

areas, which are based on the 80 km x 80 km Transverse Mercator grid. This projection was necessarily done in an approximate way and some mechanical difficulties and uncertainties still exist in relating the 11 Canadian regions to the 63 U.S. areas.

SO₂ emissions in the 11 Canadian regions and in the 63 U.S. areas are given for comparative purposes in Appendix 6. In addition, a comparison was made between SO₂ emissions used in the Ontario Ministry of the Environment (OME) and the Atmospheric Environment Service (AES) models. Basically, the OME model used emissions that were about 80% of the total emissions used in the AES model for the 8 regions in the U.S., while the emissions used for the 3 regions in Canada were approximately equivalent.

It is expected that early in Phase II, Work Group 2 will be provided with an "agreed" and "unified" Canada/U.S. emissions data base which will be made available to all participating modeling groups. Such a common inventory could be expected to lead to improved agreement in model results.