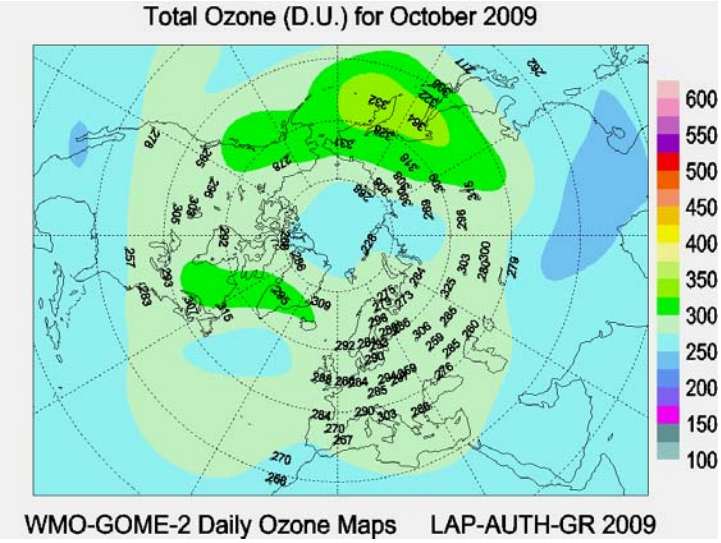
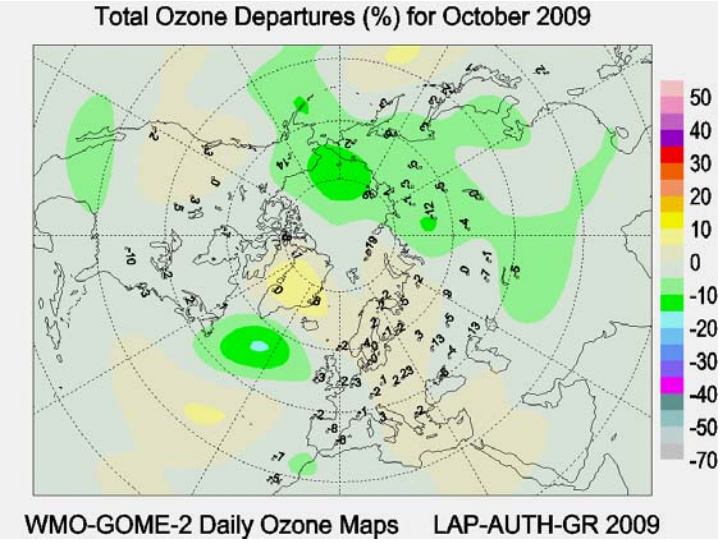
WMO Northern Hemisphere Ozone Mapping Center

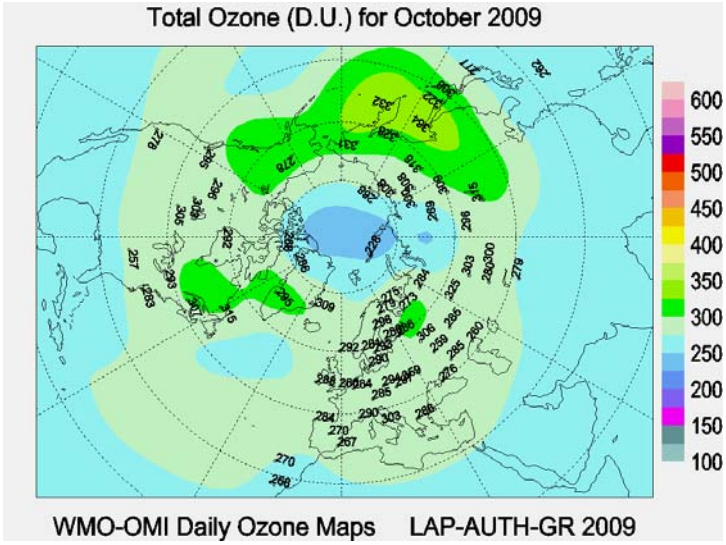
Monthly report

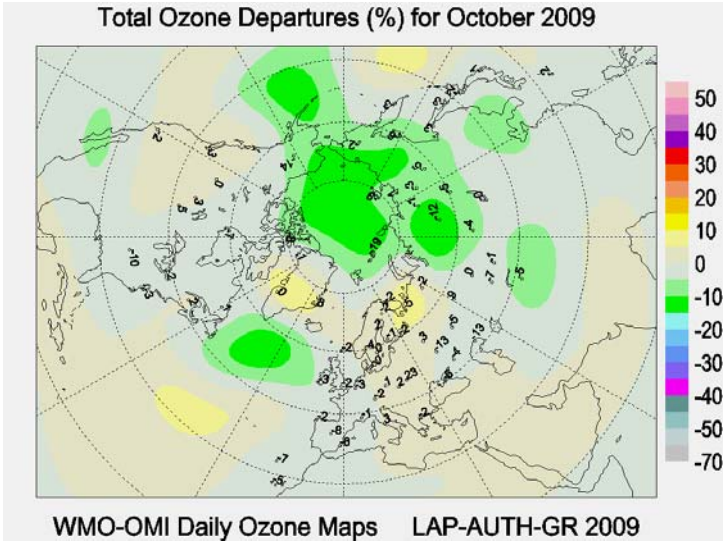
October 2009

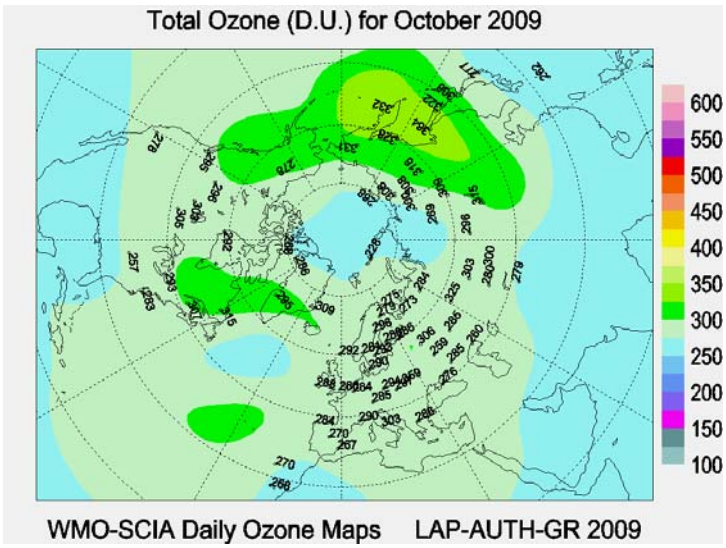
The ozone deficiency reached 20% over the Arctic region in October 2009. The first 10day period was characterized by negative ozone deviations of about 25% over Siberia and North Atlantic Ocean and 15% over the Arctic Ocean, whereas an ozone surplus was observed over Scandinavia of the order of 15%. Ozone destructions of about 25% and 15 % were detected over Alaska Bay and Bering Sea respectively, during the second 10day period. In this period an ozone abundance of around 25% was also noticeable over North East America and the Northern part of Russia. The last 10day period showed ozone depletion up to 15% over Russia and 10% over Alaska.






Total Ozone (D.U.) for October 2009
600
550
500
450
400
350
300
250
200
150
100
WMO-OMI Daily Ozone Maps LAP-AUTH-GR 2009


Total Ozone Departures (%) for October 2009
50
40
30
20
10
0
-10
-20
-30
-40
-50
-70
WMO-OMI Daily Ozone Maps LAP-AUTH-GR 2009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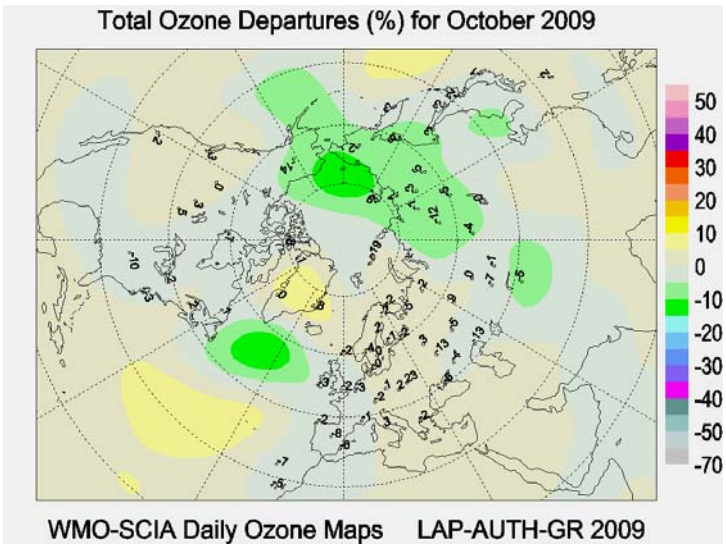
WMO-SCIA Daily Ozone Maps LAP-AUTH-GR 2009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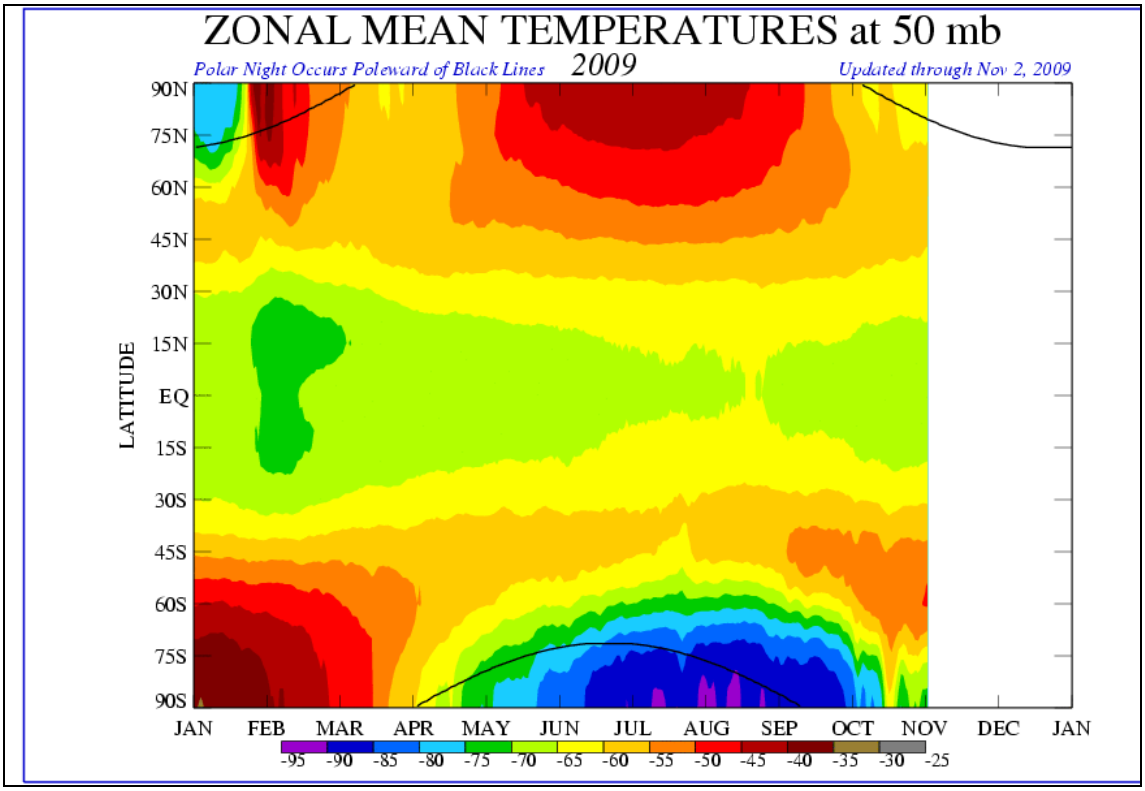

Courtesy of NOAA available at:

http://www.cpc.ncep.noaa.gov/products/stratosphere/polar/polar.shtml