Map of China
Locations of provinces, autonomous regions and municipalities.
Heilongjiang
Jilin
Liaoning
BEIJING
Tianjin
Xinjiang
Gansu
Inner Mongolia
Hebei
Ningxia
Shanxi
Shandong
Qinghai
Henan
Jiangsu
Shaanxi
Shanghai
Tibet
Sichuan
Anhui
Hubei
Zhejiang
Chongqing
Jiangxi
Hunan
Guizhou
Fujian
Yunnan
Guangxi
Taiwan
Guangdong
Hong Kong
Hainan
Islands of South China Sea
LinAn
(119.75°E,30.30°N)
Hong Kong
(114.17°E,22.31°N)
Kunming
(102.68°E,25.03°N)

Figure 1

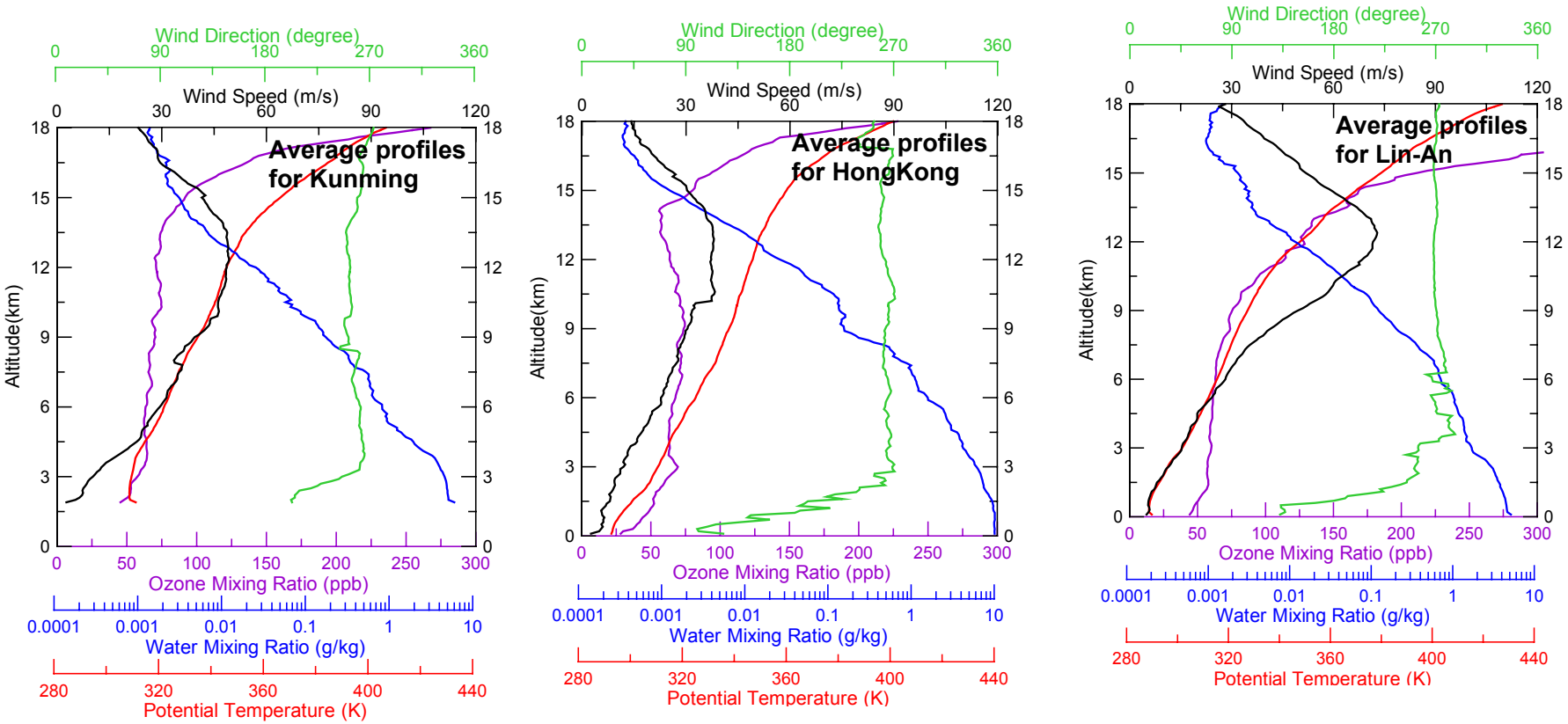

Average profiles for Kunming
Average profiles for HongKong
Average profiles for Lin-An
Wind Direction (degree)
Wind Speed (m/s)
Altitude(km)
Ozone Mixing Ratio (ppb)
Water Mixing Ratio (g/kg)
Potential Temperature (K)

Figure 2

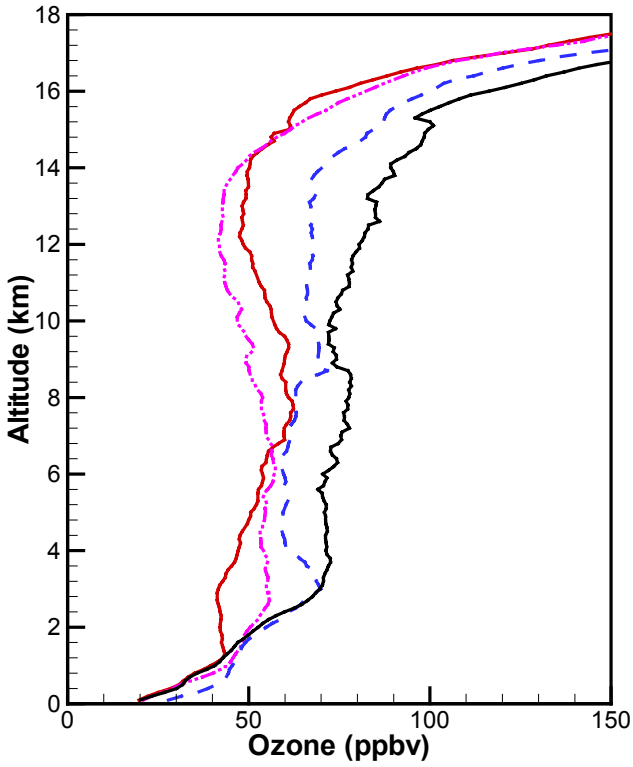


Figure 3

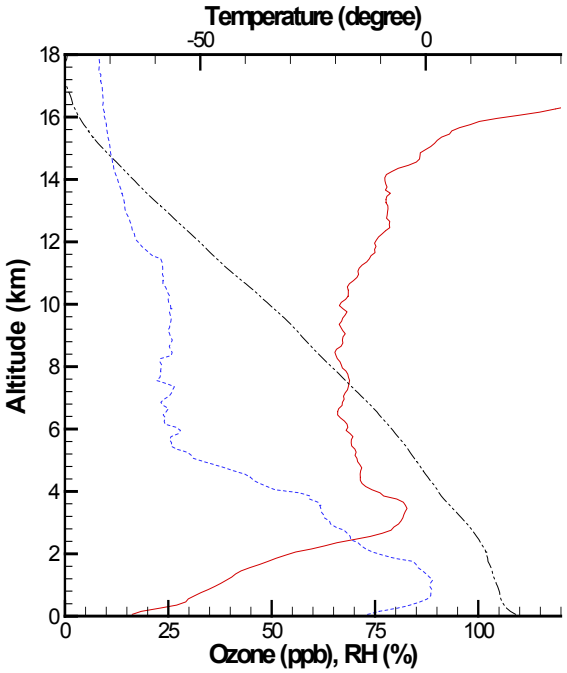

Temperature (degree)
-50
0
18
16
14
12
10
8
6
4
2
0
Altitude (km)
0
25
50
75
100
Ozone (ppb), RH (%)

Figure 4

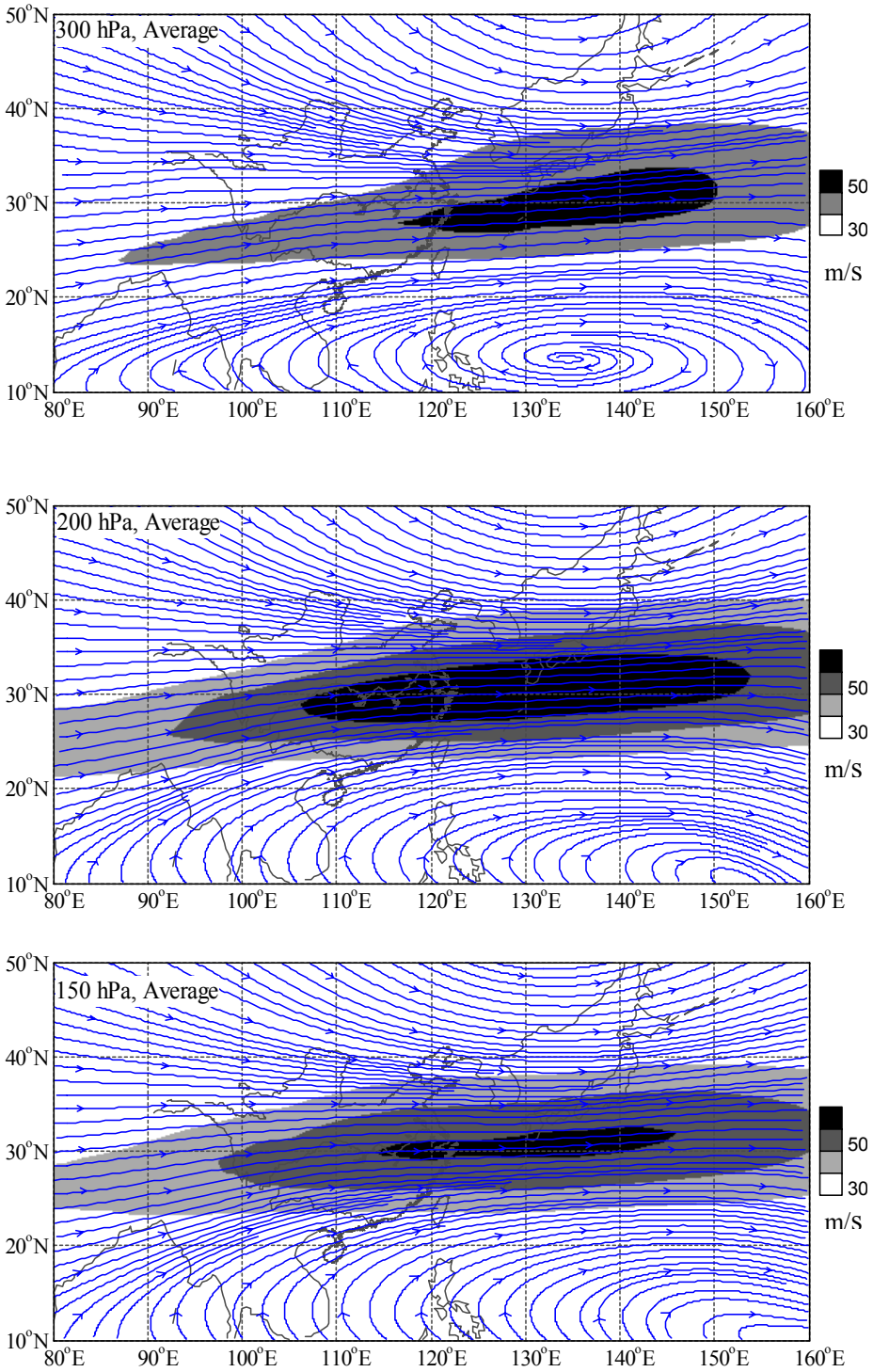

300 hPa, Average
200 hPa, Average
150 hPa, Average
50°N
40°N
30°N
20°N
10°N
80°E
90°E
100°E
110°E
120°E
130°E
140°E
150°E
160°E
50
30
m/s

Figure 5

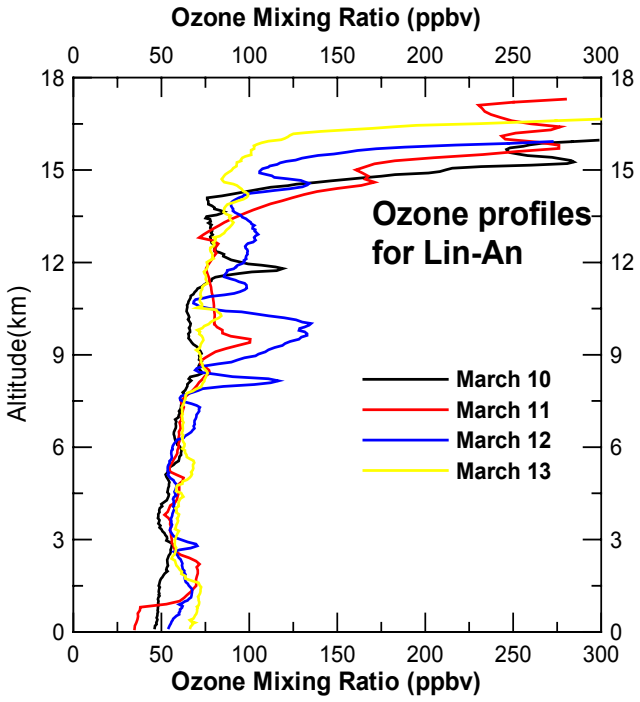

Ozone Mixing Ratio (ppbv)
0
50
100
150
200
250
300
18
15
12
9
6
3
0
Altitude(km)
Ozone profiles
for Lin-An
March 10
March 11
March 12
March 13
Ozone Mixing Ratio (ppbv)

Figure 6

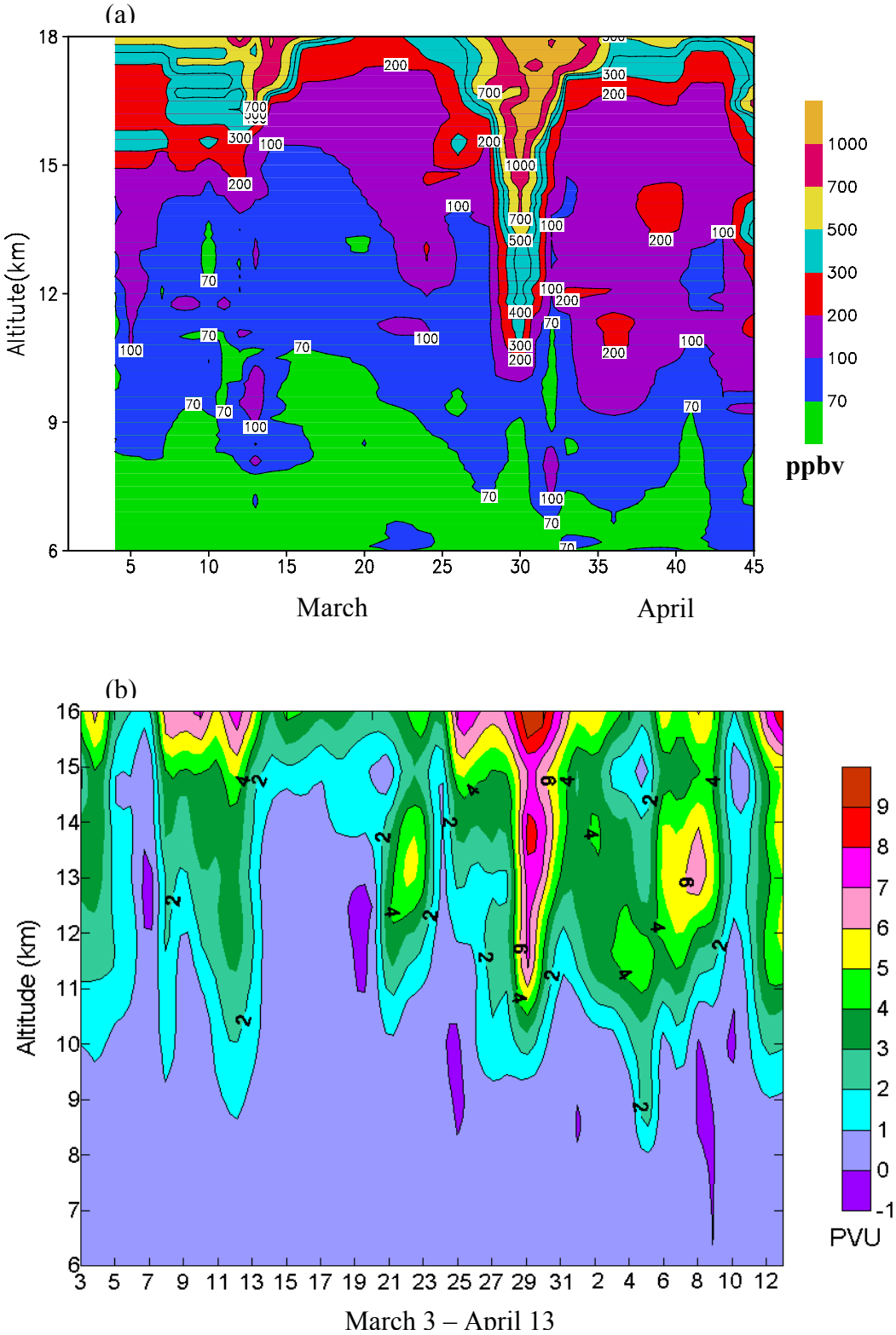
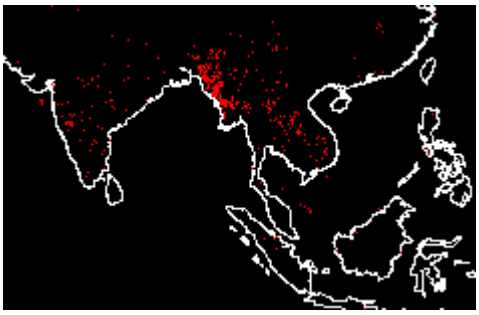

(a)
Altitute(km)
March
April
ppbv
1000
700
500
300
200
100
70
(b)
Altitude (km)
March 3 – April 13
PVU

Figure 7

March 2001



April 2001

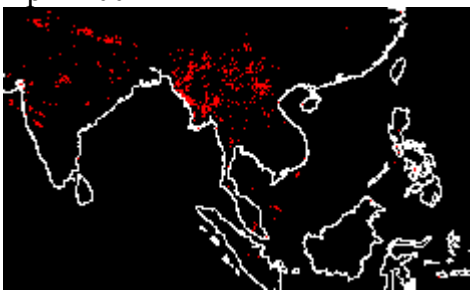


Figure 8

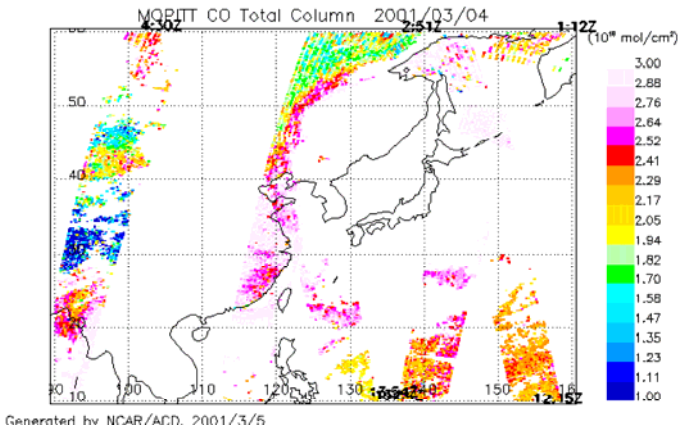

MOPITT CO Total Column 2001/03/04
4:30Z
2:51Z
1:12Z
(10¹⁸ mol/cm²)
3.00
2.88
2.76
2.64
2.52
2.41
2.29
2.17
2.05
1.94
1.82
1.70
1.58
1.47
1.35
1.23
1.11
1.00
50
40
30
20
10
100
110
120
130
150
12:15Z
Generated by NCAR/ACD, 2001/3/5

Figure 9

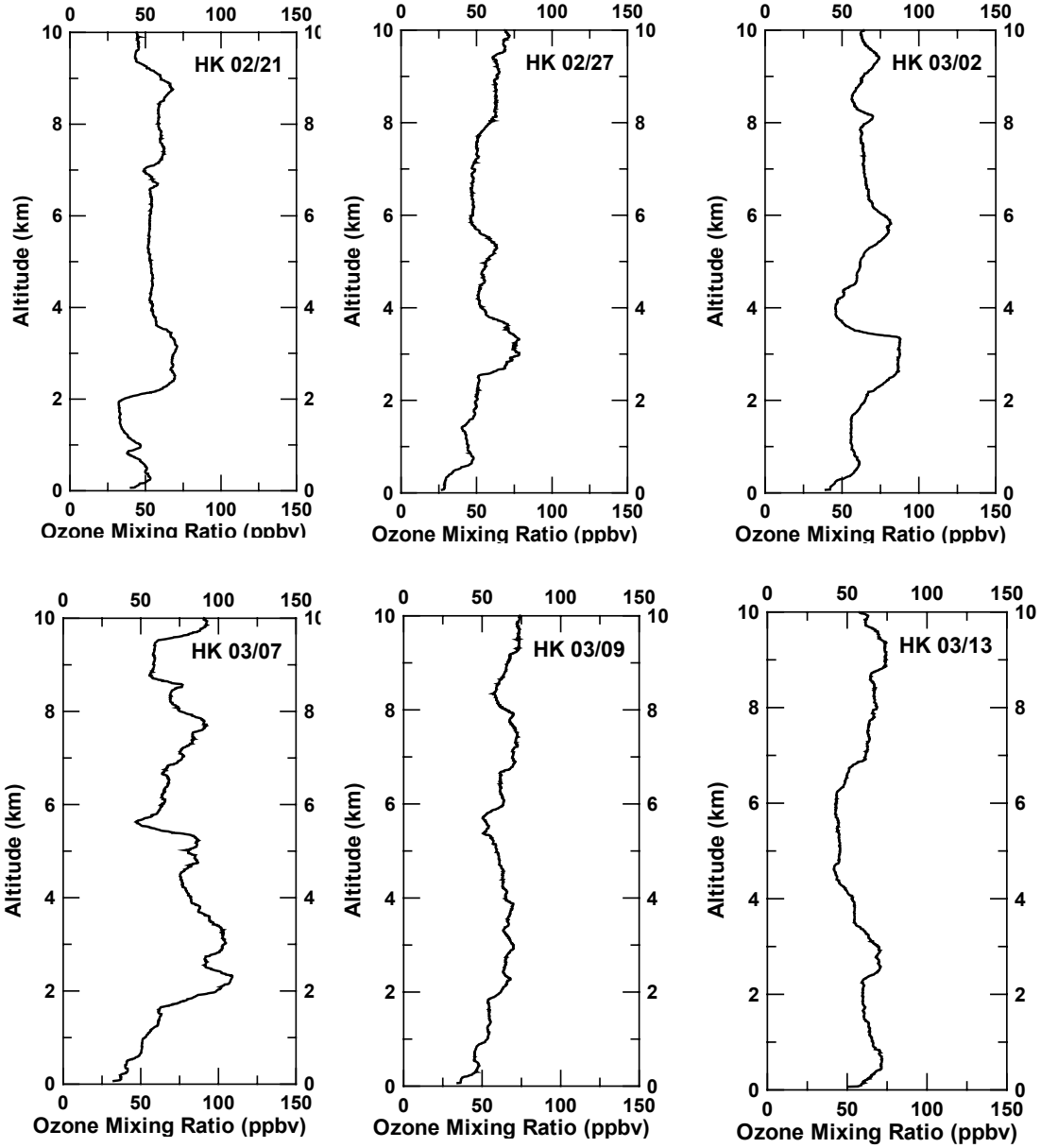

HK 02/21
HK 02/27
HK 03/02
HK 03/07
HK 03/09
HK 03/13
Altitude (km)
Ozone Mixing Ratio (ppbv)
0
50
100
150
0
2
4
6
8
10

Figure 10a

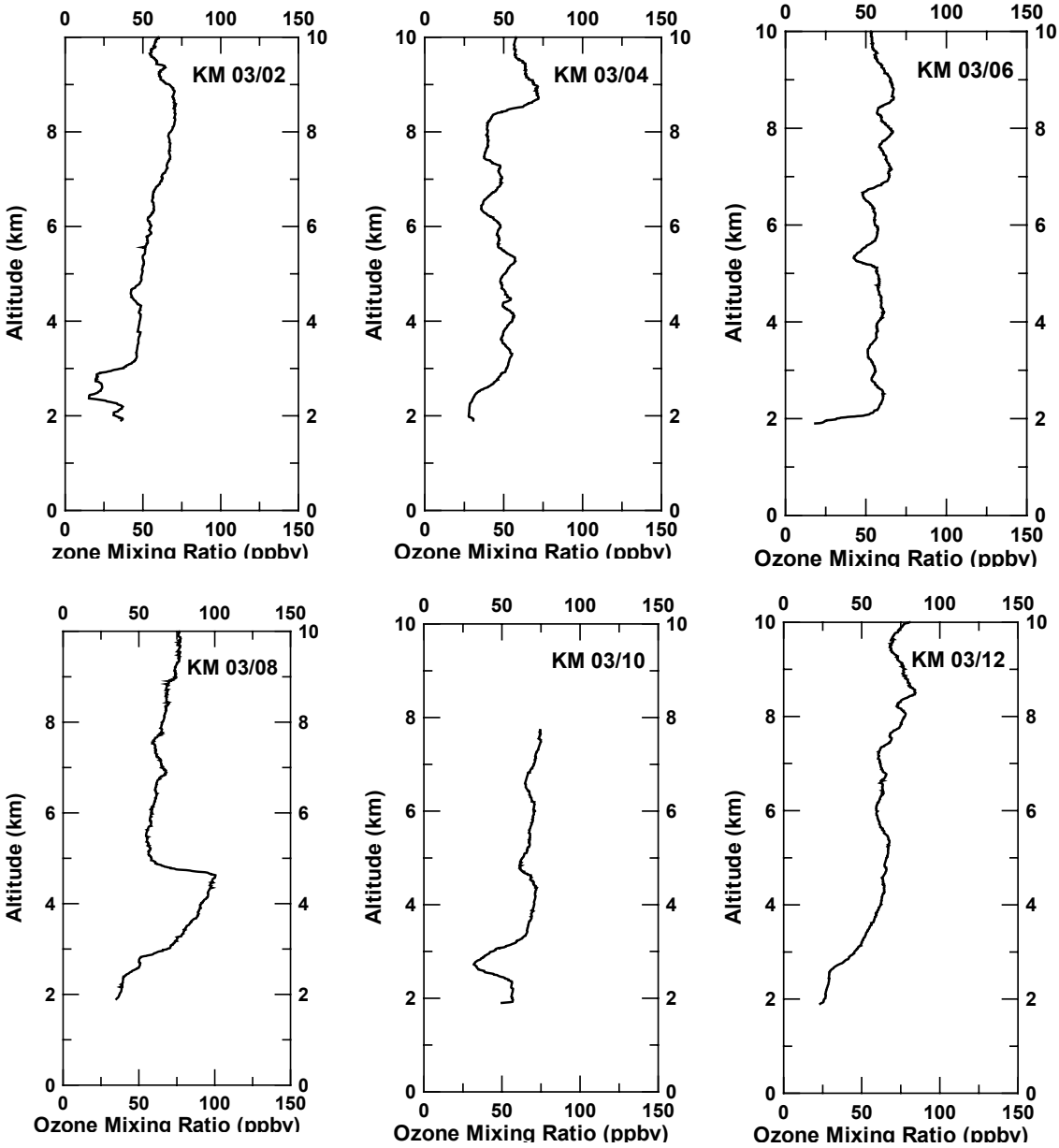

KM 03/02
KM 03/04
KM 03/06
KM 03/08
KM 03/10
KM 03/12
Altitude (km)
Ozone Mixing Ratio (ppbv)
0
50
100
150
0
2
4
6
8
10

Figure 10b

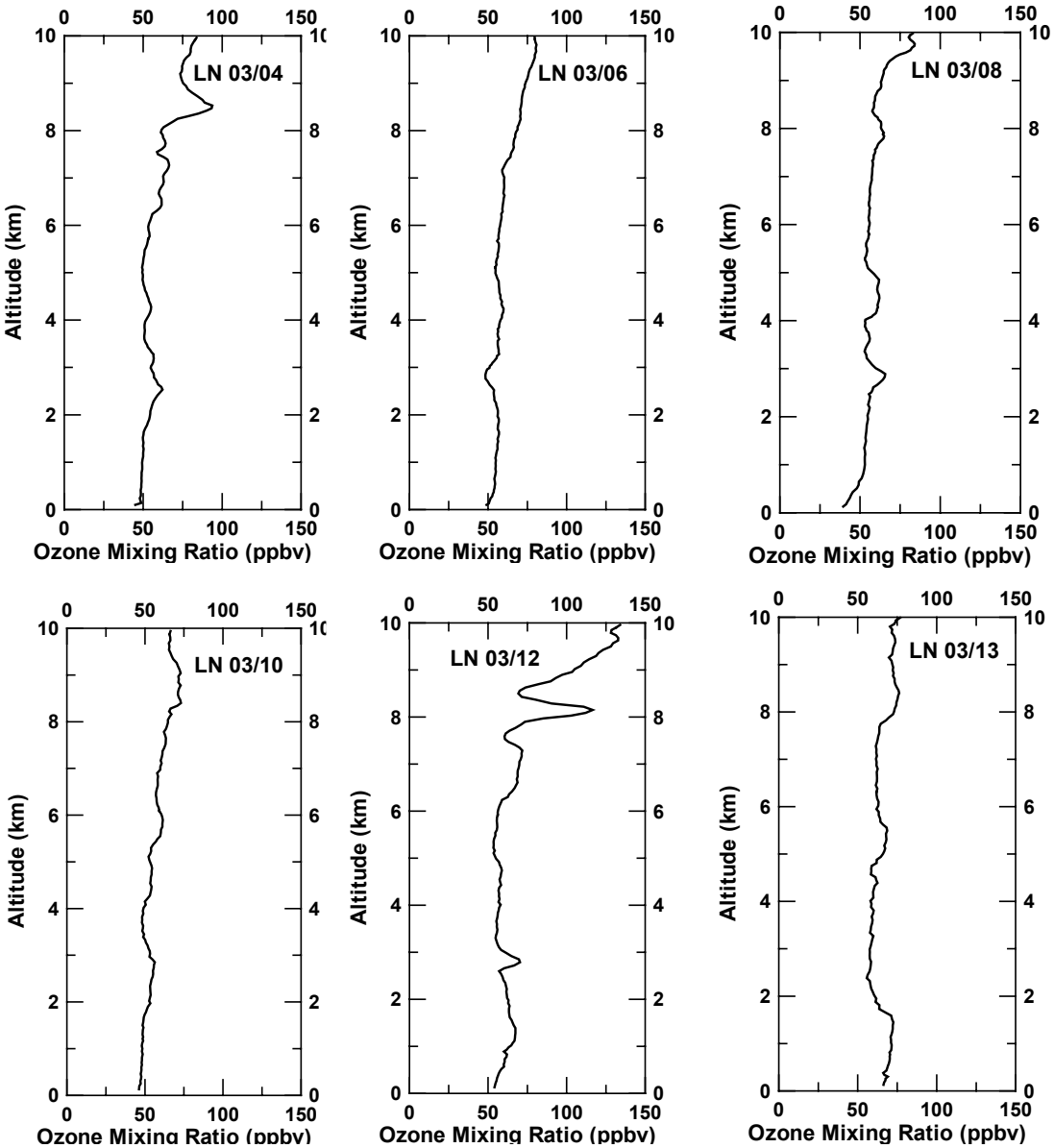

LN 03/04
LN 03/06
LN 03/08
LN 03/10
LN 03/12
LN 03/13
Altitude (km)
Ozone Mixing Ratio (ppbv)
0
50
100
150
0
2
4
6
8
10

Figure 10c

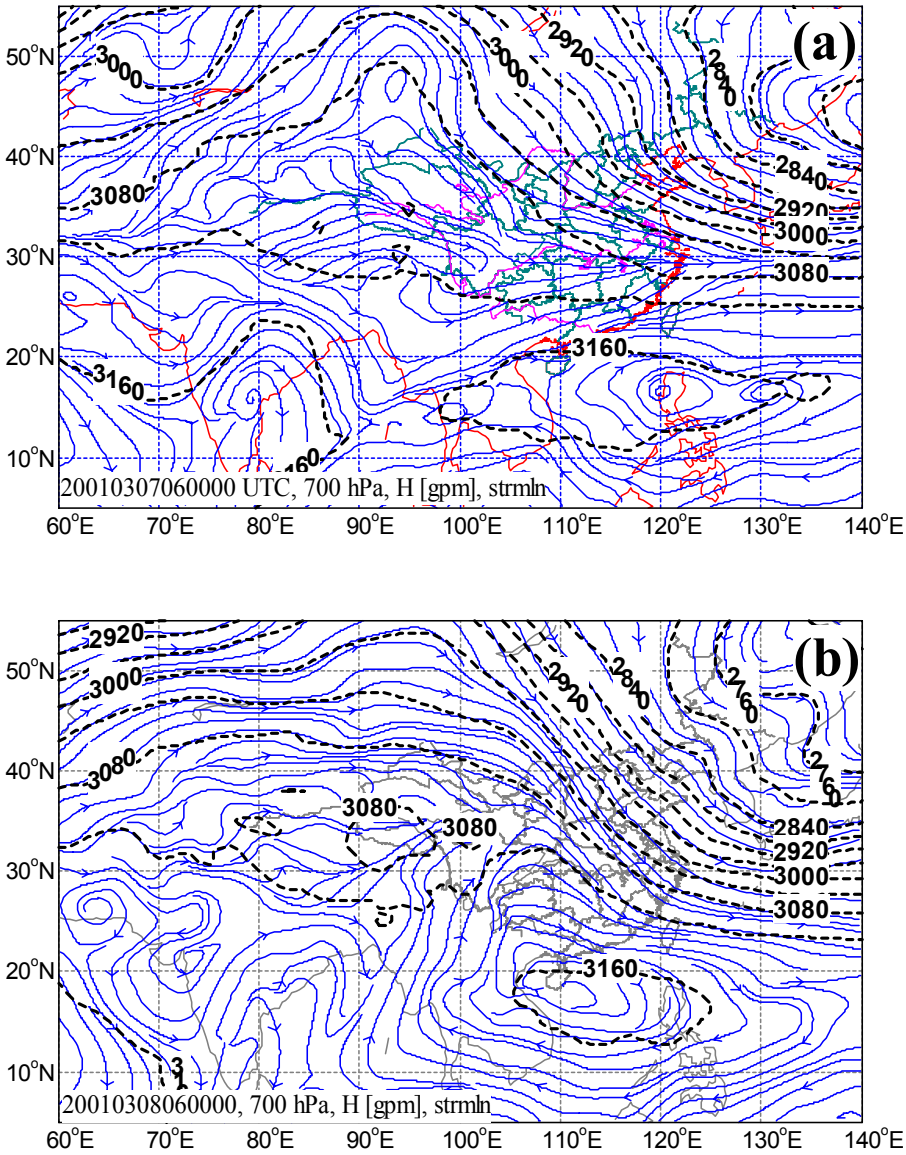

(a)
50°N
40°N
30°N
20°N
10°N
60°E
70°E
80°E
90°E
100°E
110°E
120°E
130°E
140°E
3000
2920
2840
3080
3160
20010307060000 UTC, 700 hPa, H [gpm], strmln
(b)
2760
20010308060000, 700 hPa, H [gpm], strmln

Figure 11