

The precise value of this effect is difficult to estimate because available models are simple and do not have sufficient temporal resolution. Preliminary results of a simplified one-dimensional model of impulse loading of the stratosphere by NO obtained in the course of this study indicate that ozone reductions in the range of 30-70 percent are possible. The average ozone column reduction in the southern hemisphere might be in the range of 20 to 40 percent. Within two to four years, it is expected that about 60 percent of this reduction will have been restored as a result of natural atmospheric processes (dry fallout, rainout, and washout).

Temperature Effects

The amount of dust injected into the stratosphere by 10^4 Mt of detonations is estimated to be 10^7 - 10^8 tons. This amount is of the same order as that estimated to have been injected by the volcanic eruption of Krakatoa in 1883 and would be expected to reduce the solar irradiance at the ground by a few percent over a one- to three-year period. Simple analyses of available data indicate that this event may have reduced average global surface temperature by a few tenths of a degree centigrade. The possibility of temperature changes of different magnitude, or even of opposite sign, however, cannot be ruled out in the event of a major nuclear exchange.

The ozone layer plays a major role in atmospheric circulation, through stratospheric heating. Severe local disruption of stratospheric ozone concentrations probably would result in local stratospheric temperature changes, which are likely to propagate to the troposphere. Simplified model calculations have indicated that a uniform reduction of 50 percent in the total global ozone column might lead to a reduction in global average surface temperature of the order of several tenths of a degree centigrade. These calculations are highly simplified, and the vertical ozone reduction will not be uniform; therefore, surface temperature changes of different magnitude or even opposite sign are plausible in the event of a nuclear exchange.

Climatic Implications

Global average surface temperature changes as small as 0.5°C can be associated with disproportionately large impacts on regional climate. For a given global average change, generally it would be expected that smaller temperature changes would occur in the tropical and subtropical zones and larger changes would occur at higher latitudes. Substantial changes in weather extremes (e.g., number of frost-free days), which could be of major importance to agriculture, have also been related plausibly to such small changes in global mean climate.

Because such perturbations are within the normal range of natural climate variability, the recovery time associated with them probably would be only a few years. Present understanding of climate change, however, is insufficient to rule out the possibility that recovery from such an artificial disruption could take substantially longer. Such a perturbation also might lead to a major global climatic change.

Long Term Worldwide Effects Of Multiple Nuclear Weapons Detonations

National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Committee on the Atmospheric Effects of Nuclear Explosions

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