

## Chapter 7

### CONCLUSIONS, RECOMMENDATIONS, AND PHASE II WORK

#### Conclusions

Work Group 2 has reviewed the modeling, monitoring and research aspects of the atmospheric behavior of acid-forming pollutants, particularly sulfur, between their source regions and deposition areas. The role, capabilities and applications of selected transport models from both Canada and the U.S. have been described. As a part of the Phase I work, "first cut" transfer matrices to describe source-receptor relationships have been constructed by the Group. Comparisons of model results were made with deposition data collected by networks in both countries.

The following are the major conclusions of the Group

- (1) The source-receptor matrices obtained to date are of an interim nature, and must be viewed as only a first attempt to quantify relationships. Revisions and refinements will be made in the transfer matrices during future Phases.
- (2) Monitoring data of high quality are crucial for the evaluation of models, and, at present, significant uncertainties exist in these data. The continuation of existing monitoring networks, and of strong quality assurance programs are essential to ensure that valid monitoring data will be available for future in-depth comparisons with model calculations.