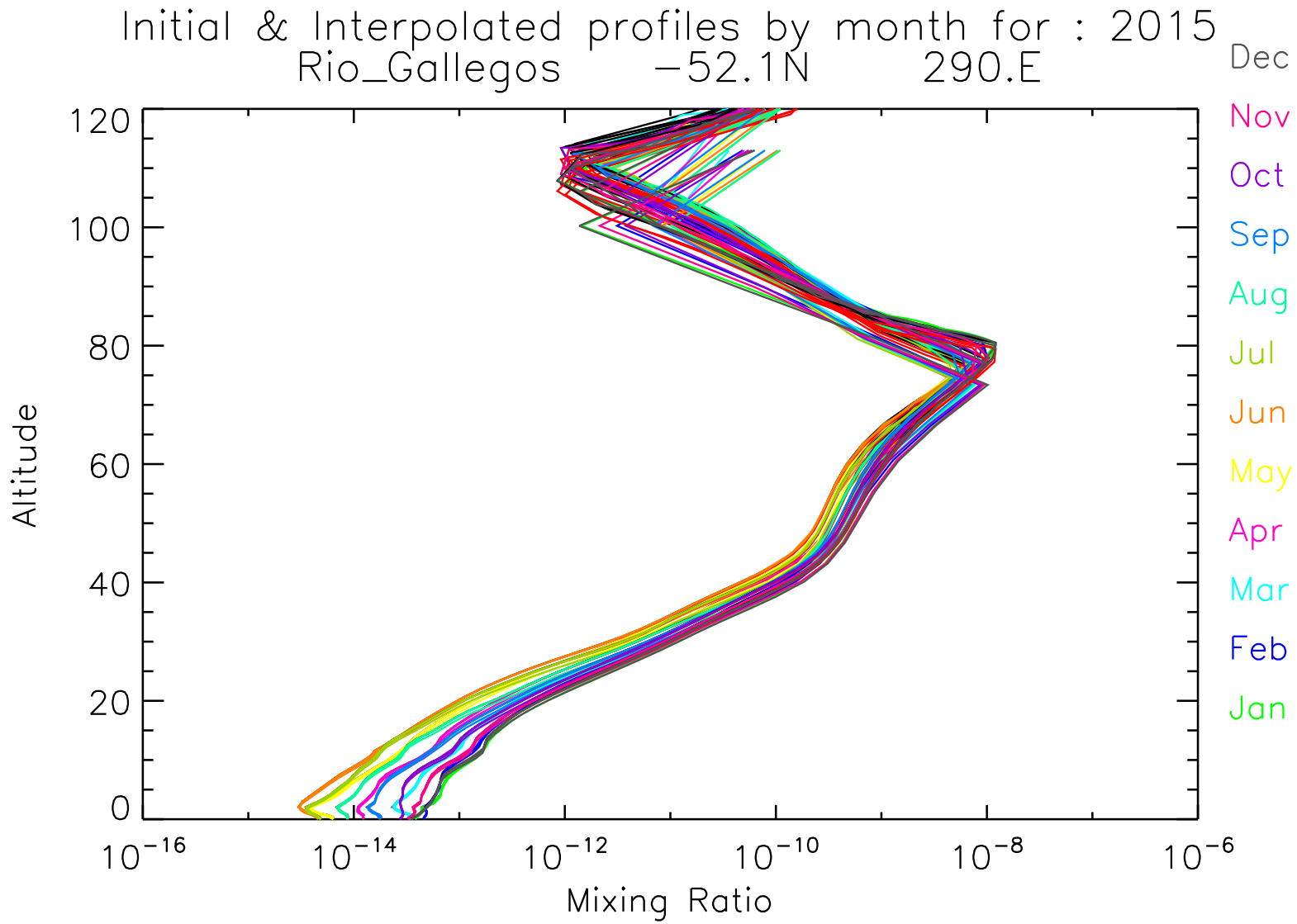
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

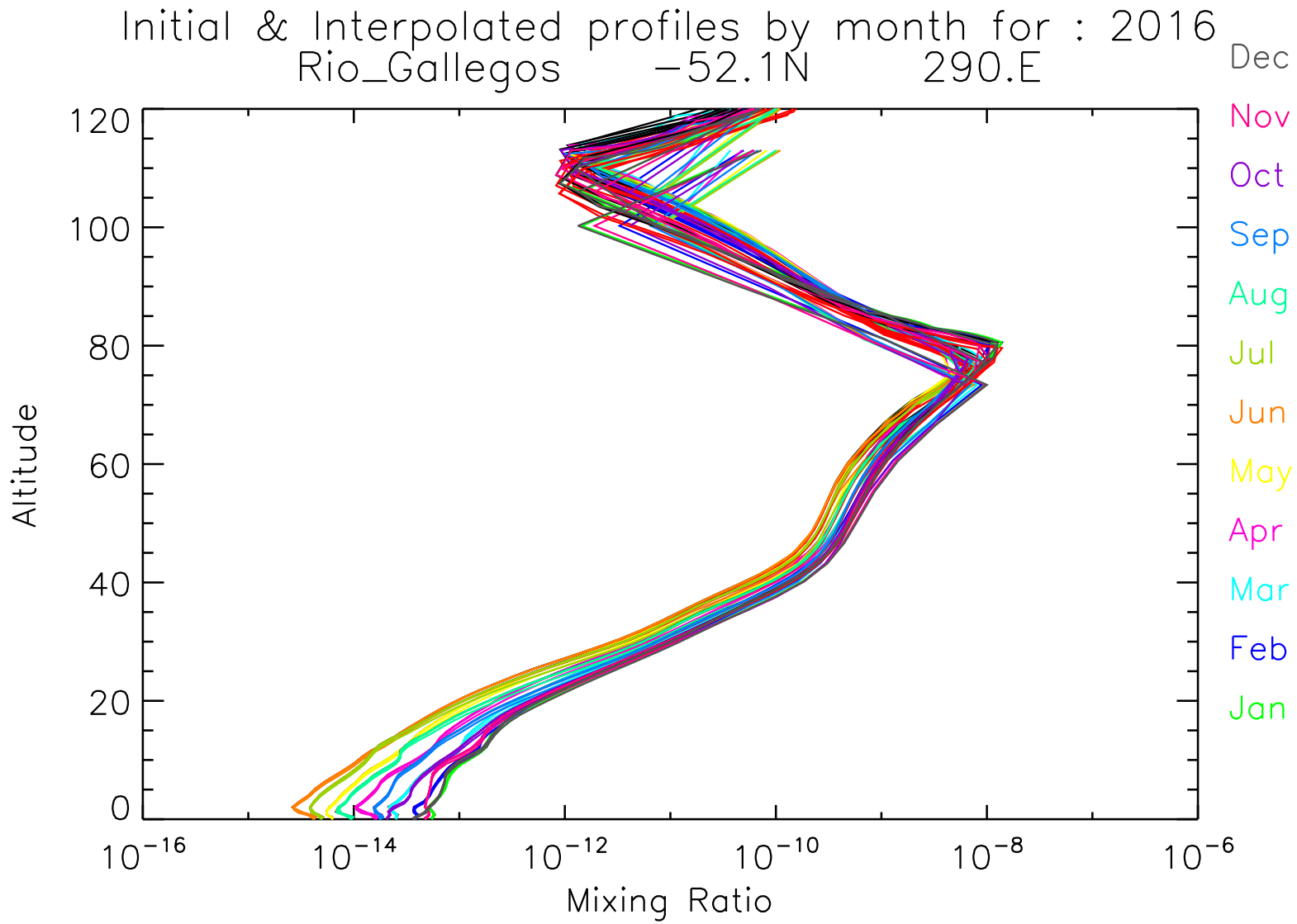

Initial & Interpolated profiles by month for : 2011
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

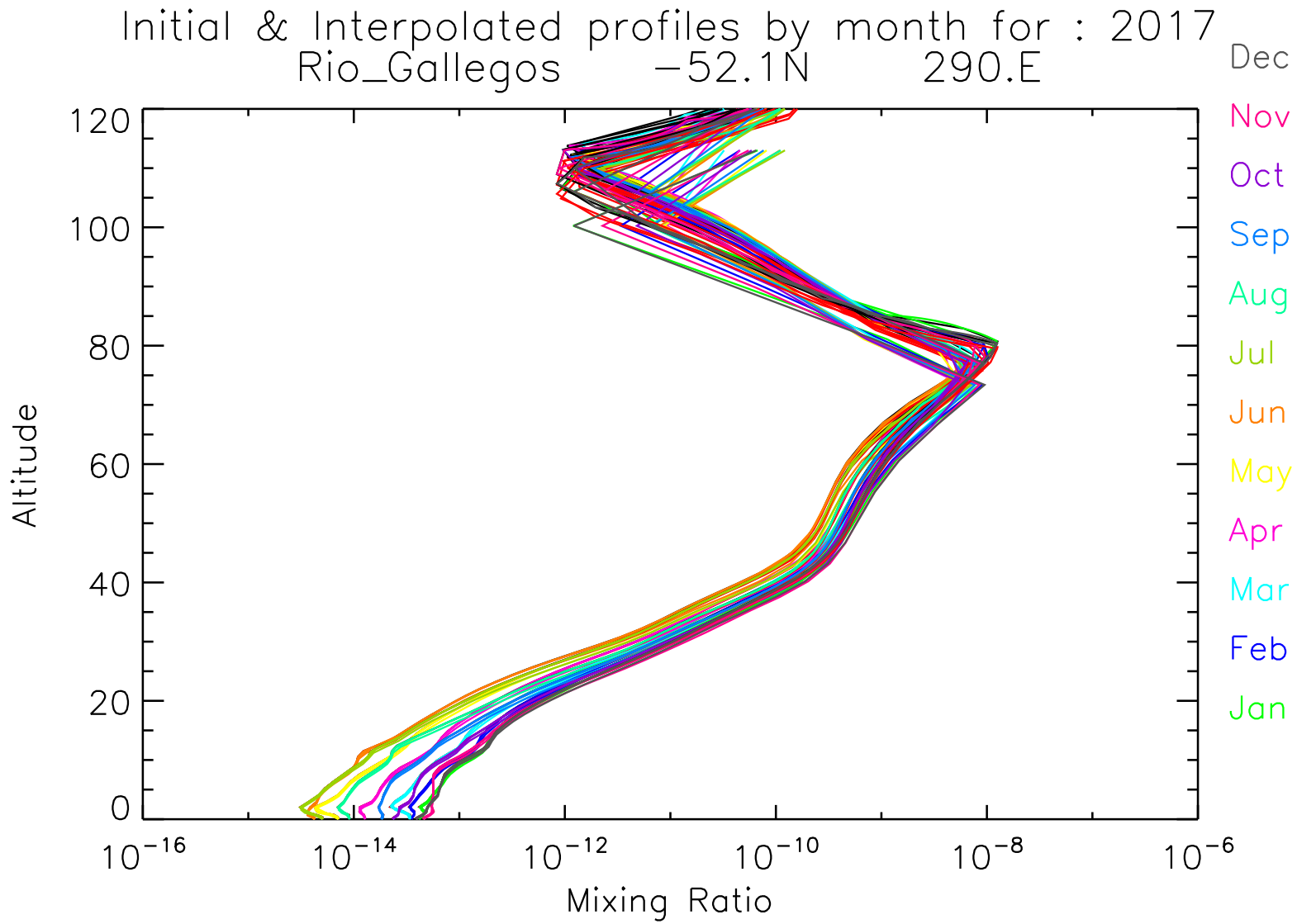

Initial & Interpolated profiles by month for : 2012
Rio_Gallegos −52.1N 290.E
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

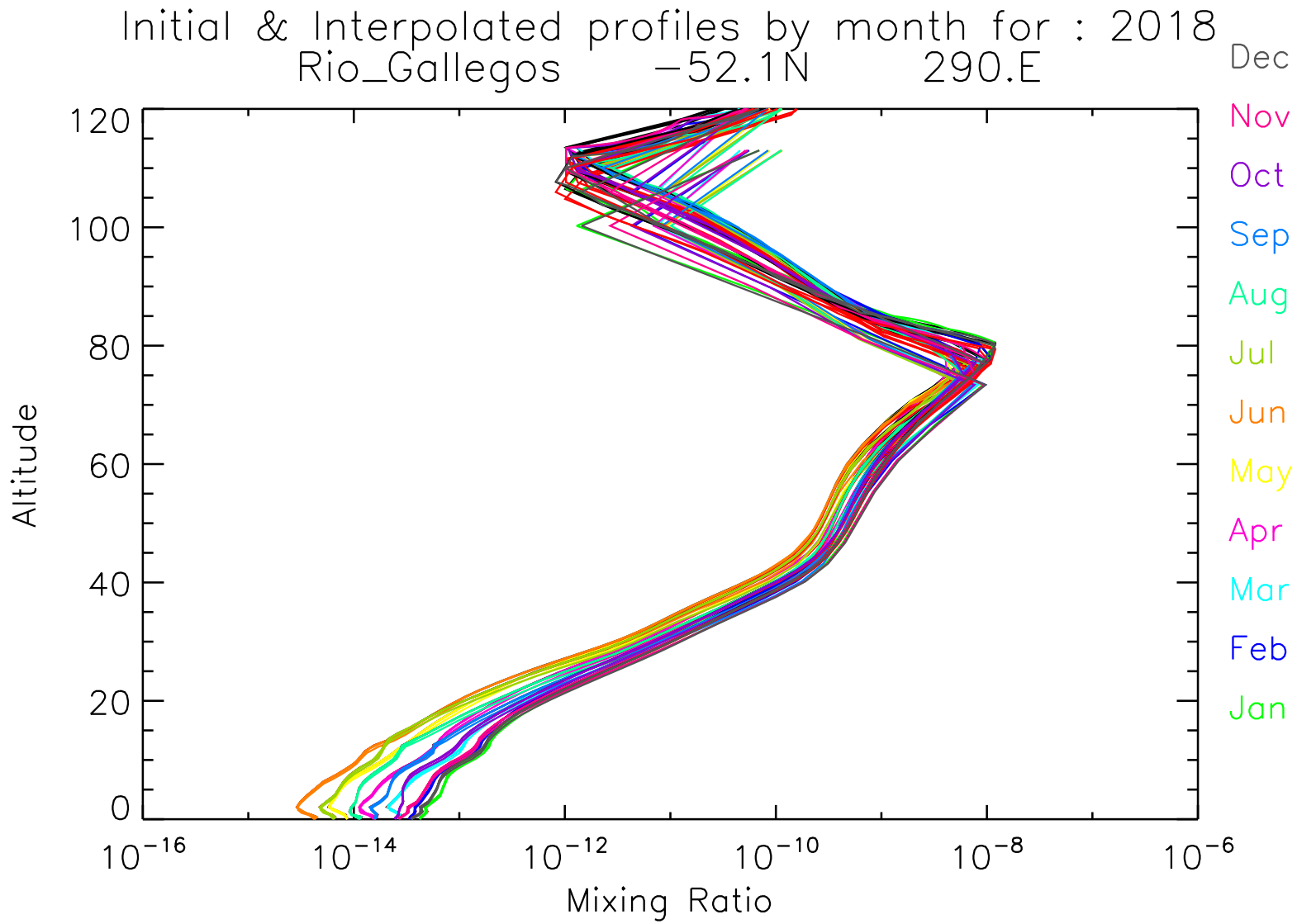

Initial & Interpolated profiles by month for : 2013
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

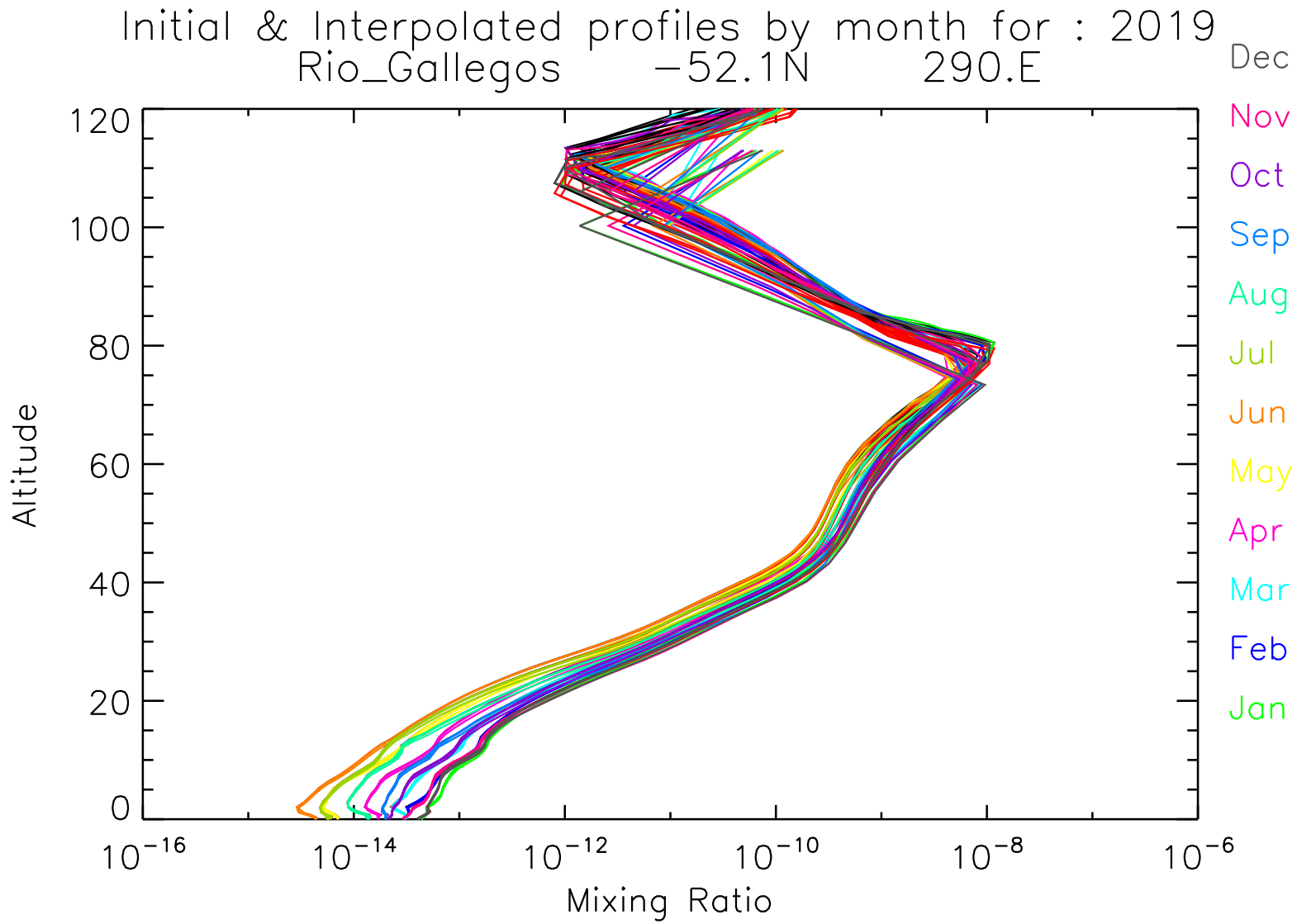

Initial & Interpolated profiles by month for : 2014
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

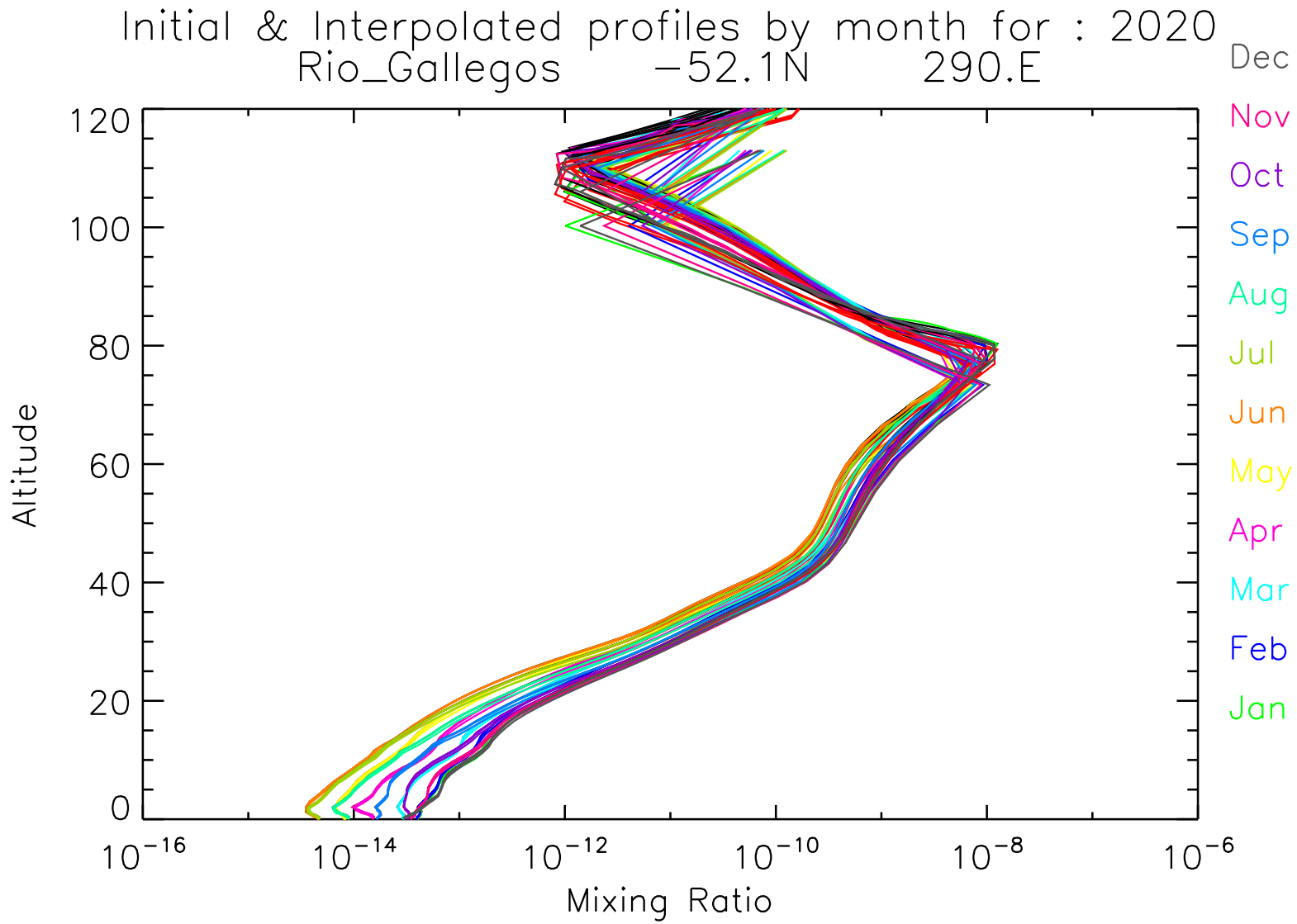

Initial & Interpolated profiles by month for : 2015
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

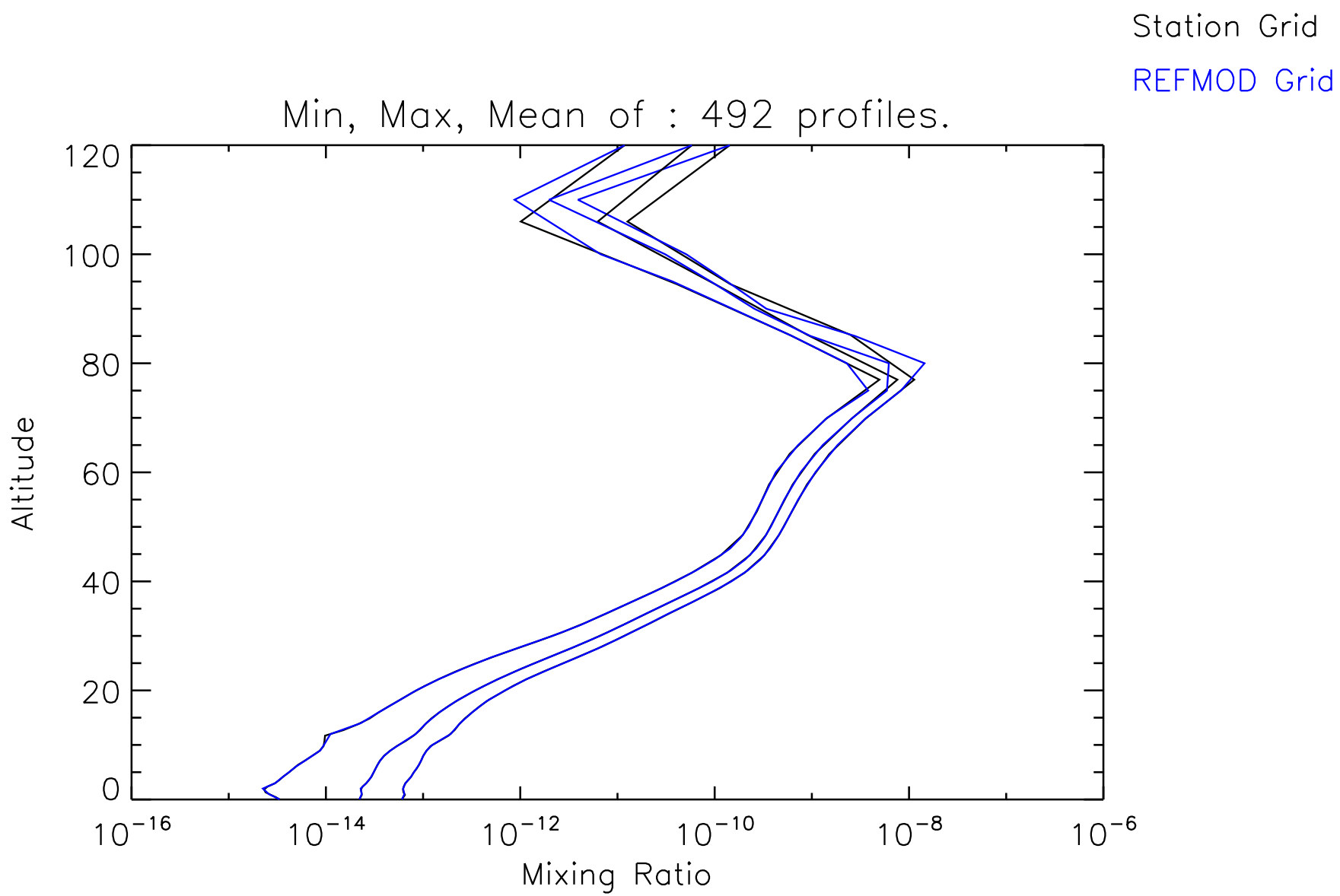

Initial & Interpolated profiles by month for : 2016
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

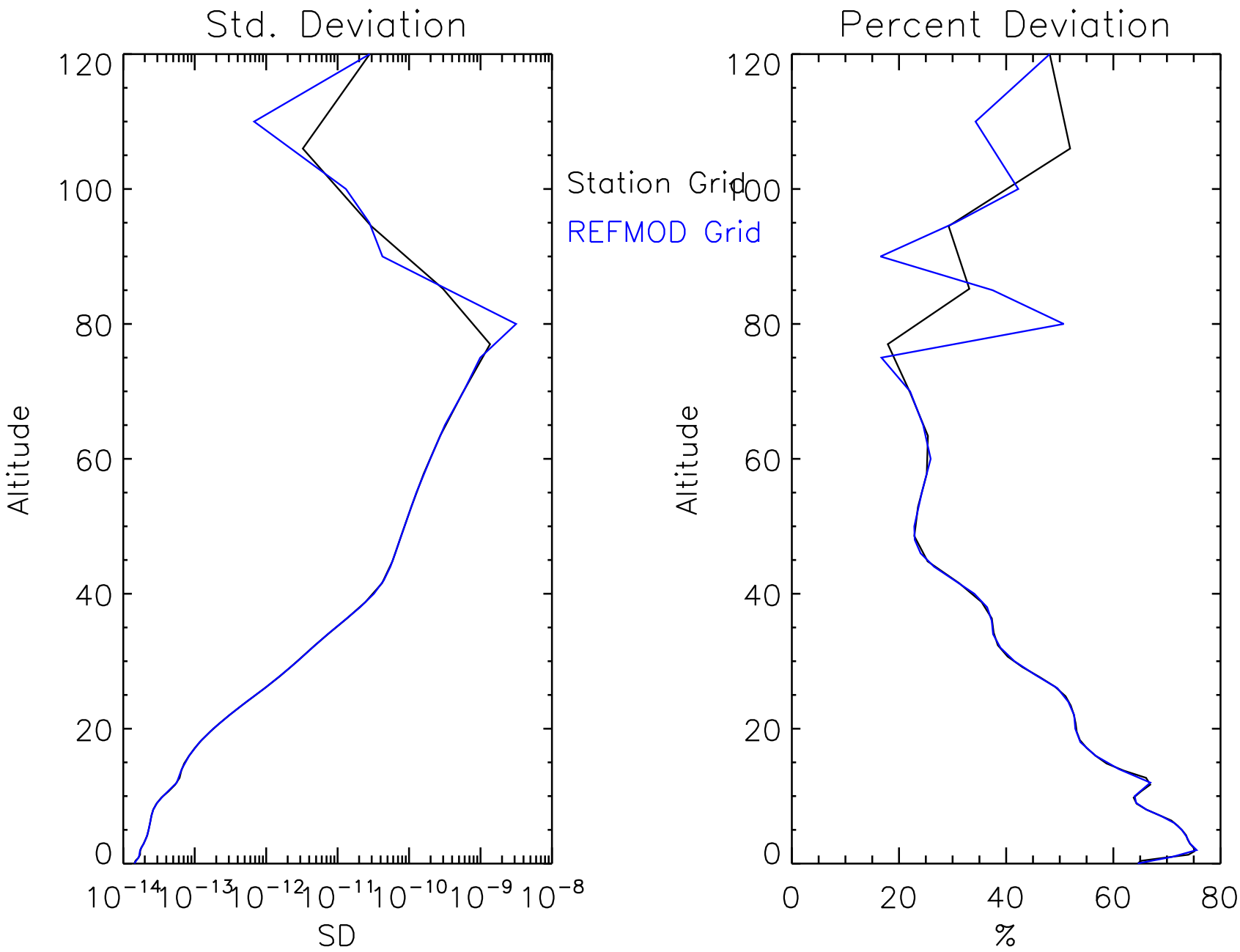

Initial & Interpolated profiles by month for : 2017
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio

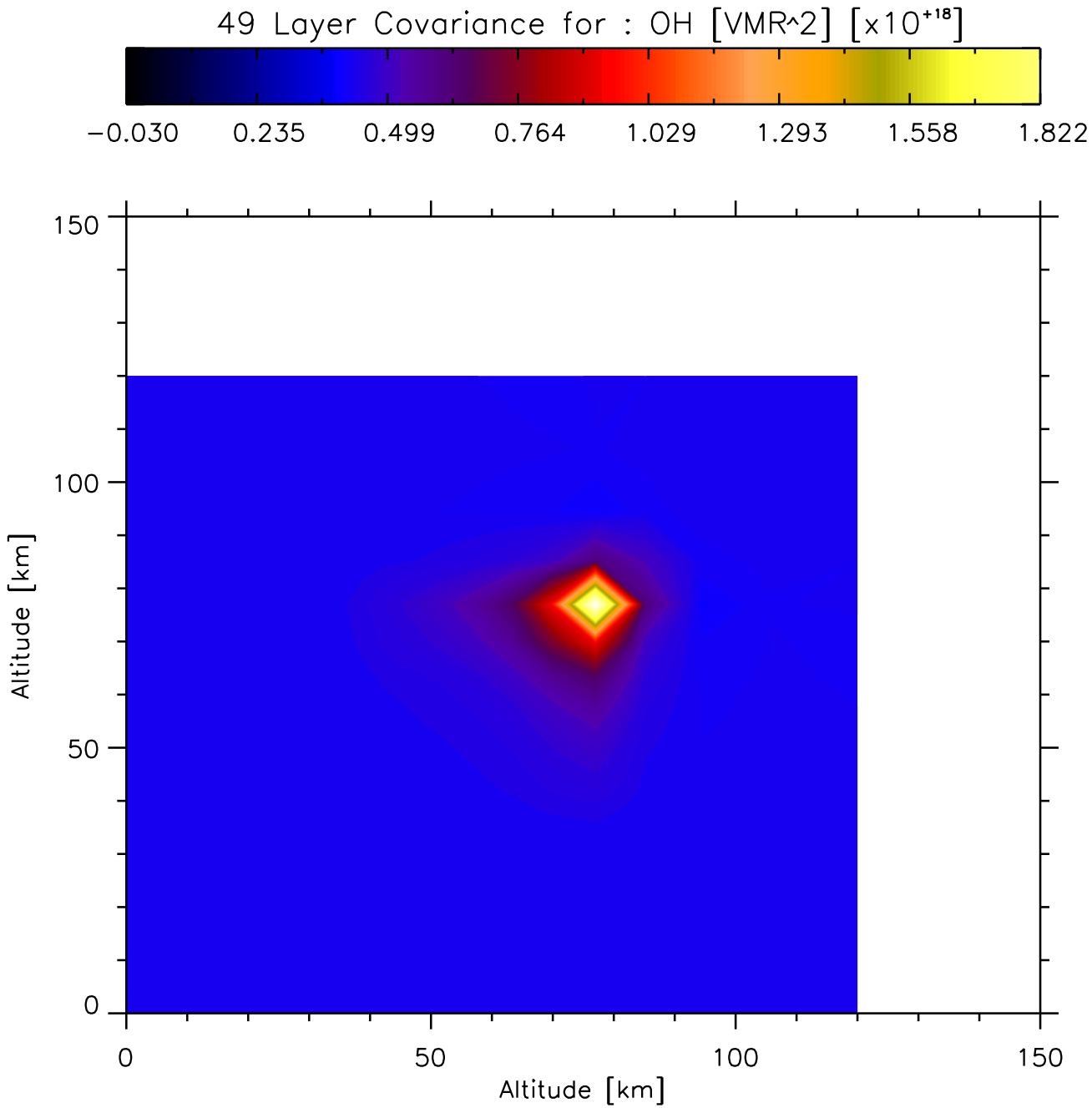

Initial & Interpolated profiles by month for : 2018
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


Initial & Interpolated profiles by month for : 2019
Rio_Gallegos −52.1N 290.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}
10^{-6}
Mixing Ratio

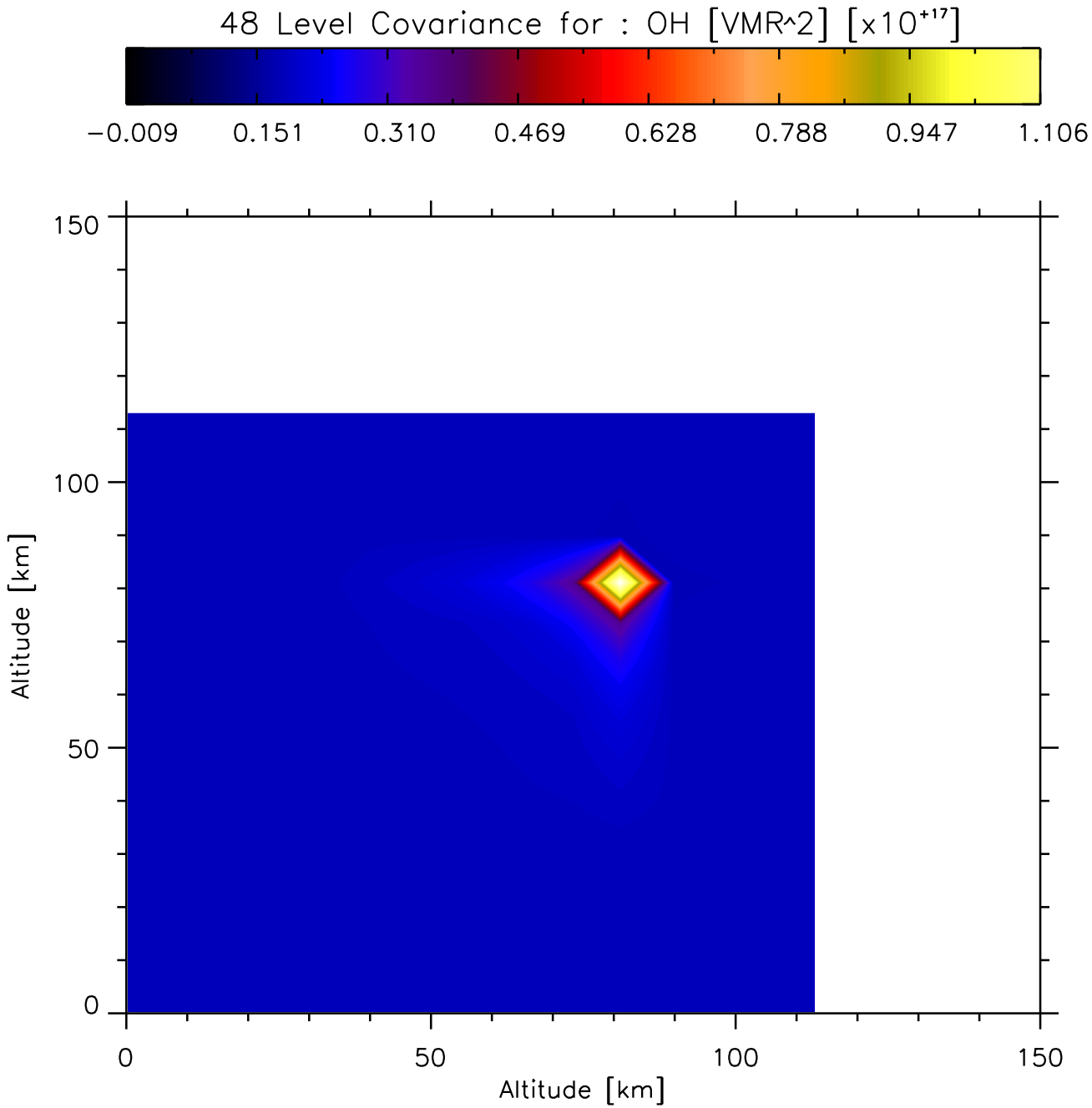

Initial & Interpolated profiles by month for : 2020
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
10^{-16}
10^{-14}
10^{-12}
10^{-10}
10^{-8}
10^{-6}
Mixing Ratio


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}
10^{-6}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-14} 10^{-13} 10^{-12} 10^{-11} 10^{-10} 10^{-9} 10^{-8}
SD
0
20
40
60
80
%


49 Layer Covariance for : OH [VMR^2] [x10^+18]
−0.030
0.235
0.499
0.764
1.029
1.293
1.558
1.822
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

49 Layer Covariance for : OH [VMR^2] [x10^+18]
0.2
0.15
0.1
0.05
0
Y Altitude
0
50
100
150
X Altitude
0


48 Level Covariance for : OH [VMR^2] [x10^+17]
−0.009
0.151
0.310
0.469
0.628
0.788
0.947
1.106
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]

48 Level Covariance for : OH [VMR^2] [x10^+17]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
30
60
90
120
X Altitude
0
50
100
150