Table 1   SURVEY OF REGIONAL AIR QUALITIY MODELS SUITABLE FOR INTERMEDIATE RANGE APPLICATION

No Vertical Resolution	Moderate Vertical Resolution	Sufficient Vertical Resolution
Uniform distribution	Ground level estimates distinct from mixed layer; or Gaussian distribution in vertical (reflections or no reflections); or Gaussian distributions modified by dry dposition; or Other analytic expression for vertical distribution	Vertical diffusion equation integrated; or Variable K_z profiles; or Multiple-layer models
AES/LRT[2,4,7] (Voldner et al., 1980) CAPITA/MCARLO[3,12] (Patterson et al., 1980) CCIW/LDAPTM[2,8] (McMahon, 1976) DMI/LRPDM[1,10] (Prahm and Christensen, 1977) ERT/ATM[1,4,7] (Rao et al., 1976) IAP/LRT[1,4,7] (Szepesi, 1978) NIAR/RTM[1,4,7] (Eliassen and Saltbones, 1975) OME/LRT[2,5,6] (Venketram et al., 1980) SCAR/LRTM[1,4] (Nordlund, 1975)	ARL/ATAD[3,4,6] (Heffter, 1980) CERL/LTSDM[2,6,8] (Fisher, 1978) ERT/MESOPLUME[1,4,6] (Benkley and Bass, 1979a) ERT/MESOPUFF[1,4,6] (Benkley and Bass, 1979b) MEP/LRT[2,5,6] (Weisman, 1980) PNL/LRT[3,4,6] (Wendell et al., 1976) PNL/RPTM[2,4,6] (Powell et al., 1979) PNL/STRAM[1,4,6] (Hales et al., 1977) RI/MIDDIS[1,4,6] (Wang et al., 1980)	ANL/STRAP[2,5,6] (Sheih, 1977) ANL/ASTRAP[2,5,6] (Shannon, 1979) ARL/MTDF[1,4,6] (Draxler, 1979) BNL/AIRSOX[1,4,6] (Meyers et al., 1979) EPA/RAQSM[1,11,13] (Lamb, 1980) DM/RADM[1,4,6] (Runchal, 1980) DU-NCAR-BNL/LAMPS[1,11,14] (Kreitzberg and Leach, 1978) ERT/SURAD[1,11] (Lavery et al., 1978) ERT/SULFA3D[1,11] (Egan et al., 1976)

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