

opportunity is severely hampered by the poor quality and limited quantity of past measurements. With this caveat, however, one may note that, in the eastern U.S., a) the lack of a noticeable trend in wet sulfate deposition during the past five years is consistent with small changes in SO_x emissions, and b) an upward trend in wet nitrate-deposition qualitatively agrees with a similar upward trend in NO_x emissions. But in northern Europe, the pentade (five-year average) to pentade sulfur deposition between 1955 and 1975 did not follow the trends in SO_x emissions.

Although acidic and alkaline deposition is emphasized in this report, it must be recognized that there are potentially injurious pollutants that may participate in long-distant transport. Ozone, organics, and heavy metals were identified as possible substances of concern. Of these, it is shown that ozone has received the most study and its behavior and effects best documented. The transport and deposition of organics and heavy metals are less well-known and more emphasis should be placed on understanding their atmospheric cycles.

Recommendations

In some of the sections of this report, a few explicit recommendations are made, but several others are only implicit in the discussions scattered throughout the text. Here these recommendations are compiled and are followed by a brief rationale for each.

The difficulties in both the collection and interpretation of air and precipitation monitoring data are self-evident from reading the following report. While many advances have been made in monitoring techniques and our understanding of the long-range transport phenomenon has increased substantially in recent years, there is still considerable room for improvement. The following general recommendations are made with this in mind. Detailed "how to do it" recommendations are not appropriate here, but the subgroup feels strongly that the Memorandum of Intent and any subsequent agreement should provide a framework in which to set up a joint U.S.-Canada mechanism to implement the recommendations. These recommendations apply to