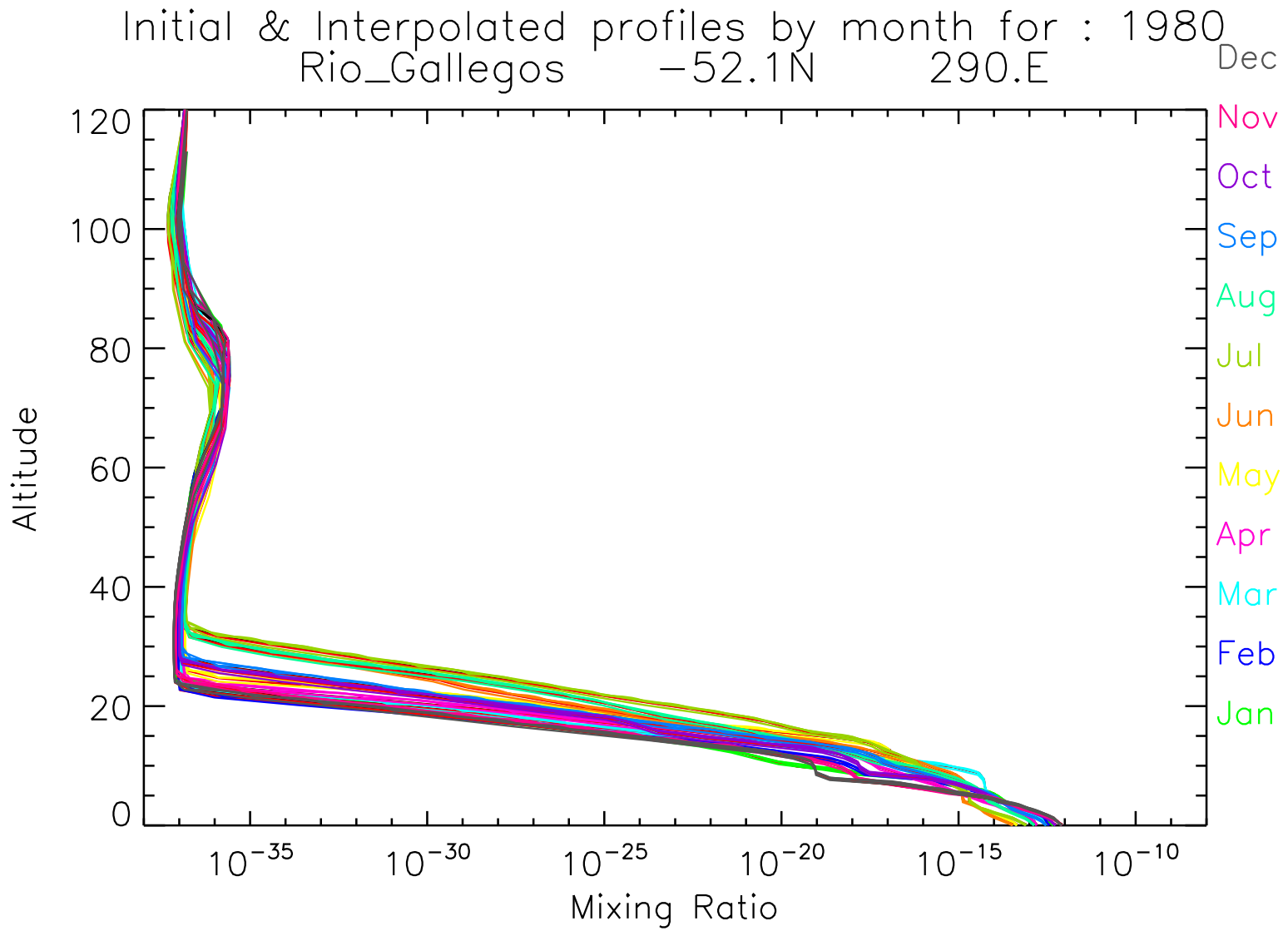
Initial & Interpolated profiles by month for : 1980
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
120
100
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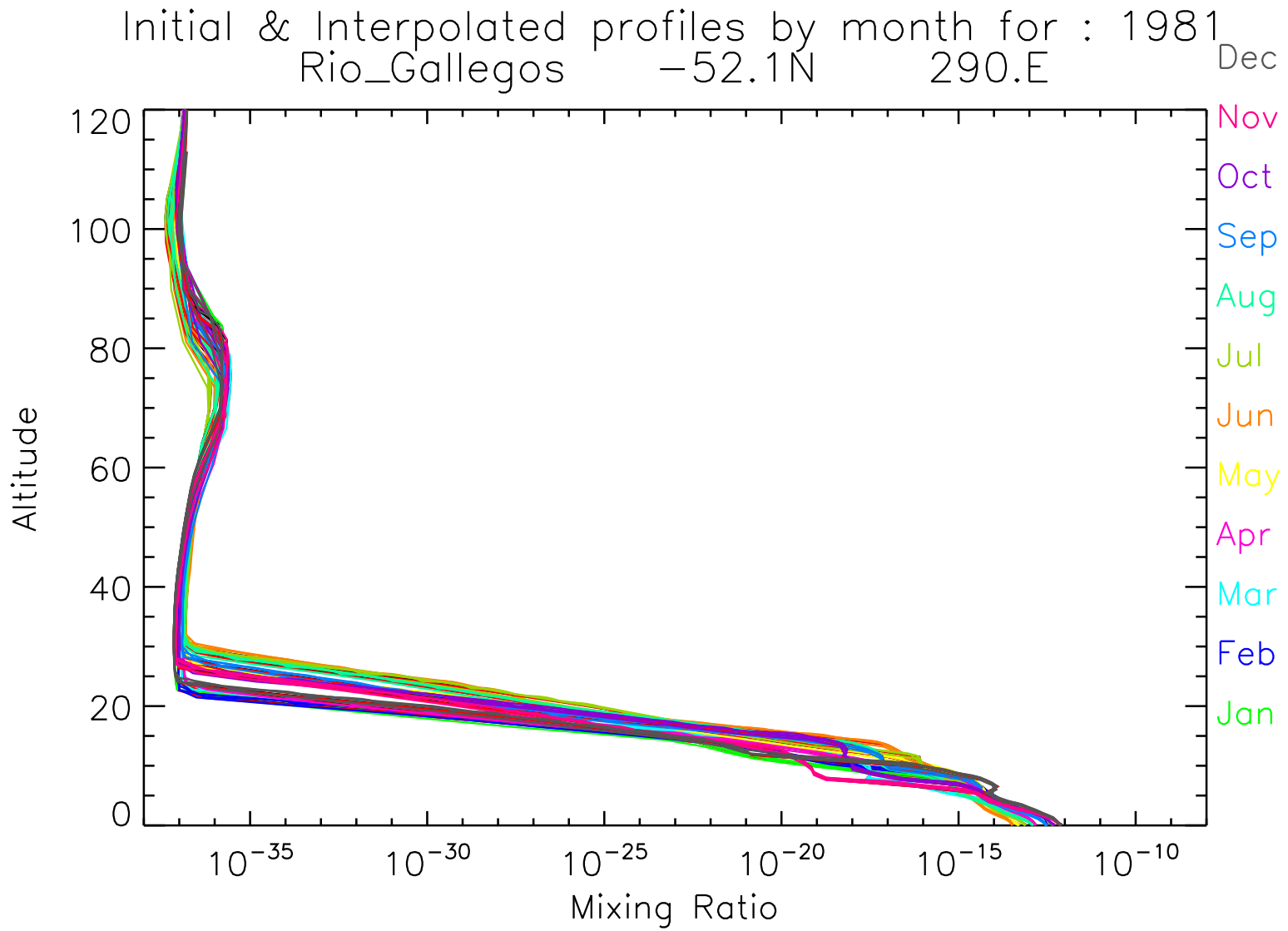
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1981
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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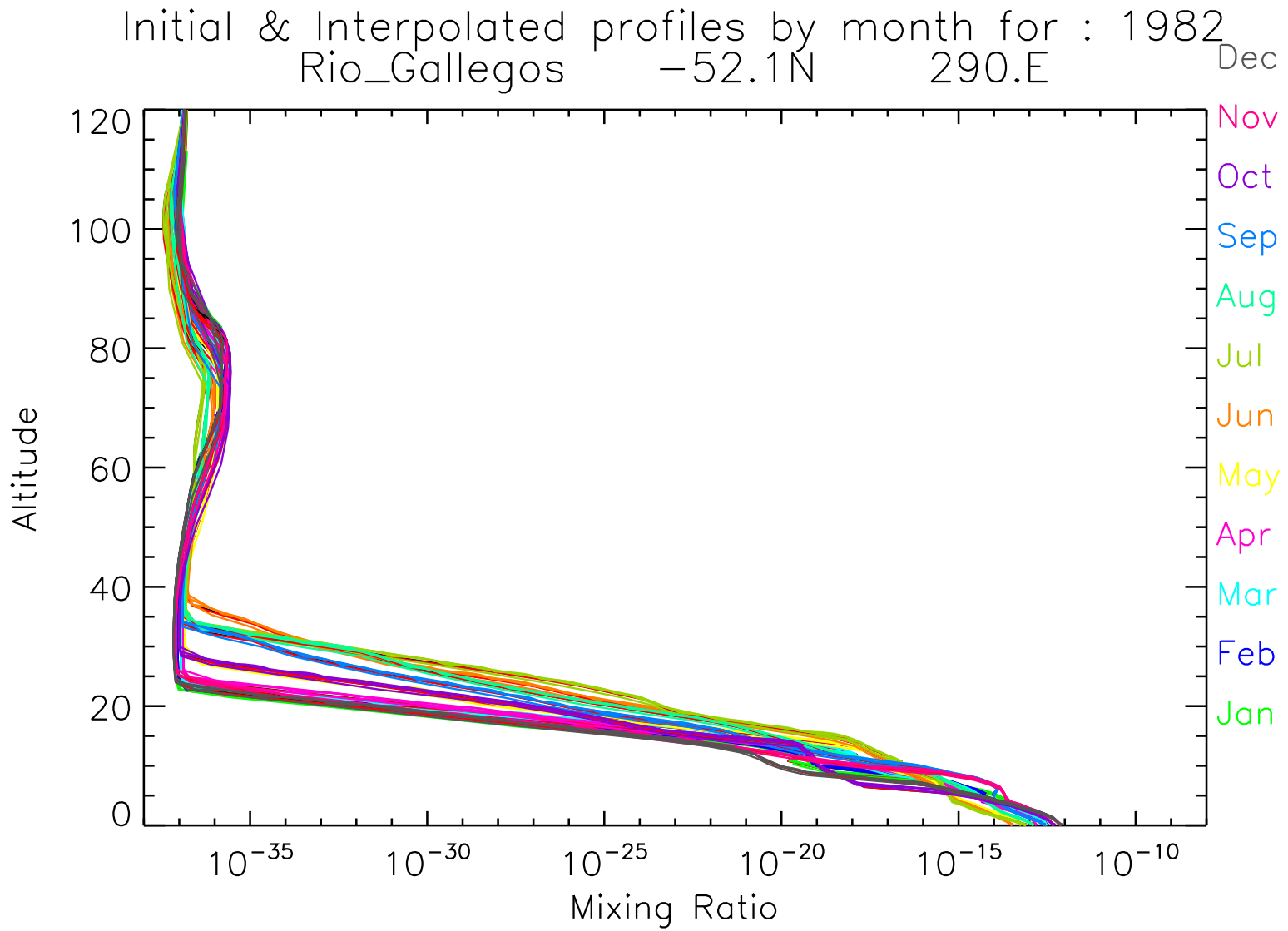
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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$10^{-20}$
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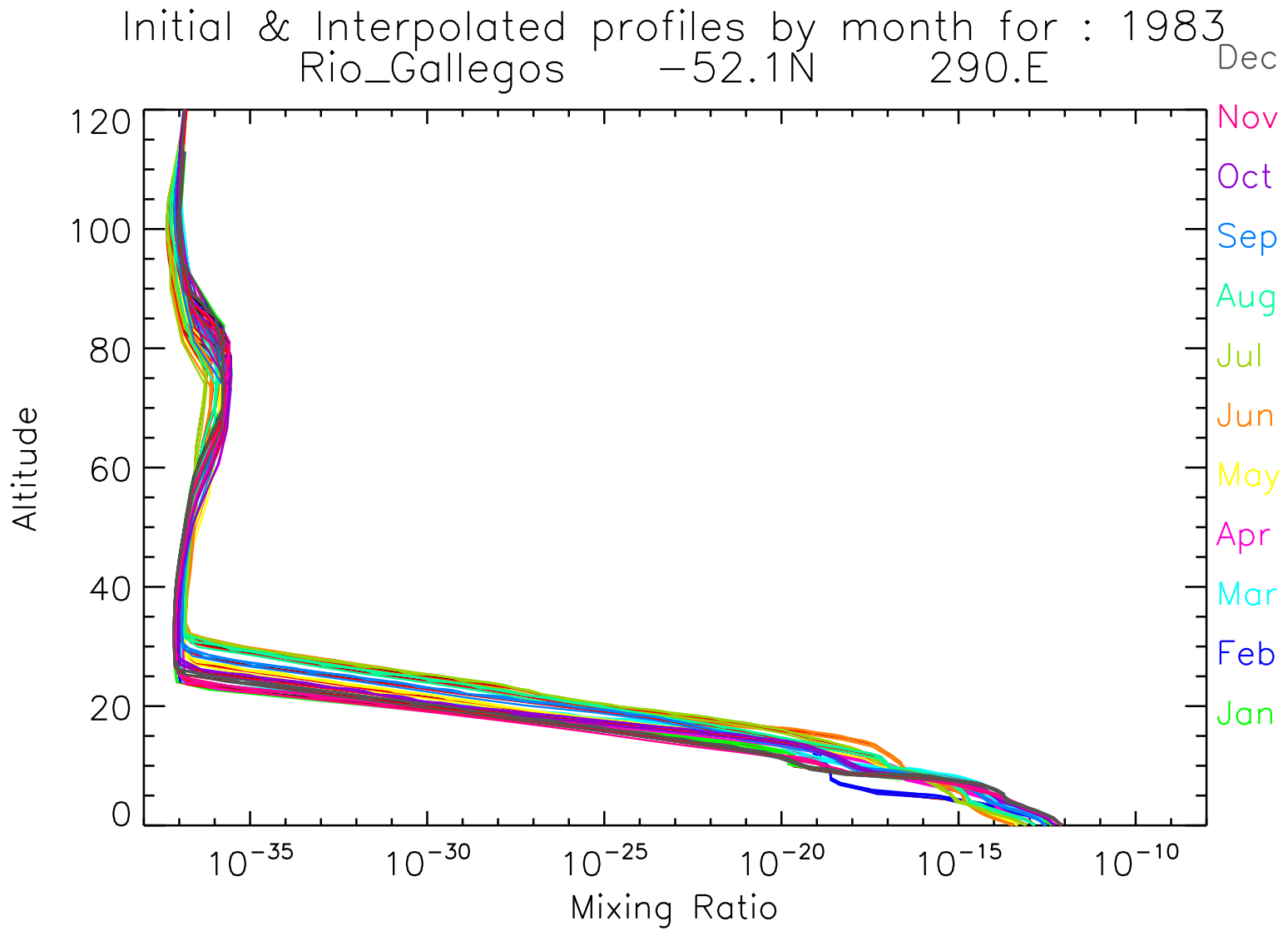
$10^{-10}$
Mixing Ratio


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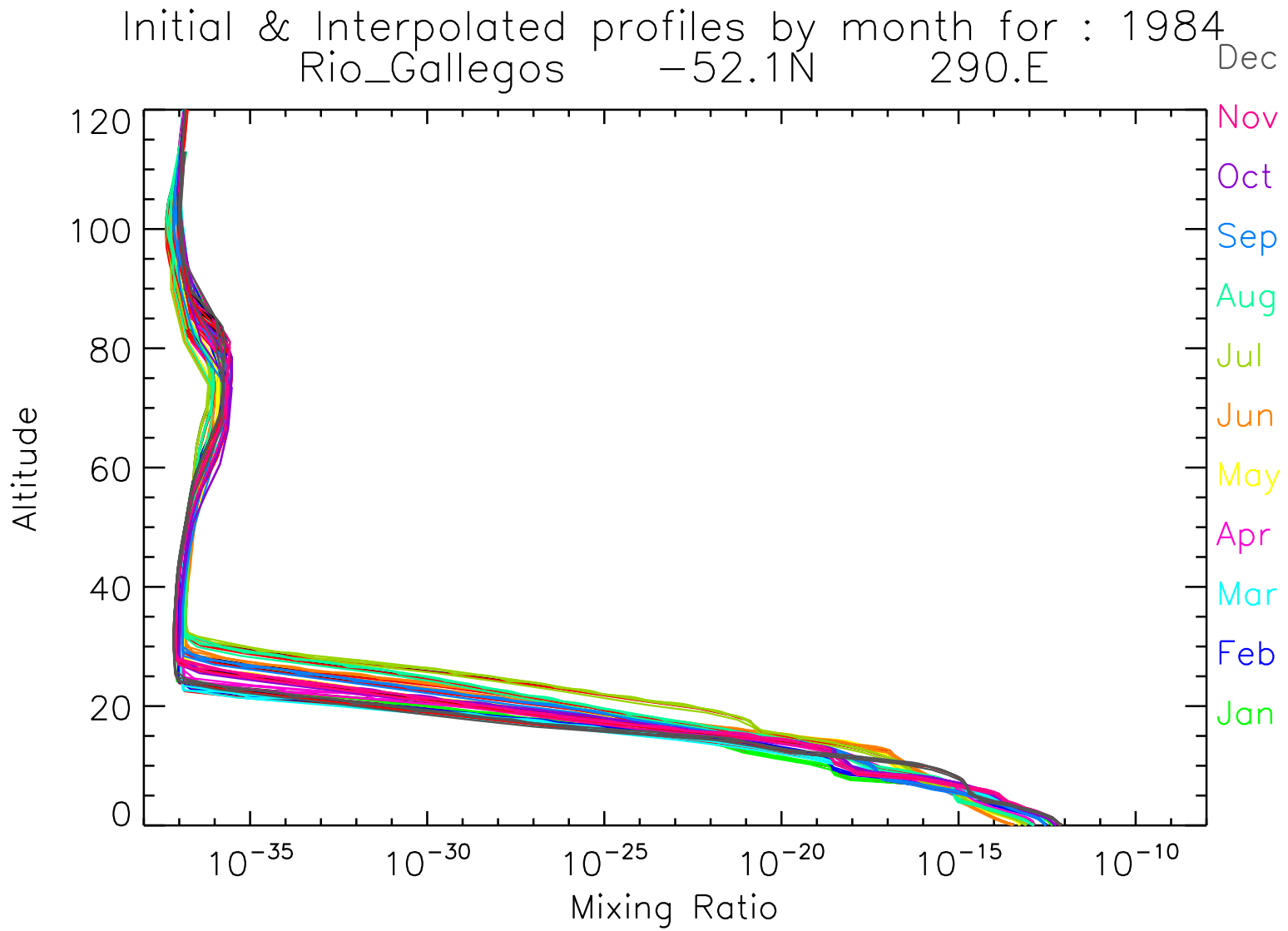
$10^{-10}$
Mixing Ratio


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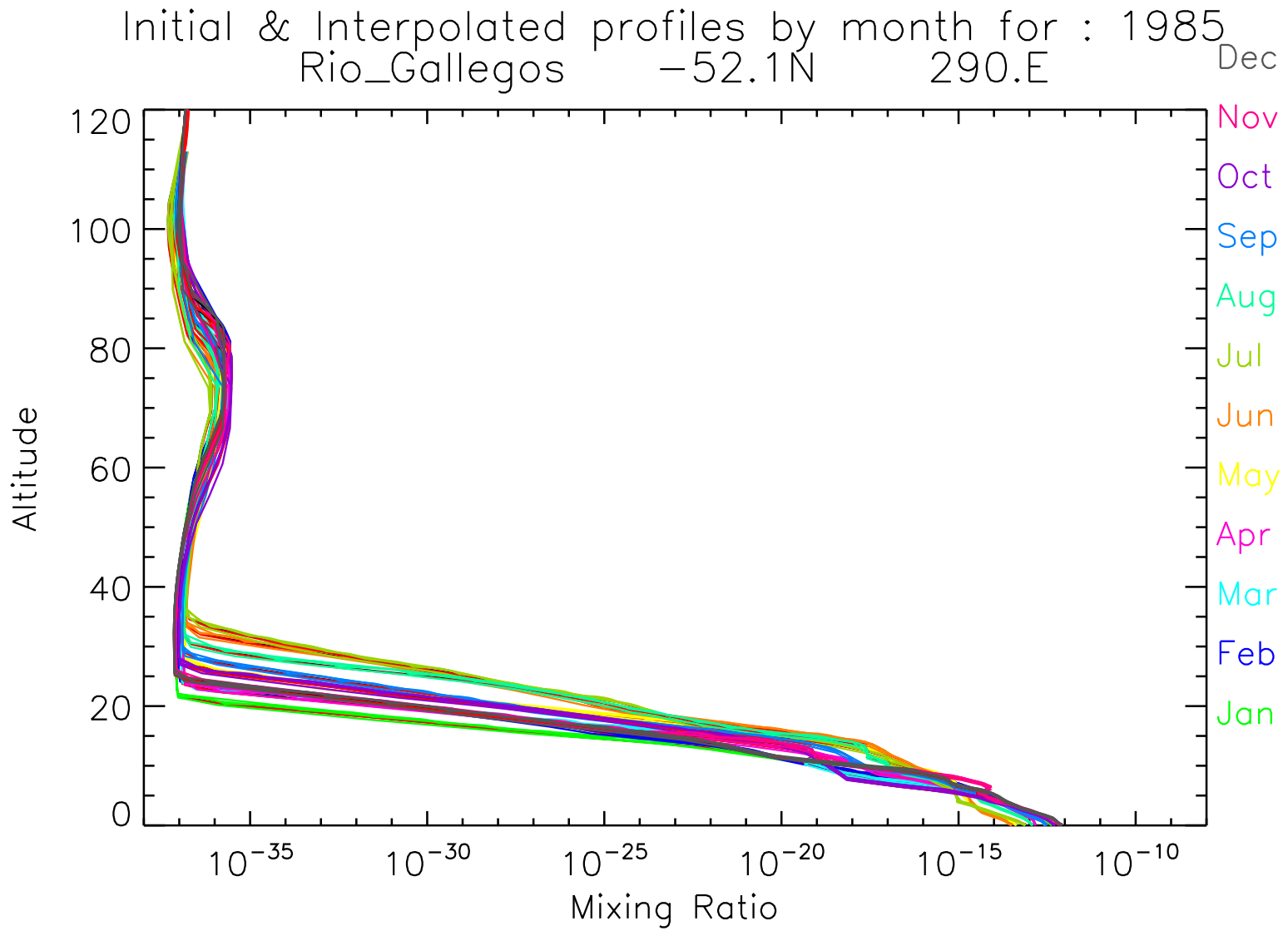
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 1985
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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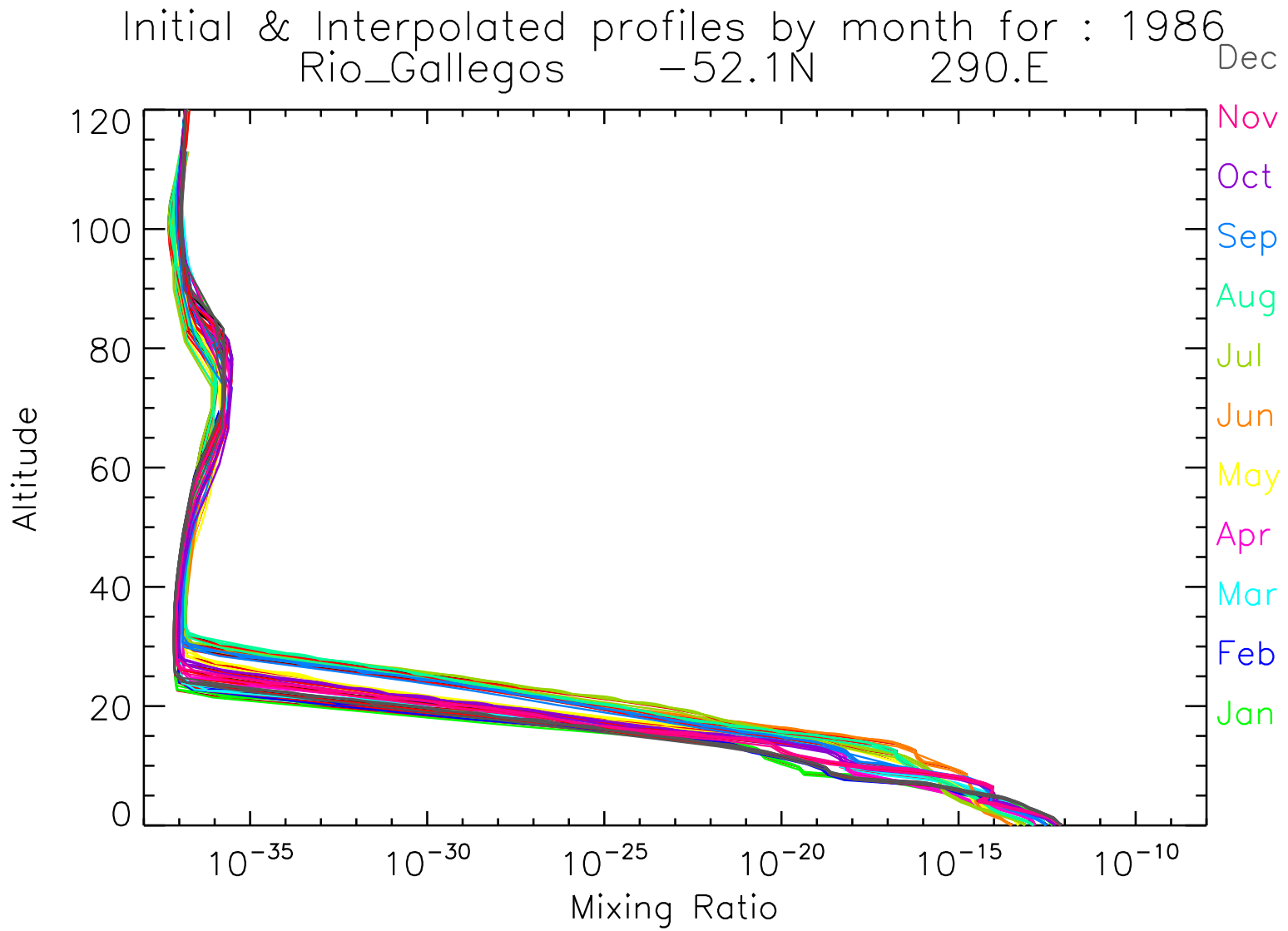
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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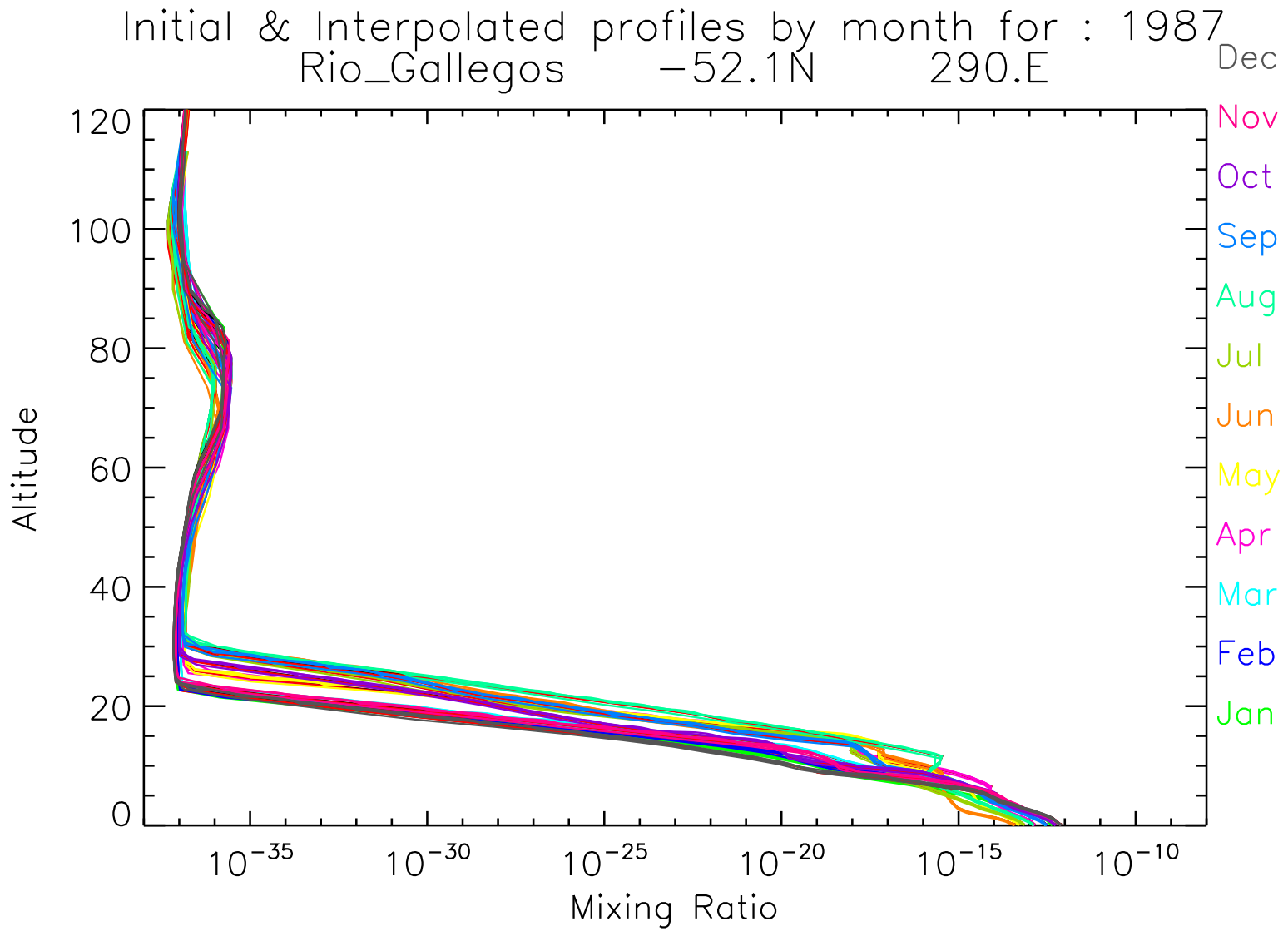
Mixing Ratio


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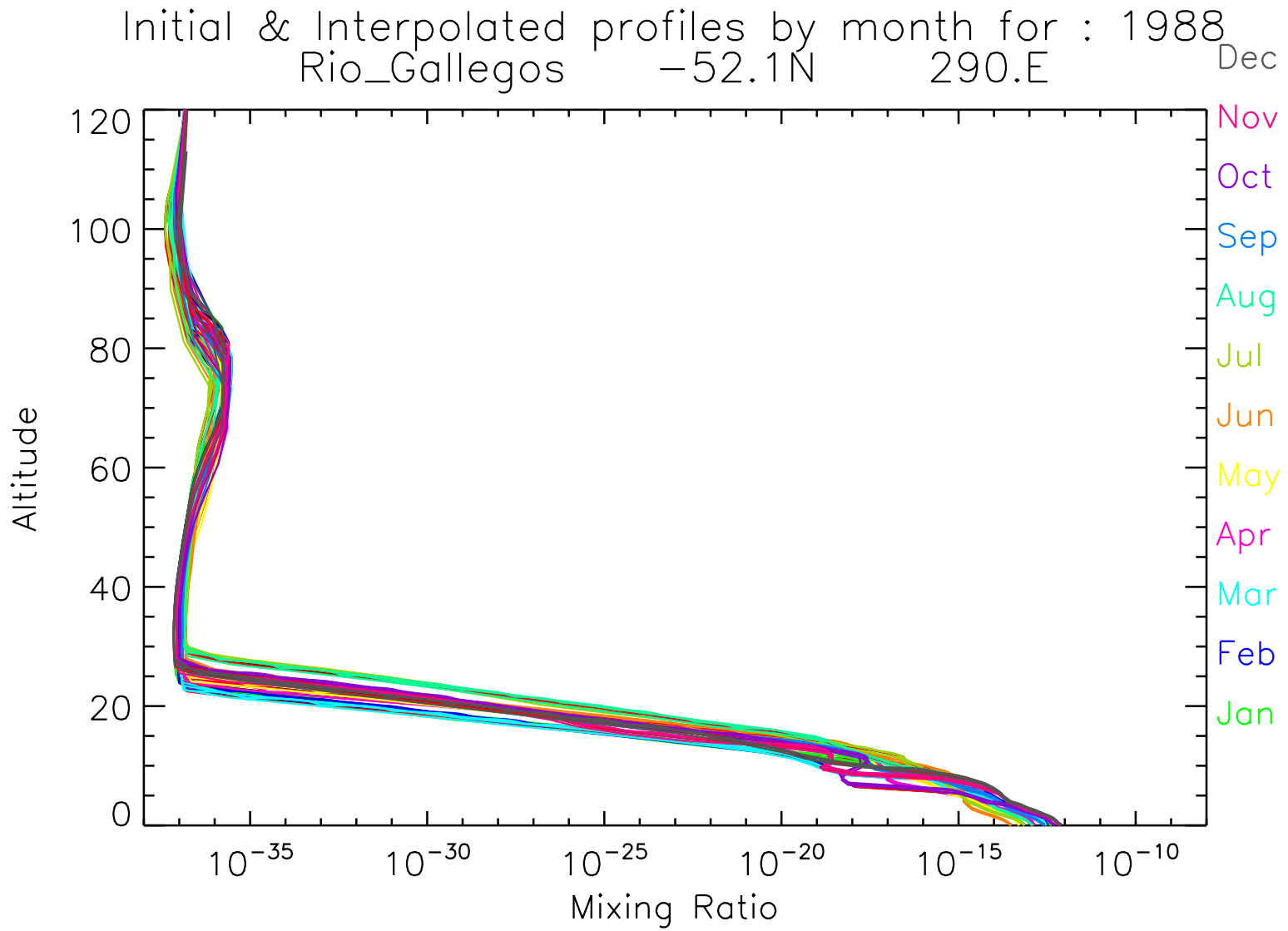
Mixing Ratio


Initial & Interpolated profiles by month for : 1988
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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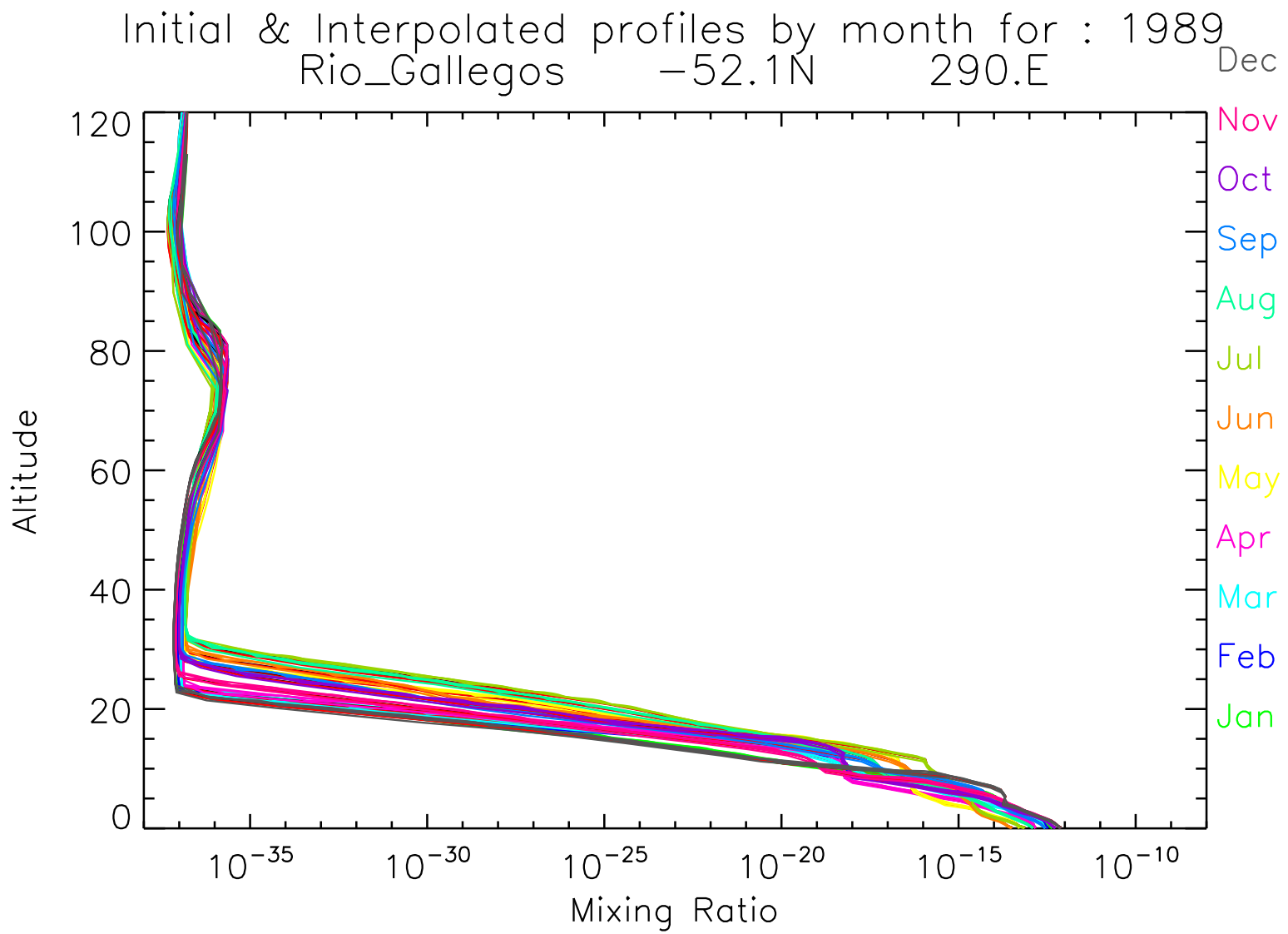
Mixing Ratio


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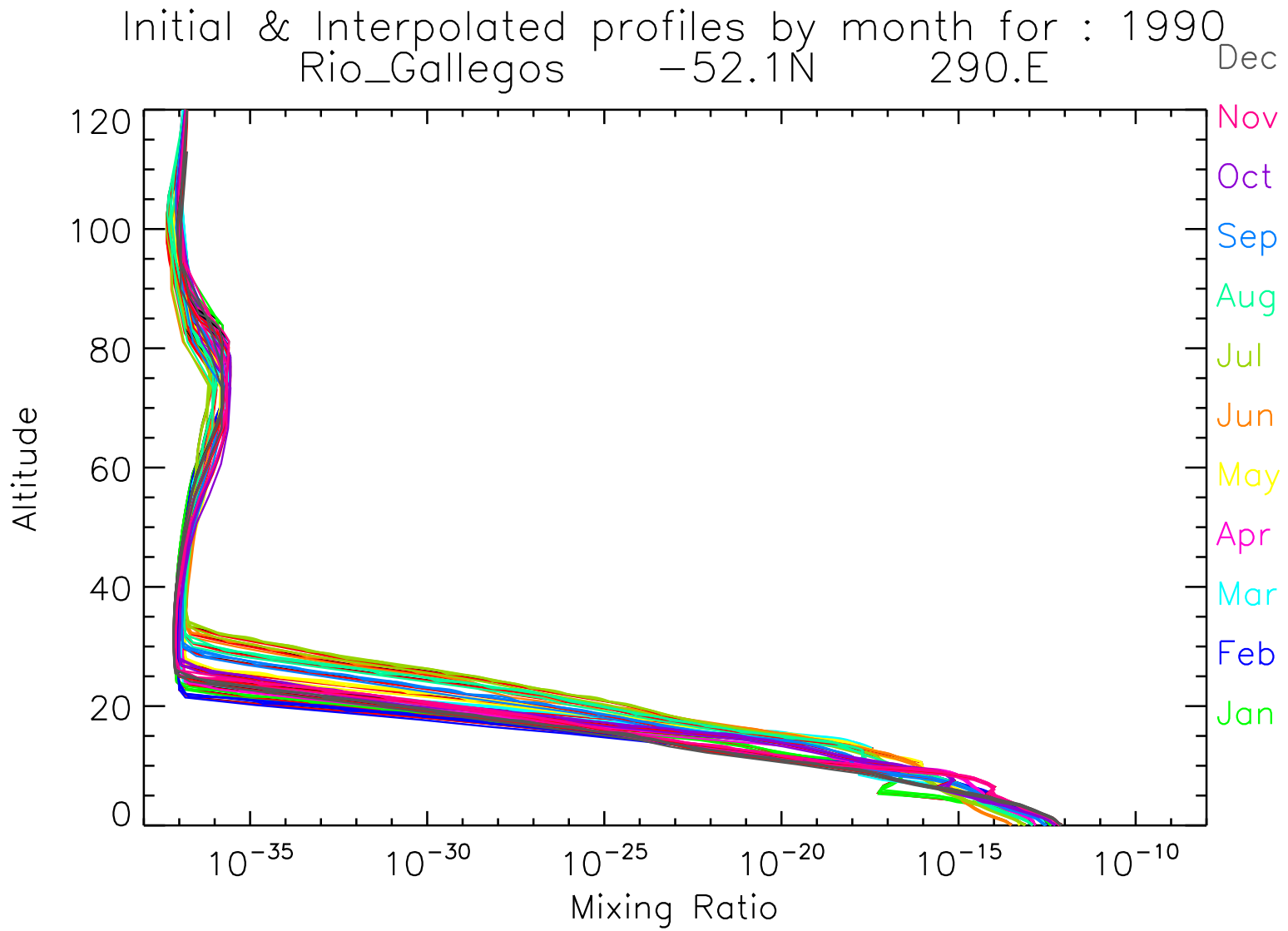
Mixing Ratio


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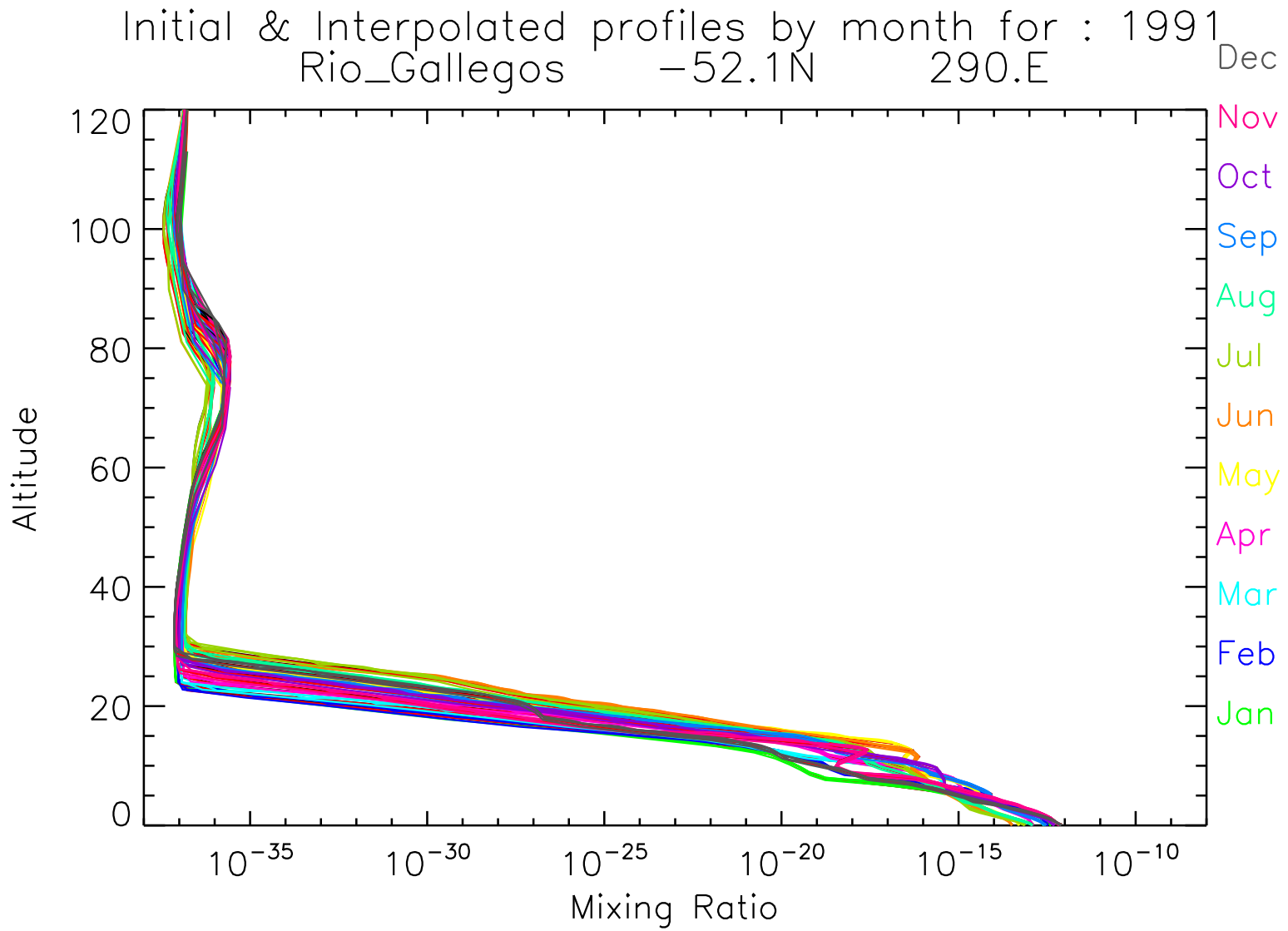
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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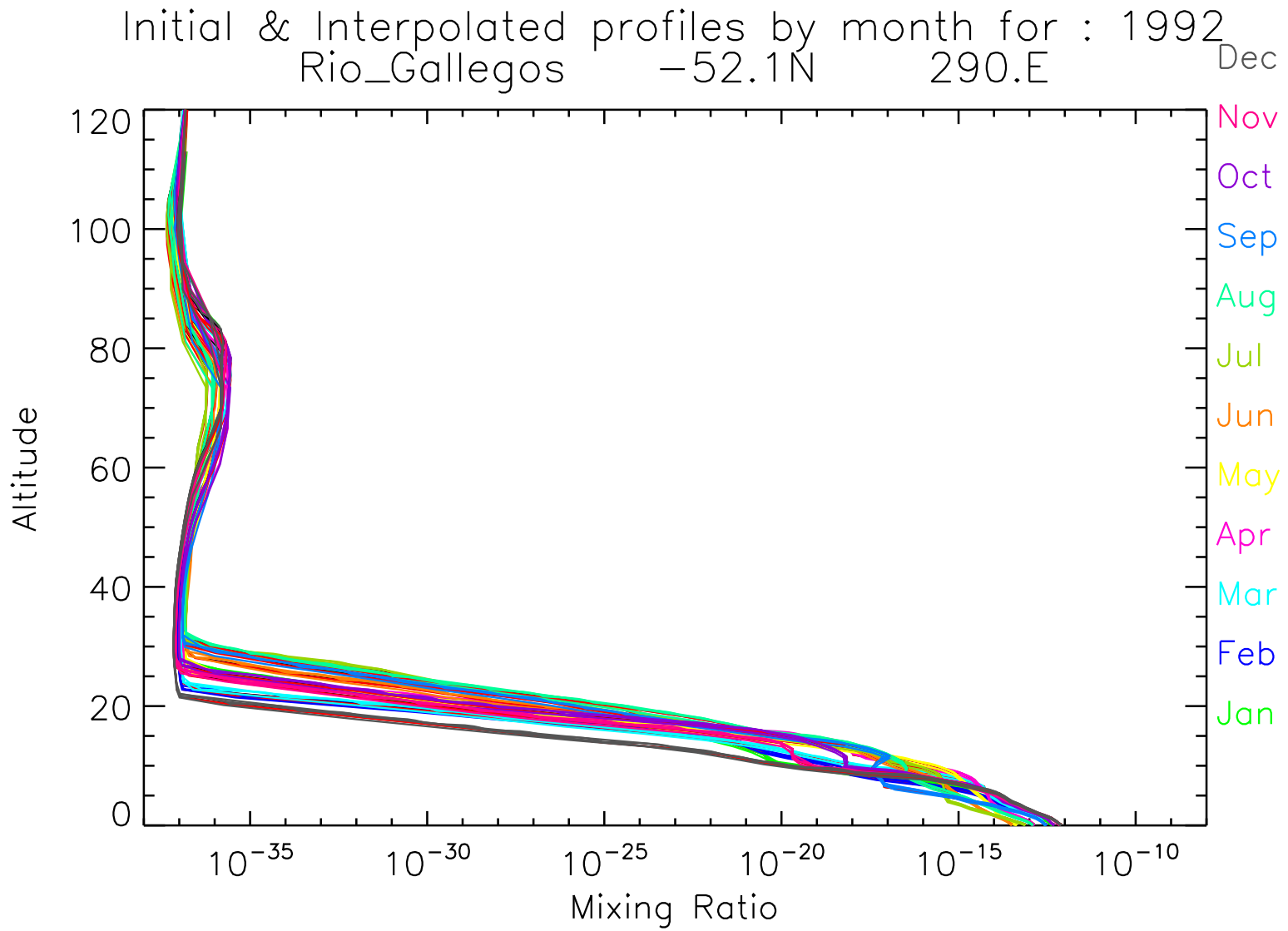
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Rio_Gallegos −52.1N 290.E
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Altitude
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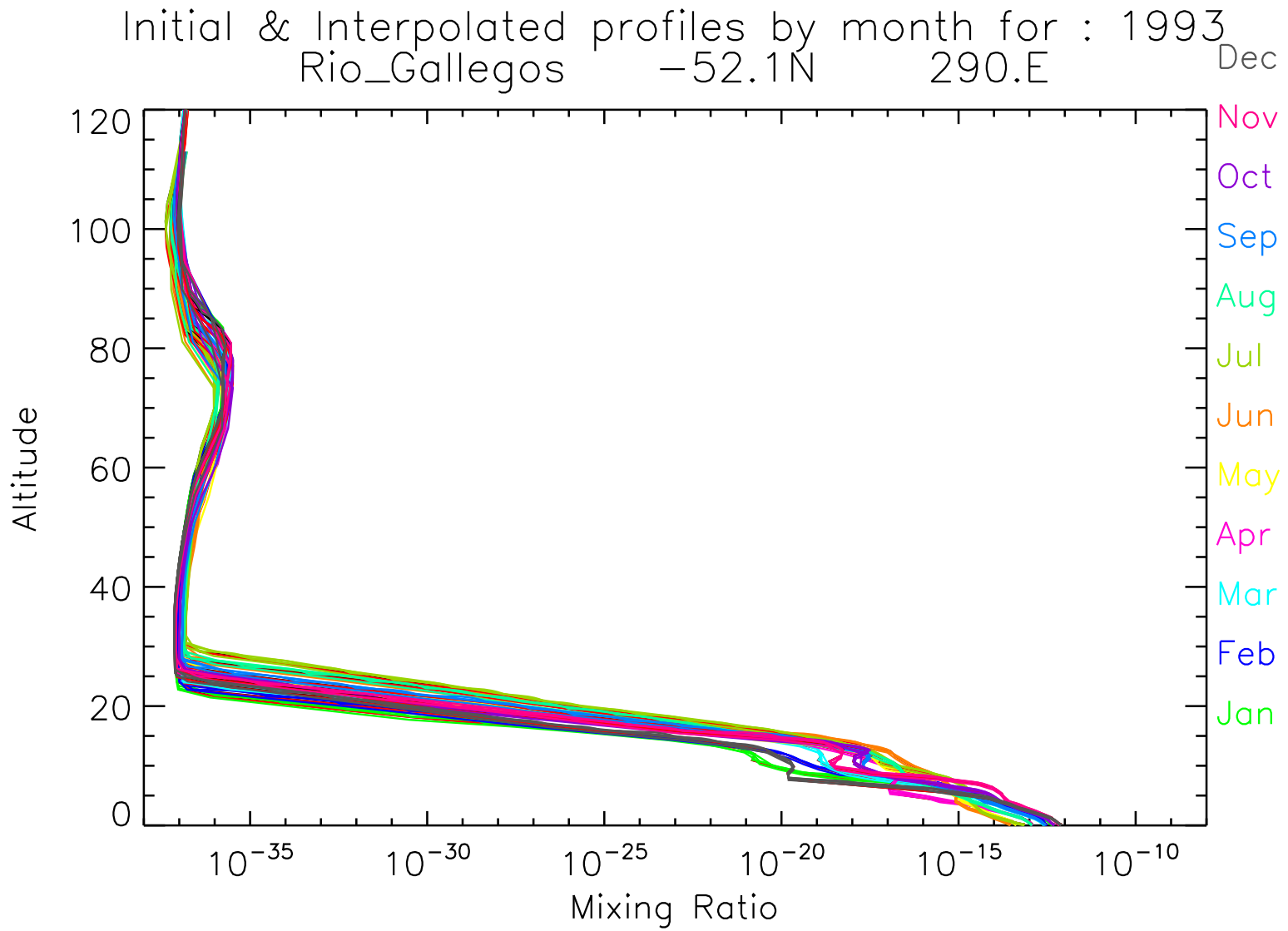
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Rio_Gallegos −52.1N 290.E
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Altitude
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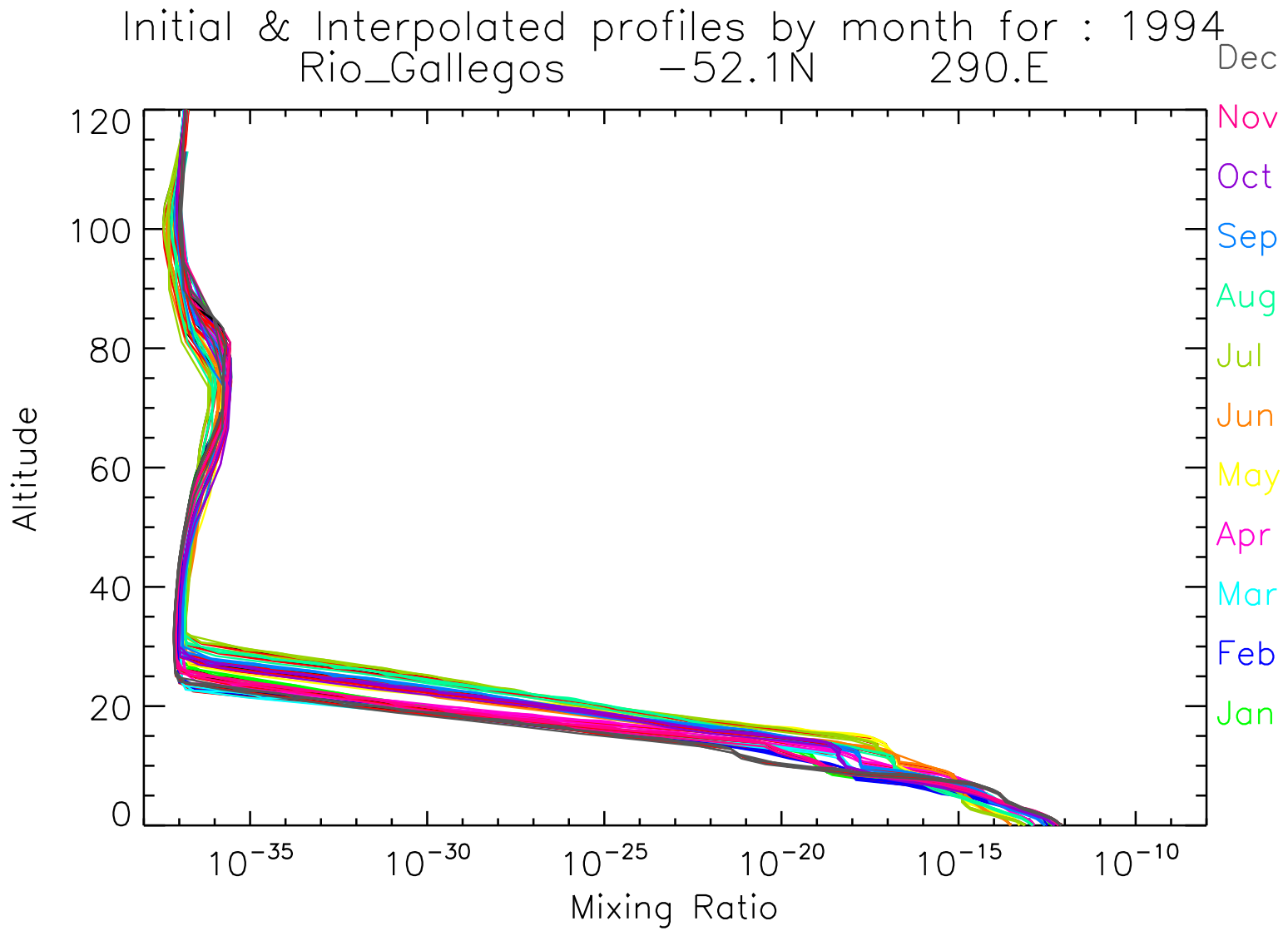
Mixing Ratio


Initial & Interpolated profiles by month for : 1994
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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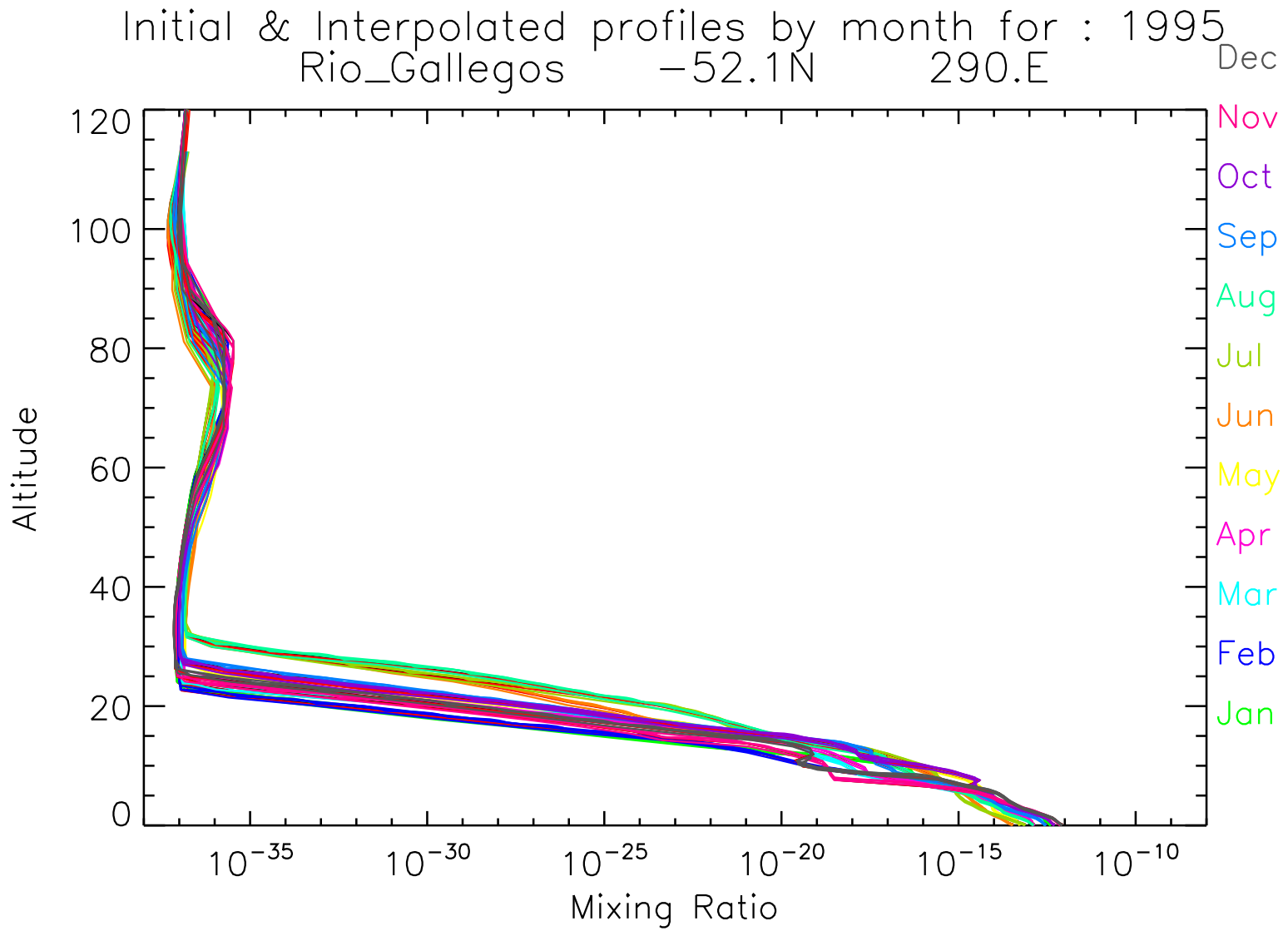
Mixing Ratio


Initial & Interpolated profiles by month for : 1995
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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$10^{-35}$
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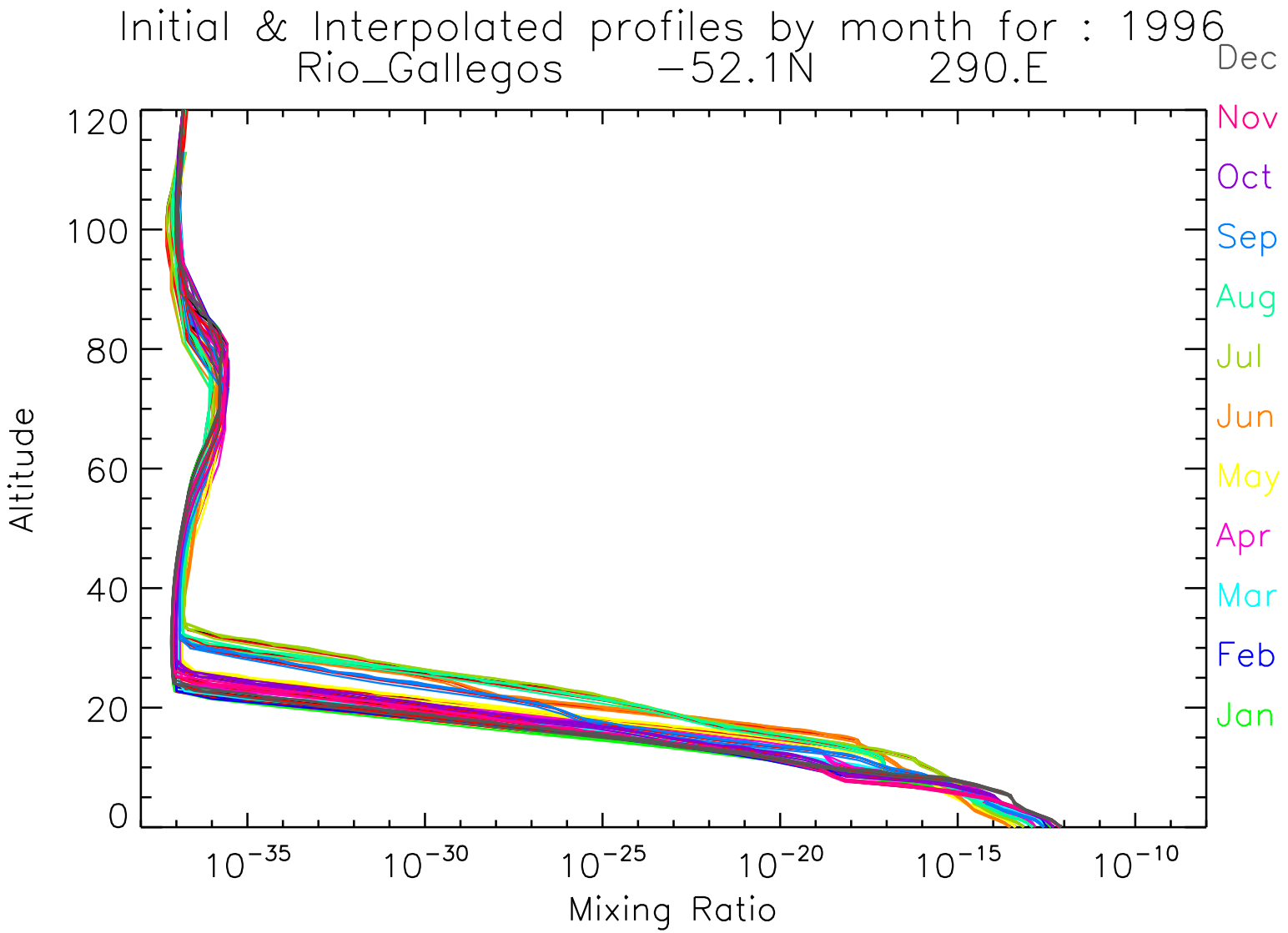
Mixing Ratio


Initial & Interpolated profiles by month for : 1996
Rio_Gallegos −52.1N 290.E
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Altitude
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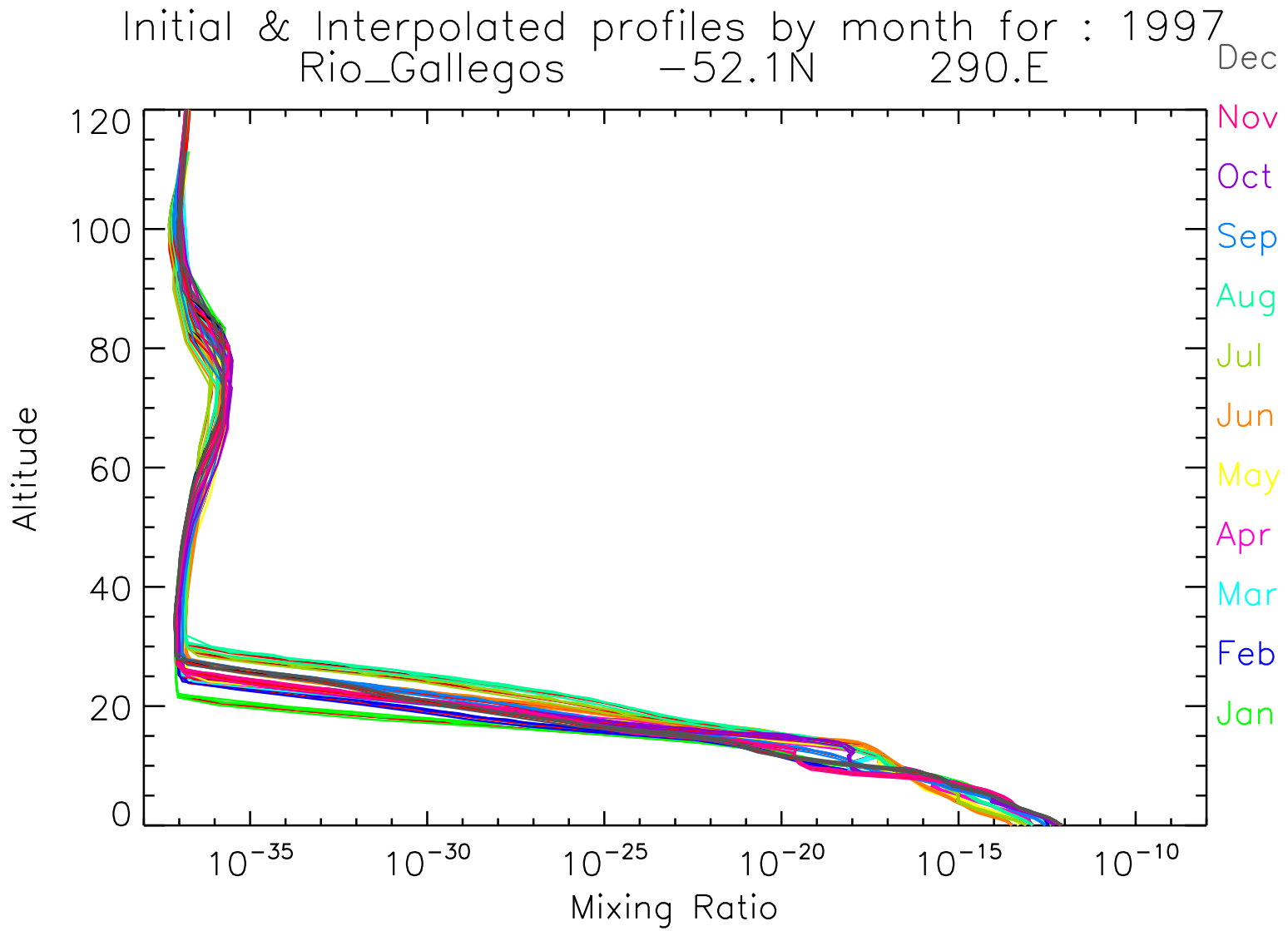
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Rio_Gallegos −52.1N 290.E
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Altitude
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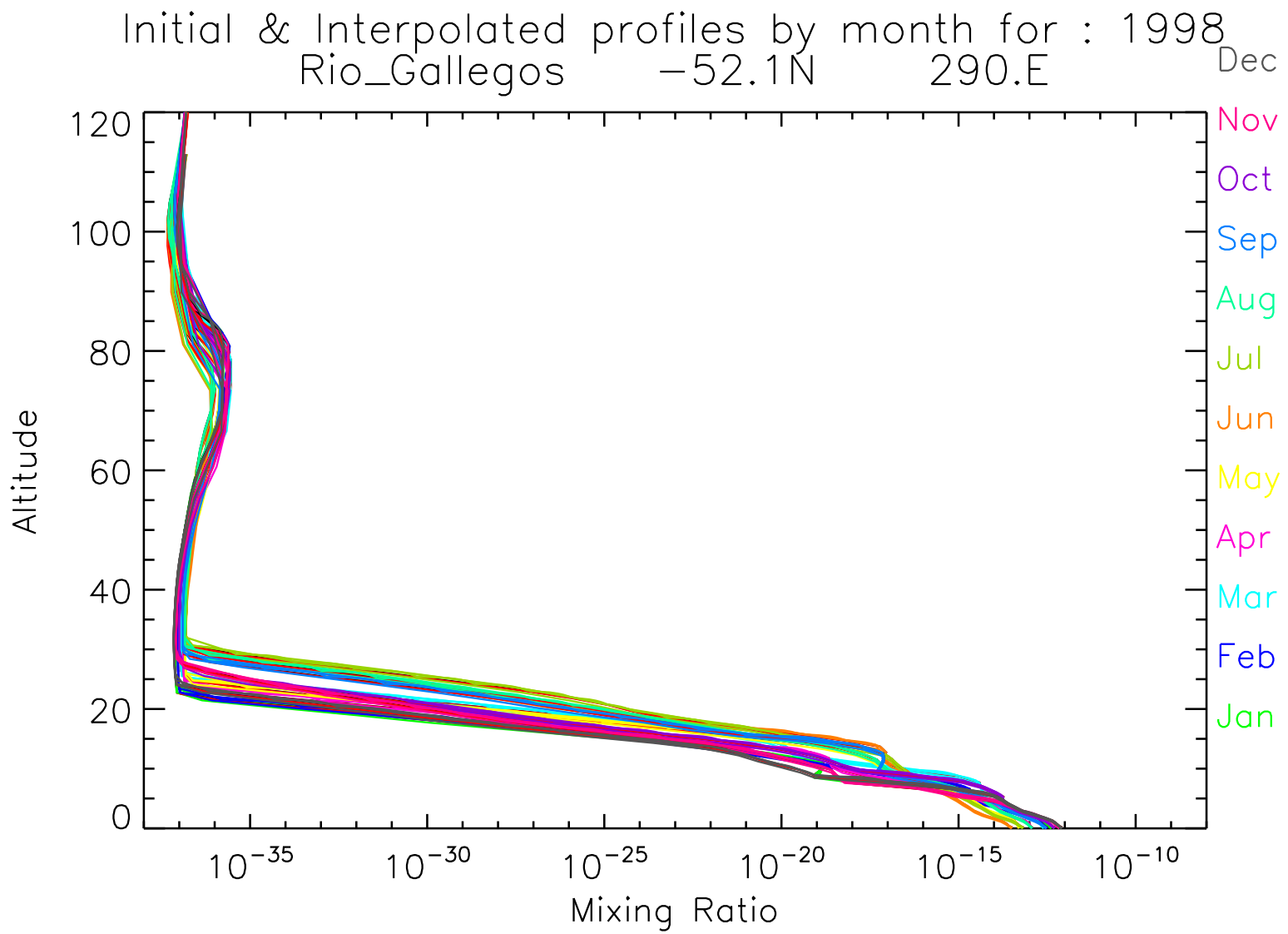
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Rio_Gallegos −52.1N 290.E
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Altitude
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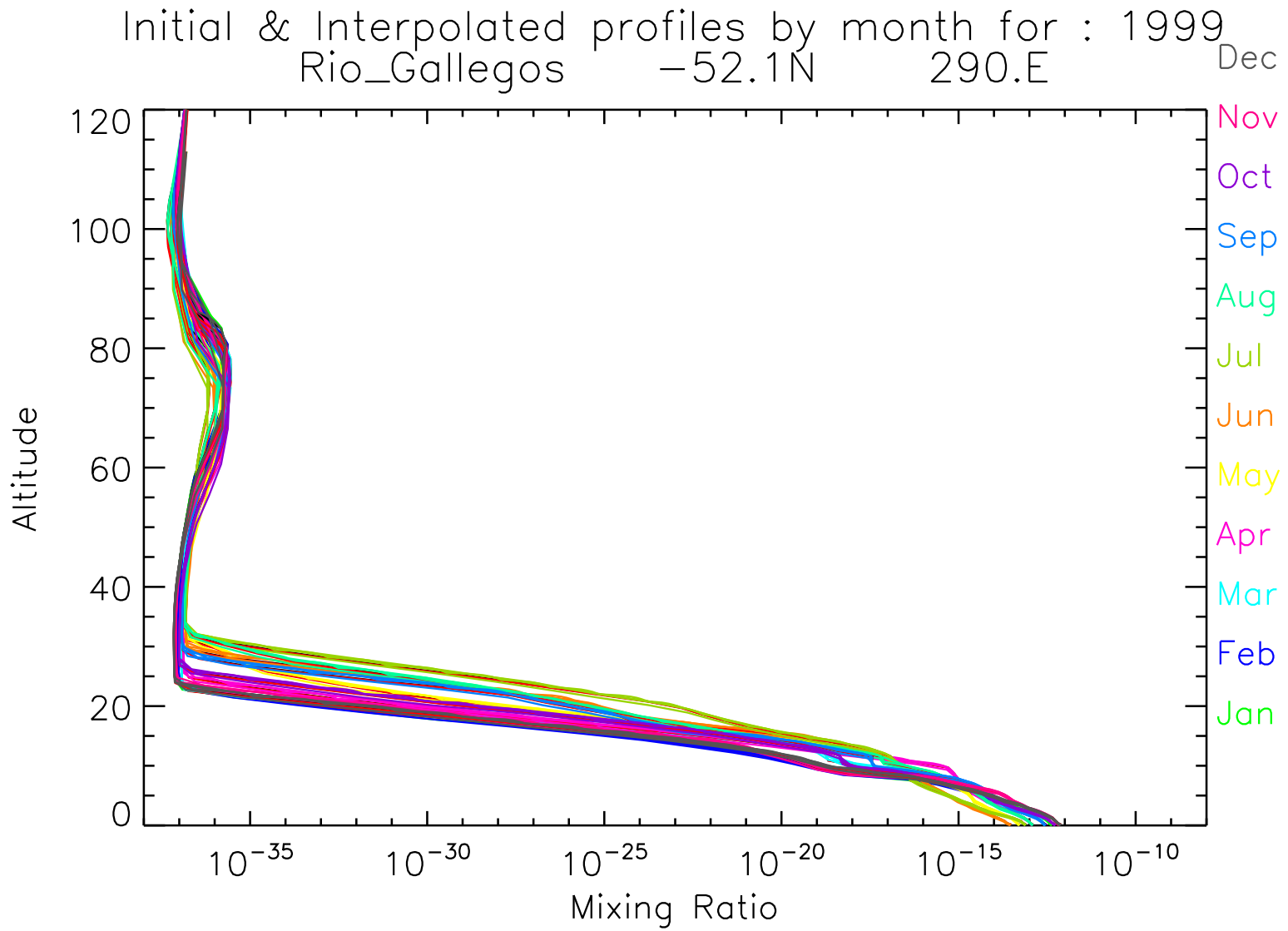
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Rio_Gallegos −52.1N 290.E
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Altitude
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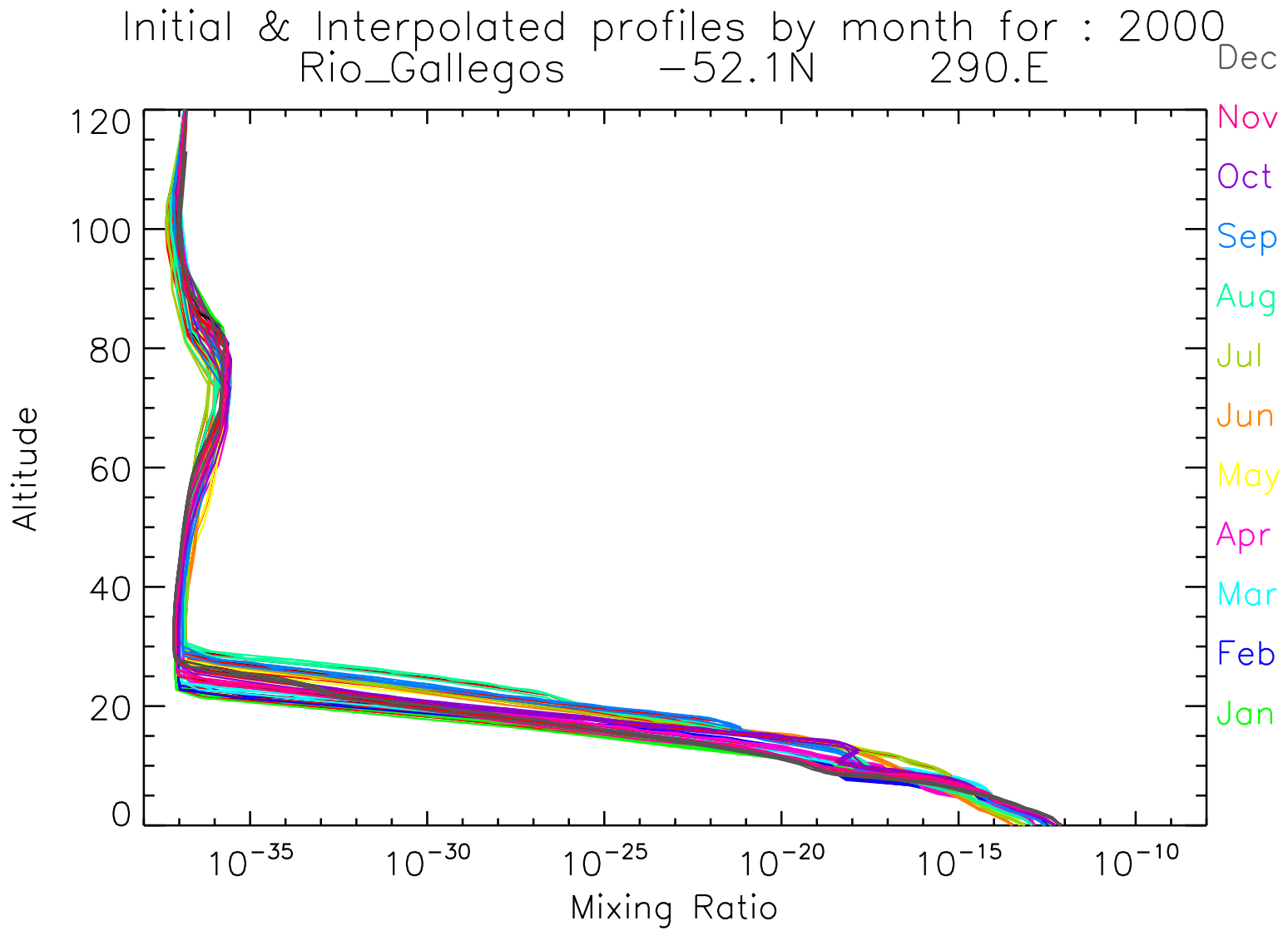
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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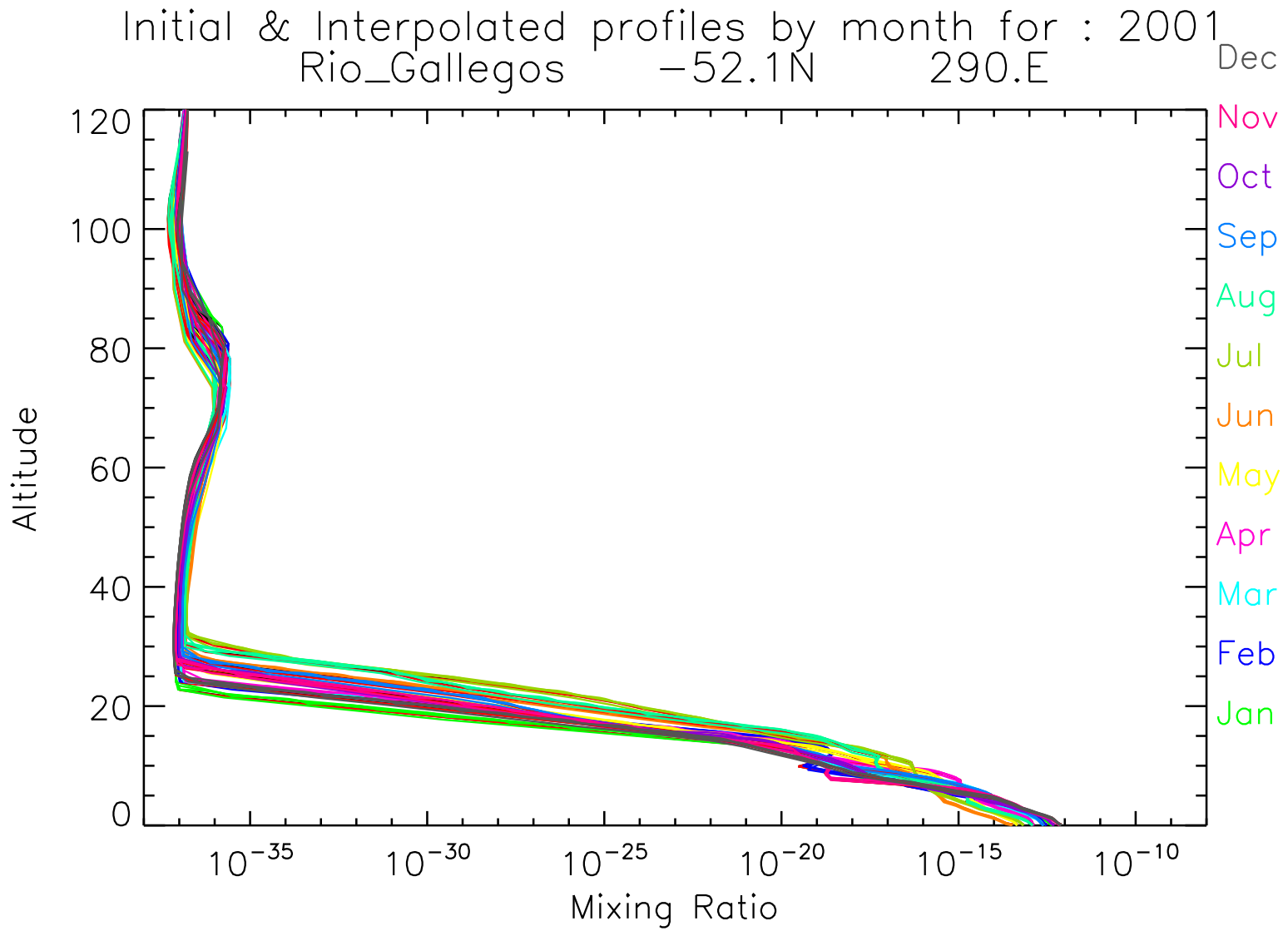
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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$10^{-35}$
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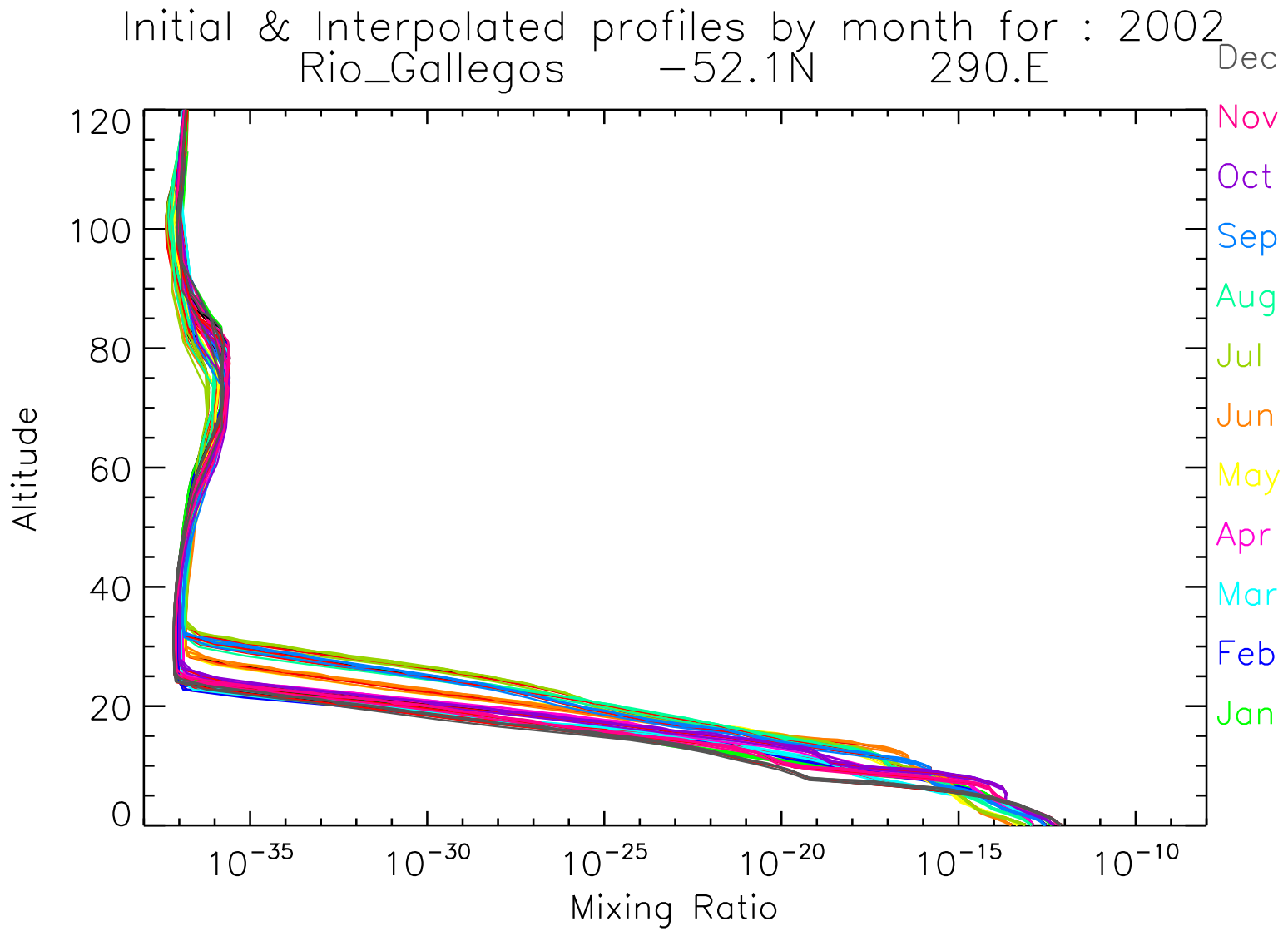
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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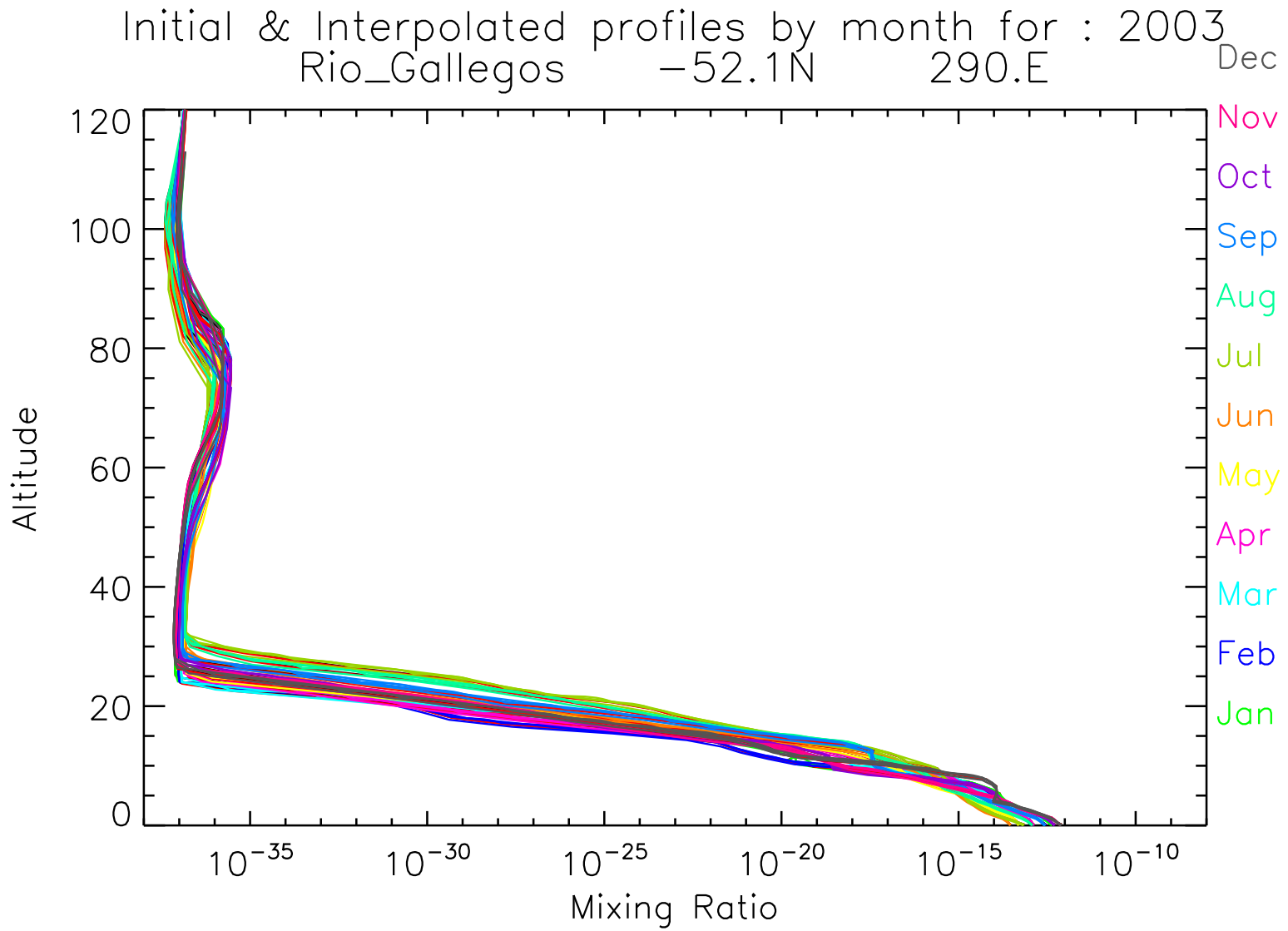
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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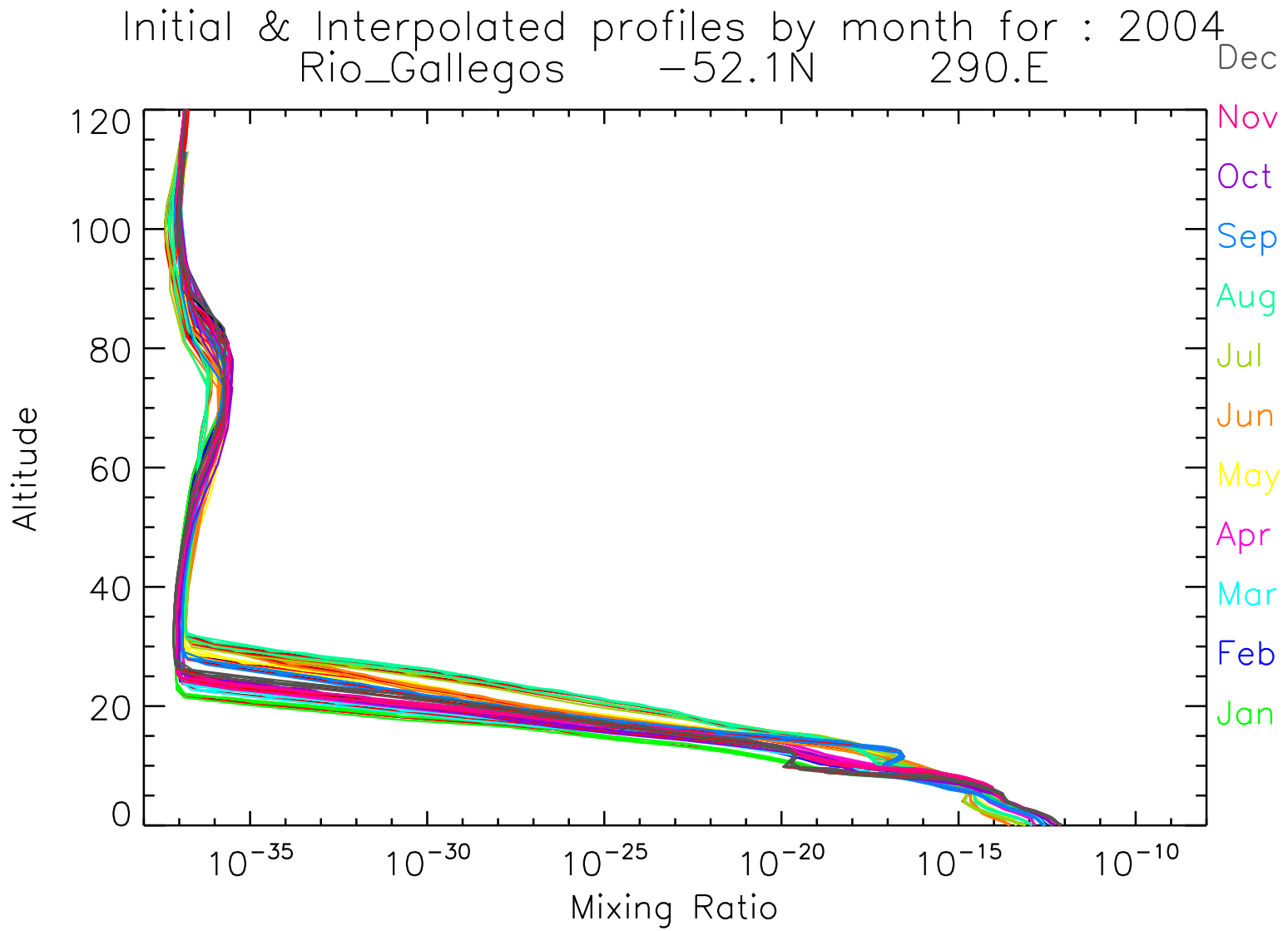
Mixing Ratio


Initial & Interpolated profiles by month for : 2004
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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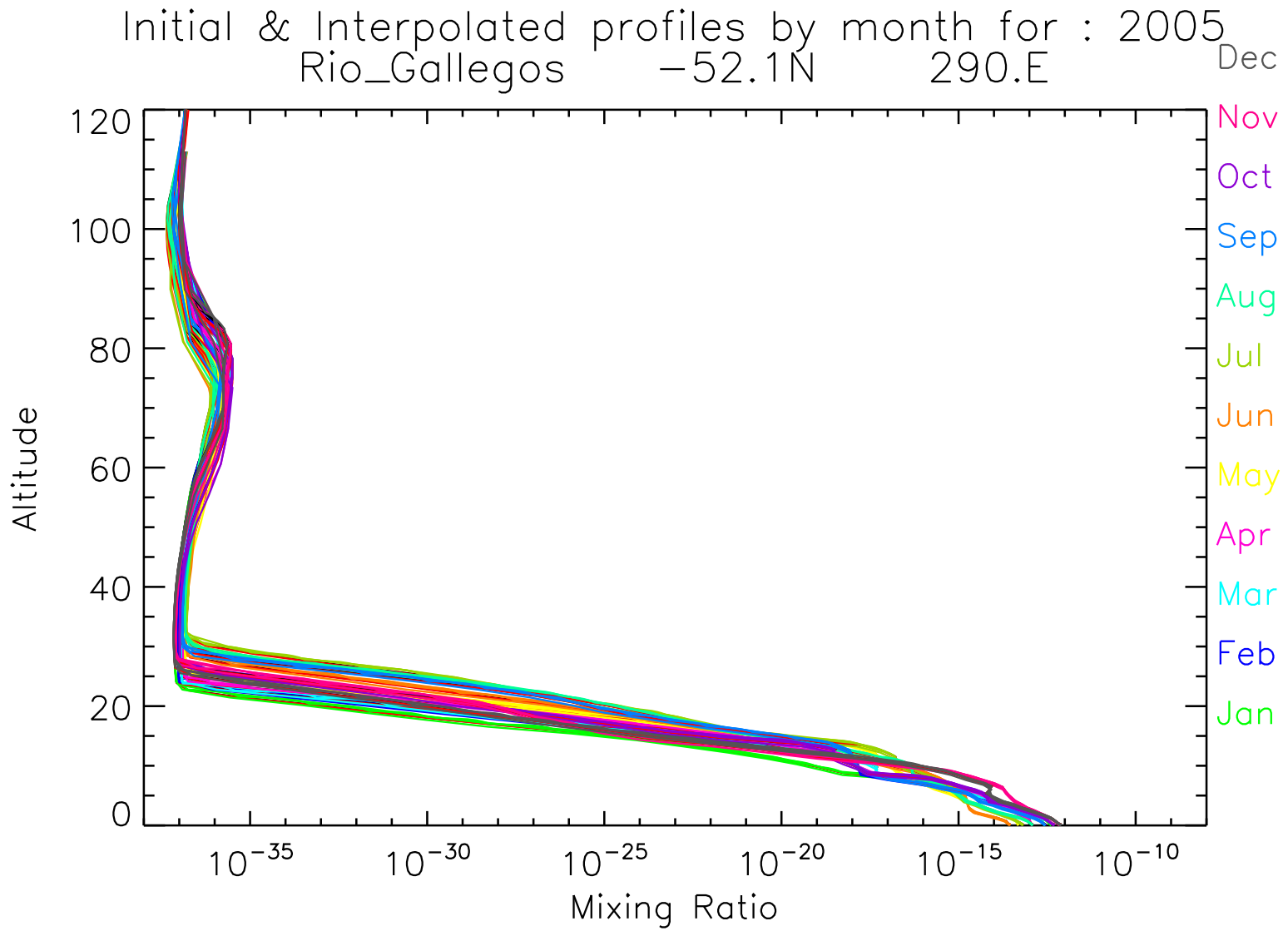
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Rio_Gallegos −52.1N 290.E
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Altitude
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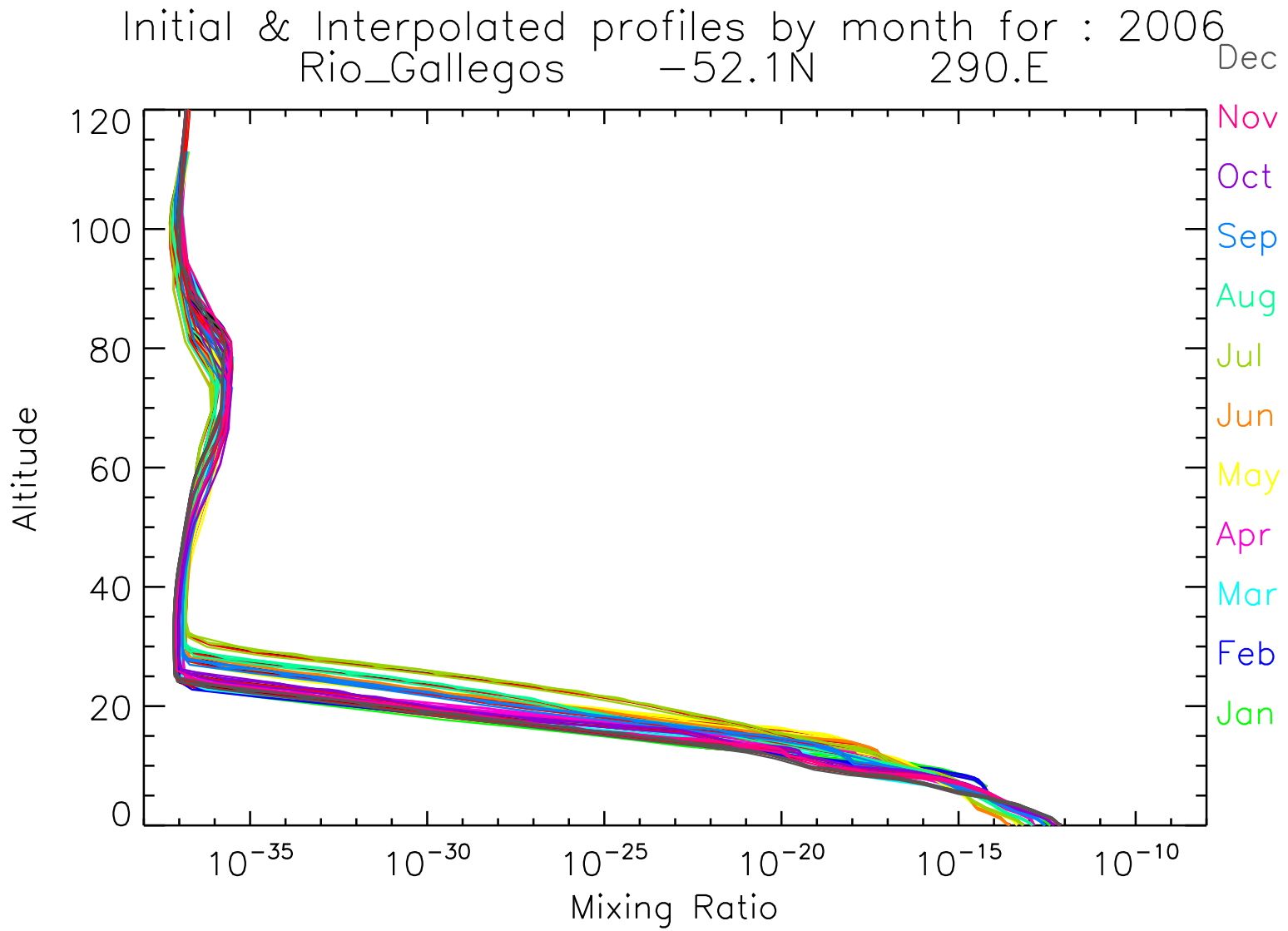
Mixing Ratio


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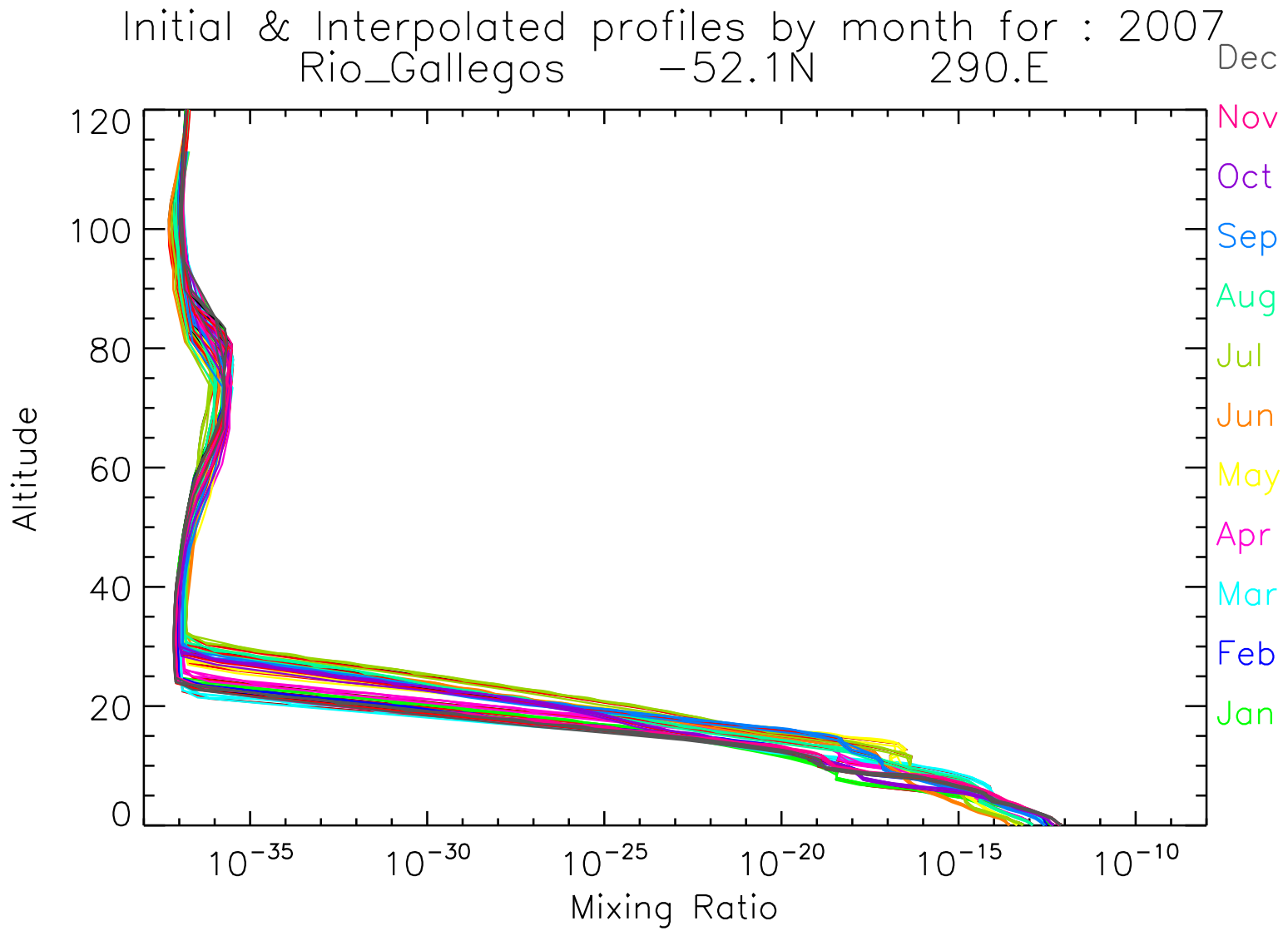
$10^{-10}$
Mixing Ratio


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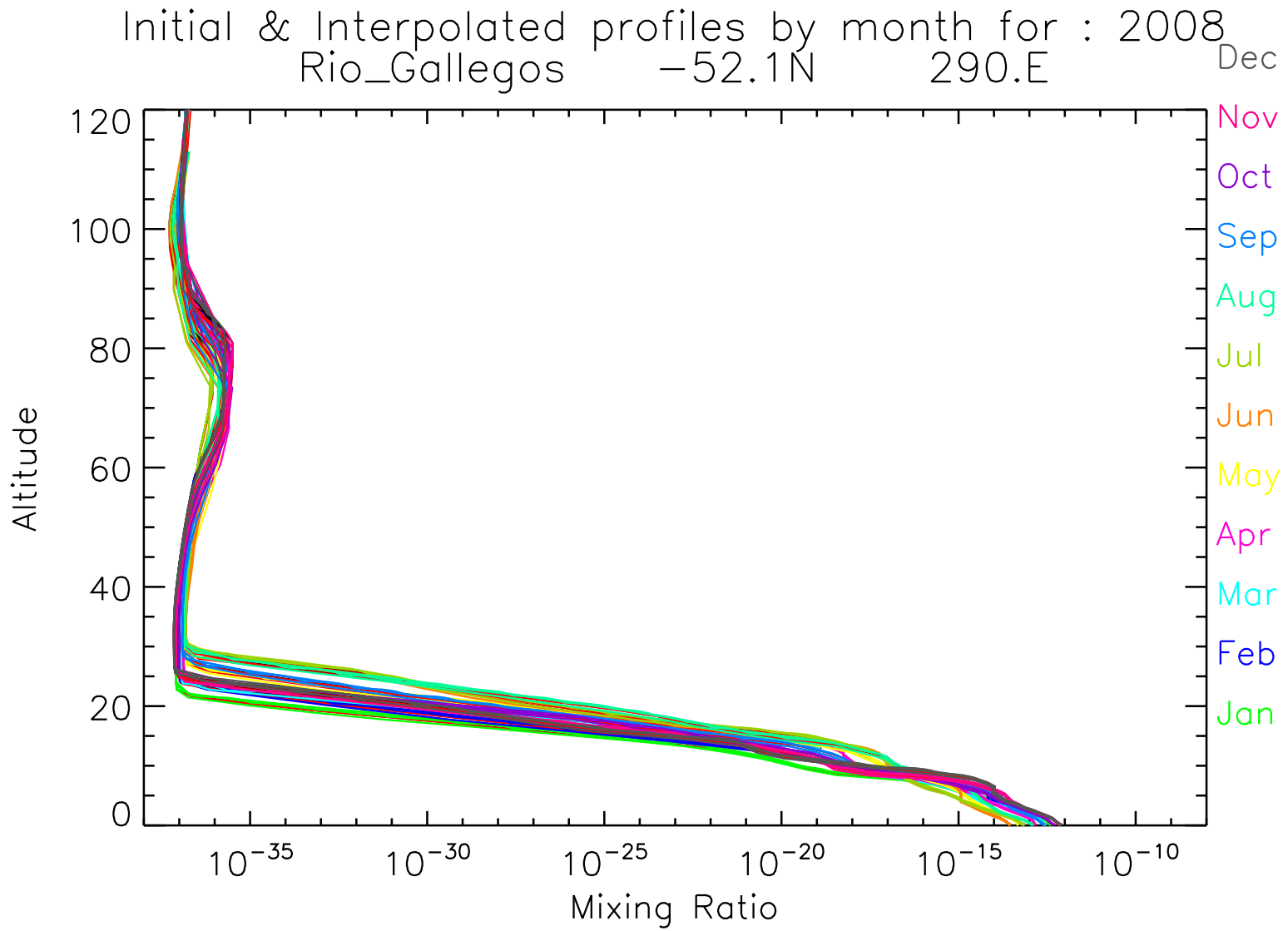
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2008
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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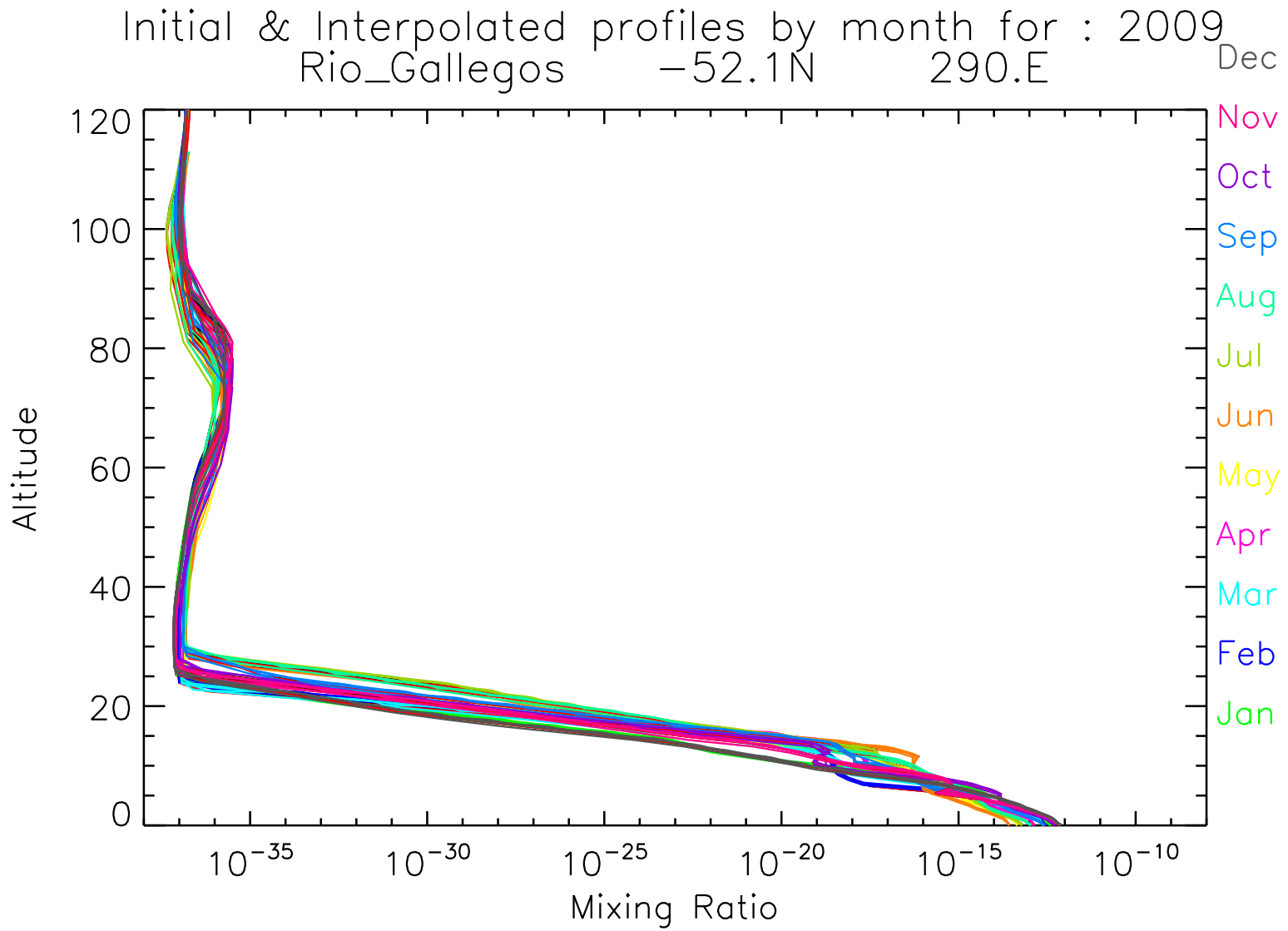
$10^{-15}$
$10^{-10}$
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Rio_Gallegos −52.1N 290.E
Dec
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Altitude
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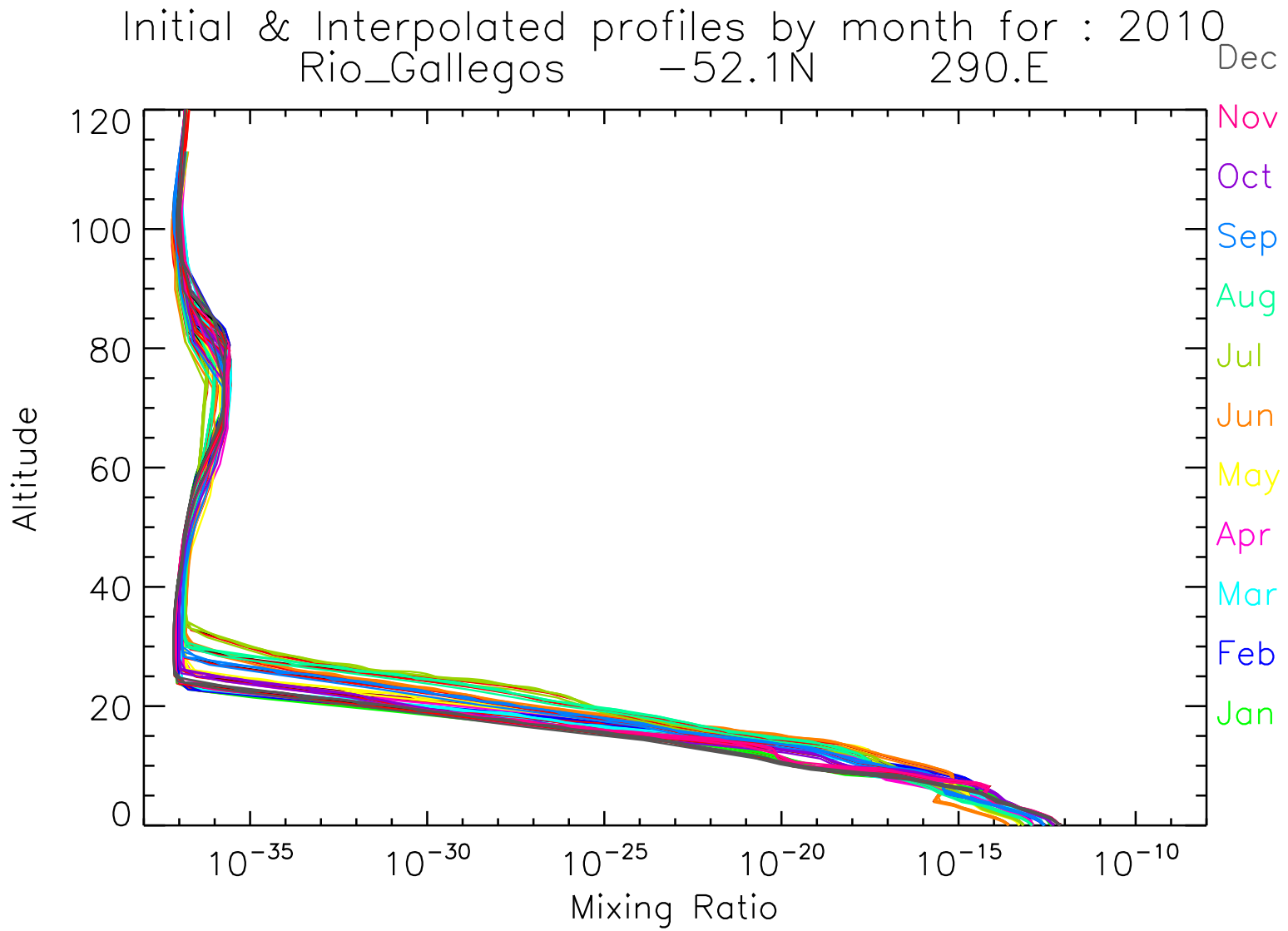
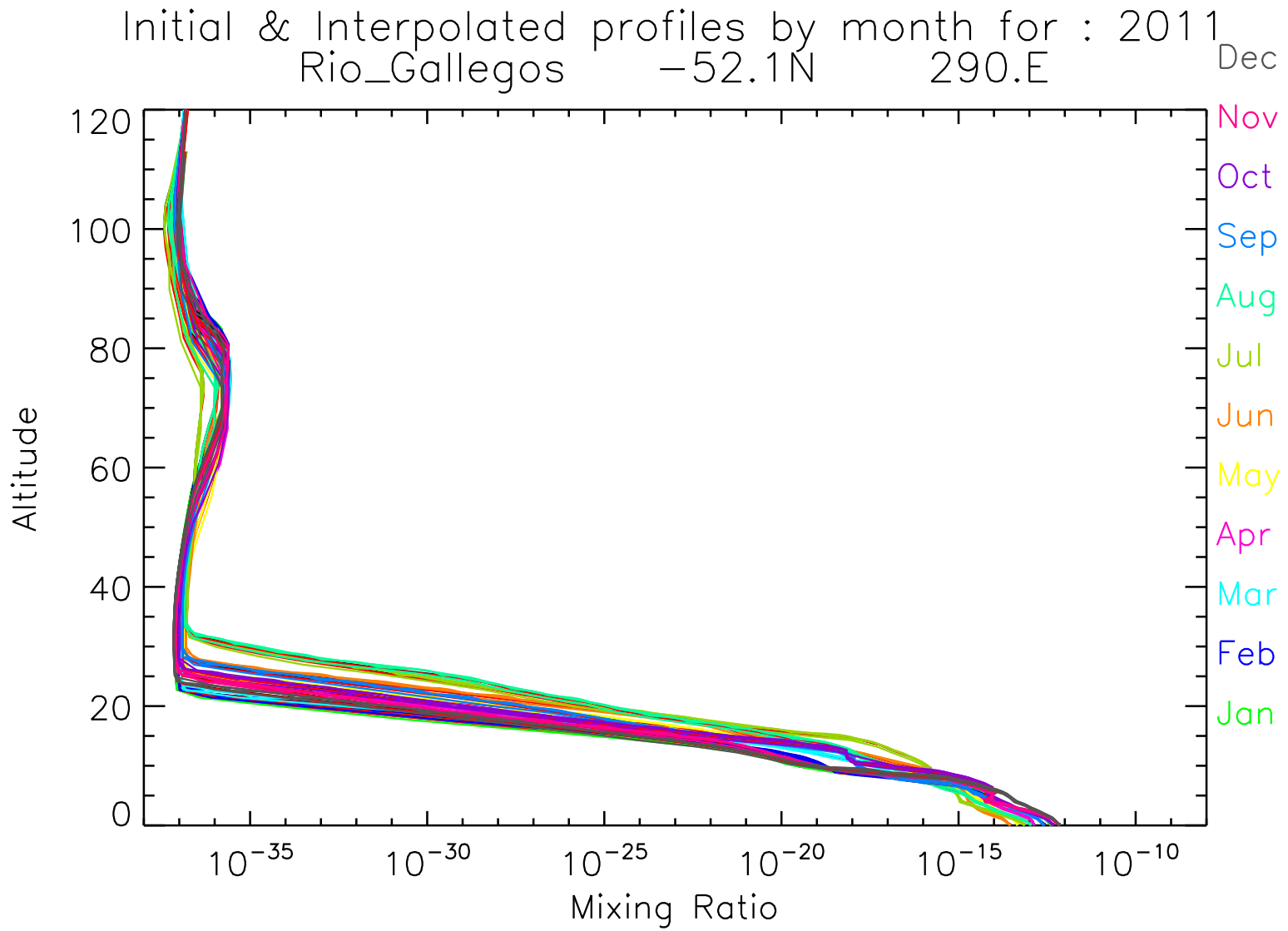
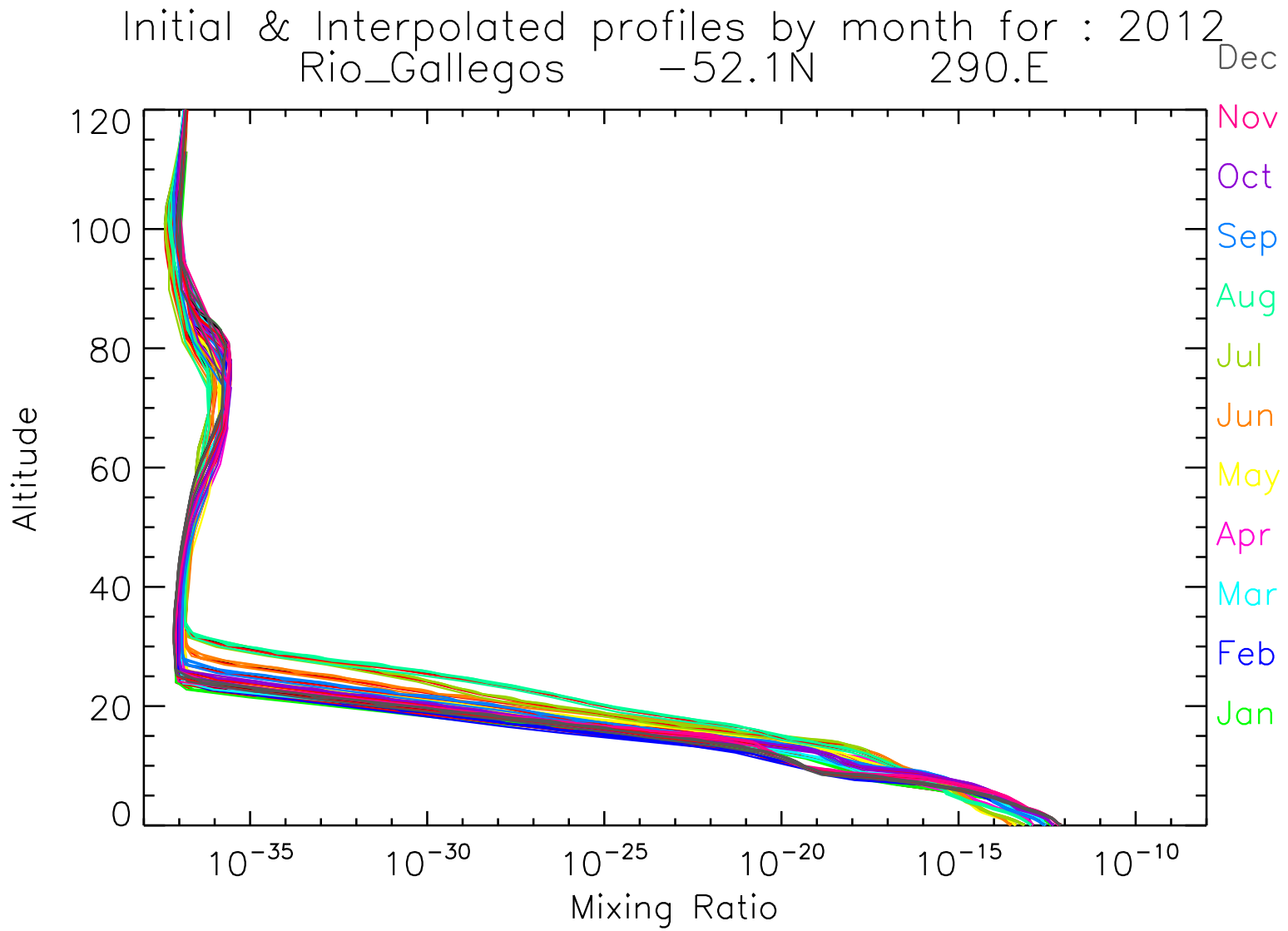
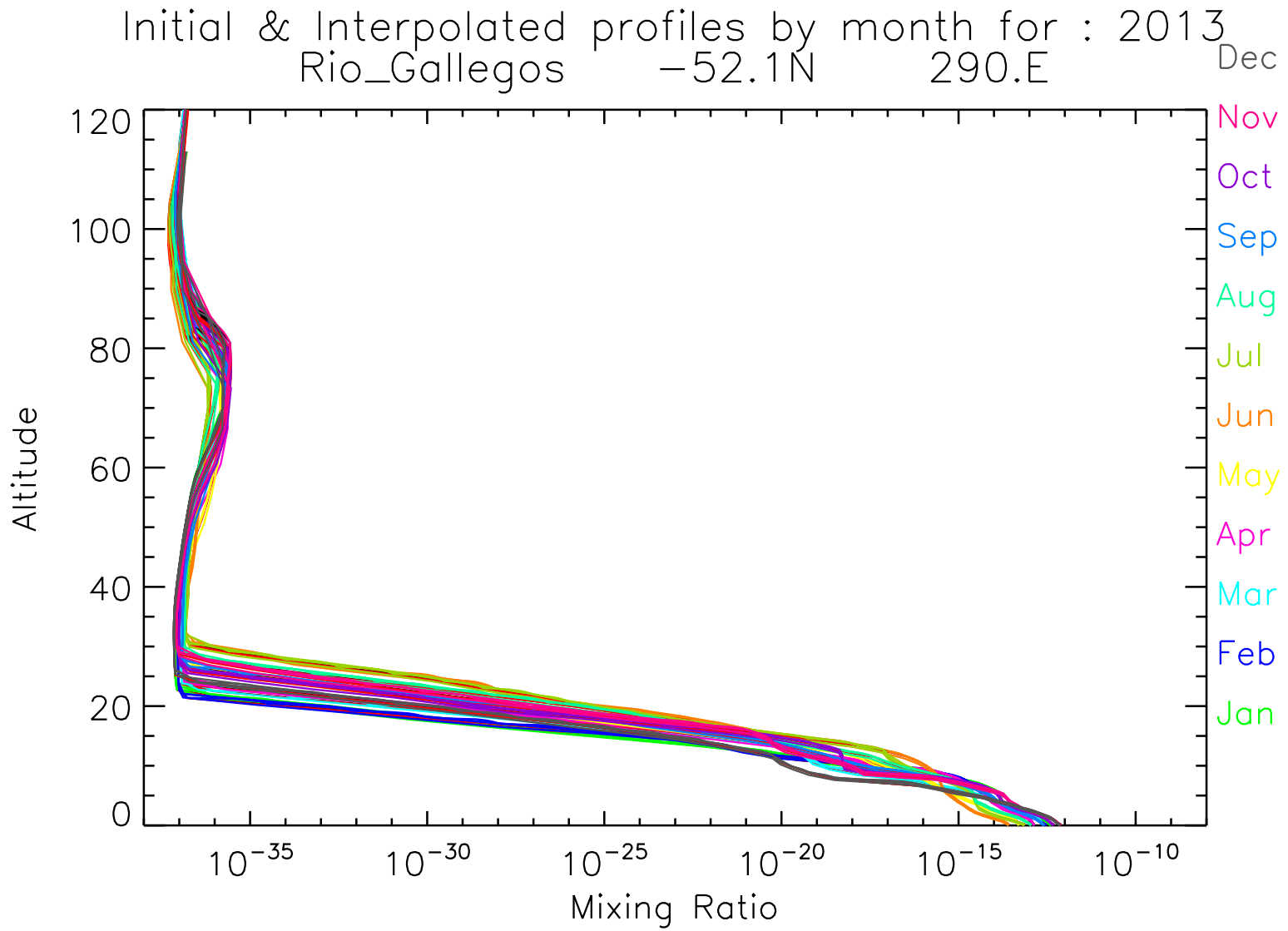
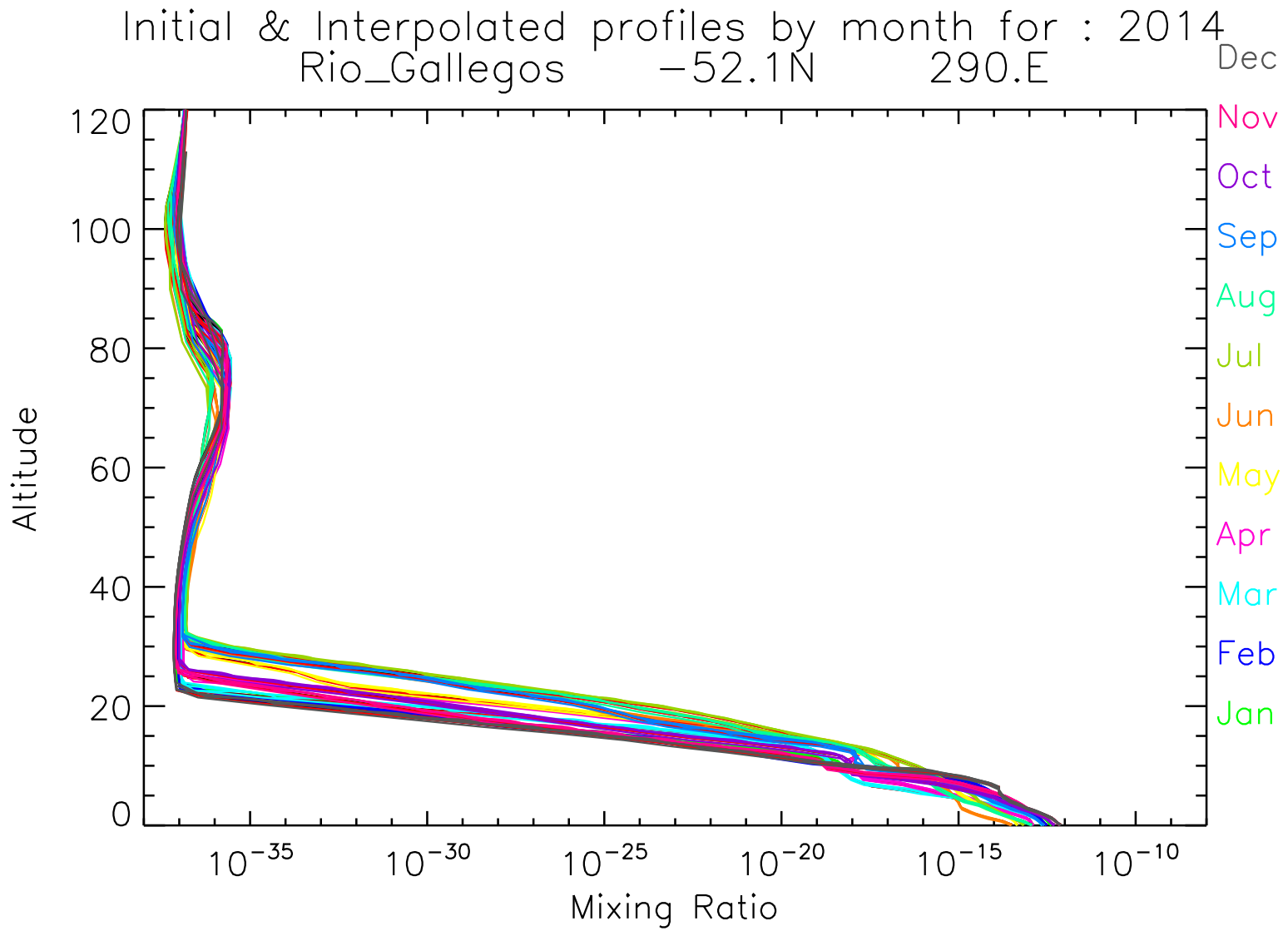
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

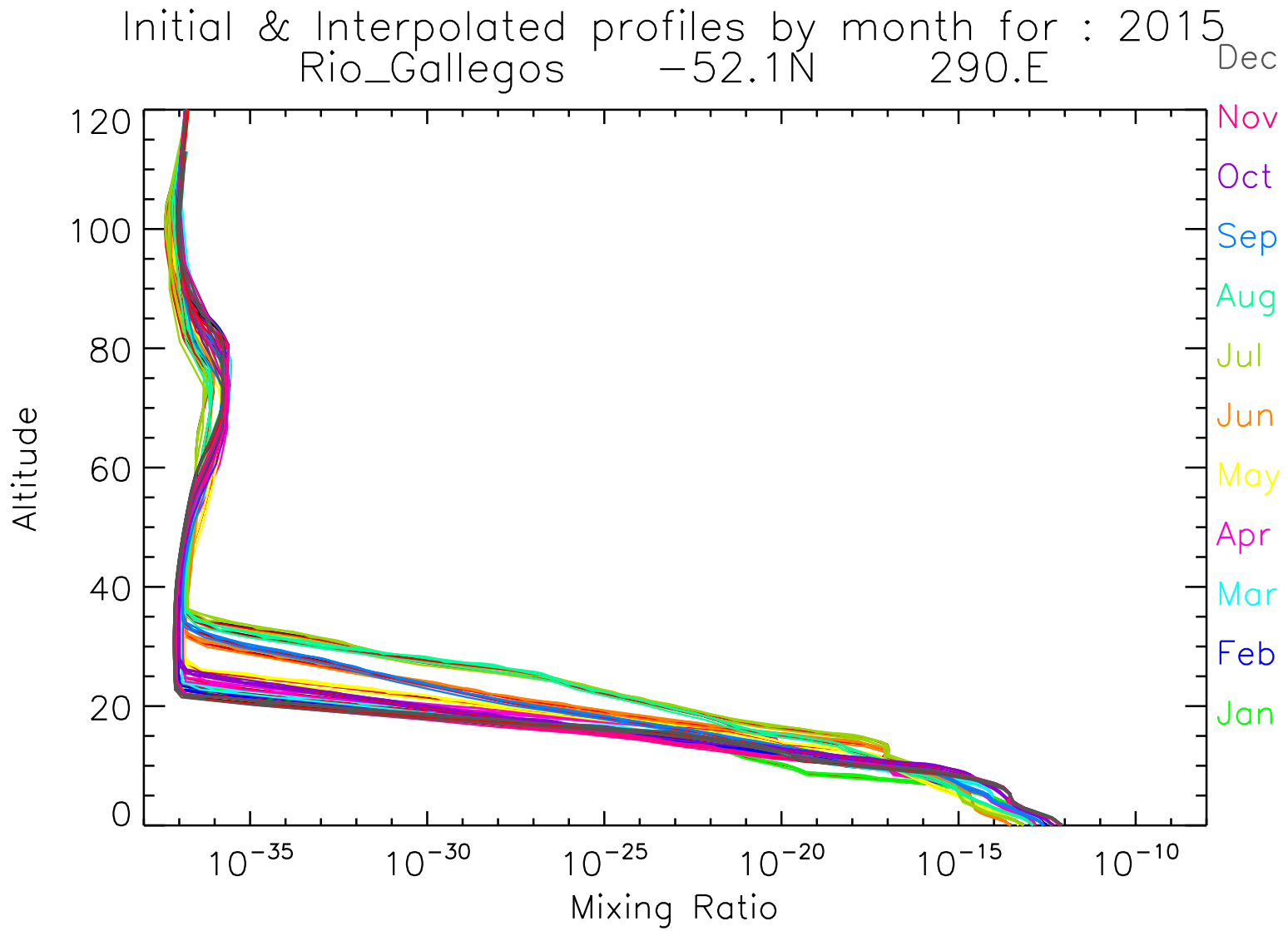

Initial & Interpolated profiles by month for : 2010
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

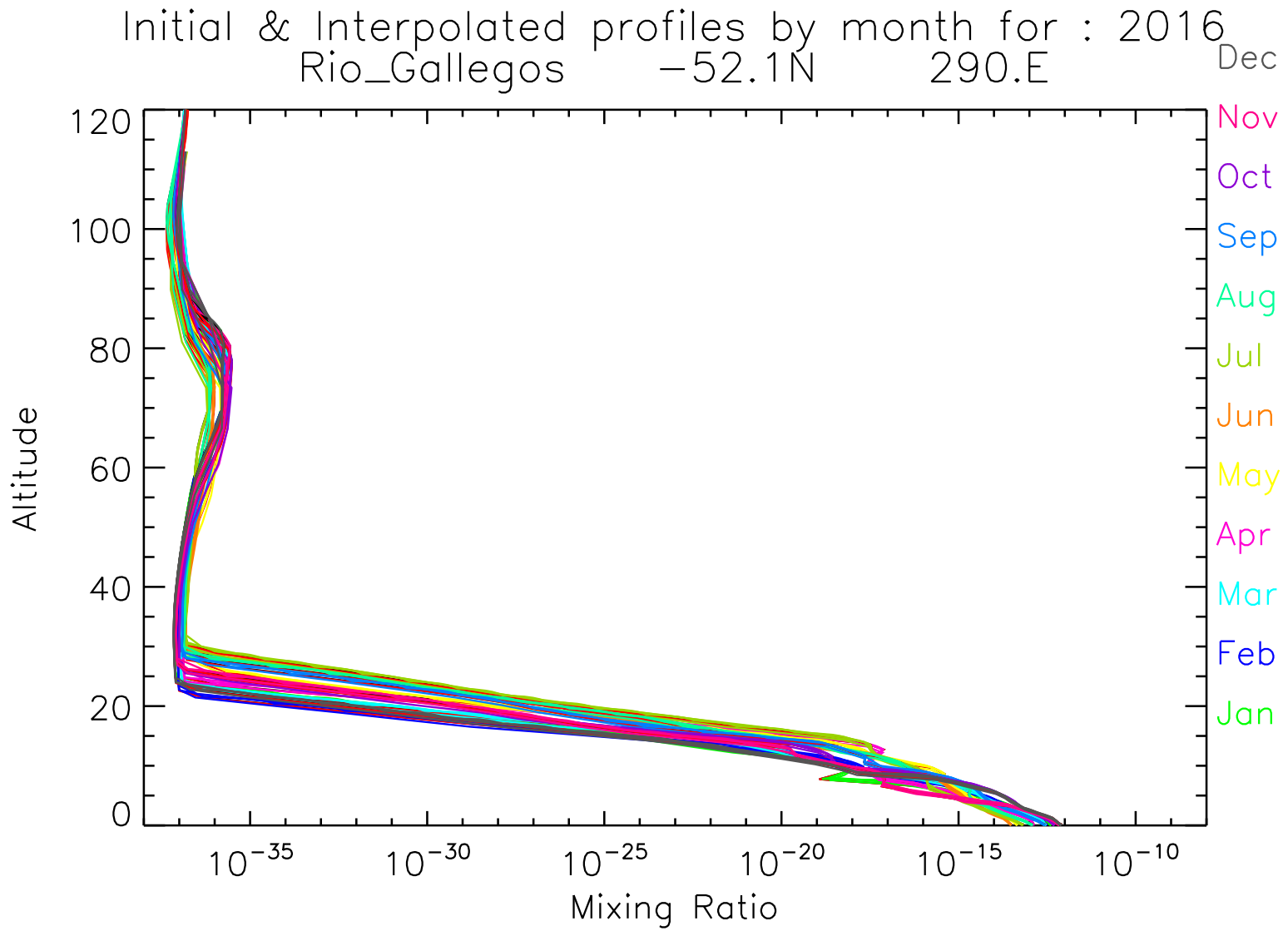

Initial & Interpolated profiles by month for : 2011
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

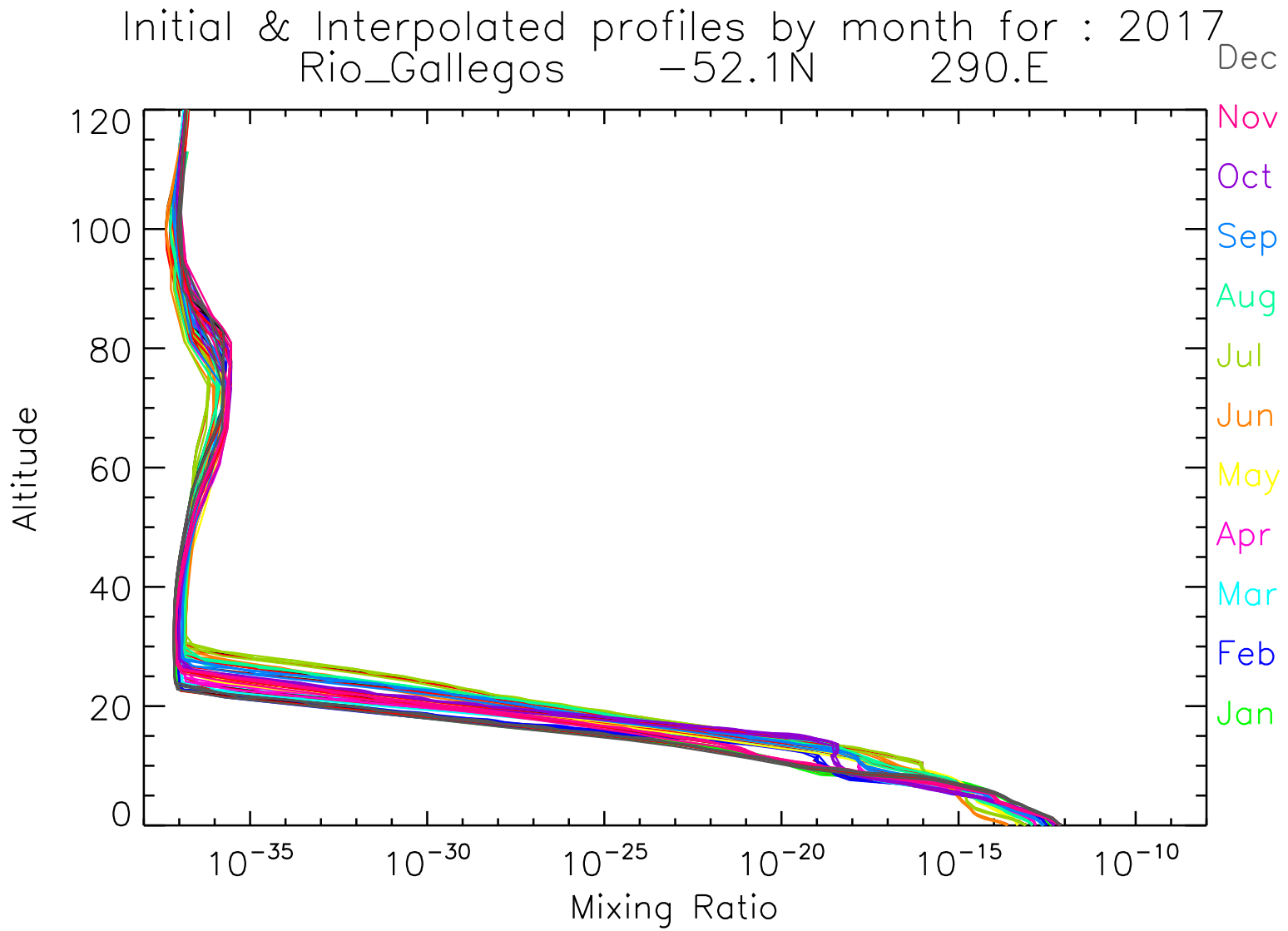

Initial & Interpolated profiles by month for : 2012
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

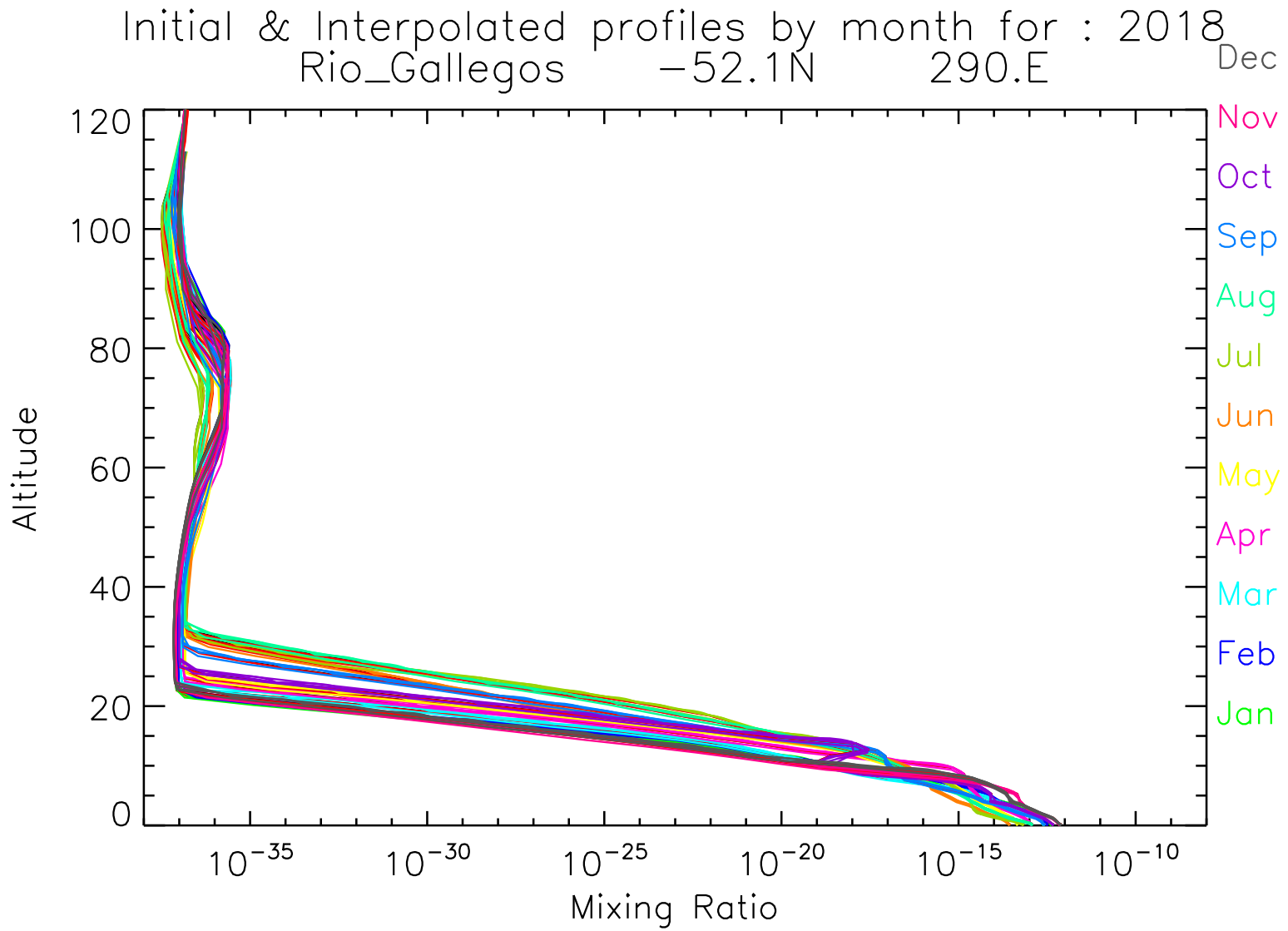

Initial & Interpolated profiles by month for : 2013
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

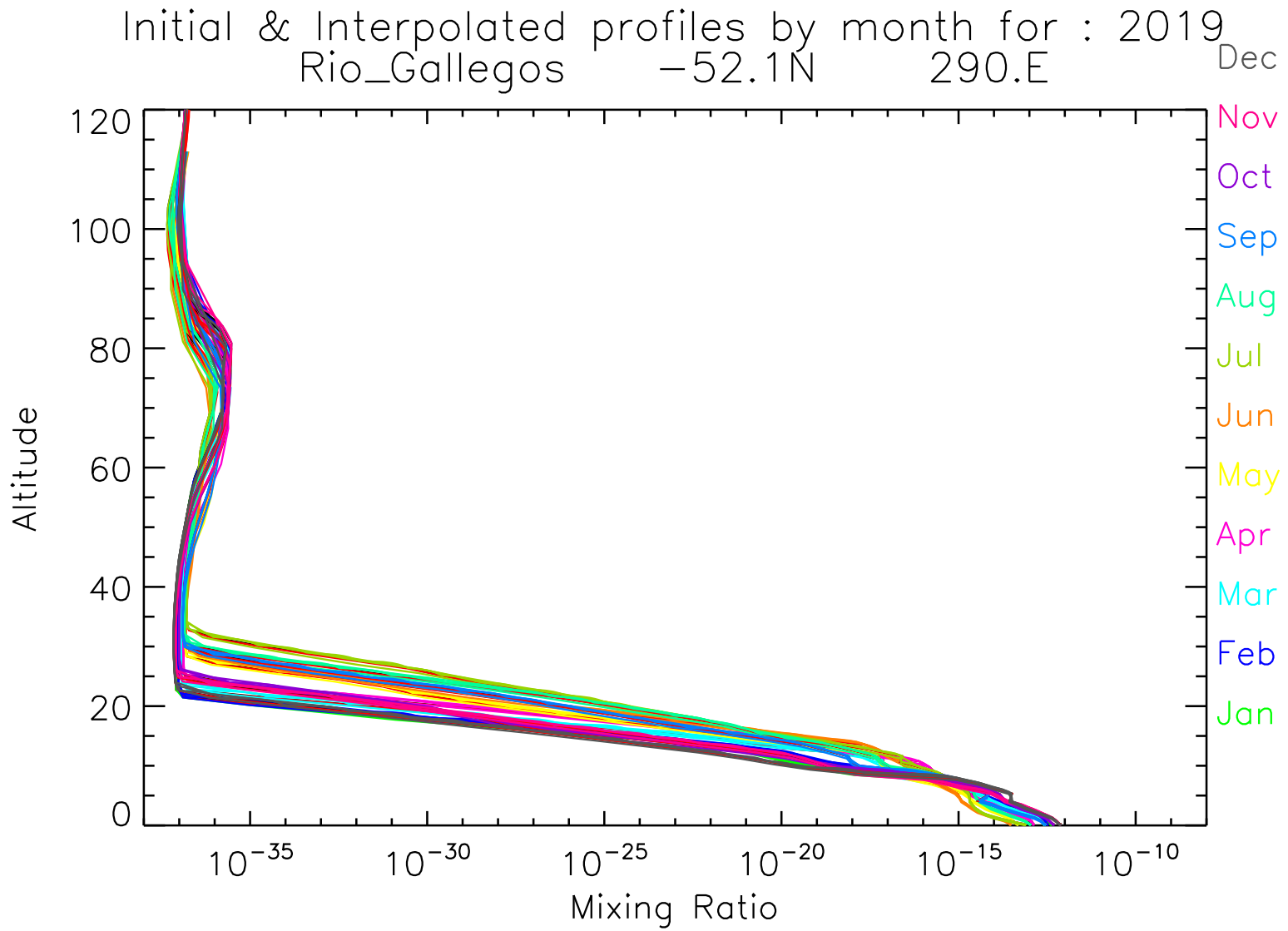

Initial & Interpolated profiles by month for : 2014
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

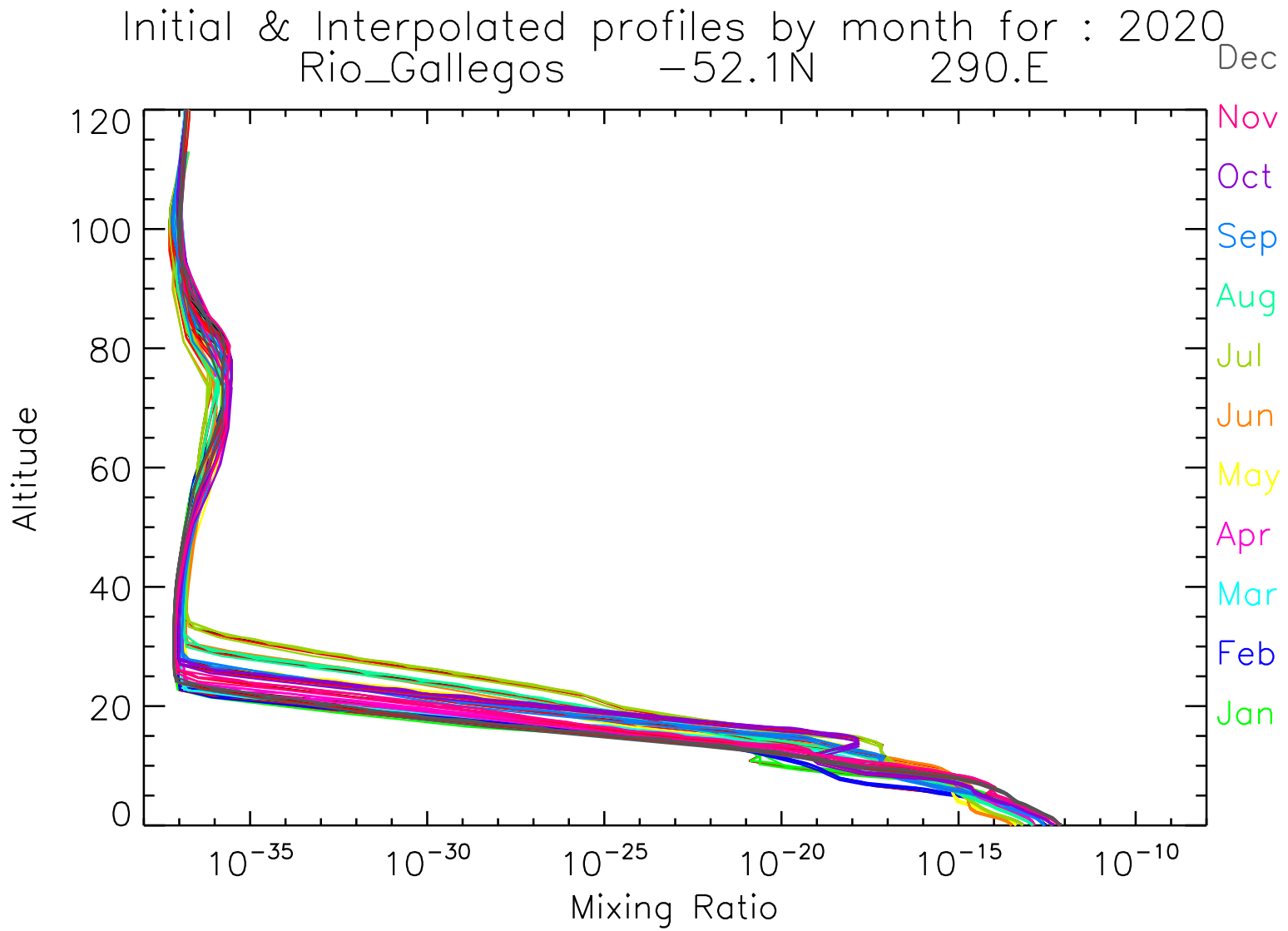

Initial & Interpolated profiles by month for : 2015
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

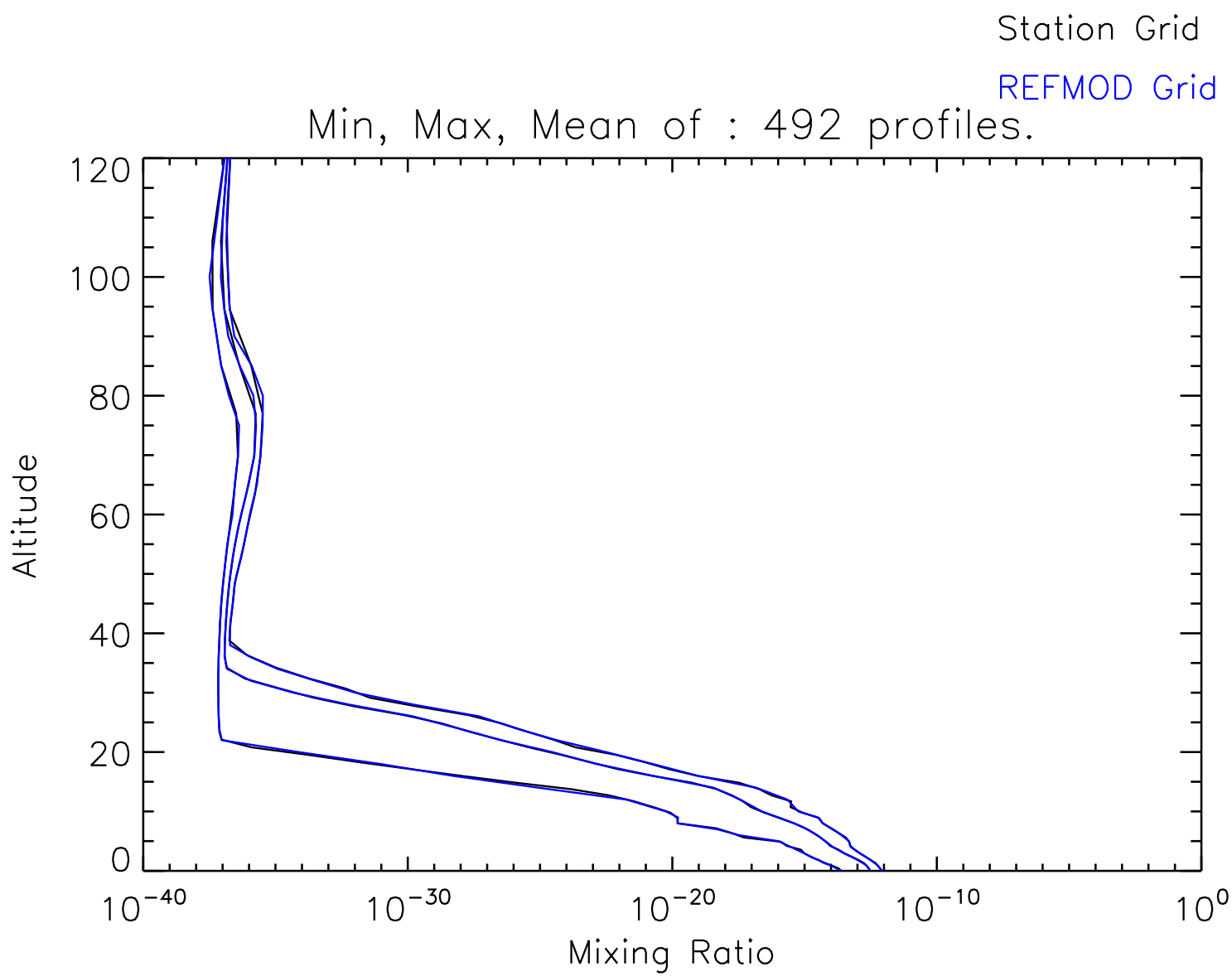

Initial & Interpolated profiles by month for : 2016
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

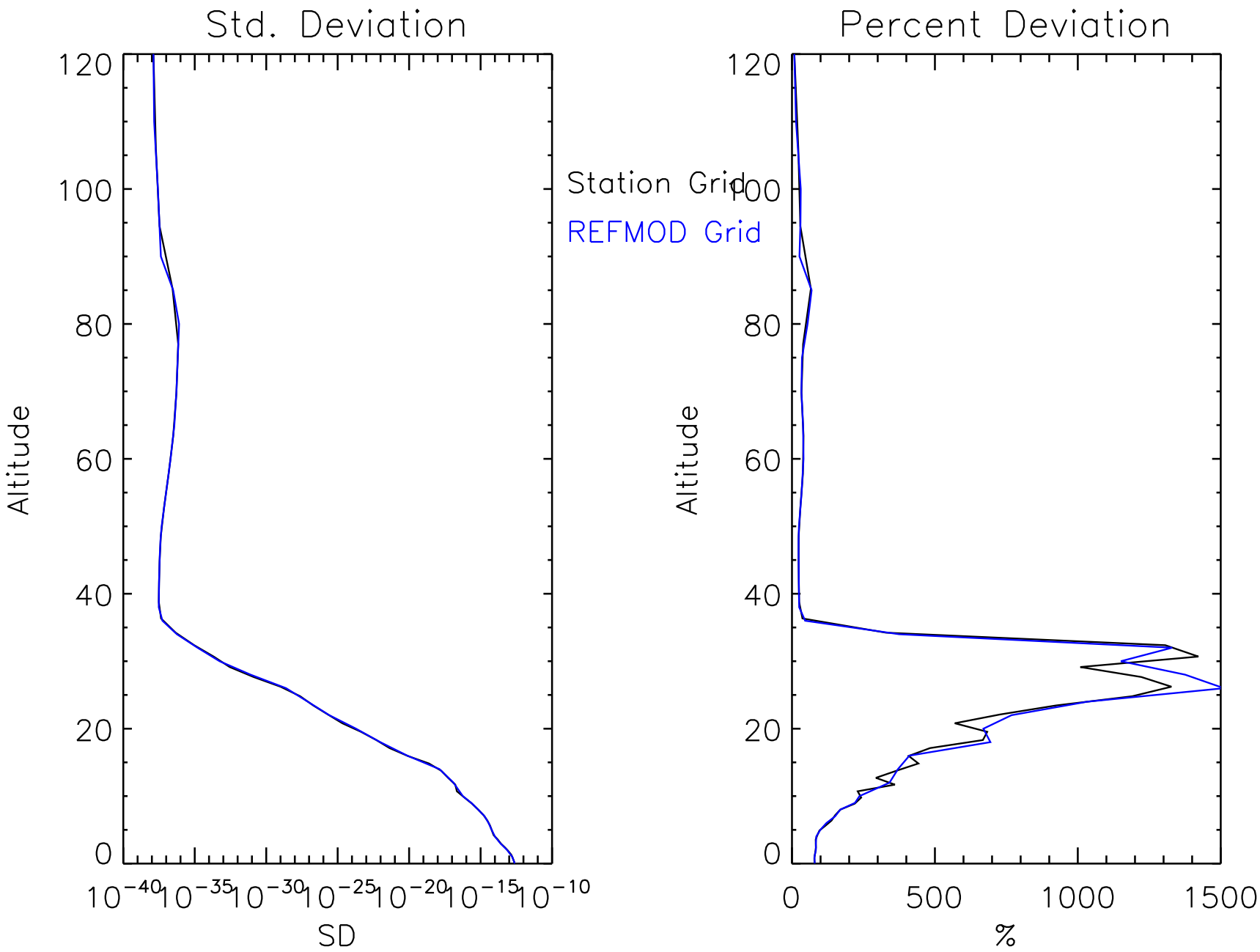

Initial & Interpolated profiles by month for : 2017
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

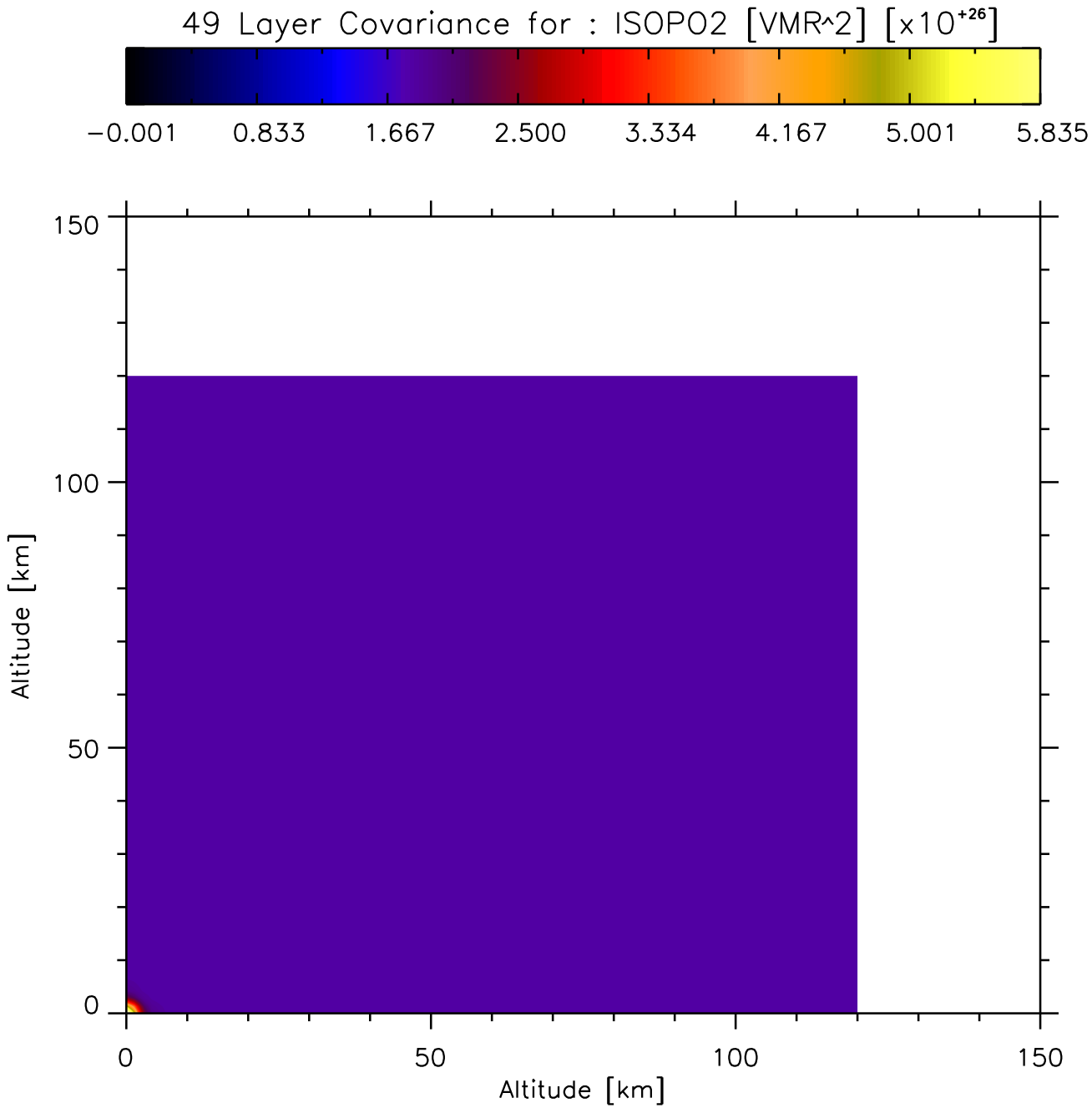

Initial & Interpolated profiles by month for : 2018
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

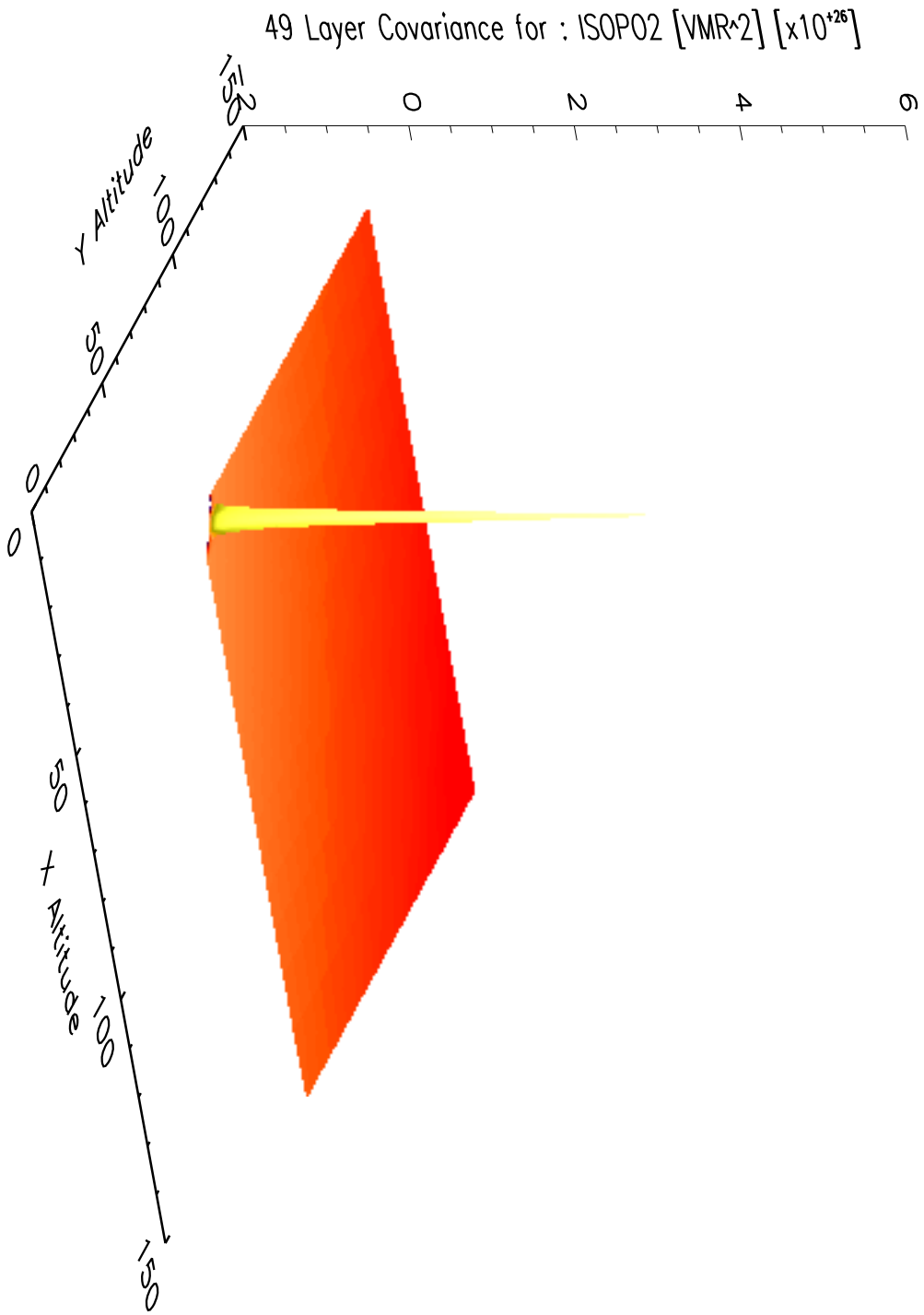

Initial & Interpolated profiles by month for : 2019
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

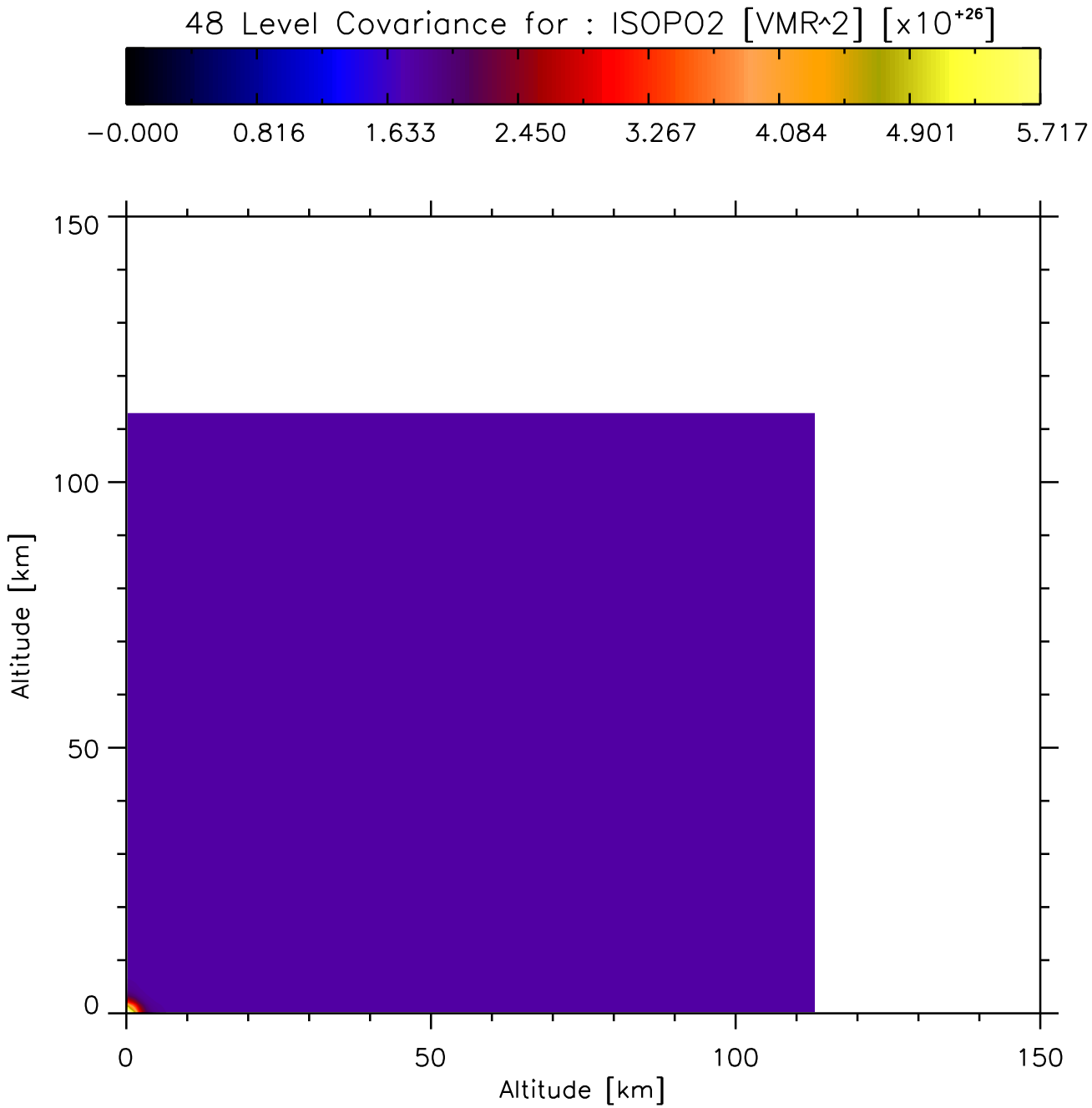

Initial & Interpolated profiles by month for : 2020
Rio_Gallegos −52.1N 290.E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
Altitude
120
100
80
60
40
20
0
$10^{-35}$
$10^{-30}$
$10^{-25}$
$10^{-20}$
$10^{-15}$
$10^{-10}$
Mixing Ratio

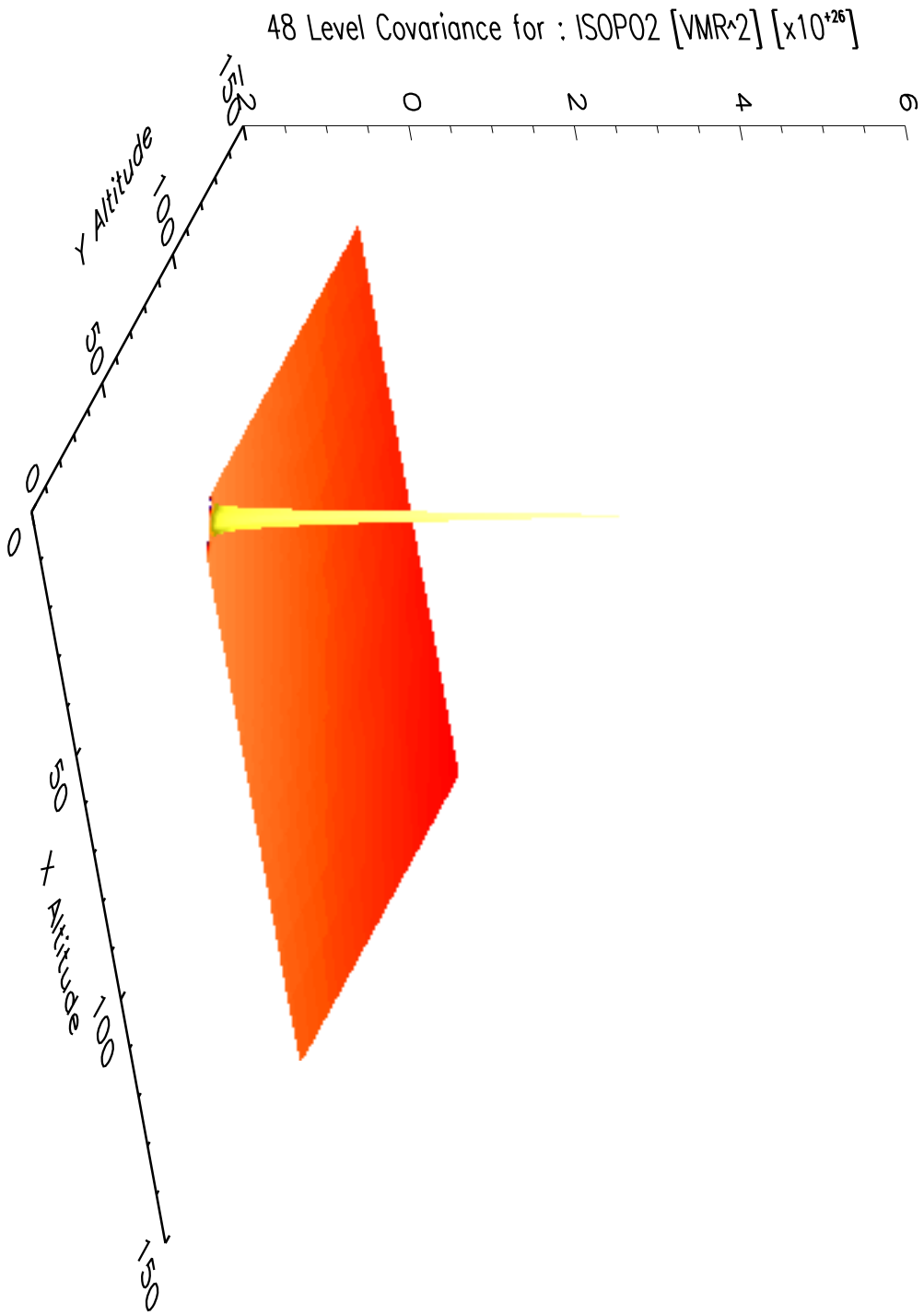

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
Altitude
120
100
80
60
40
20
0
$10^{-40}$
$10^{-30}$
$10^{-20}$
$10^{-10}$
$10^{0}$
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
$10^{-40}$ $10^{-35}$ $10^{-30}$ $10^{-25}$ $10^{-20}$ $10^{-15}$ $10^{-10}$
SD
0
500
1000
1500
%


49 Layer Covariance for : ISOPO2 [VMR^2] [x10^+26]
−0.001
0.833
1.667
2.500
3.334
4.167
5.001
5.835
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


49 Layer Covariance for : ISOPO2 [VMR^2] [x10^+26]
0
2
4
6
Y Altitude
150
100
50
0
0
50
100
150
X Altitude


48 Level Covariance for : ISOPO2 [VMR^2] [x10^+26]
−0.000
0.816
1.633
2.450
3.267
4.084
4.901
5.717
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


48 Level Covariance for : ISOPO2 [VMR^2] [x10^+26]
0
2
4
6
Y Altitude
150
100
50
0
0
50
100
150
X Altitude