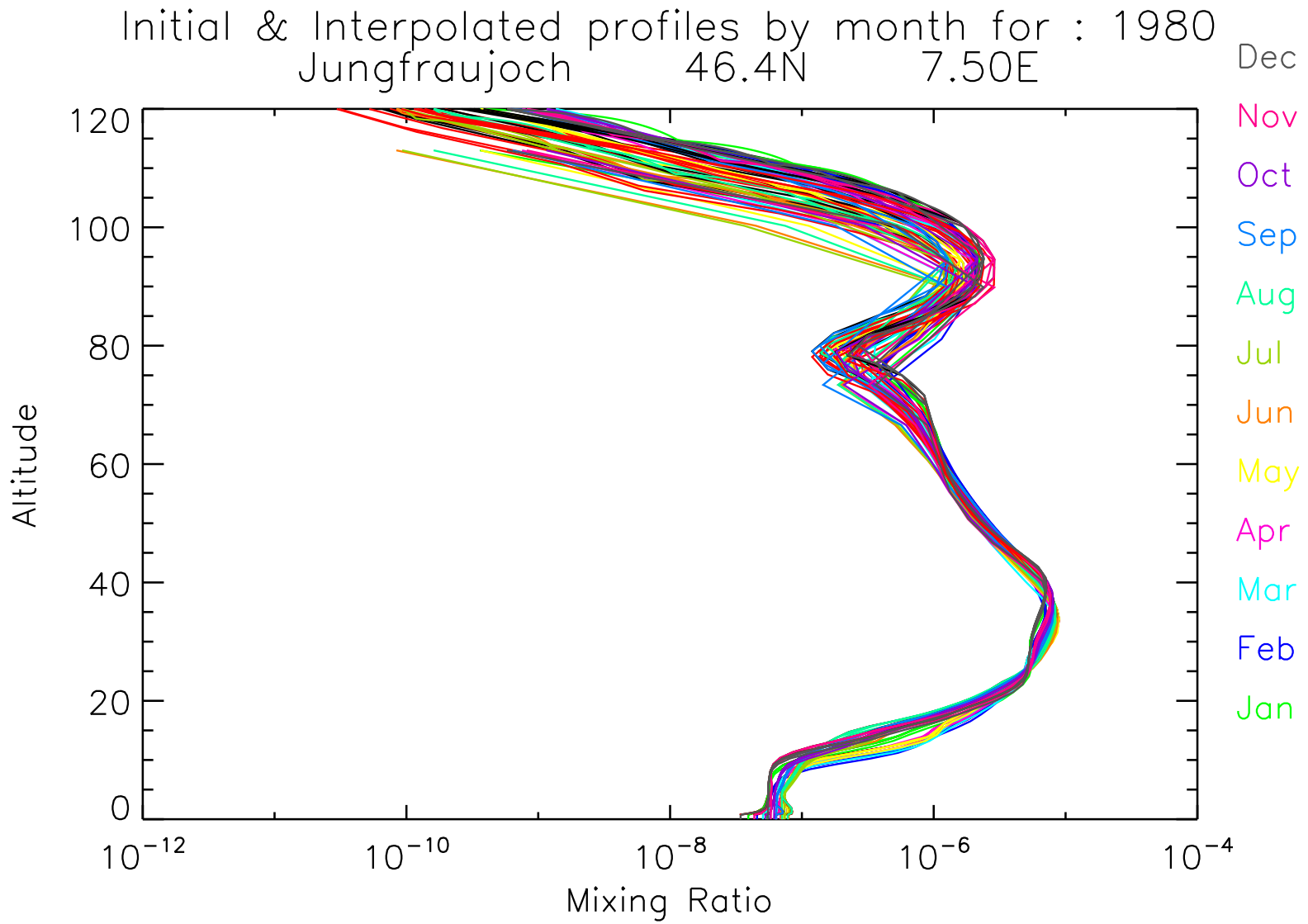
Initial & Interpolated profiles by month for : 1980
Jungfraujoch 46.4N 7.50E
Altitude
120
100
80
60
40
20
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10^{-12}
10^{-10}
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10^{-4}
Mixing Ratio
Dec
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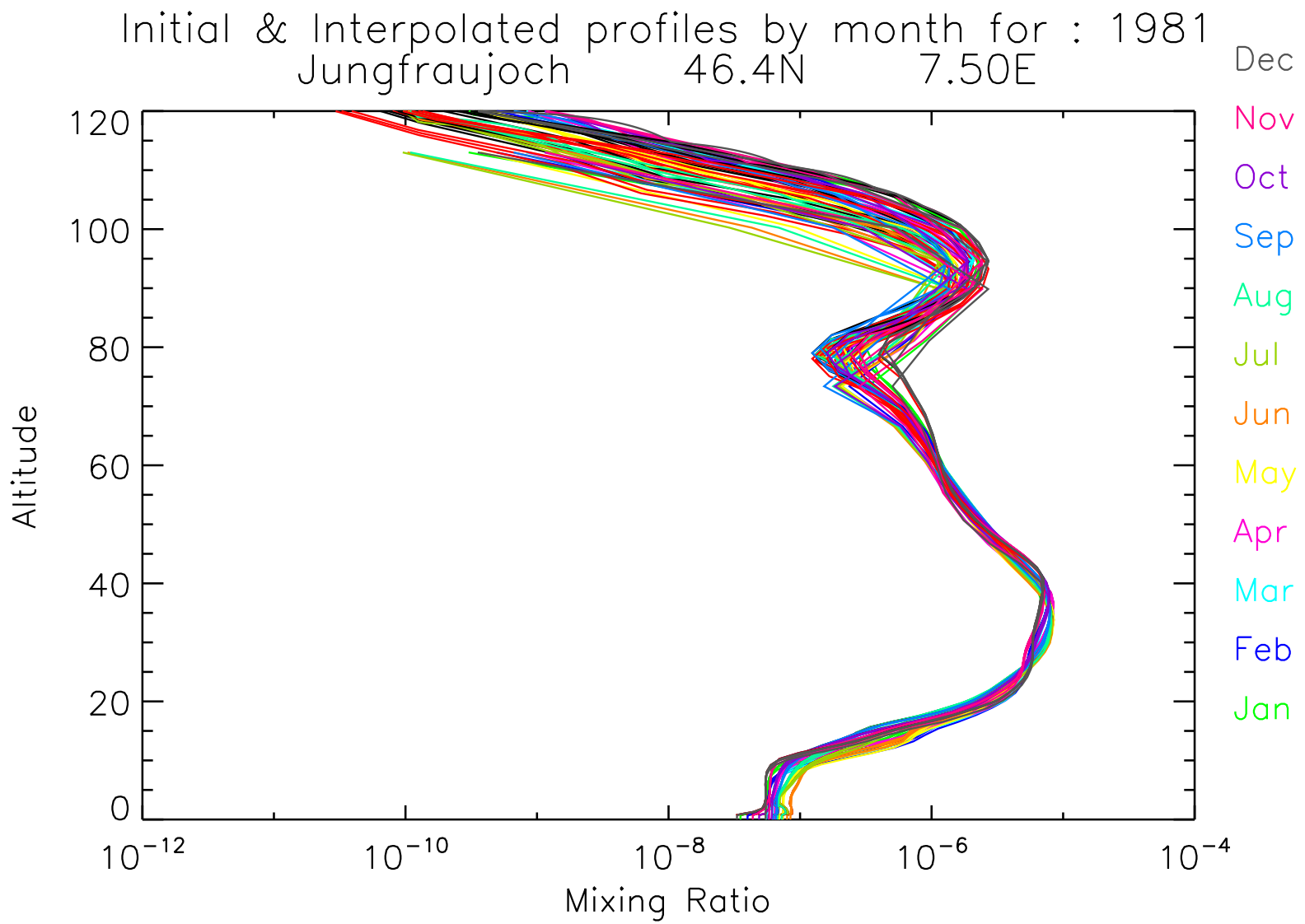
Initial & Interpolated profiles by month for : 1981
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
Sep
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Jul
Jun
May
Apr
Mar
Feb
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Altitude
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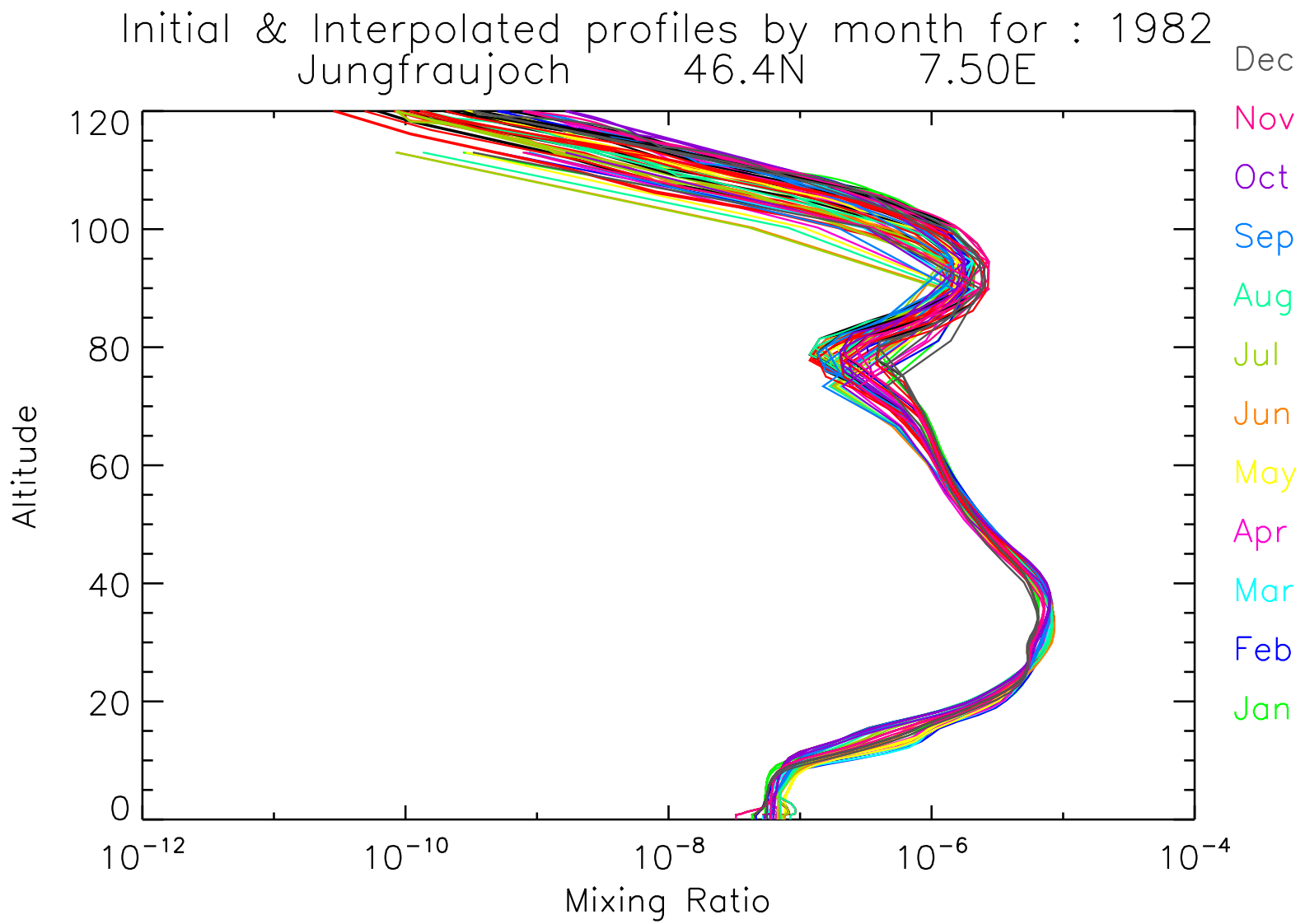
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1982
Jungfraujoch 46.4N 7.50E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
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10^{-4}
Mixing Ratio
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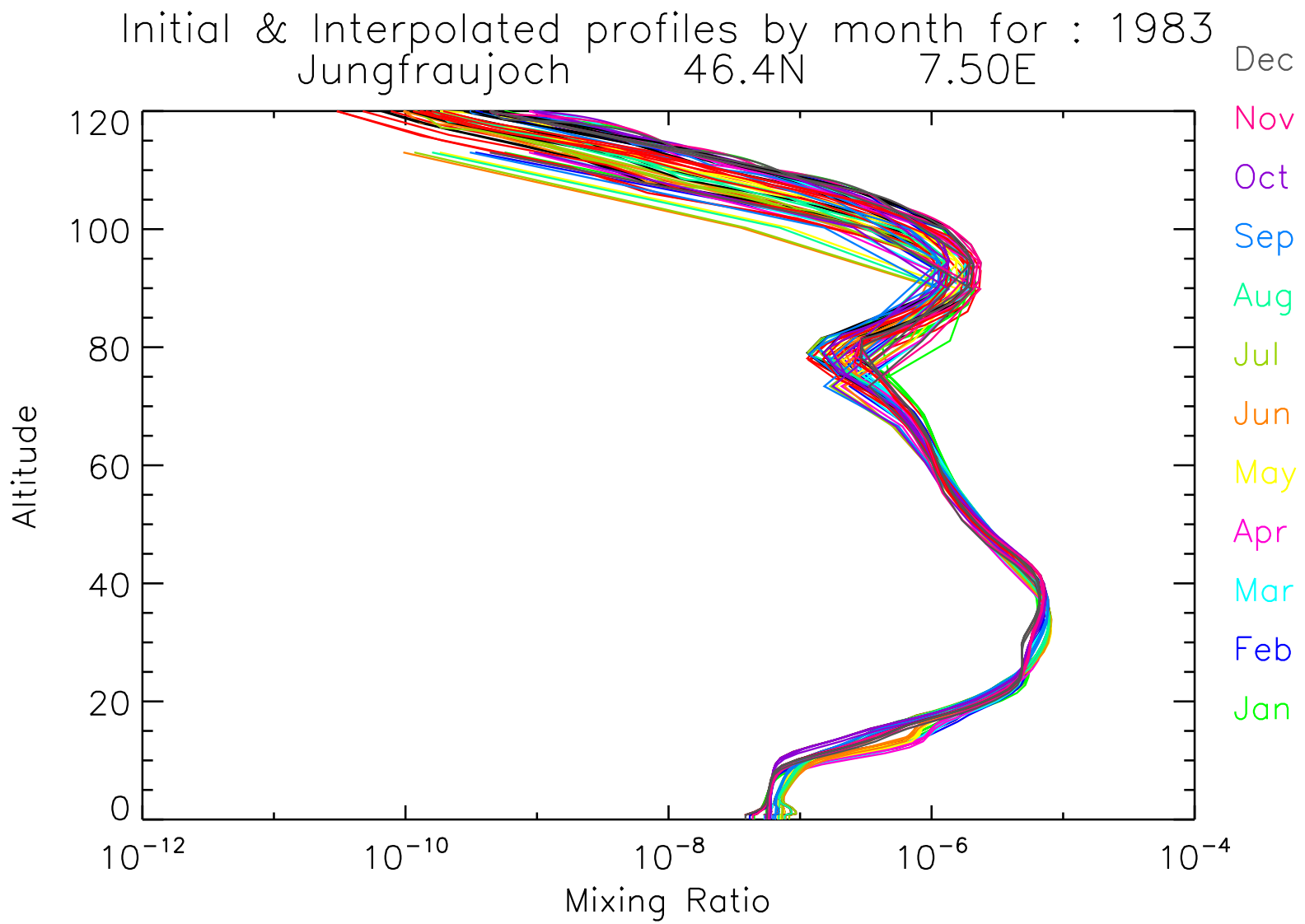
Initial & Interpolated profiles by month for : 1983
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
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Jul
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May
Apr
Mar
Feb
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Altitude
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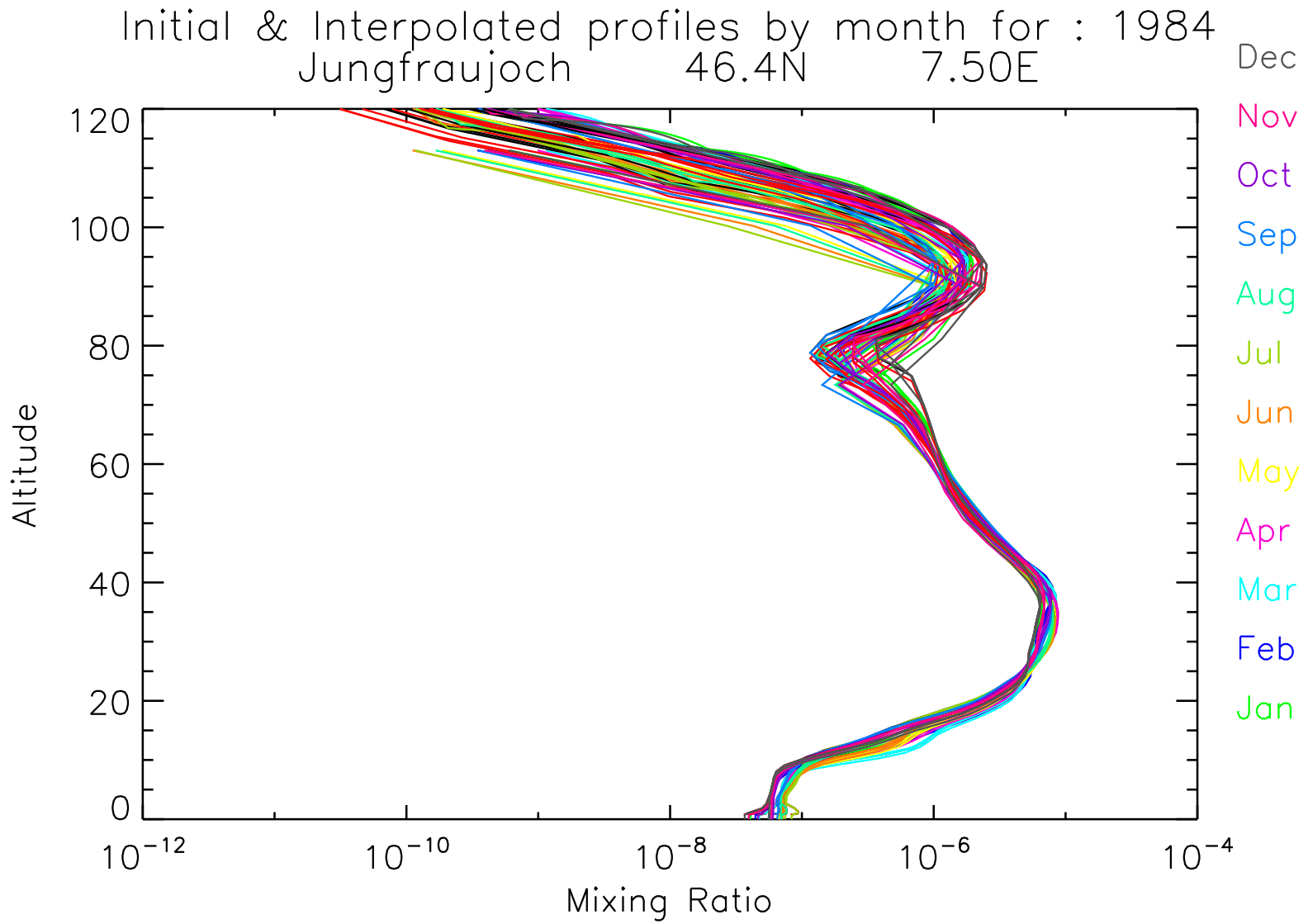
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1984
Jungfraujoch 46.4N 7.50E
Altitude
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100
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60
40
20
0
10^{-12}
10^{-10}
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Mixing Ratio
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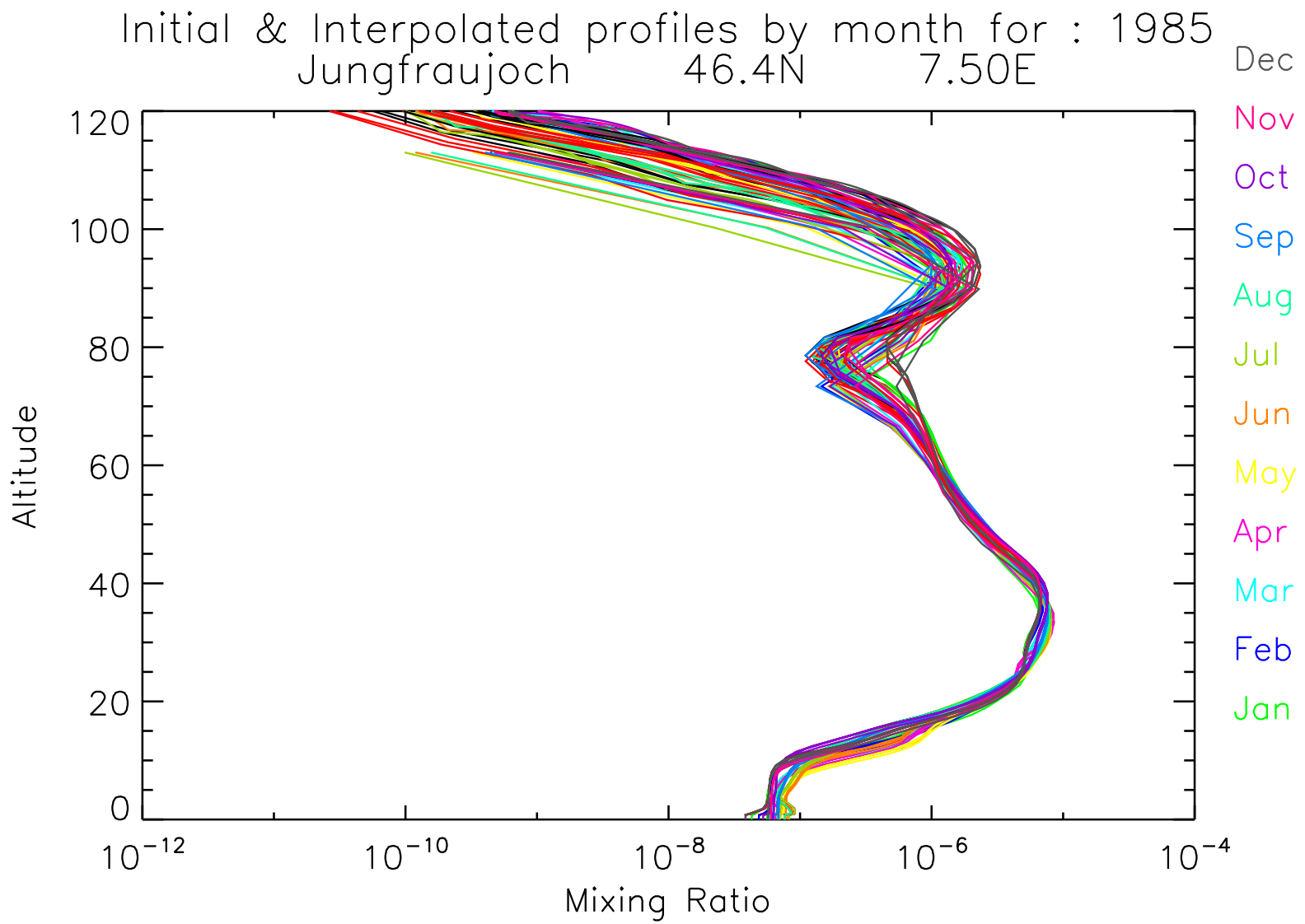
Initial & Interpolated profiles by month for : 1985
Jungfraujoch 46.4N 7.50E
Dec
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Feb
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Altitude
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10^{-8}
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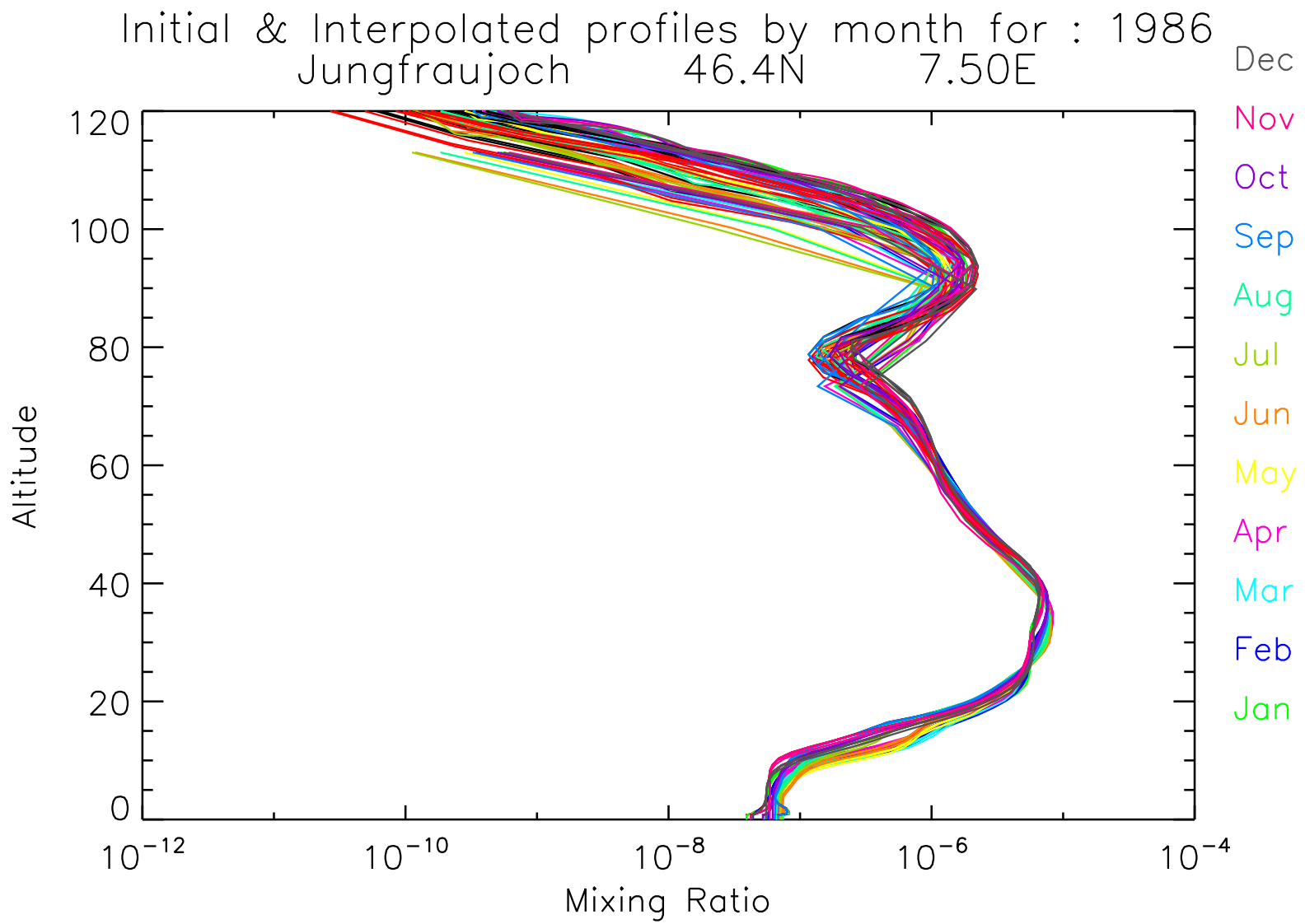
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1986
Jungfraujoch 46.4N 7.50E
Altitude
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40
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0
10^{-12}
10^{-10}
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10^{-4}
Mixing Ratio
Dec
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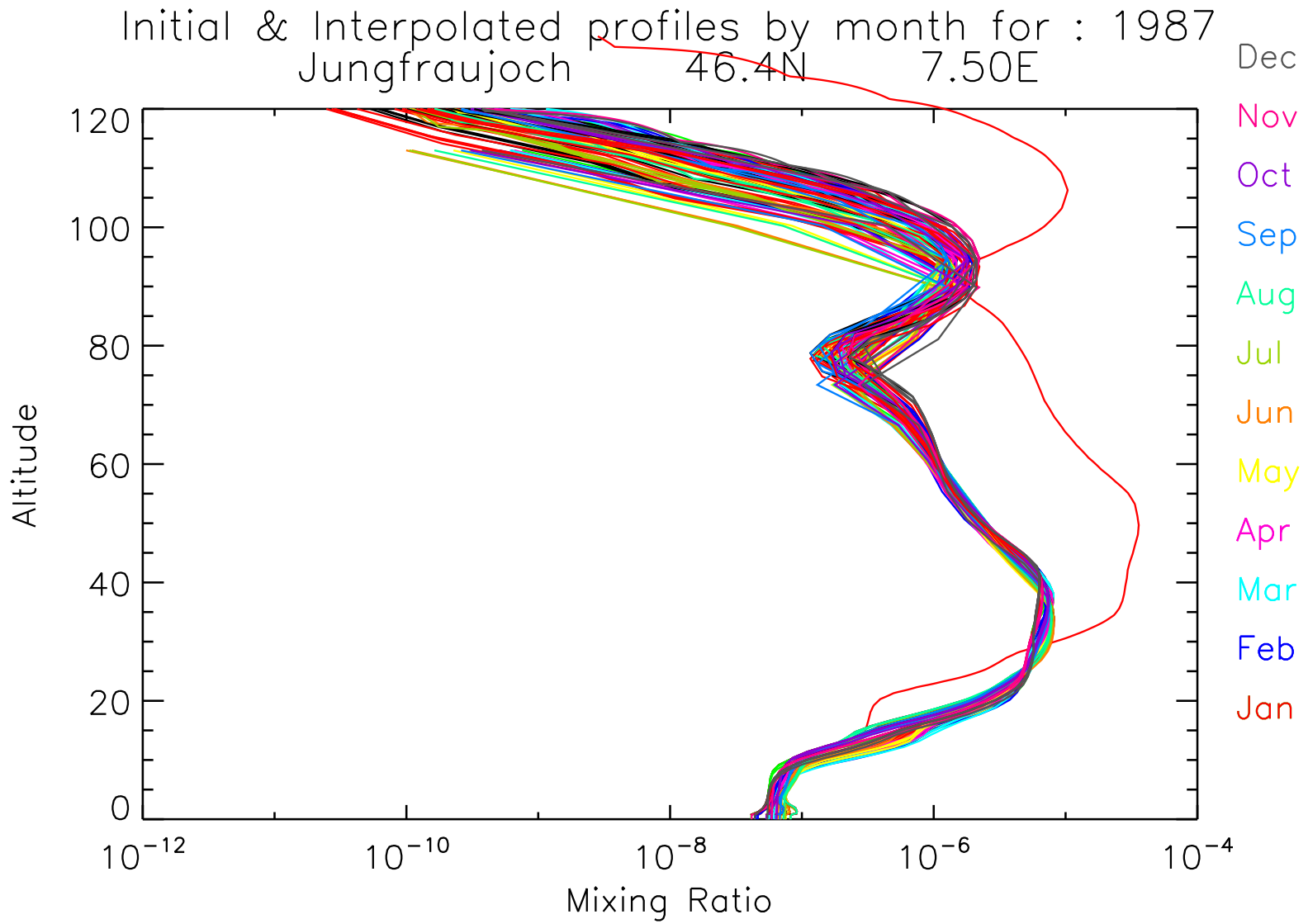
Initial & Interpolated profiles by month for : 1987
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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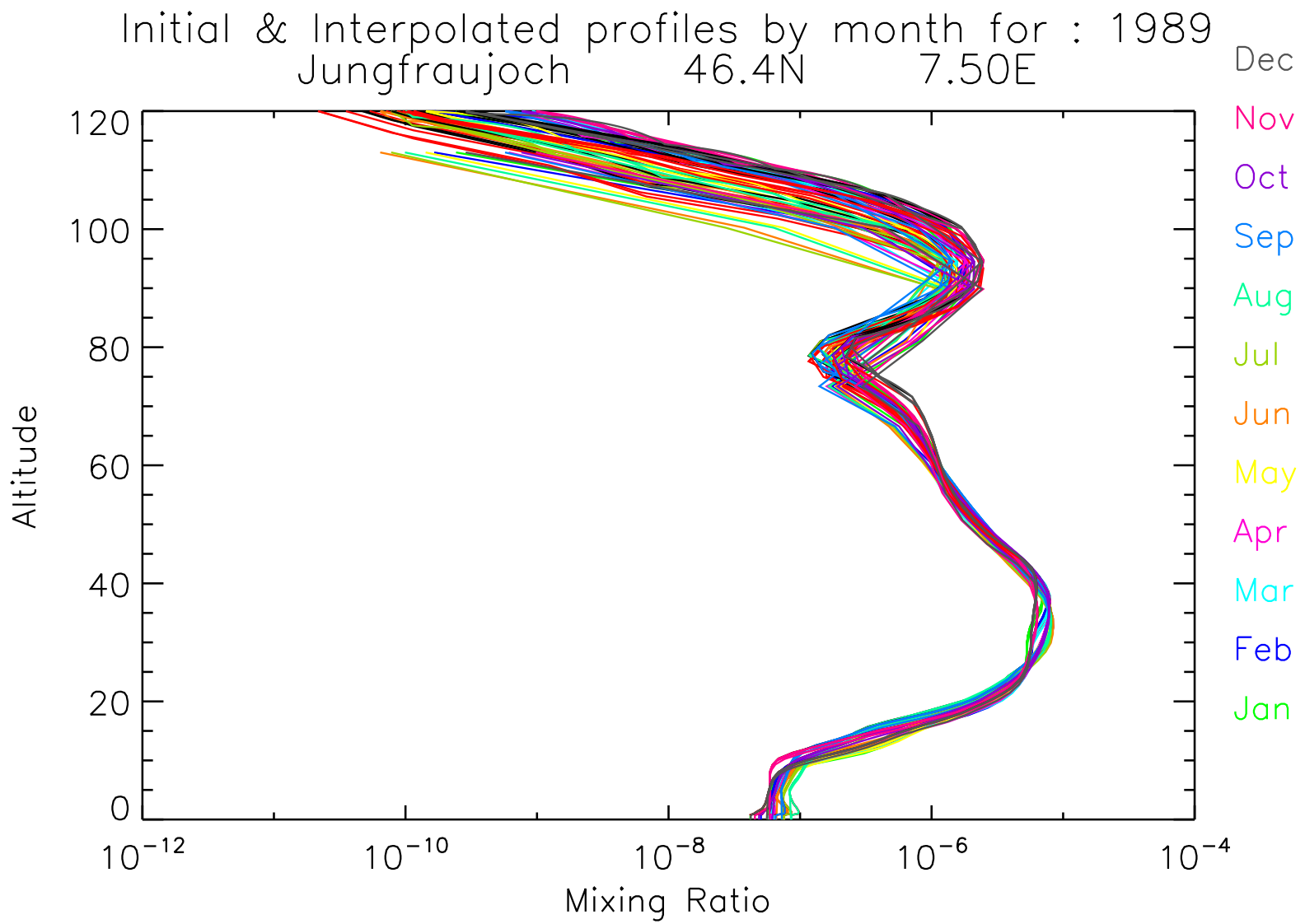
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1989
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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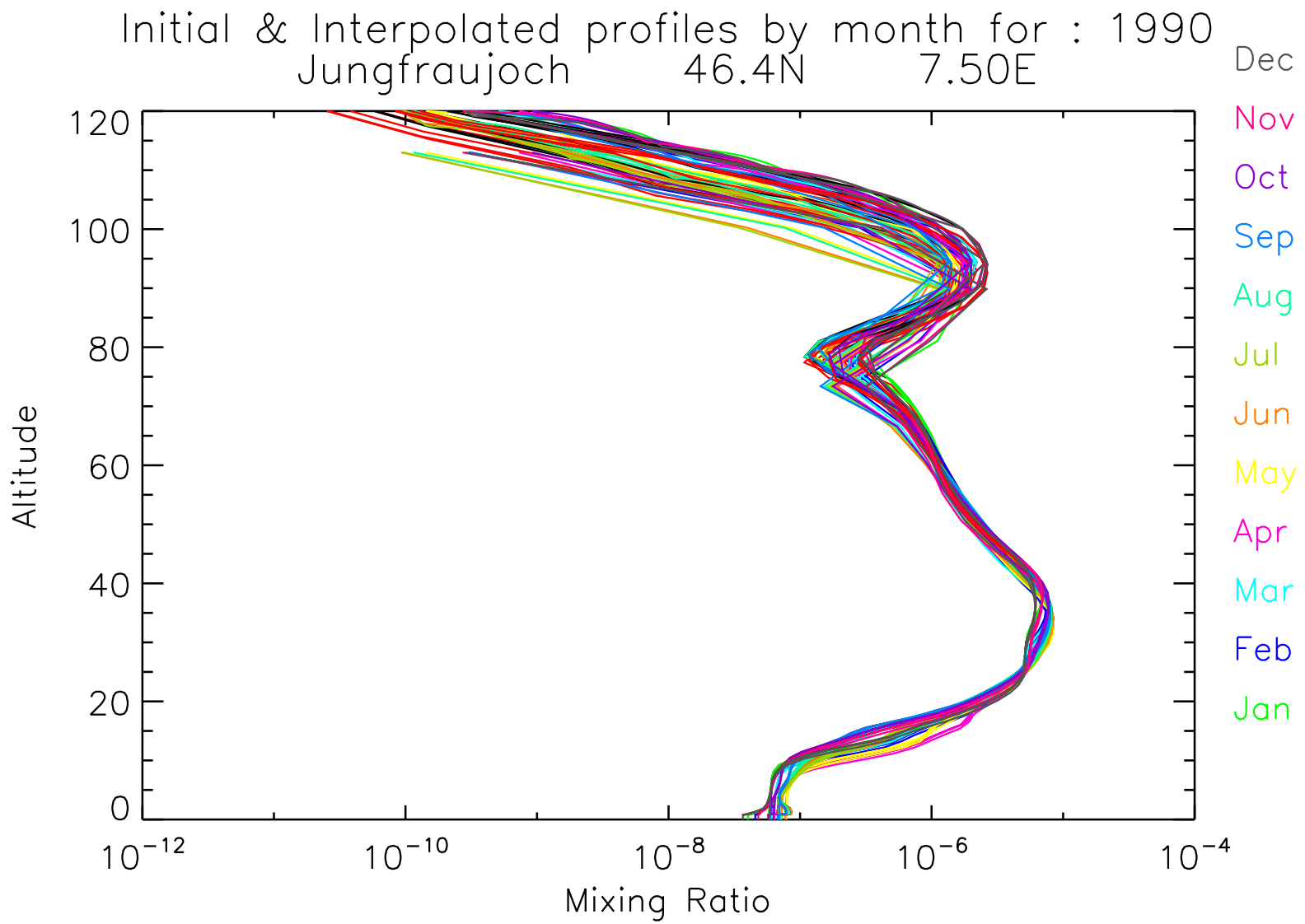
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1990
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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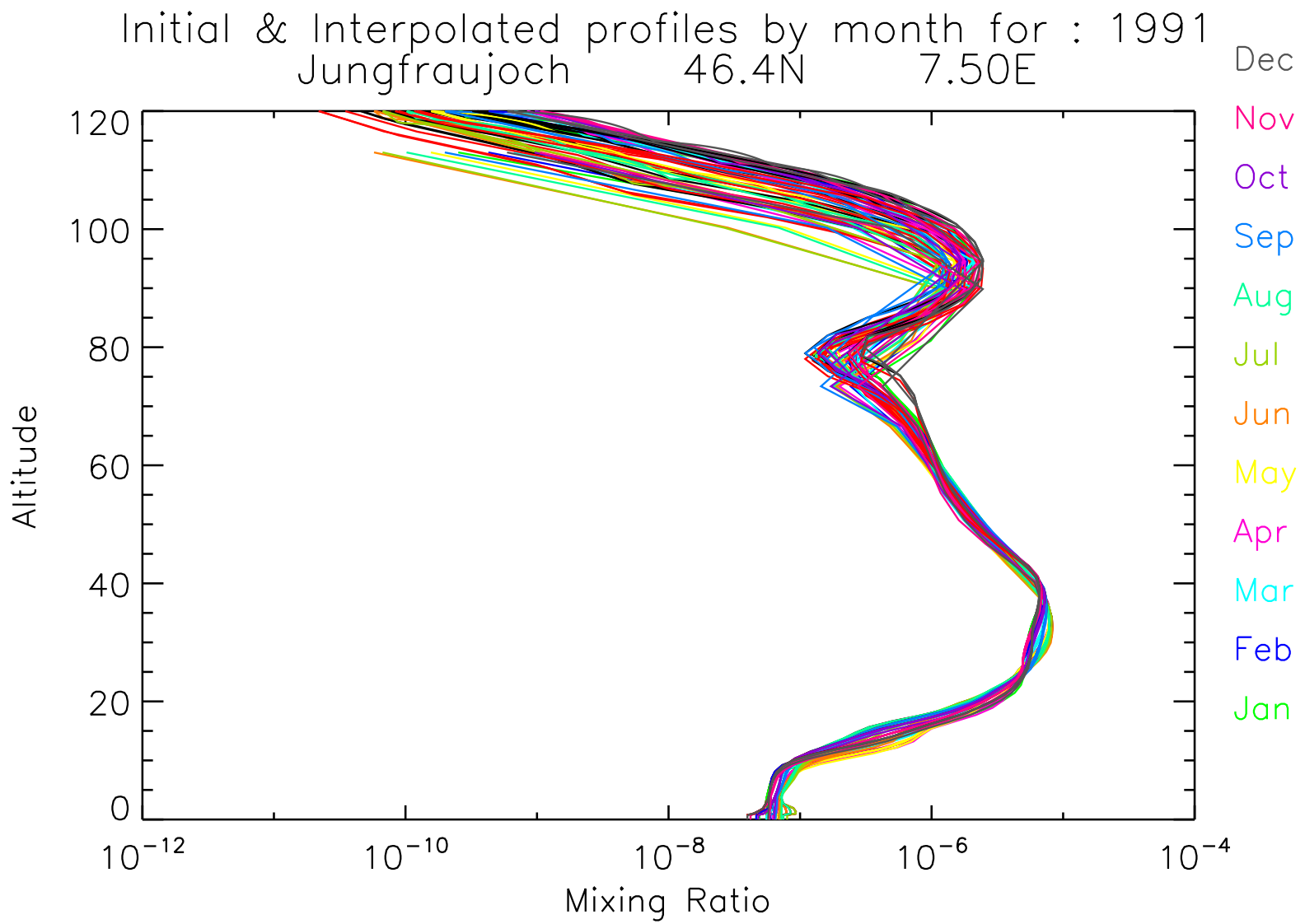
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1991
Jungfraujoch 46.4N 7.50E
Dec
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Jan
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Altitude
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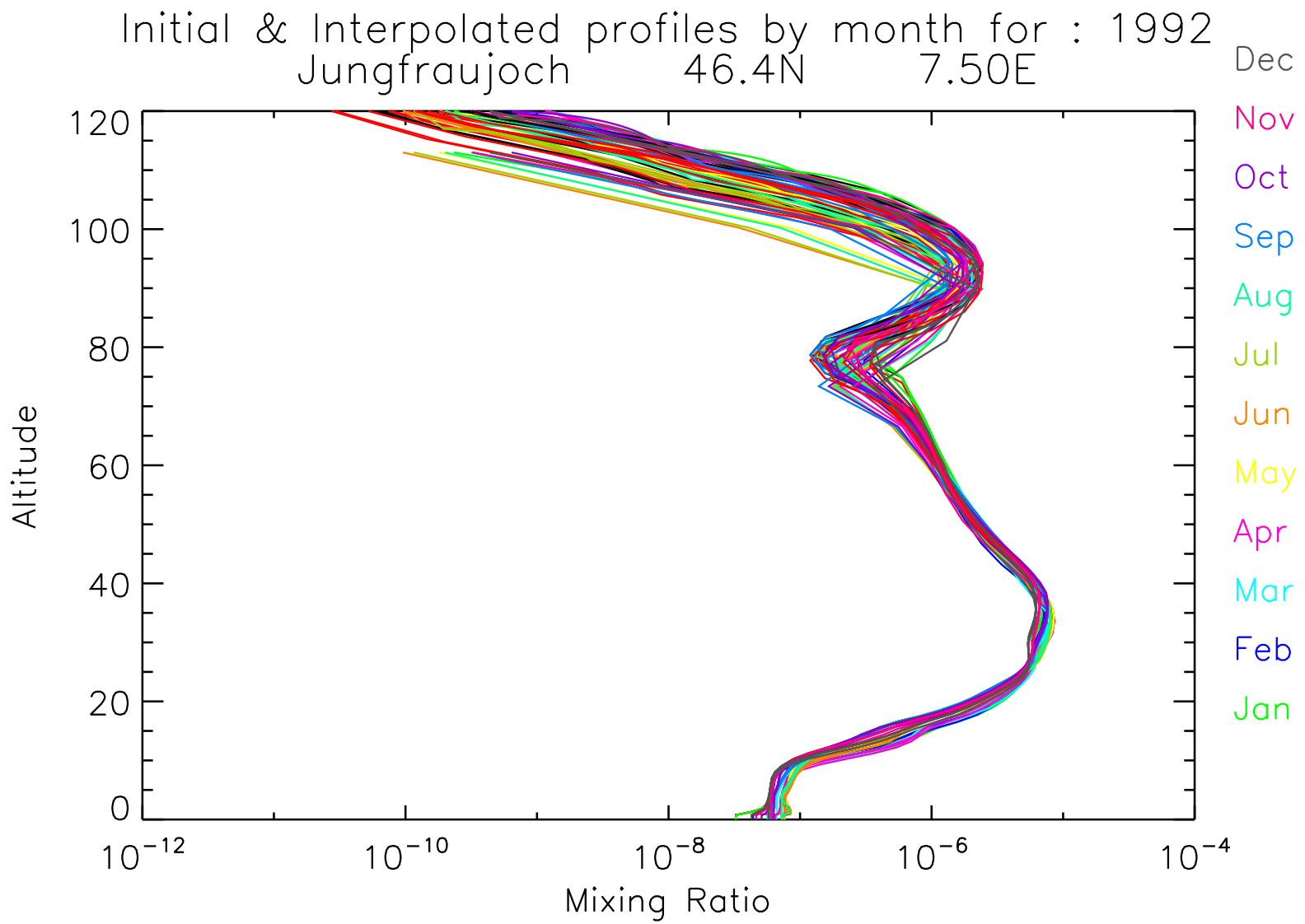
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1992
Jungfraujoch 46.4N 7.50E
Dec
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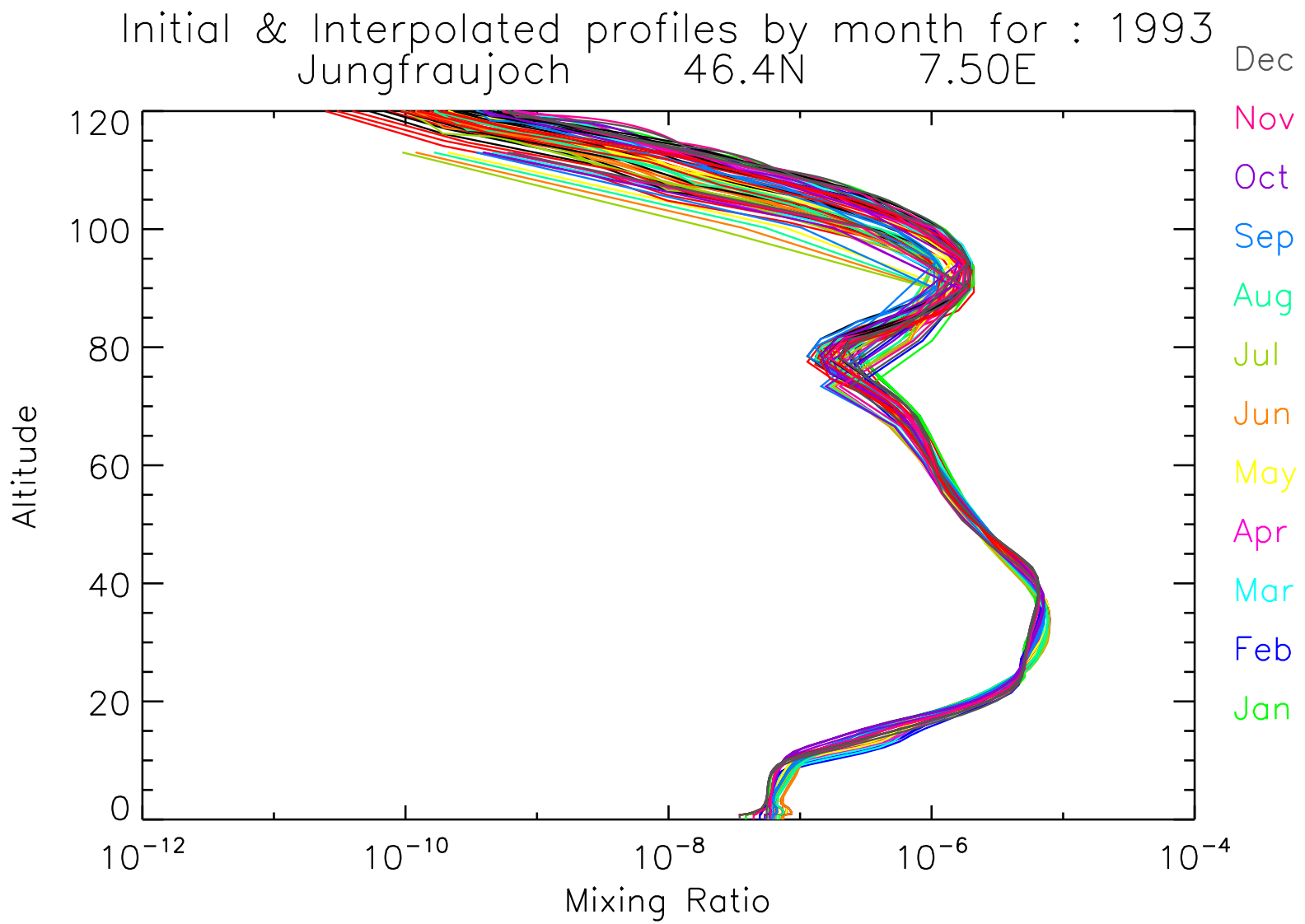
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1993
Jungfraujoch 46.4N 7.50E
Altitude
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10^{-12}
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10^{-4}
Mixing Ratio
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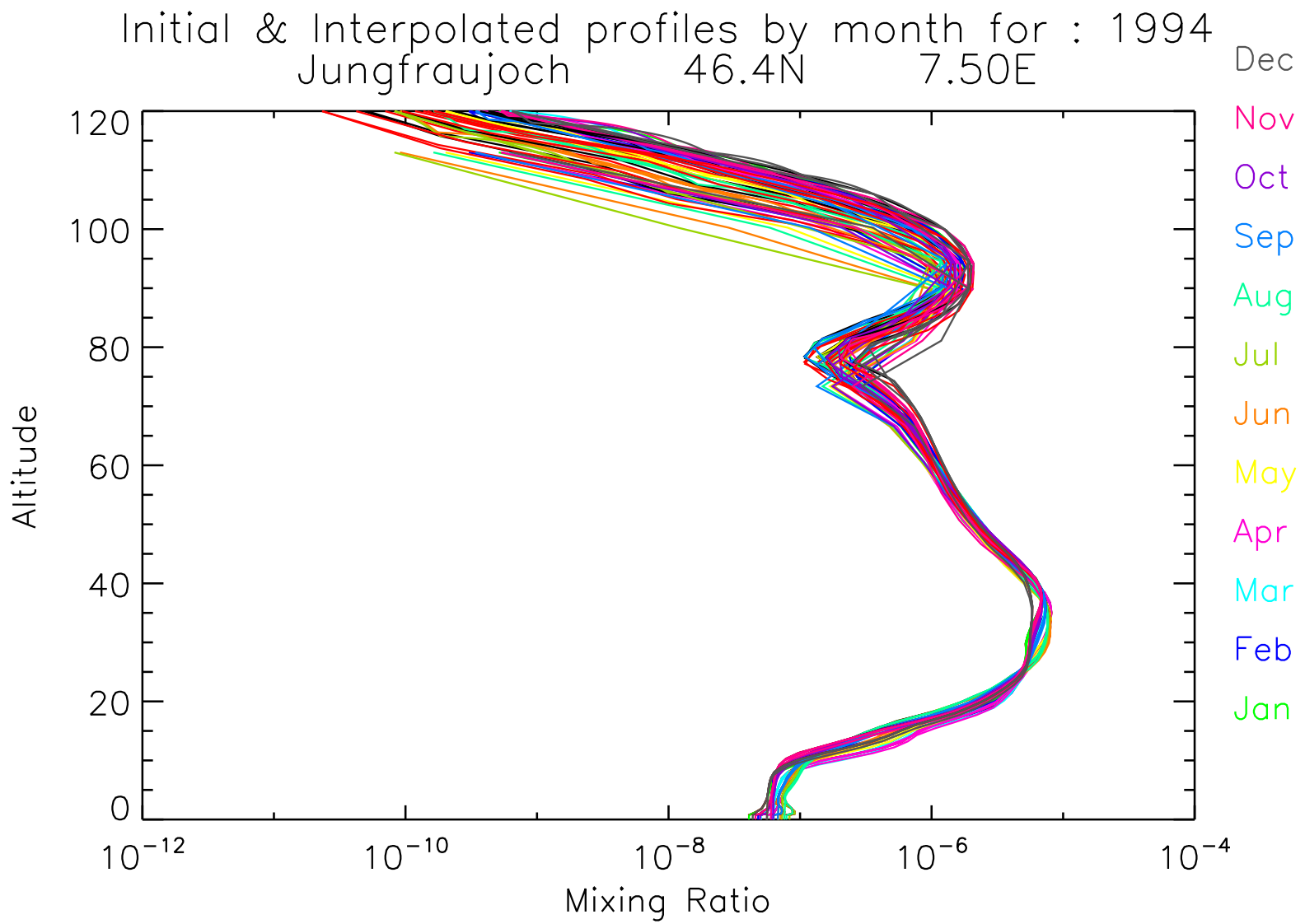
Initial & Interpolated profiles by month for : 1994
Jungfraujoch 46.4N 7.50E
Altitude
120
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10^{-12}
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Mixing Ratio
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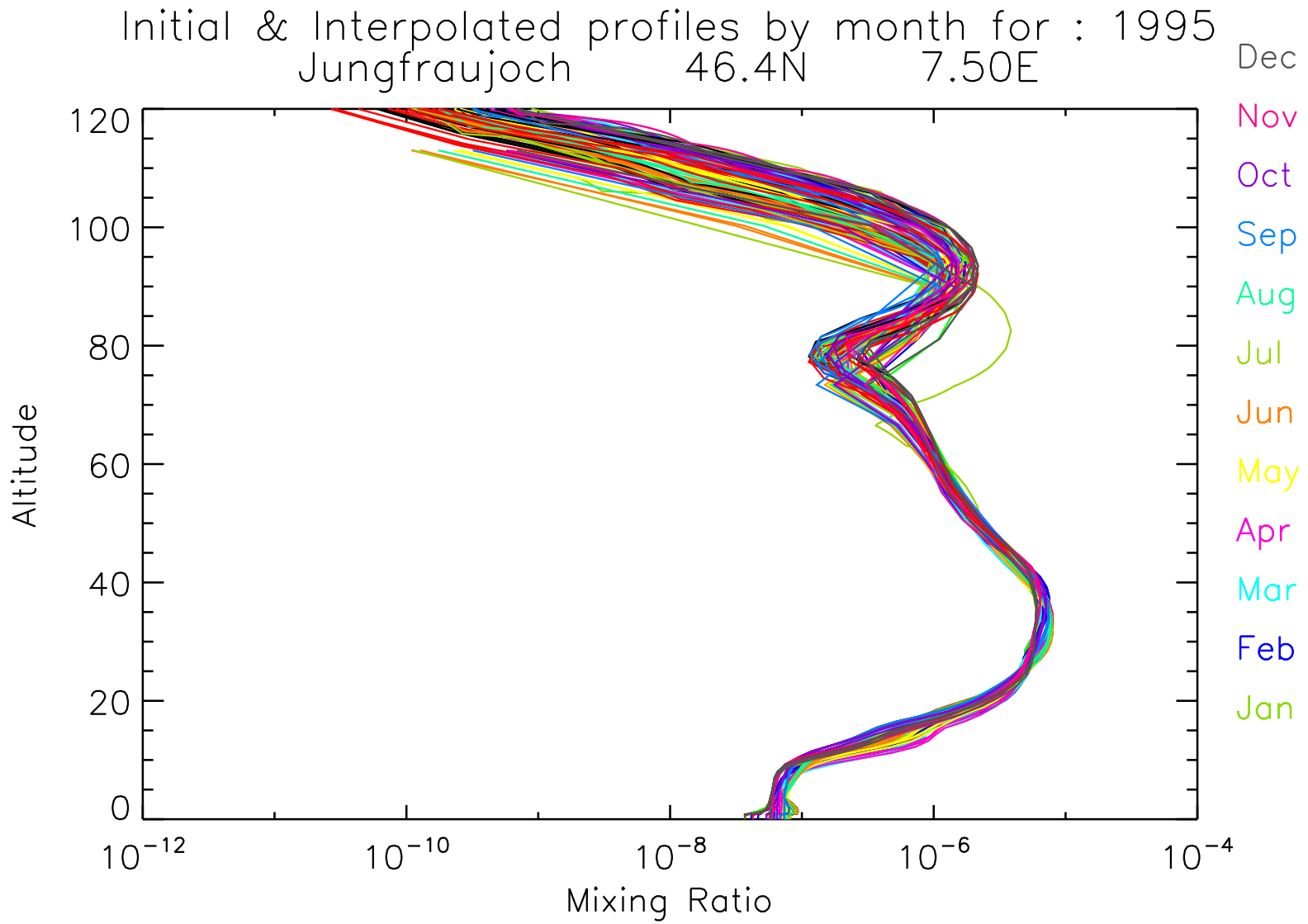
Initial & Interpolated profiles by month for : 1995
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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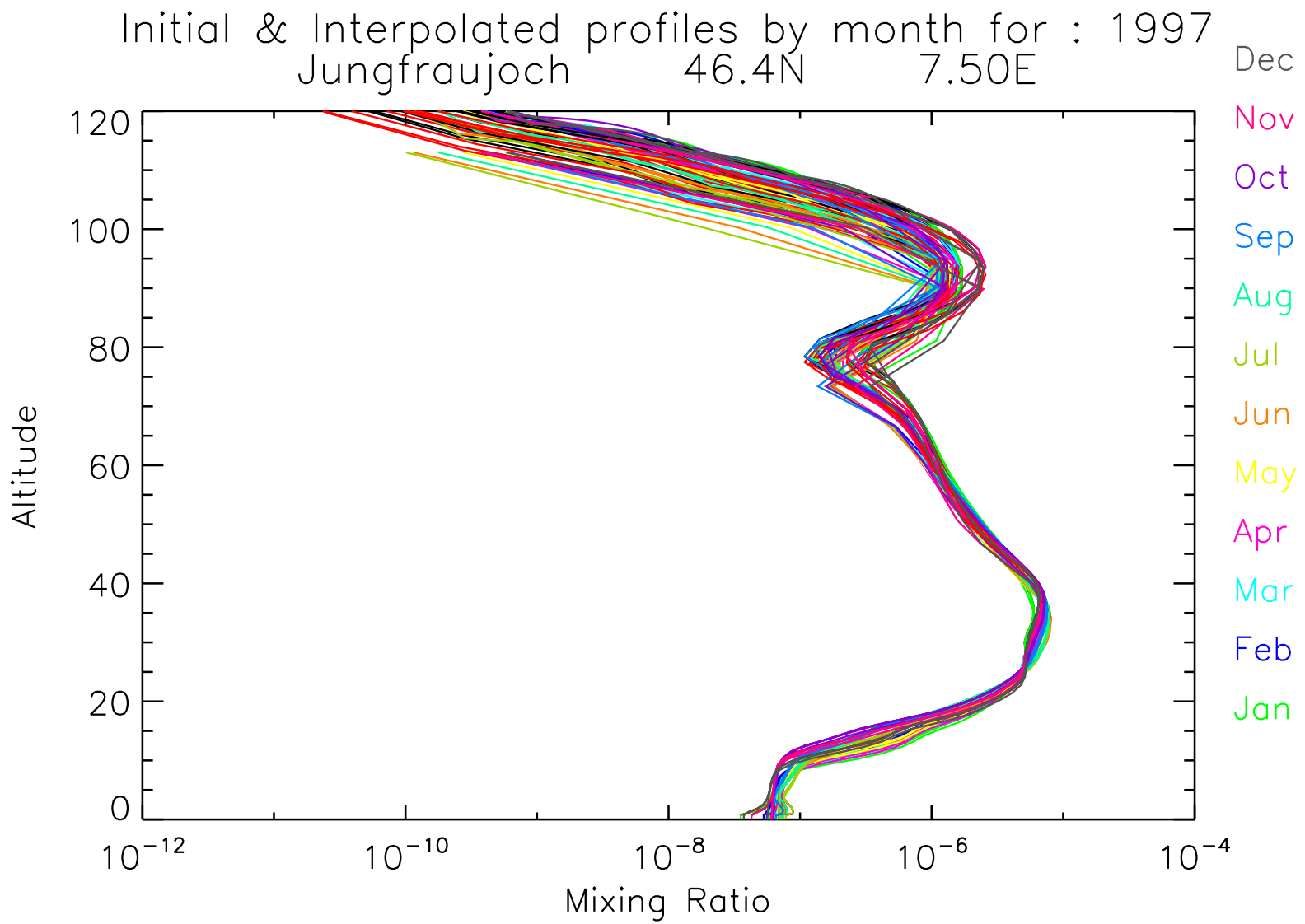
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1997
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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10^{-8}
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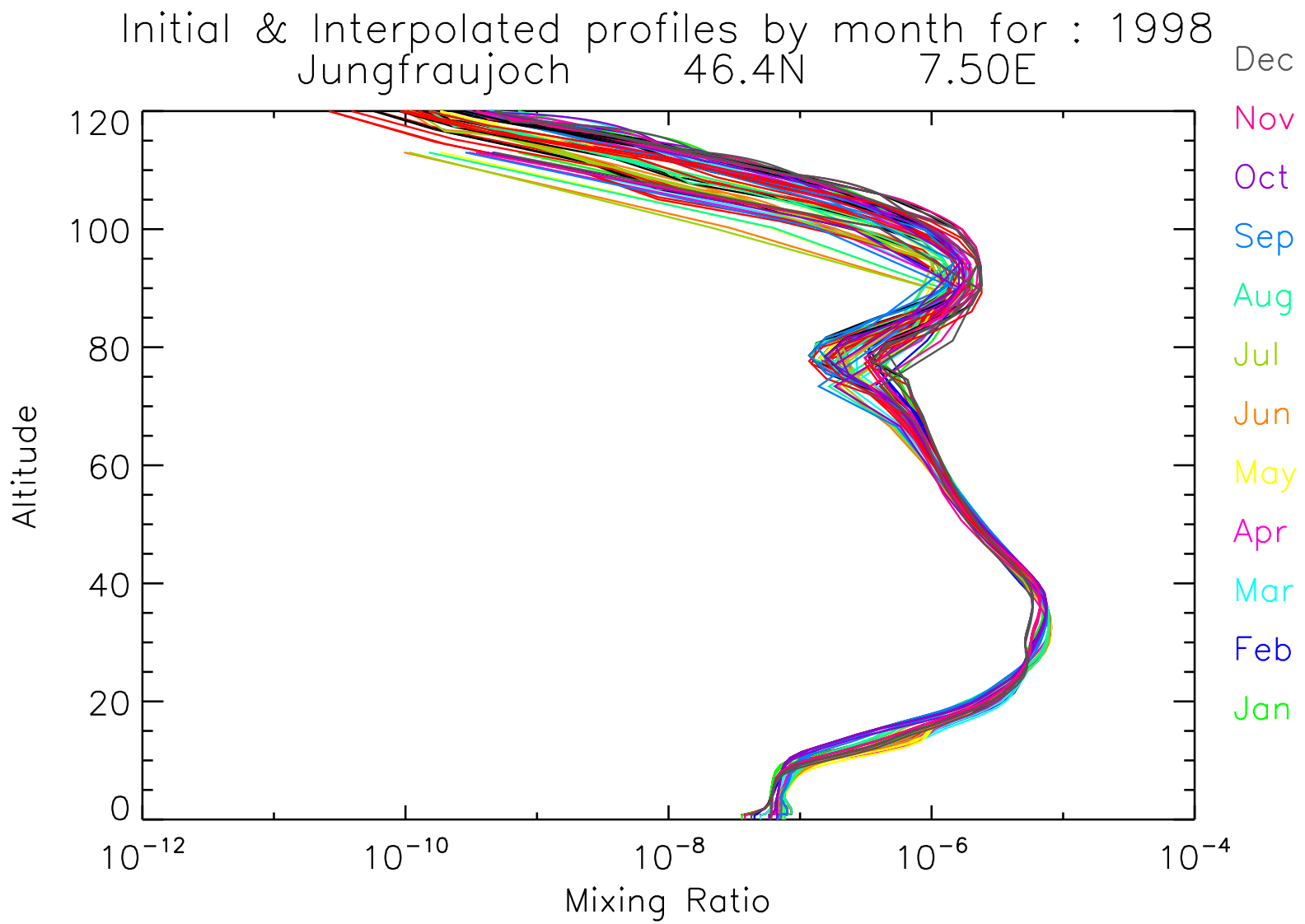
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1998
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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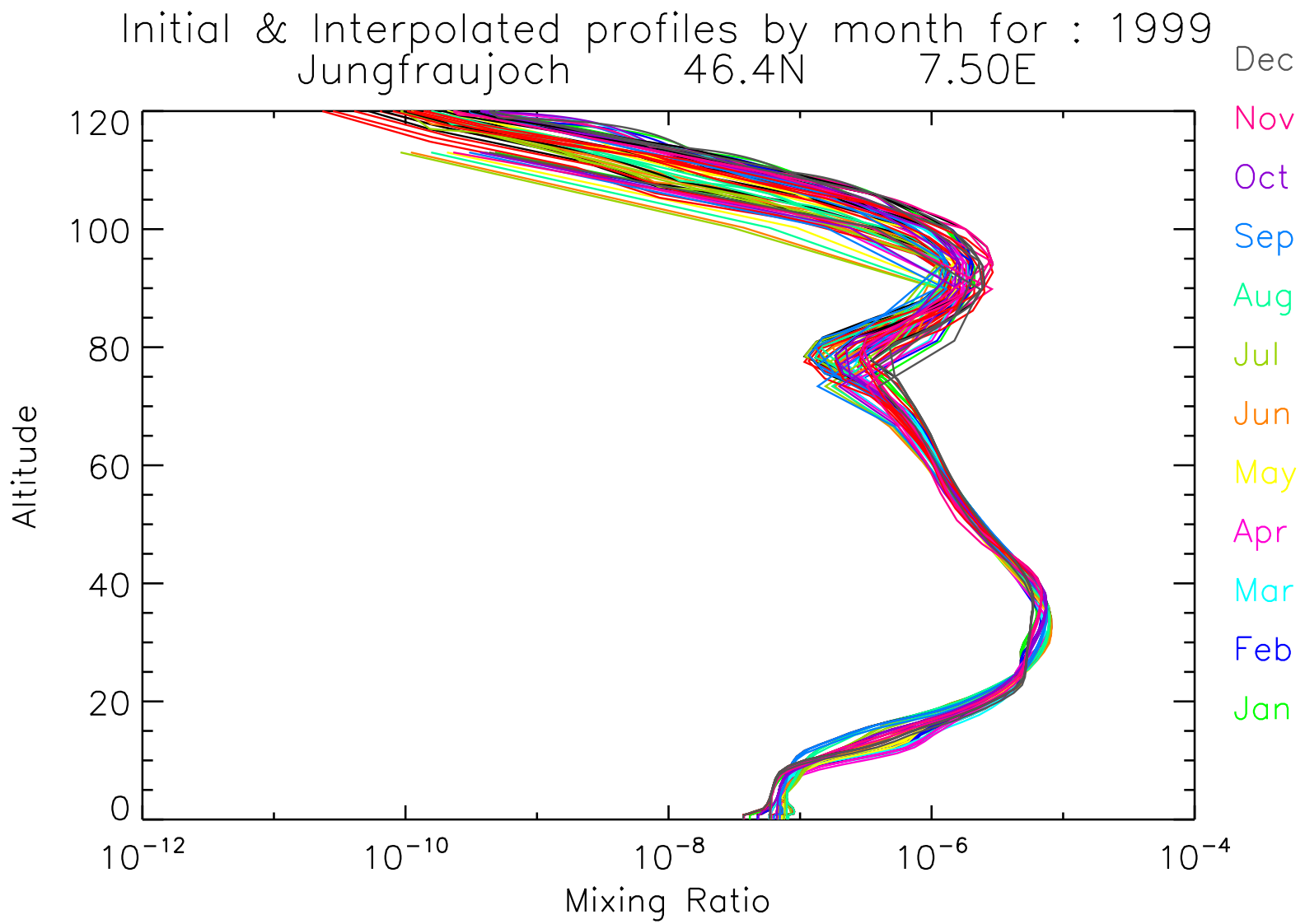
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 1999
Jungfraujoch 46.4N 7.50E
Dec
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10^{-8}
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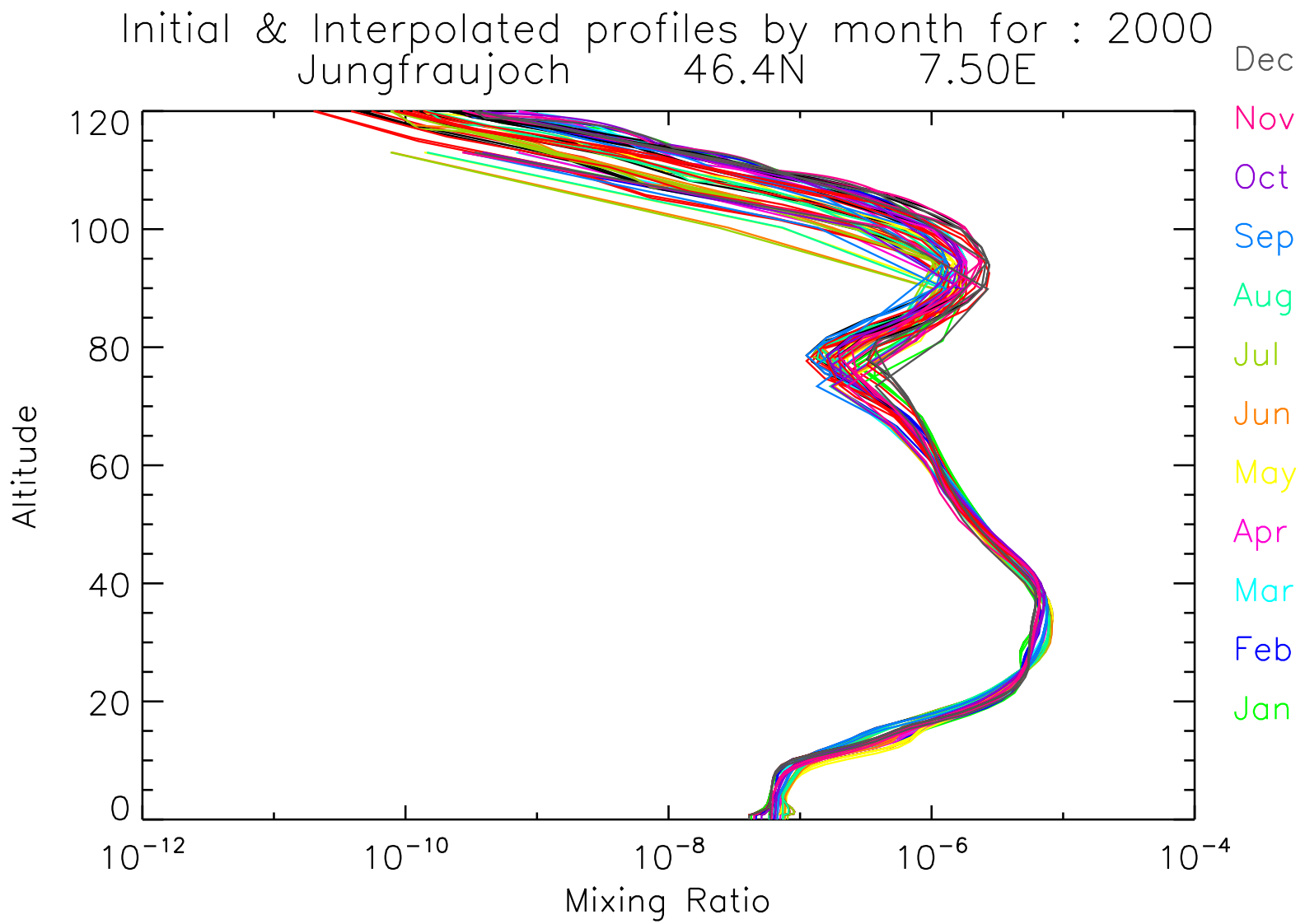
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2000
Jungfraujoch 46.4N 7.50E
Dec
Nov
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10^{-8}
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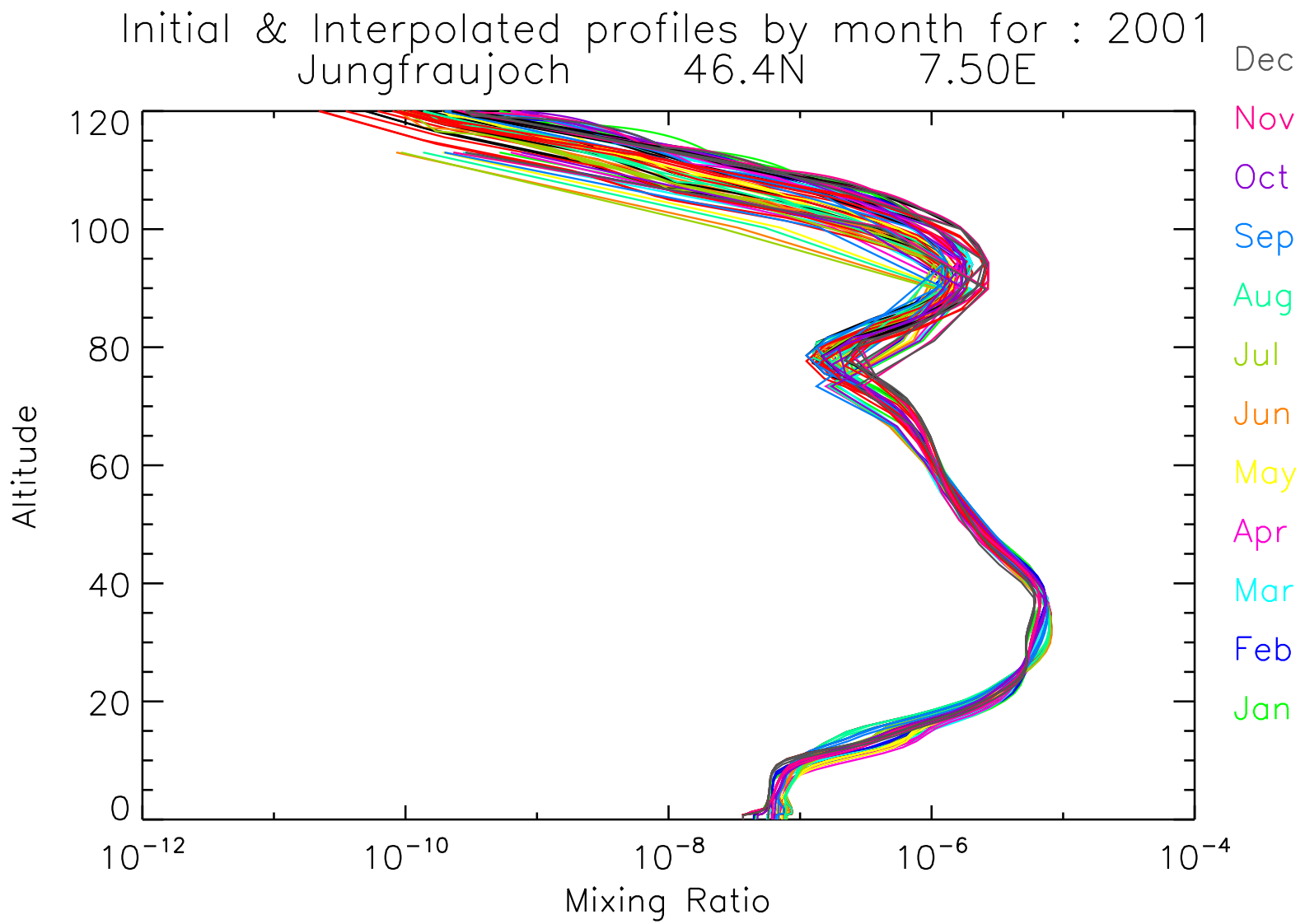
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2001
Jungfraujoch 46.4N 7.50E
Dec
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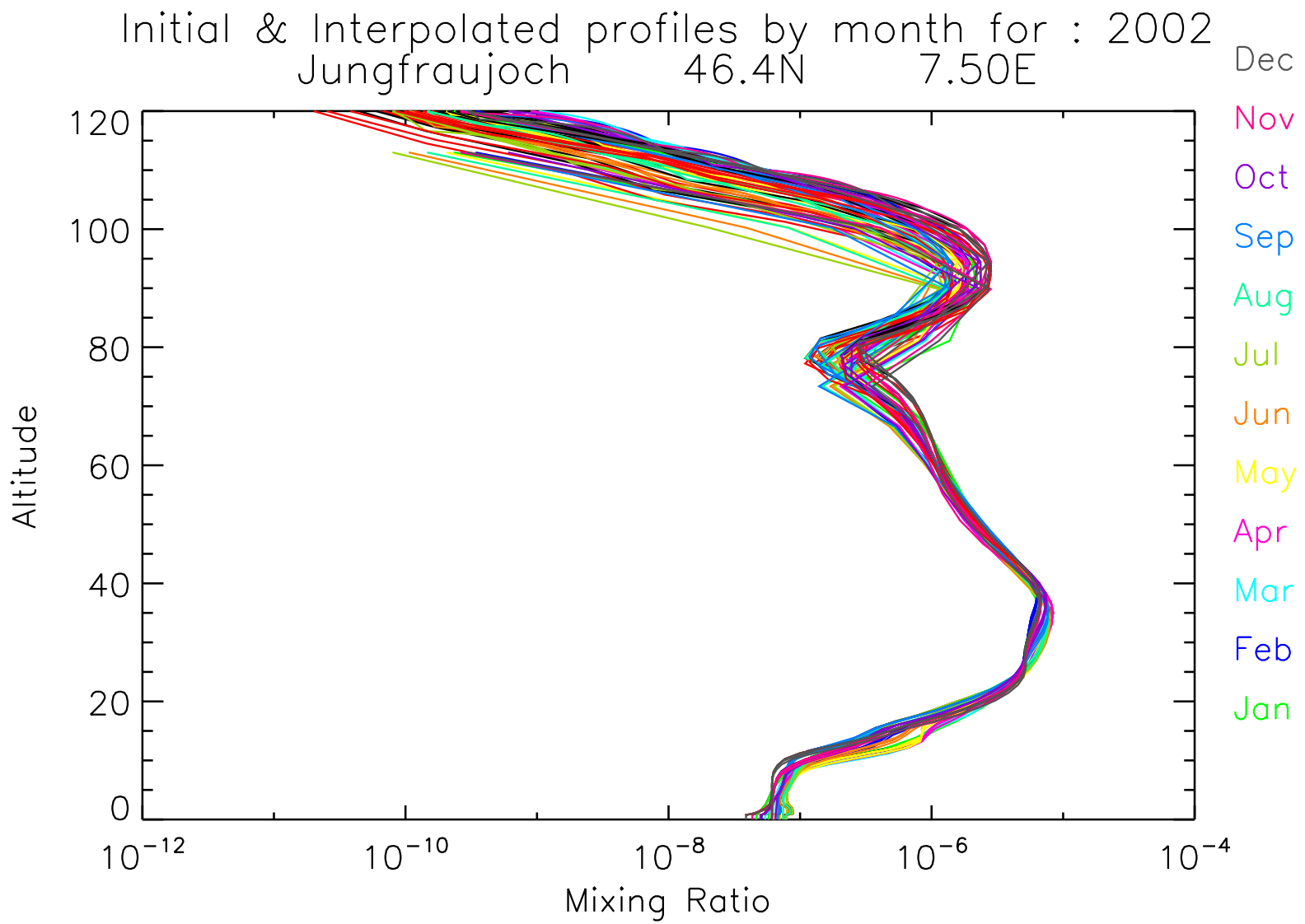
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2002
Jungfraujoch 46.4N 7.50E
Dec
Nov
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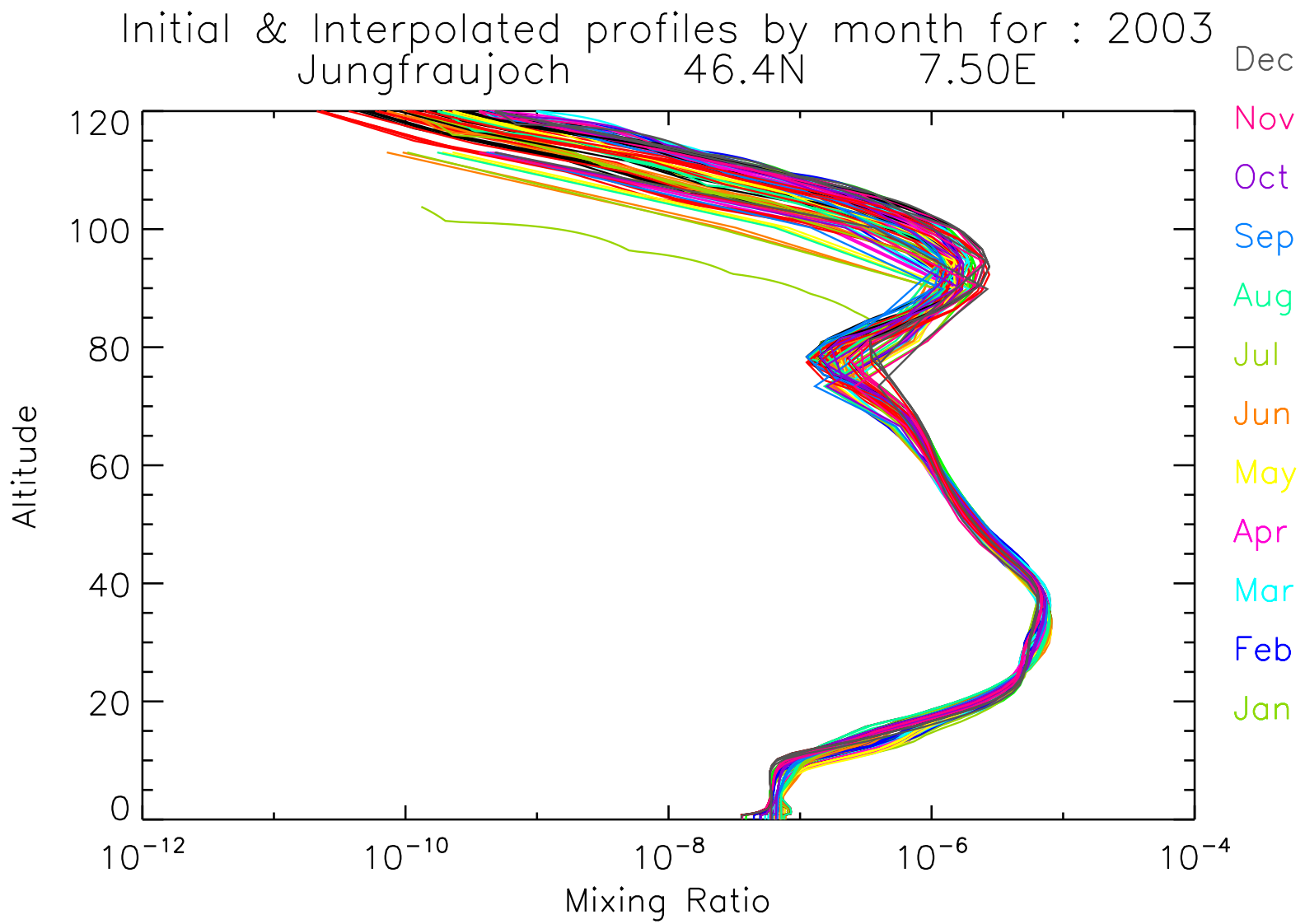
Mixing Ratio


Initial & Interpolated profiles by month for : 2003
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
Sep
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Jul
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May
Apr
Mar
Feb
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Altitude
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10^{-12}
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10^{-8}
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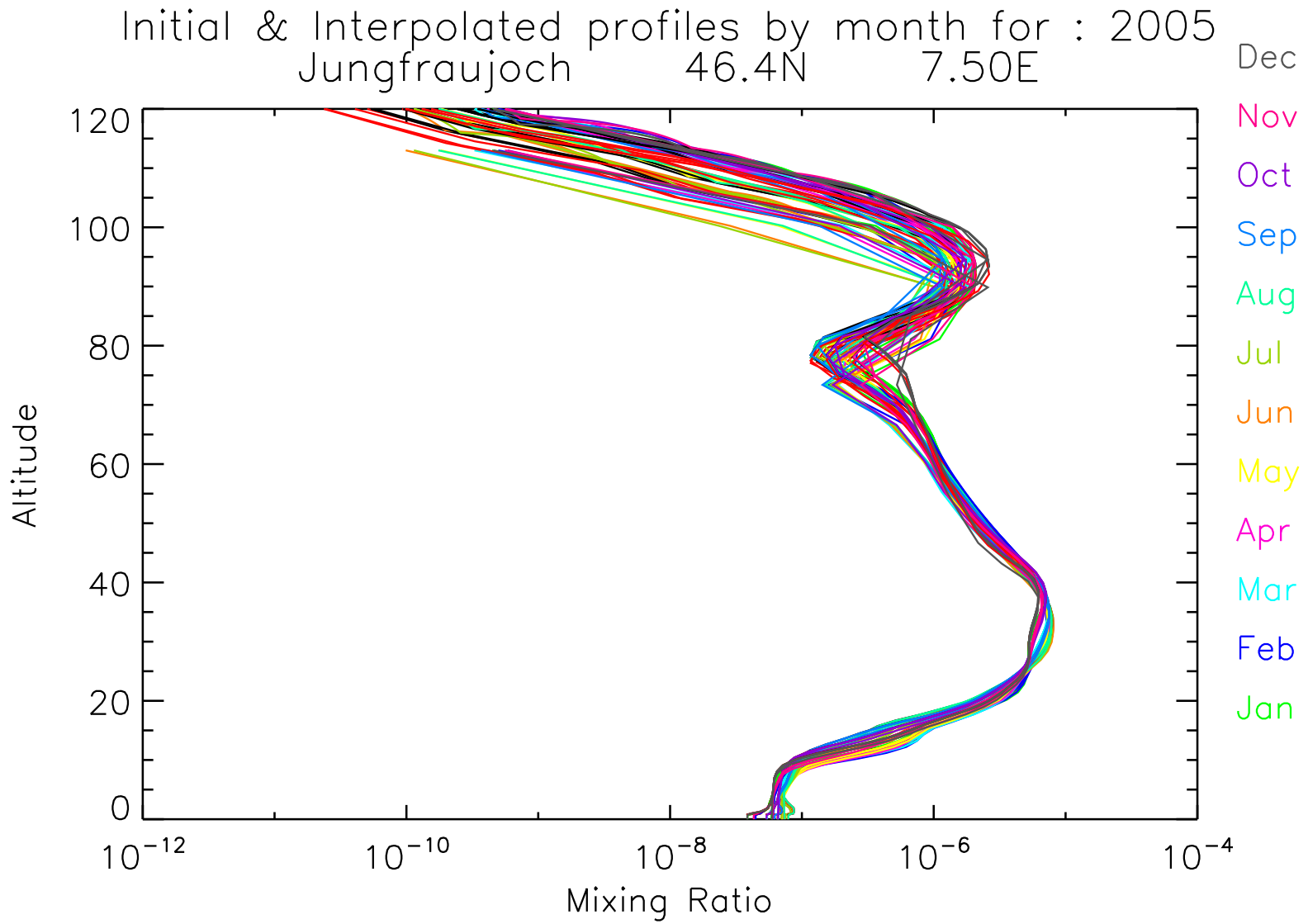
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2005
Jungfraujoch 46.4N 7.50E
Dec
Nov
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May
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Jan
120
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Altitude
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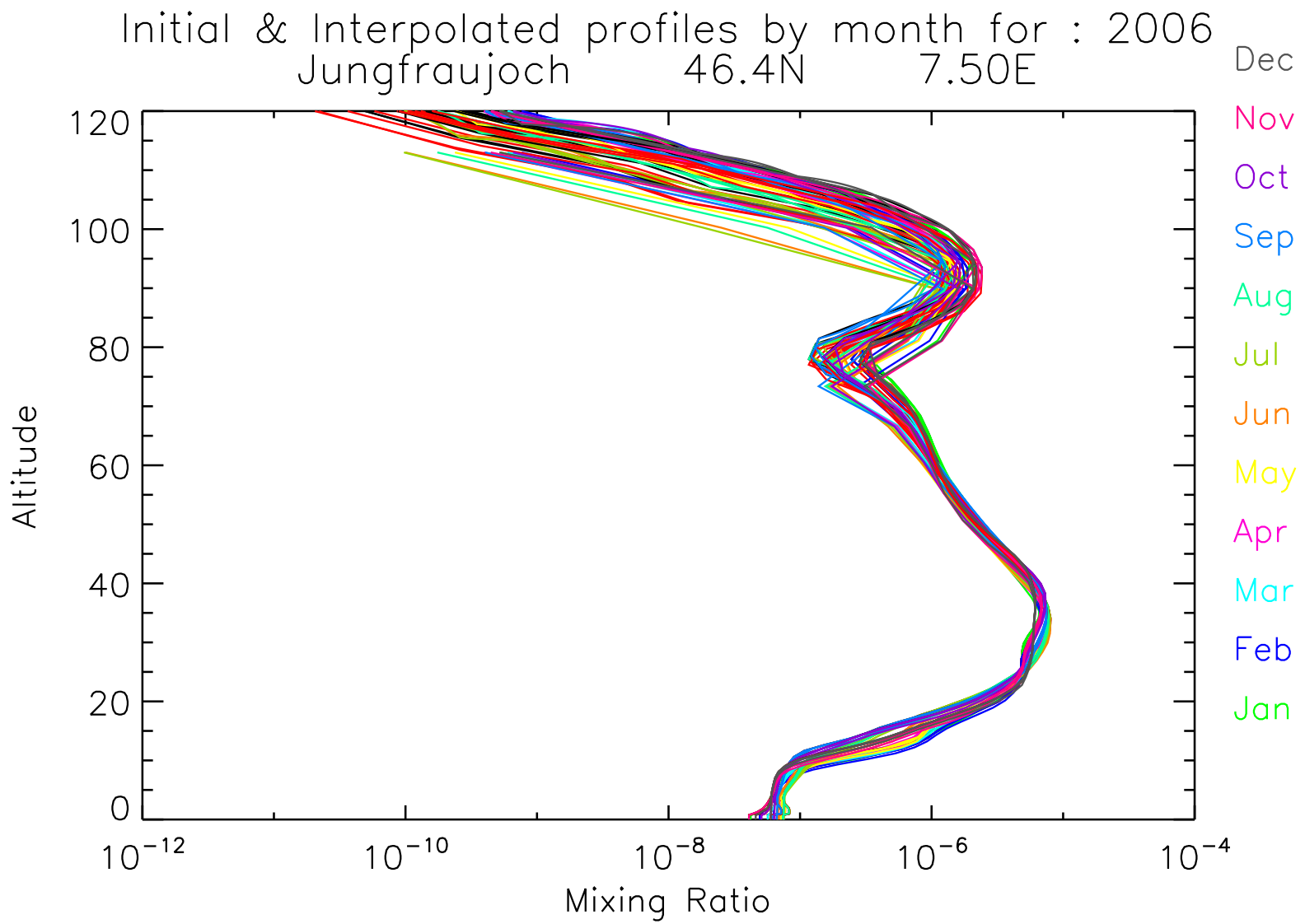
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2006
Jungfraujoch 46.4N 7.50E
Dec
Nov
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Sep
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Altitude
10^{-12}
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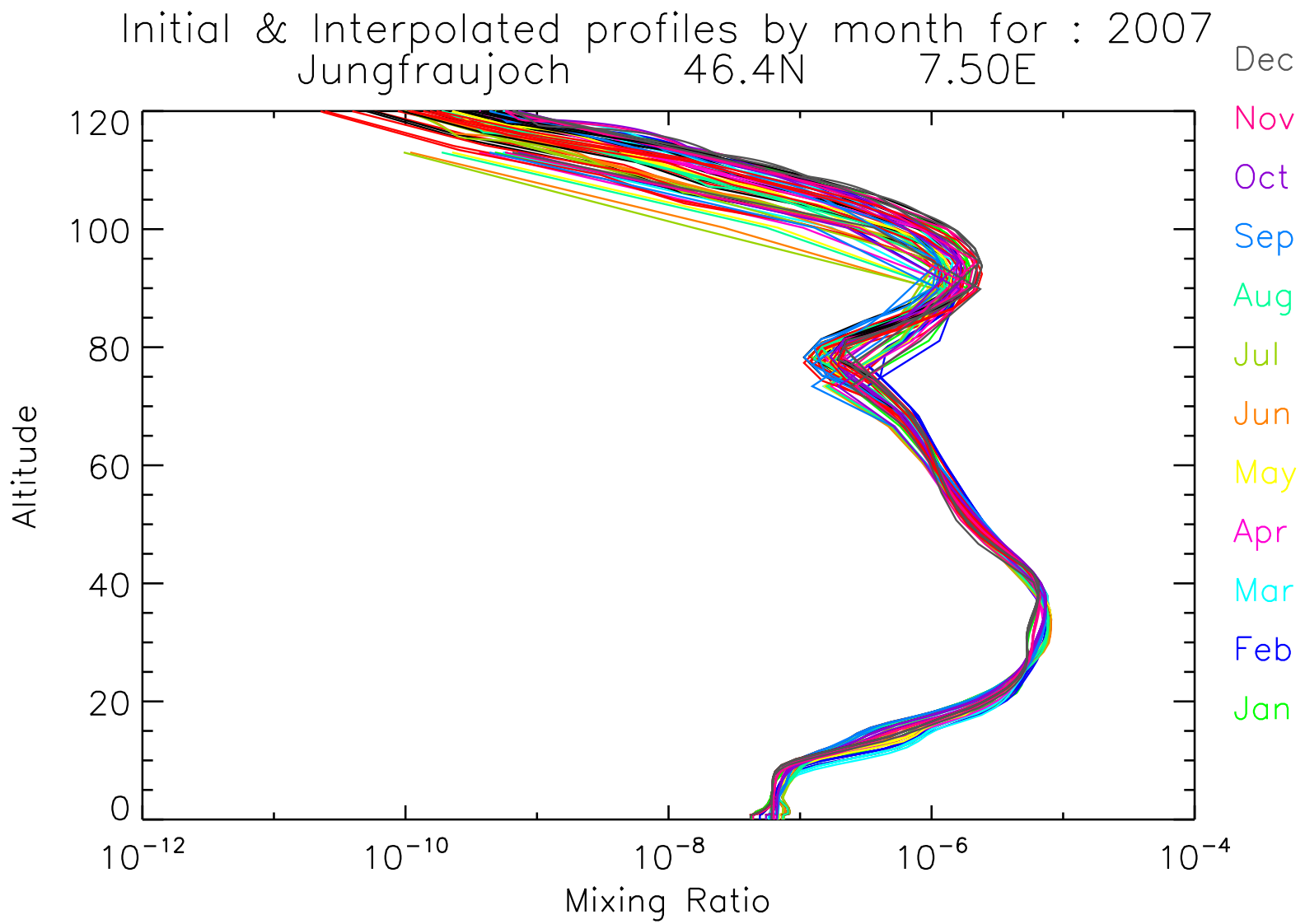
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2007
Jungfraujoch 46.4N 7.50E
Altitude
120
100
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0
10^{-12}
10^{-10}
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10^{-4}
Mixing Ratio
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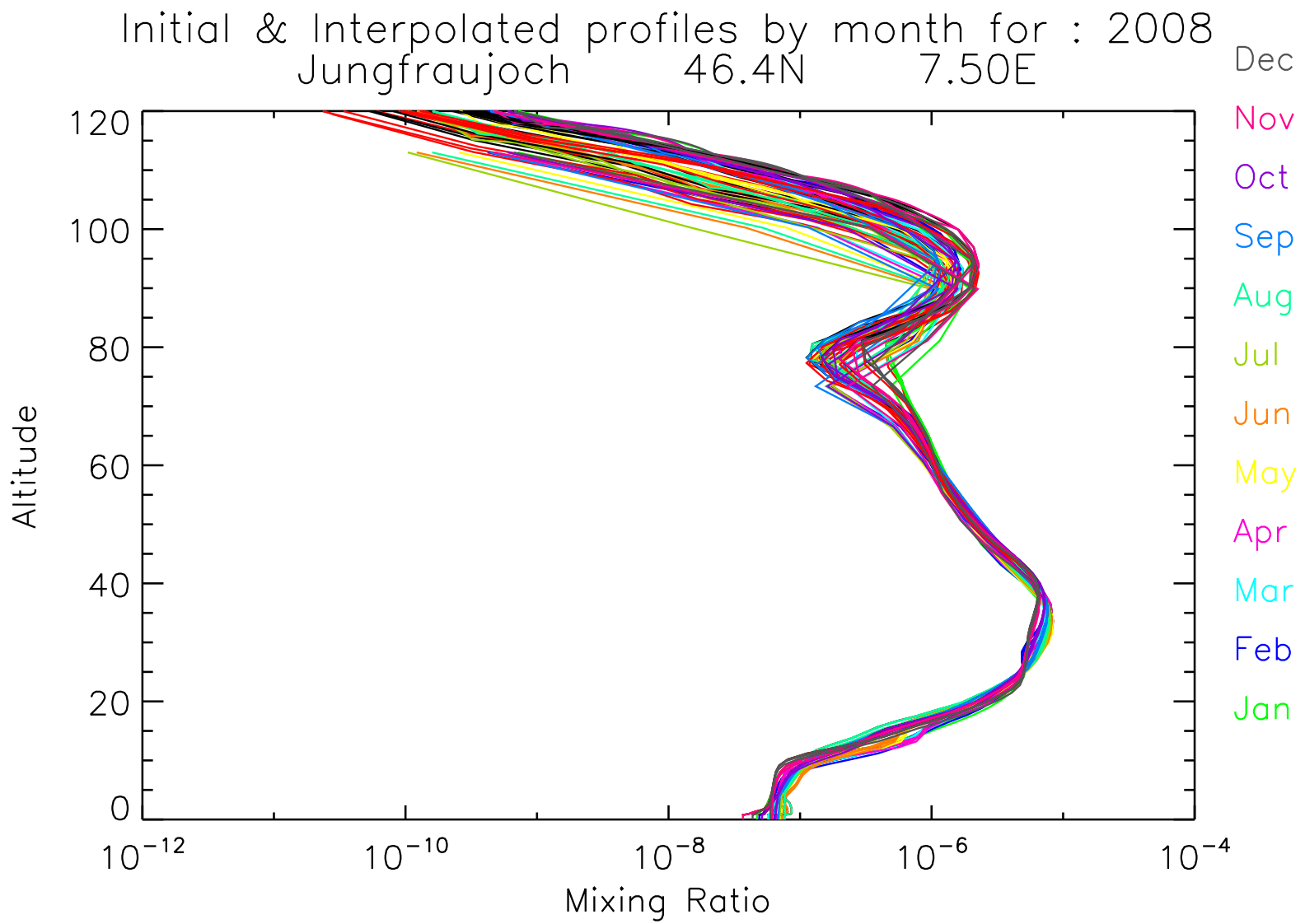
Initial & Interpolated profiles by month for : 2008
Jungfraujoch 46.4N 7.50E
Dec
Nov
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Feb
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Altitude
10^{-12}
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10^{-8}
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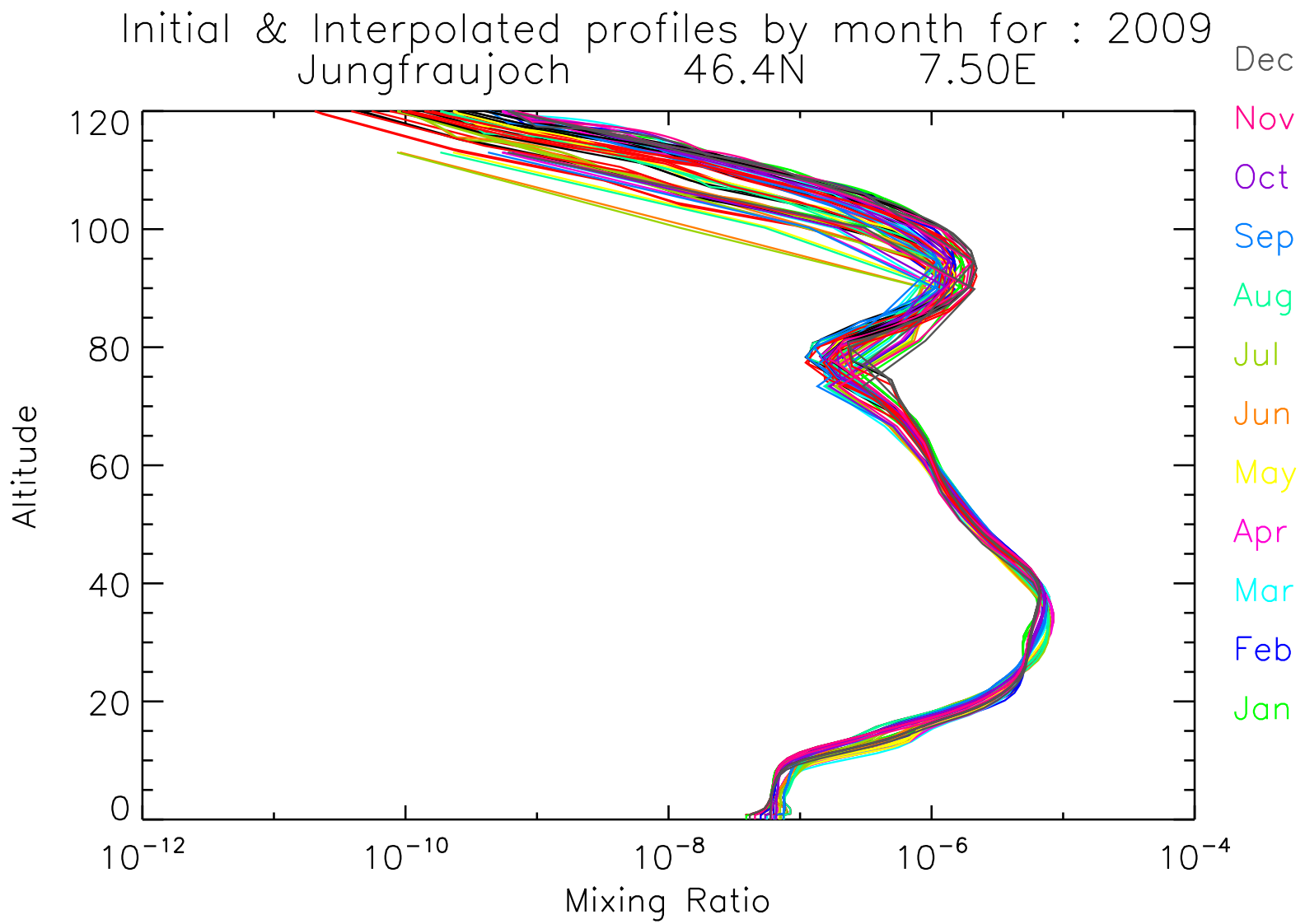
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2009
Jungfraujoch 46.4N 7.50E
Dec
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Altitude
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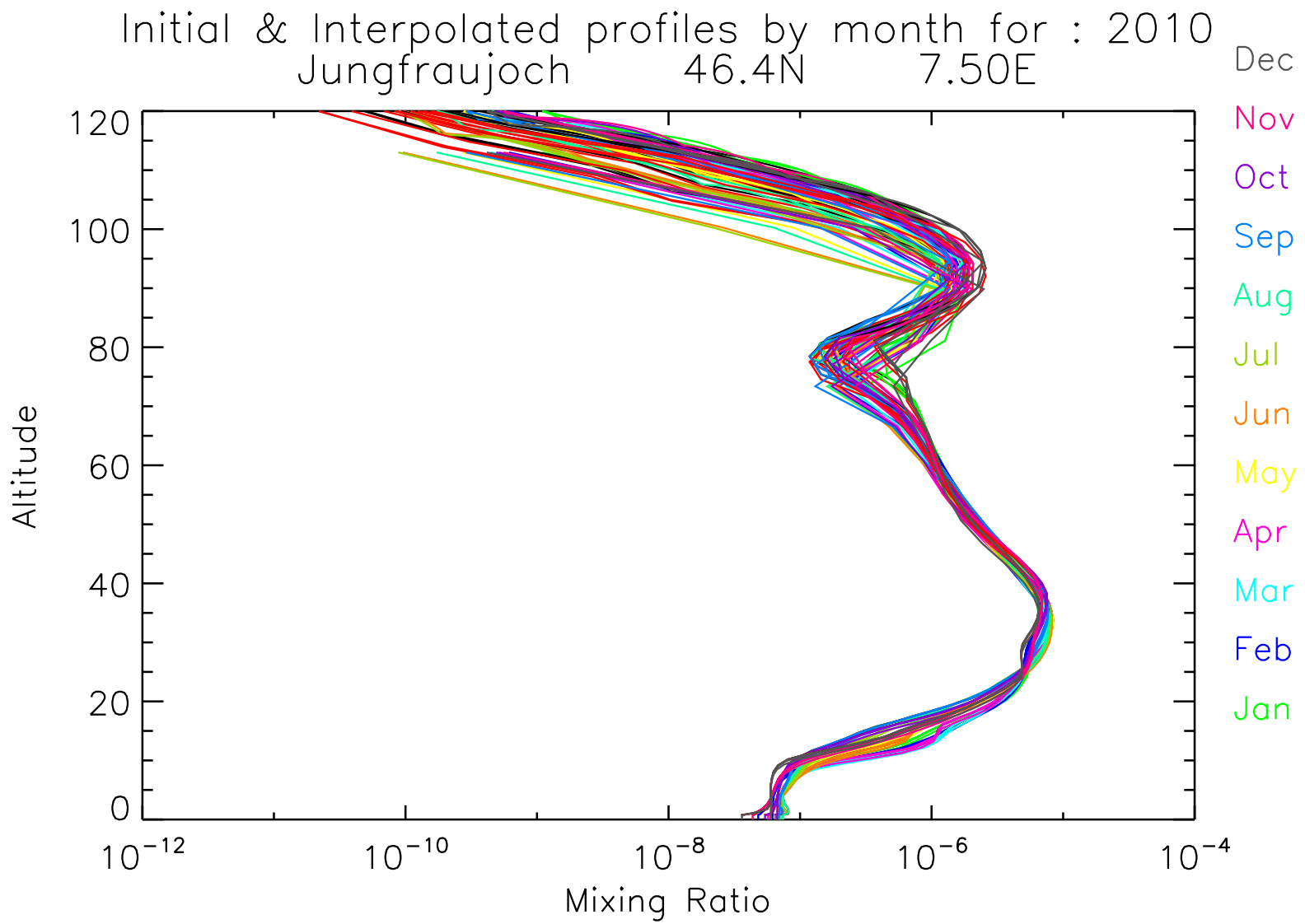
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2010
Jungfraujoch 46.4N 7.50E
Dec
Nov
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Feb
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Altitude
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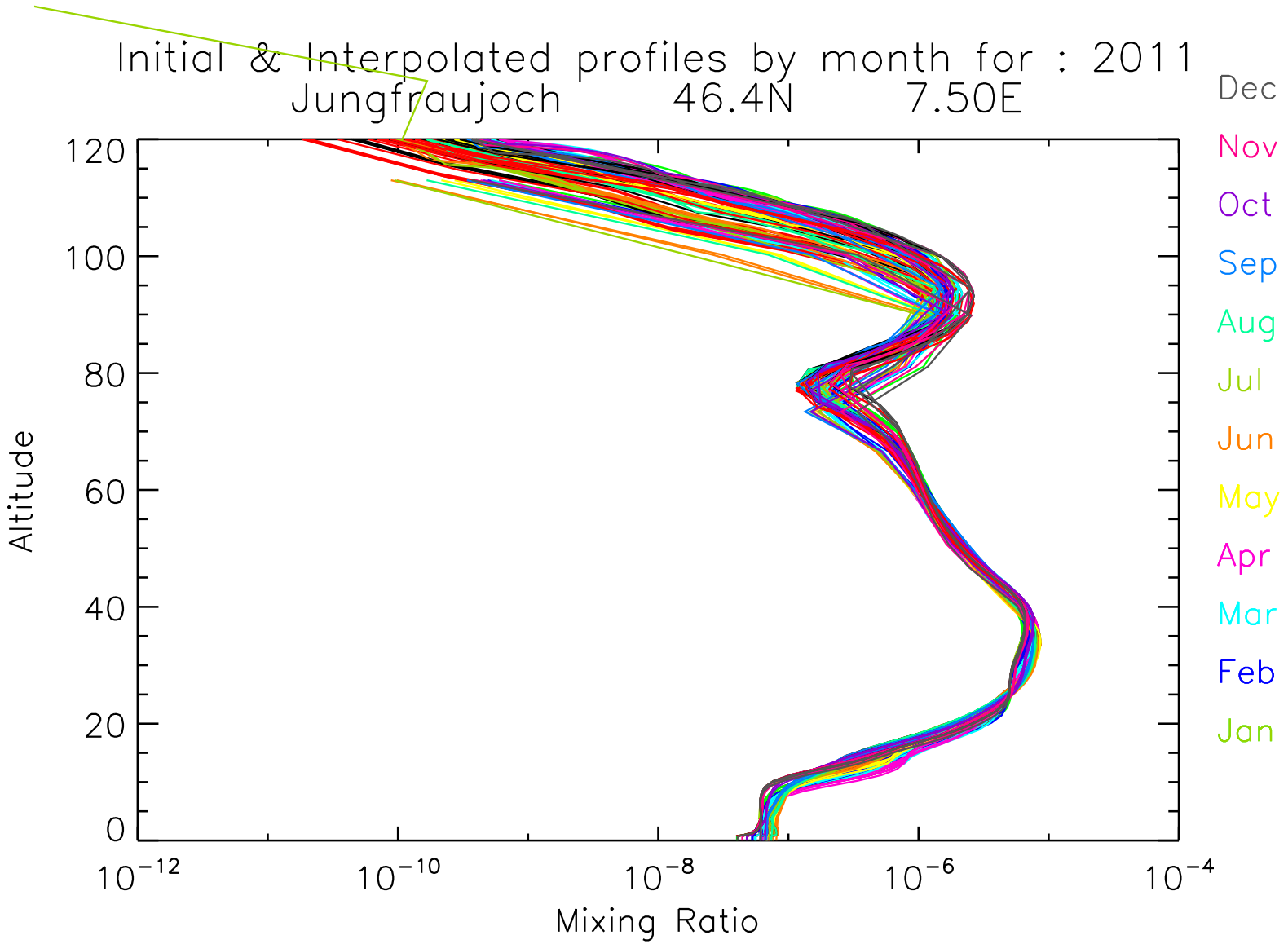
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2011
Jungfraujoch 46.4N 7.50E
Dec
Nov
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Feb
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Altitude
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10^{-12}
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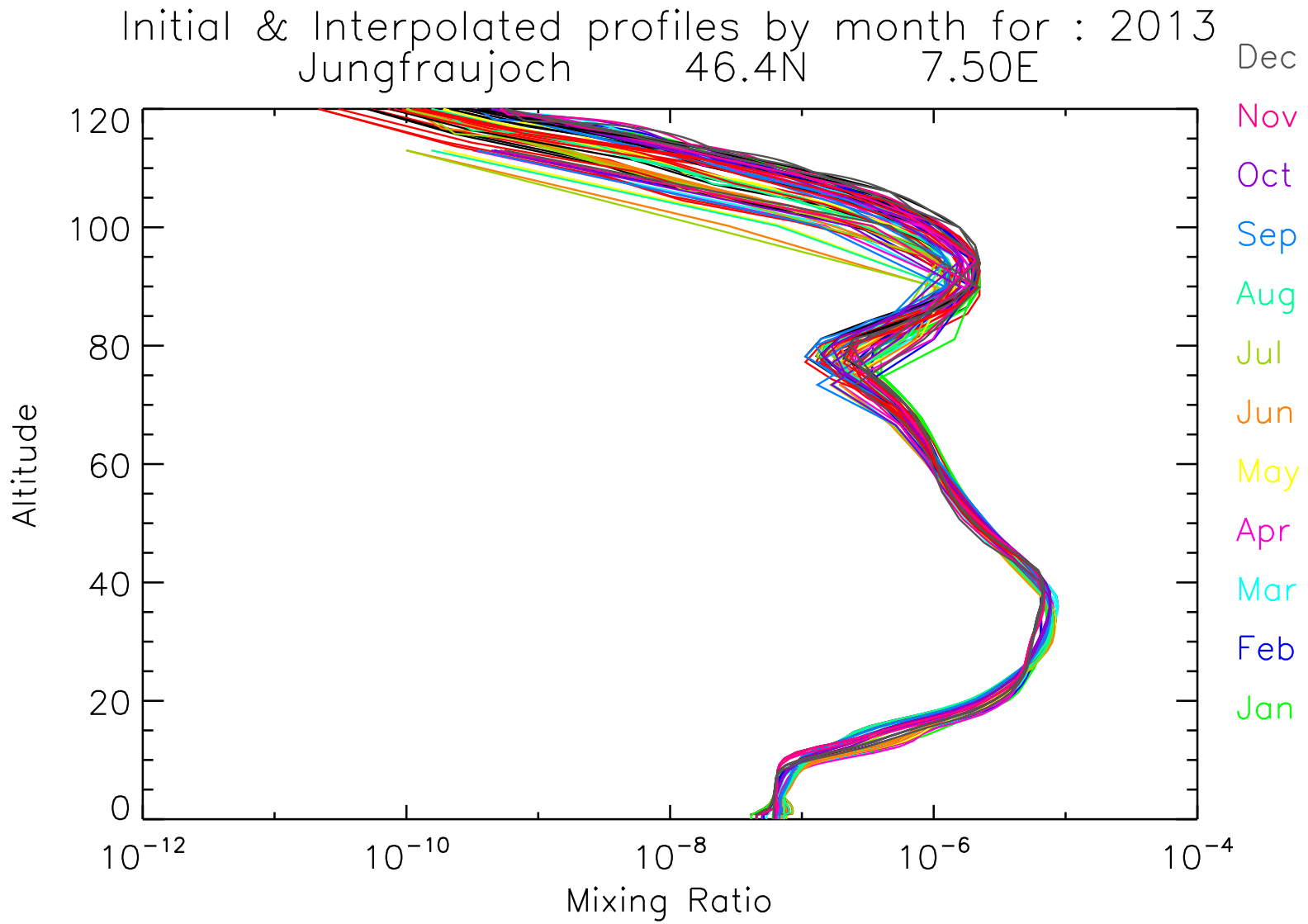
10^{-6}
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2013
Jungfraujoch 46.4N 7.50E
Dec
Nov
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Feb
Jan
Altitude
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10^{-8}
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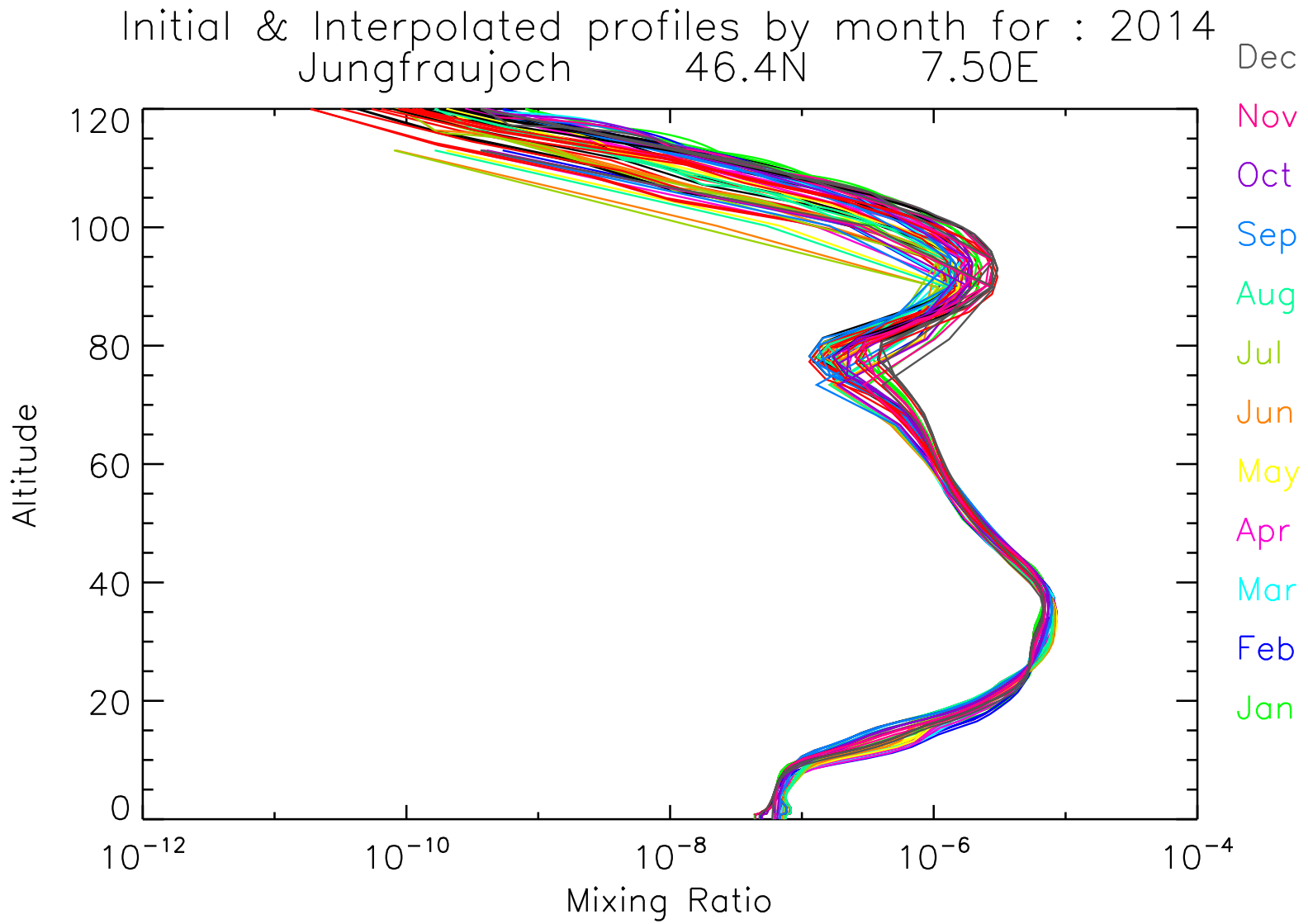
10^{-4}
Mixing Ratio


Initial & Interpolated profiles by month for : 2014
Jungfraujoch 46.4N 7.50E
Altitude
120
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10^{-4}
Mixing Ratio
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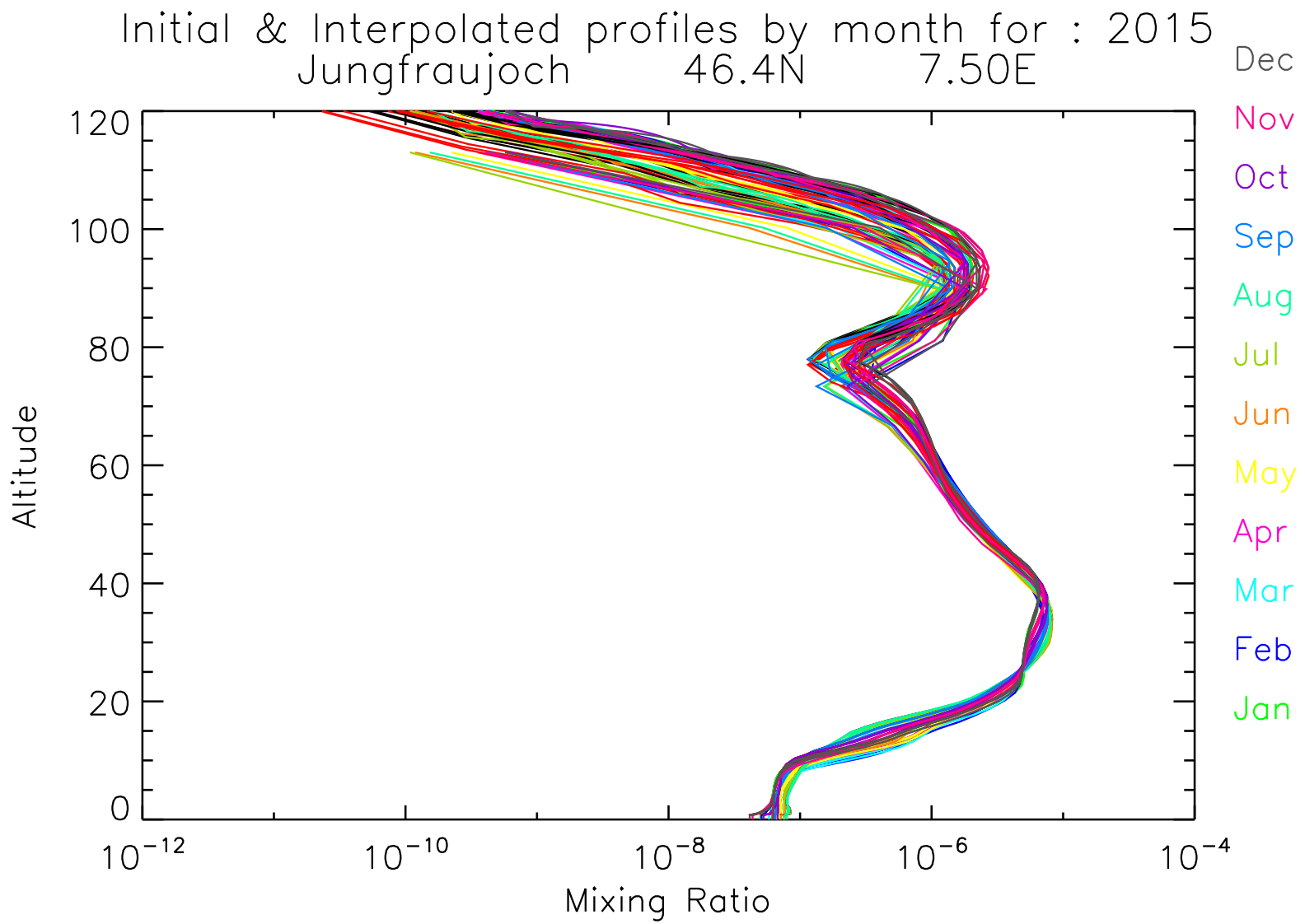
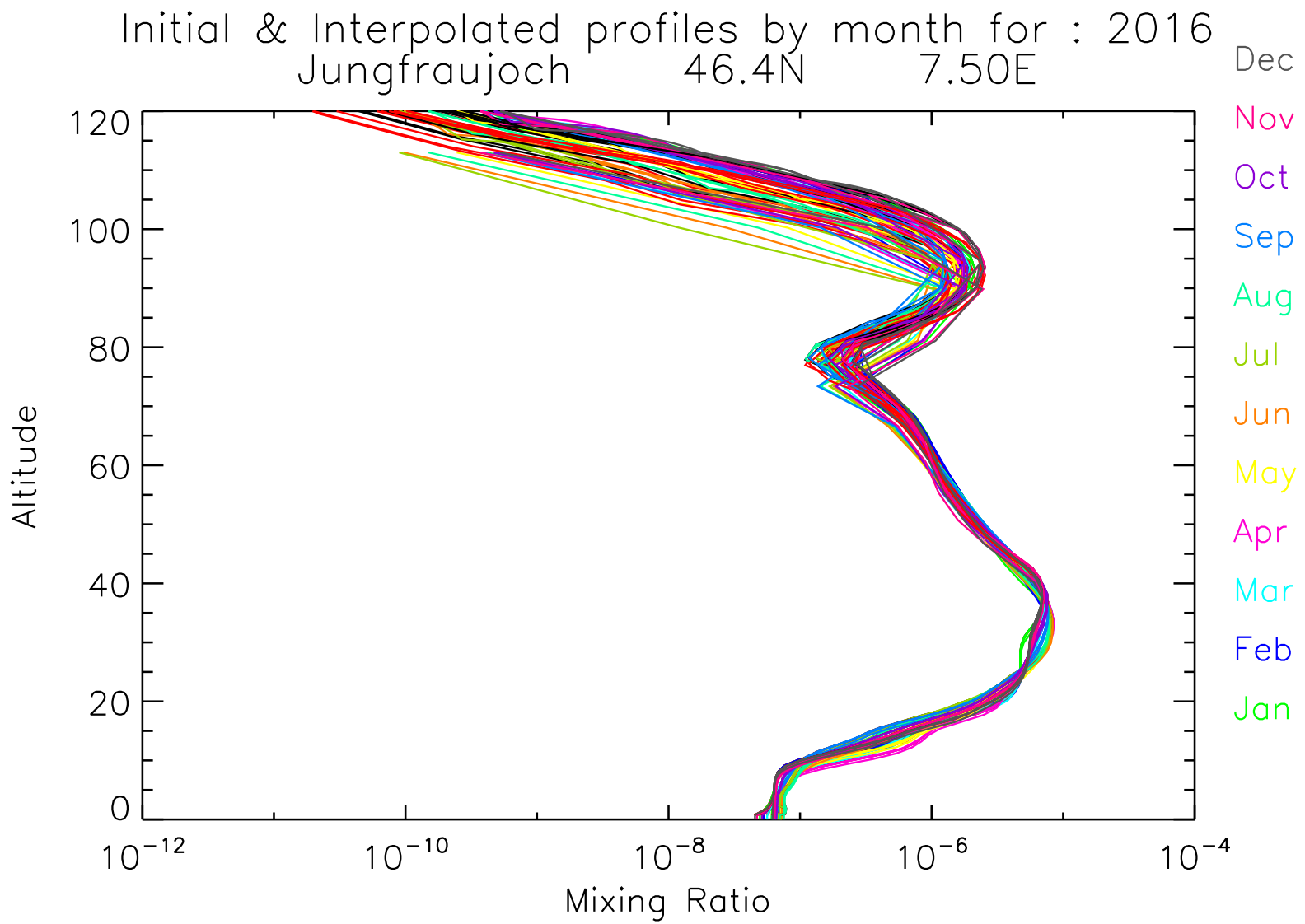
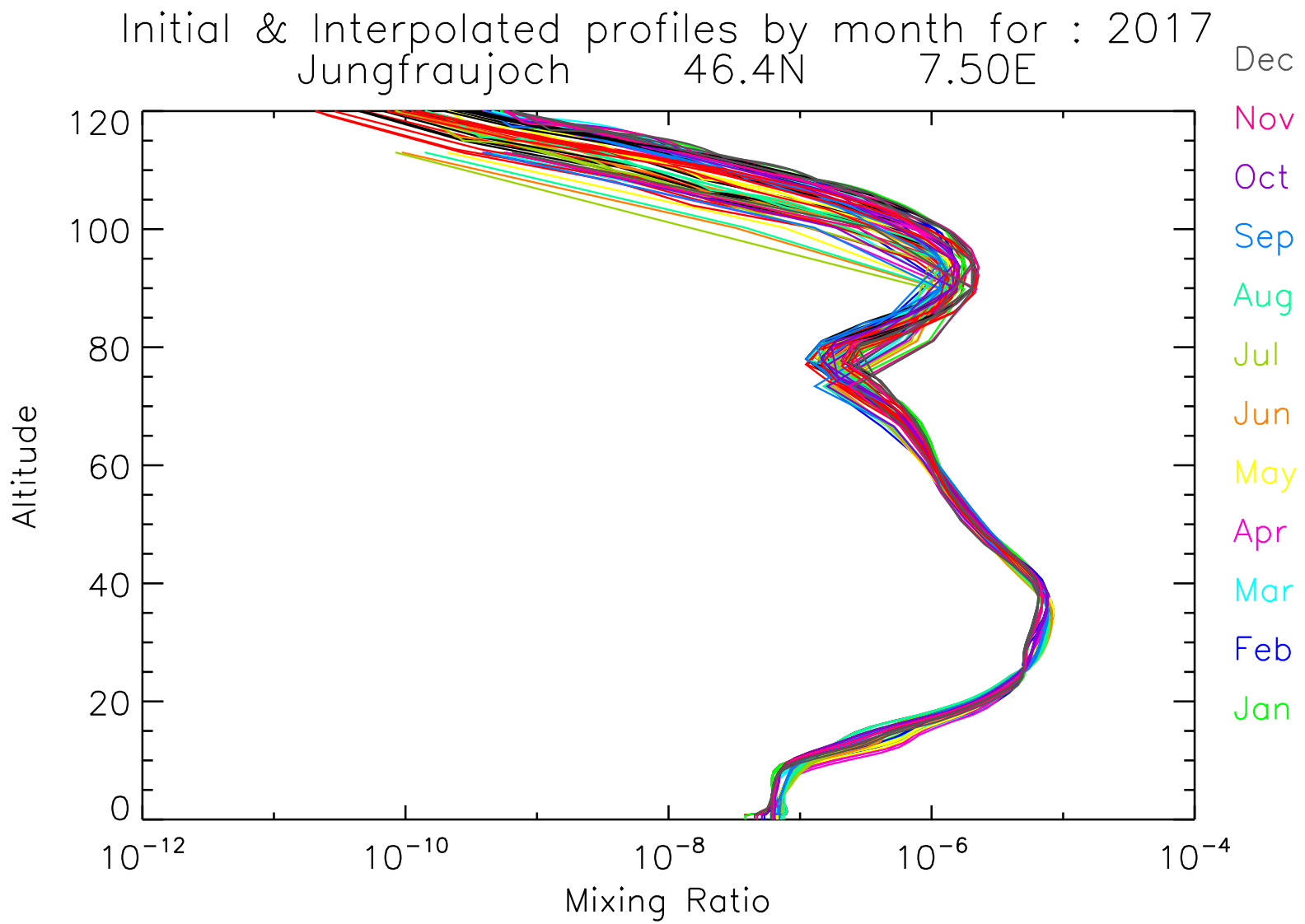
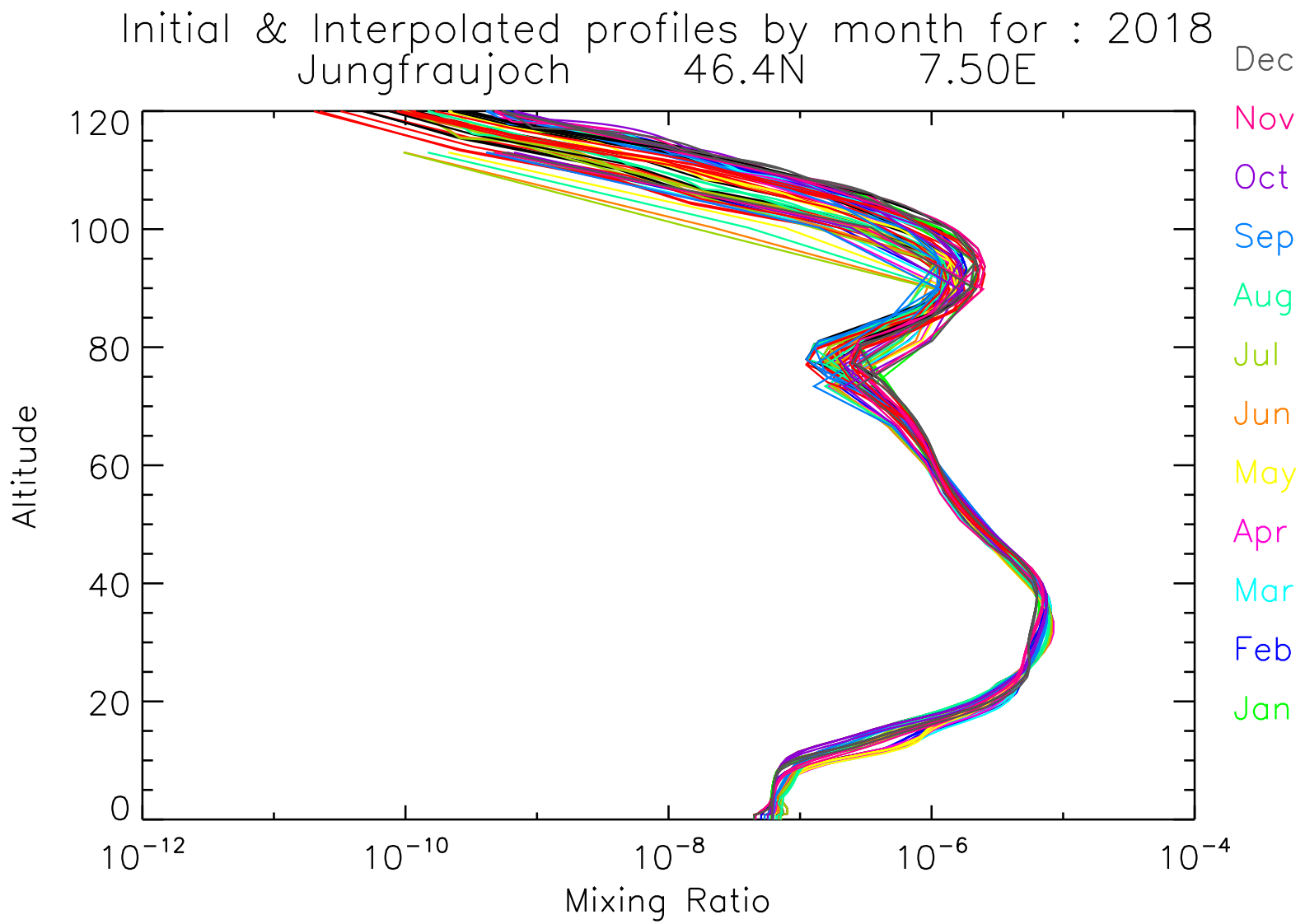
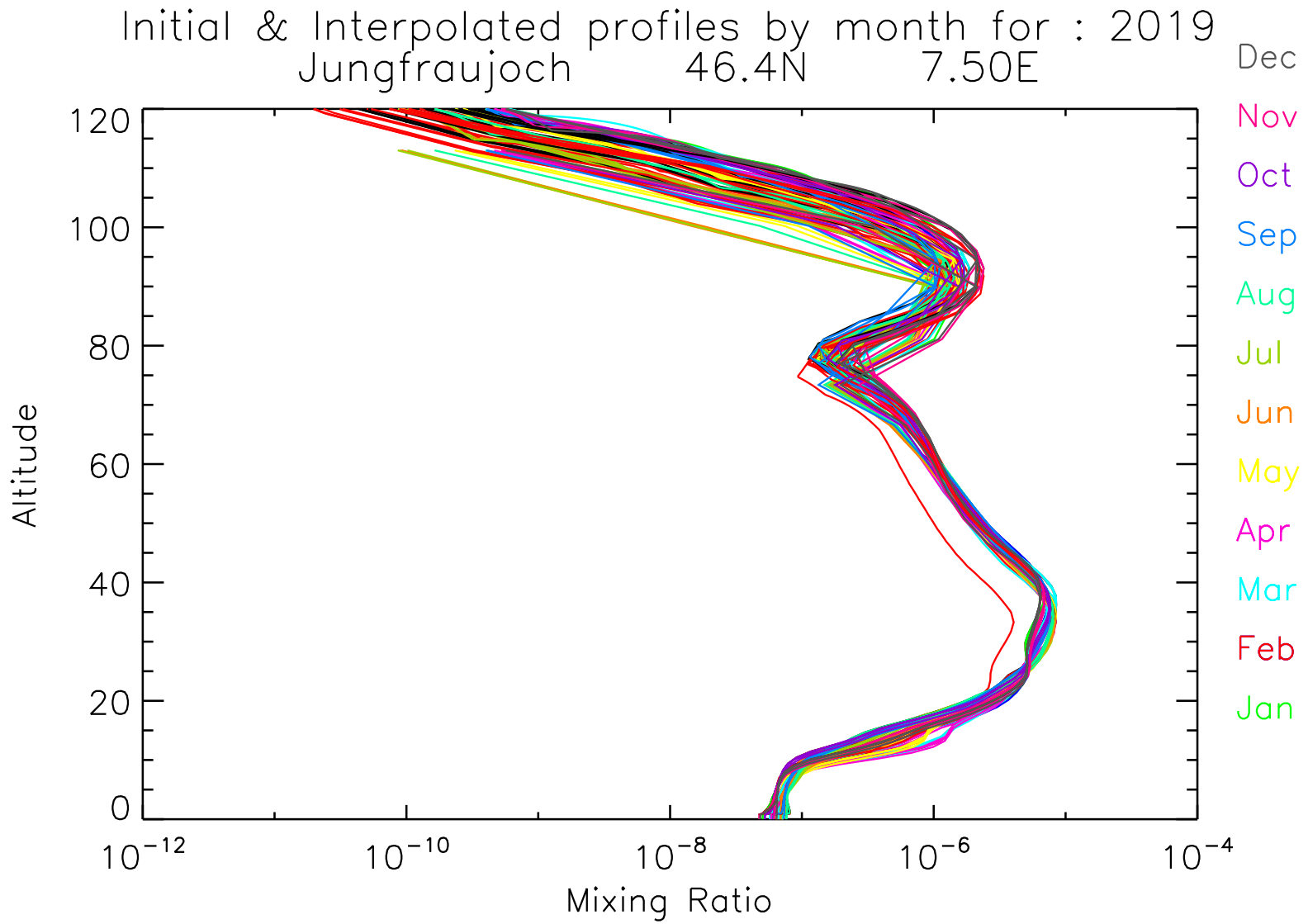
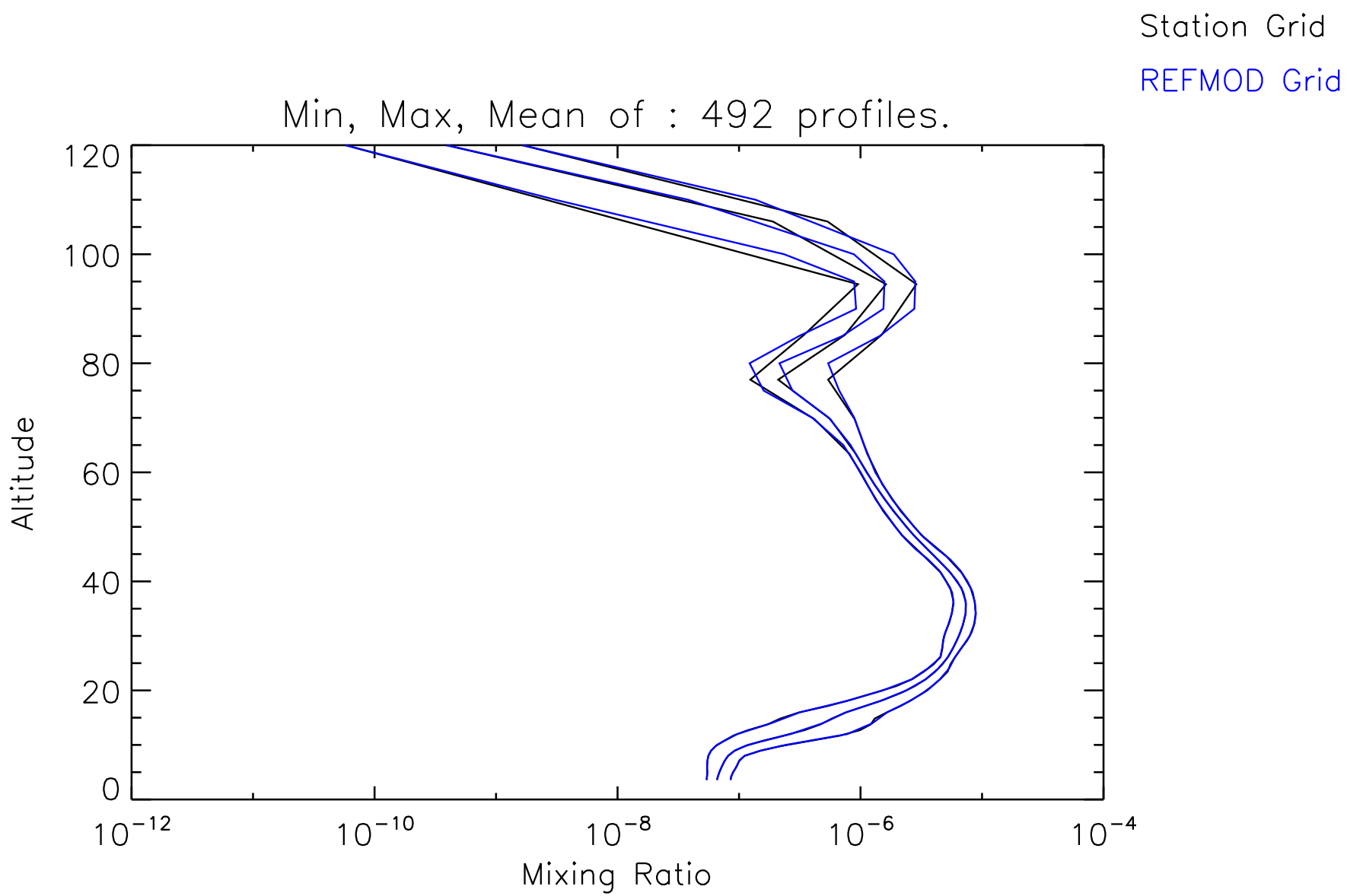

Initial & Interpolated profiles by month for : 2015
Jungfraujoch 46.4N 7.50E
Altitude
120
100
80
60
40
20
0
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan

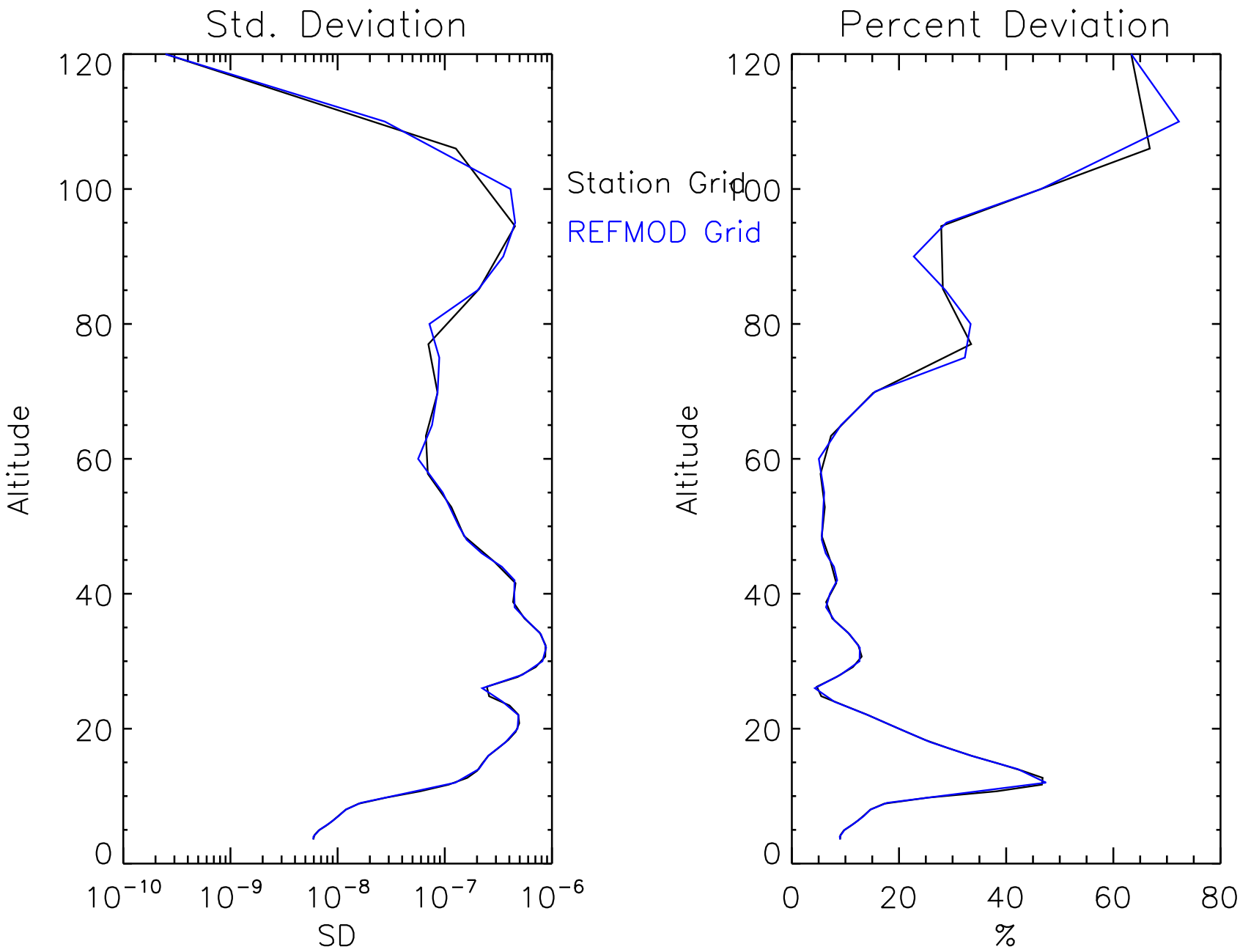

Initial & Interpolated profiles by month for : 2016
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio

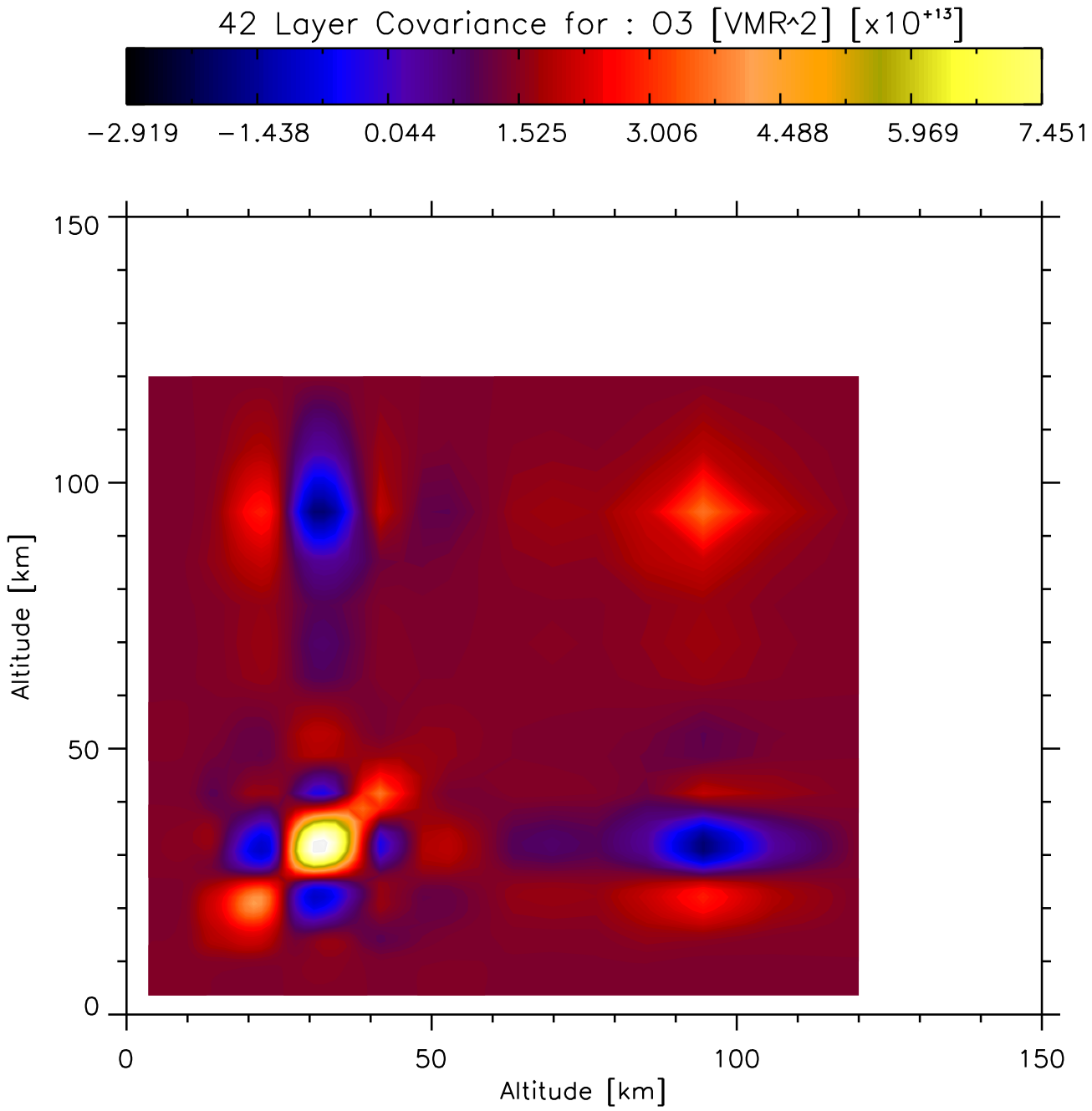

Initial & Interpolated profiles by month for : 2017
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio

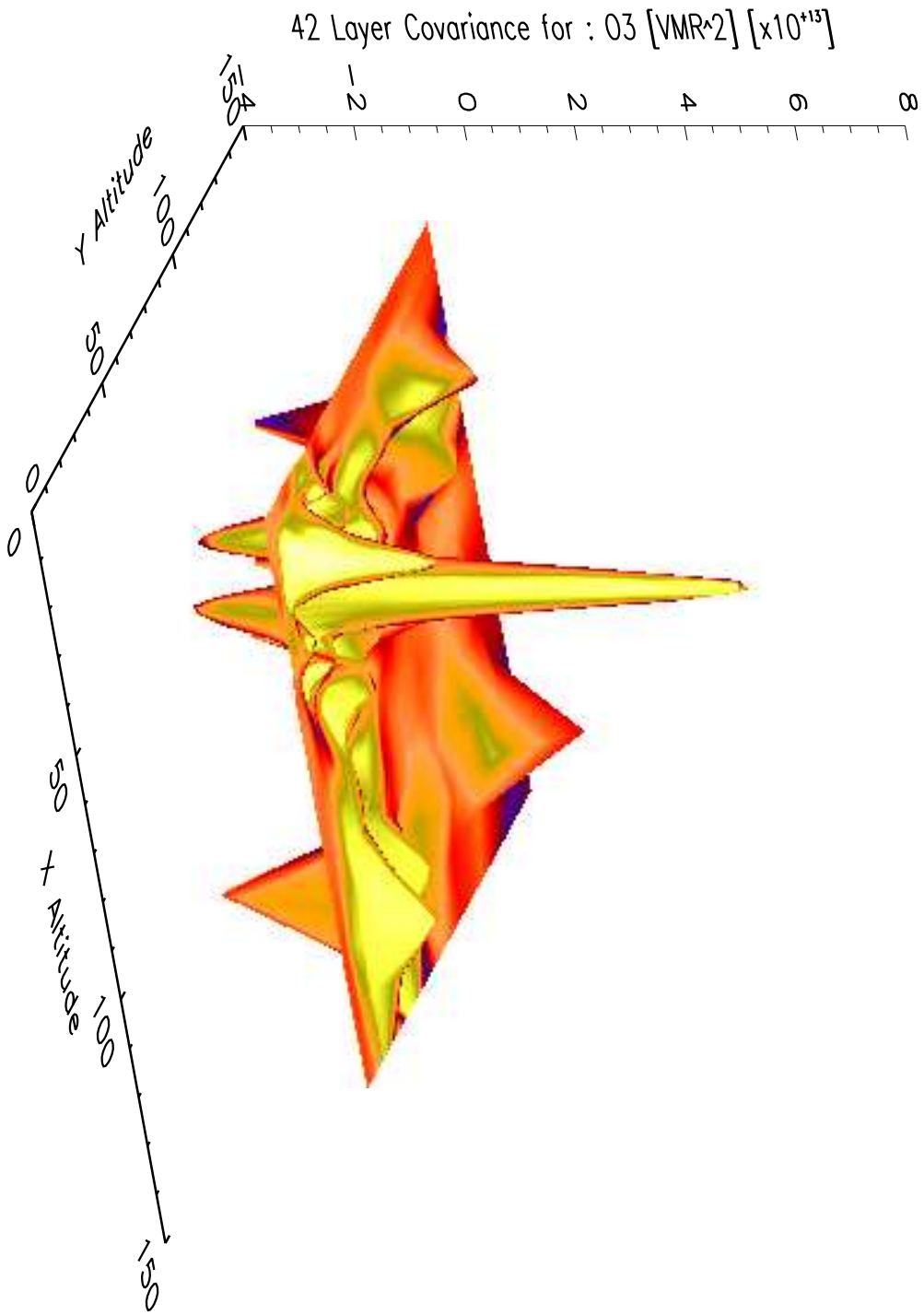

Initial & Interpolated profiles by month for : 2018
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio

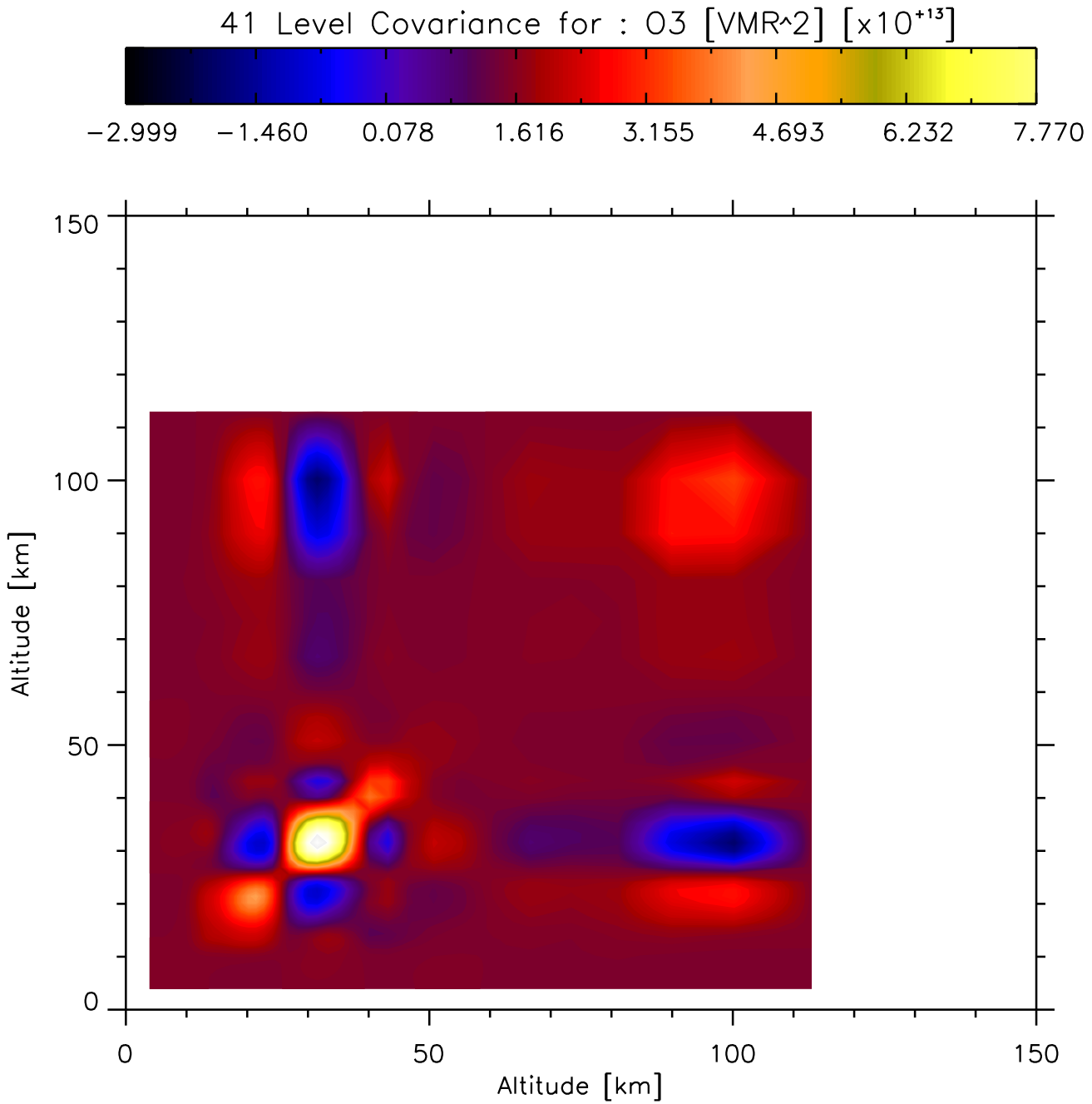

Initial & Interpolated profiles by month for : 2019
Jungfraujoch 46.4N 7.50E
Dec
Nov
Oct
Sep
Aug
Jul
Jun
May
Apr
Mar
Feb
Jan
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio

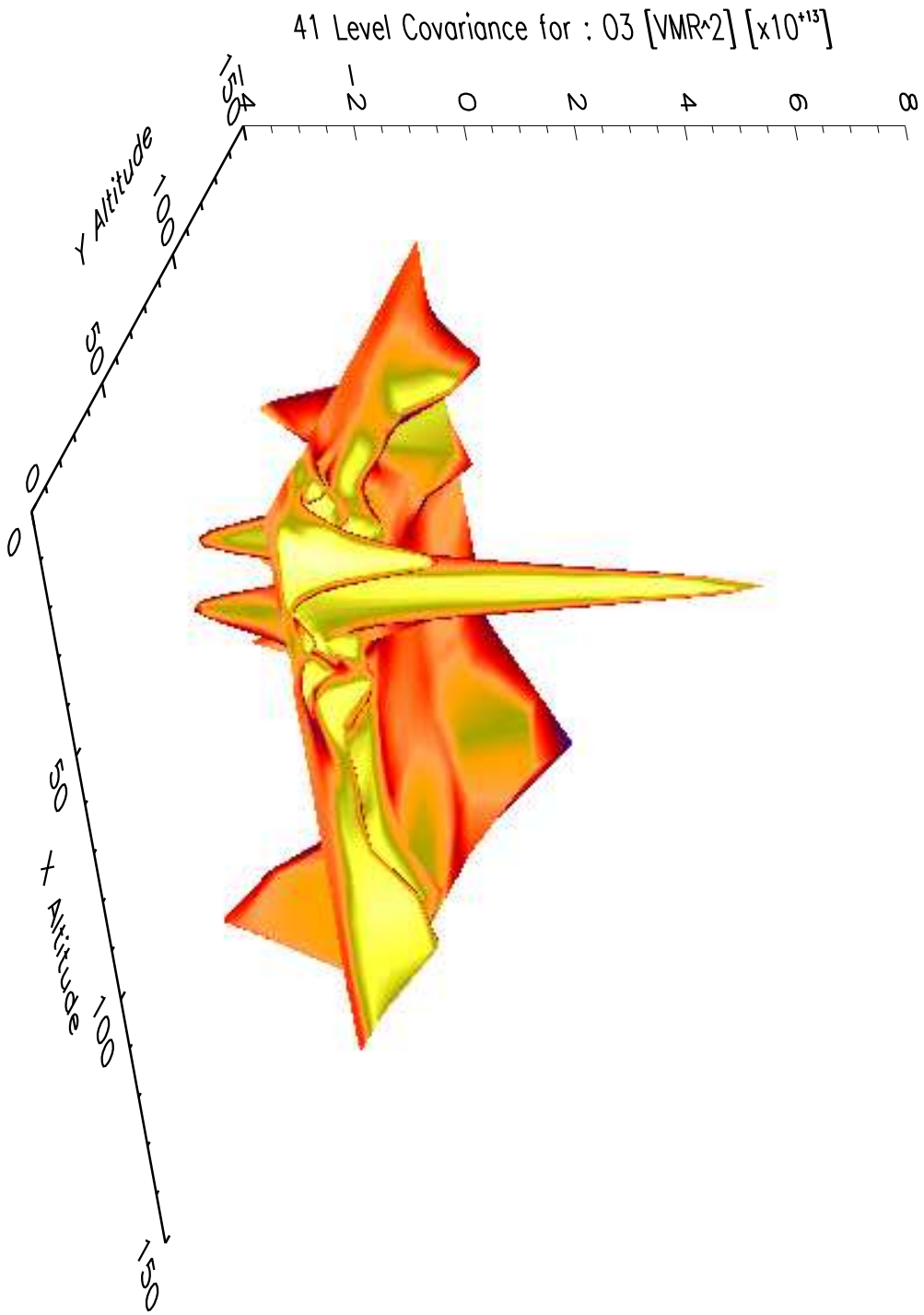

Station Grid
REFMOD Grid
Min, Max, Mean of : 492 profiles.
120
100
80
60
40
20
0
Altitude
10^{-12}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
Mixing Ratio


Std. Deviation
Percent Deviation
Station Grid
REFMOD Grid
Altitude
Altitude
120
100
80
60
40
20
0
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
SD
0
20
40
60
80
%


42 Layer Covariance for : O3 [VMR^2] [x10^+13]
−2.919
−1.438
0.044
1.525
3.006
4.488
5.969
7.451
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


42 Layer Covariance for : O3 [VMR^2] [x10^+13]
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Y Altitude
0
20
40
60
80
100
120
X Altitude
0
20
40
60
80
100
120


41 Level Covariance for : O3 [VMR^2] [x10^+13]
−2.999
−1.460
0.078
1.616
3.155
4.693
6.232
7.770
150
100
50
0
Altitude [km]
0
50
100
150
Altitude [km]


41 Level Covariance for : O3 [VMR^2] [x10^+13]
-14
-12
-10
-8
-6
-4
-2
0
2
4
6
8
Y Altitude
0
25
50
75
100
125
X Altitude
0
25
50
75
100
125