Some Results of Surface and Tropospheric Ozone Measurements in Mongolia

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The results of measurements of the Buryat Science Centre of the Russian Academy of Science and the Institute of Meteorology and Hydrology of Mongolia show there are diurnal and weekly variations of trace gases transported from Russian industrial regions south east to Mongolia. Occasionaly this air contains high concentrations of surface ozone. Also, general circulation and weather conditions affect the concentrations of trace gases. [G.S. Zhamsueva, A.S. Zayakhanov, V.V. Tsydypov, A.A. Ayurzhanaev, D. Oyunchimeg.D. Azzaya 2009]. Figure 1 shows that the same annual variation of surface ozone in Ulaanbaatar is similar to European stations with relatively high concentrations in Mongolia. [Data from the NOAA ESRL Global Monitoring Division and the Global Atmosphere Watch Training & Education Center].

References:

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