Table 5. Conversion of SO_2 in Power Plant and Smelter Plumes (cont.)

Source	SO ₂ Oxidation Rate (% h ⁻¹)	Comments
Garber et al. (1980)	<1	-Northport oil-fired power plant (41°N) -a wide range of meterological conditions were examined. The data suggest a weak positive correlation of coversion rate with temperature, water partial pressure and isolation
Hegg and Hobbs (1980)	0 to 5.7	-five coal-fired power plants, W. and Midwest U.S.Avarious times of year -evidence of photochemical reactions; conversion depended on u.v. light intensity
Gillani et al. (1980)	rate = 0.03 R.H.O3 R = solar radiation H = mixing height O3 = background ozone	-plumes from Labadie, Cumberland and Johnsonville power plants-for dry conditions only
Chan et al. (1980)	<0.5	-Sudbury smelter plume (47°N) -no correlation of rate with temperature, relative humidity
Eatough et al. (1980)	<0.5 to 6	-Western U.S. smelter and power plant plumes -positive temperature dependence of oxidation rate; data are consistent with a homogeneous mechanism