

Two Figures from the paper by Carl Sagan in Foreign Affairs (Winter 1983-84)
 on "NUCLEAR WAR AND CLIMATIC CATASTROPHE: SOME POLICY IMPLICATIONS"

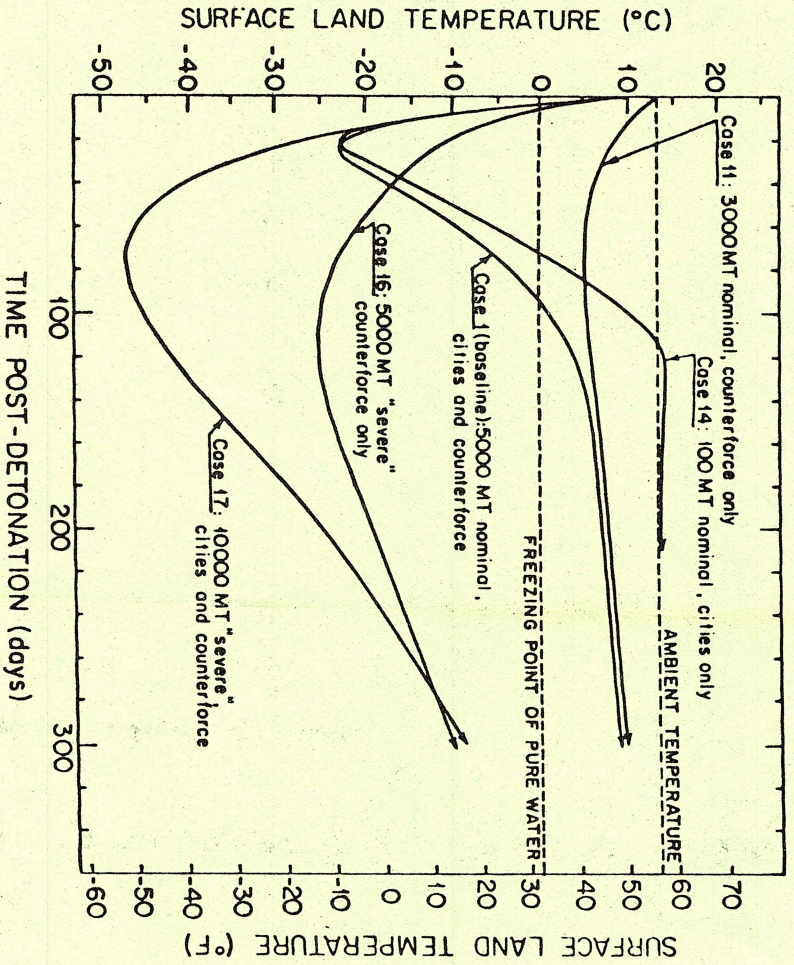


FIGURE 1
 TEMPERATURE EFFECTS OF NUCLEAR WAR CASES

NOTE: In this Figure, the average temperature of Northern Hemisphere land area (away from coastlines) is shown varying with time after the five Cases of nuclear war defined in Table 1. The "ambient" temperature is the average in the Northern Hemisphere over all latitudes and seasons; thus, normal winter temperatures at north temperature latitudes are lower than is shown, and normal tropical temperatures are higher than shown. Cases described as "nominal" assume the most likely values of parameters (such as dust particle size or the frequency of firestorms) that are imperfectly known. Cases marked "severe" represent adverse but not implausible values of these parameters. In Case 14 the curve ends when the temperatures come within a degree of the ambient values, for the four other Cases the curves are shown ending after 300 days, but this is simply because the calculations were not extended further. In these four Cases the curves will continue in the directions they are headed.

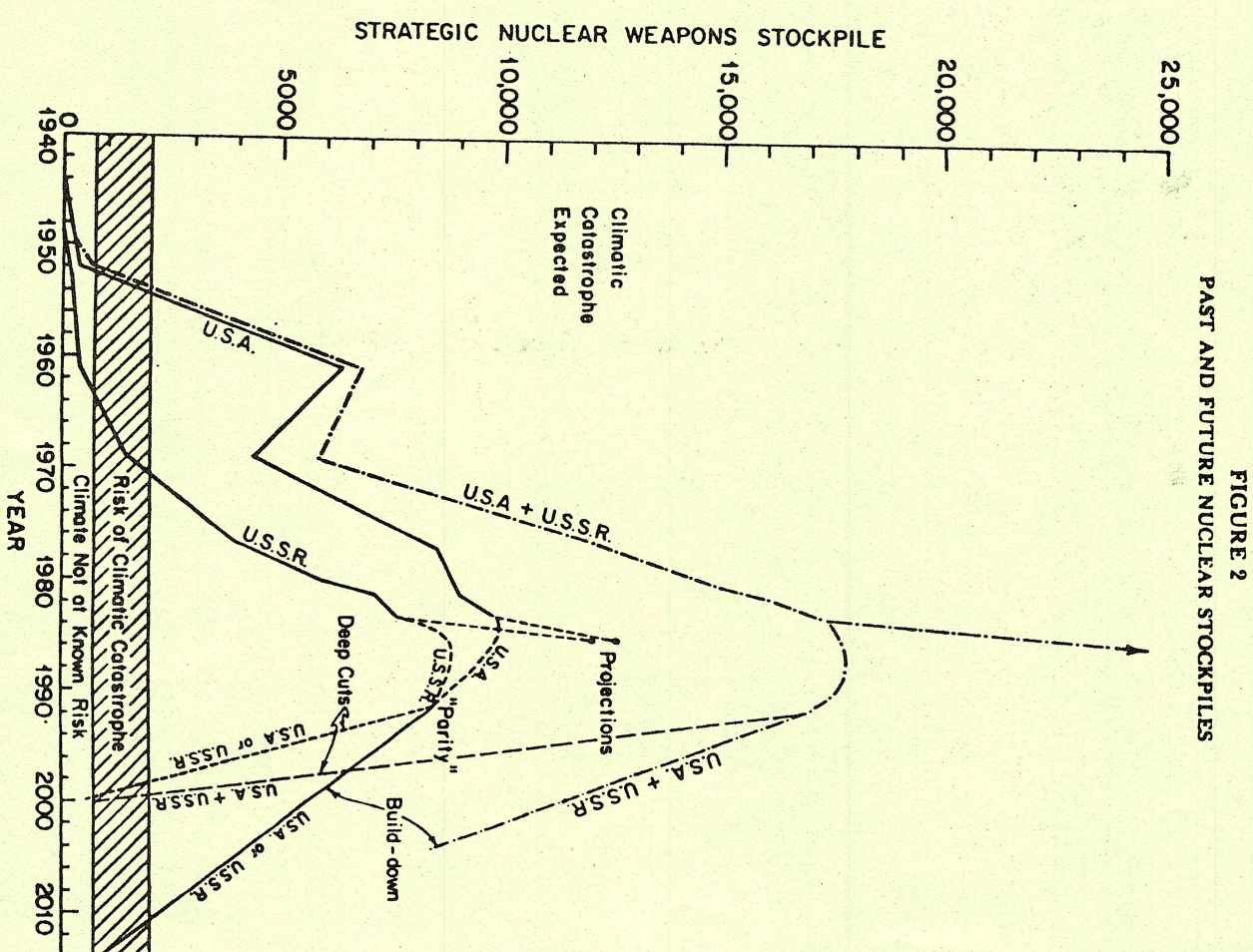


FIGURE 2
 PAST AND FUTURE NUCLEAR STOCKPILES