

Center and National Renewable Energy Laboratory. Can be ordered from NOAA National Data Center's Internet Web site @ <http://www.nndc.noaa.gov/>.

98. Hourly United States Weather Observations, 1990–1995 (CD-ROM). October 1997. Produced jointly by National Climatic Data Center and Environmental Protection Agency. Can be ordered from NOAA National Data Center's Internet Web site @ <http://lwf.ncdc.noaa.gov/oa/ncdc.html>.

99. Radiosonde Data of North America, 1946–1996; 4-volume CD-ROM. August 1996. Produced jointly by Forecast Systems laboratory and National Climatic Data Center. Can be ordered from NOAA National Data Center's Internet Web site @ <http://lwf.ncdc.noaa.gov/oa/ncdc.html>.

100. Environmental Protection Agency, 2000. Meteorological Monitoring Guidance for Regulatory Modeling Applications. EPA Publication No. EPA-454/R-99-005. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (PB 2001-103606) (<http://www.epa.gov/scram001/>)

101. ASTM D5527: Standard Practice for Measuring Surface Winds and Temperature by Acoustic Means. (1994)

102. ASTM D5741: Standard Practice for Characterizing Surface Wind Using Wind Vane and Rotating Anemometer. (1996)

103. Environmental Protection Agency, 1995. Quality Assurance for Air Pollution Measurement Systems, Volume IV—Meteorological Measurements. EPA Publication No. EPA600/R-94/038d. Office of Air Quality Planning & Standards, Research Triangle Park, NC. *Note:* for copies of this handbook, you may make inquiry to ORD Publications, 26 West Martin Luther King Dr., Cincinnati, OH 45268. Phone (513) 569-7562 or (800) 490-9198 (automated request line)

104. Bowen, B.M., J.M. Dewart and A.I. Chen, 1983. Stability Class Determination: A Comparison for One Site. Proceedings, Sixth Symposium on Turbulence and Diffusion. American Meteorological Society, Boston, MA; pp. 211–214. (Docket No. A-92-65, II-A-7)

105. Environmental Protection Agency, 1993. An Evaluation of a Solar Radiation/Delta-T (SRDT) Method for Estimating Pasquill-Gifford (P-G) Stability Categories. EPA Publication No. EPA-454/R-93-055. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (NTIS No. PB 94-113958)

106. Irwin, J.S., 1980. Dispersion Estimate Suggestion #8: Estimation of Pasquill Stability Categories. Office of Air Quality Planning & Standards, Research Triangle Park, NC (Docket No. A-80-46, II-B-10)

107. Mitchell, Jr., A.E. and K.O. Timbre, 1979. Atmospheric Stability Class from Horizontal Wind Fluctuation. Presented at 72nd Annual Meeting of Air Pollution Control Association, Cincinnati, OH; June 24–29, 1979. (Docket No. A-80-46, II-P-9)

108. Smedman—Hogstrom, A. and V. Hogstrom, 1978. A Practical Method for Determining Wind Frequency Distributions for the Lowest 200m from Routine Meteorological Data. *J. of Applied Meteorology*, 17(7): 942–954.

109. Smith, T.B. and S.M. Howard, 1972. Methodology for Treating Diffusivity. MRI 72

FR-1030. Meteorology Research, Inc., Altadena, CA. (Docket No. A-80-46, II-P-8)

110. Environmental Protection Agency, 1993. PCRAMMET User's Guide. EPA Publication No. EPA-454/R-96-001. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (NTIS No. PB 97-147912)

111. Environmental Protection Agency, 1996. Meteorological Processor for Regulatory Models (MPRM) User's Guide. EPA Publication No. EPA-454/B-96-002. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (NTIS No. PB 96-180518)

112. Paine, R.J., 1987. User's Guide to the CTDM Meteorological Preprocessor Program. EPA Publication No. EPA-600/8-88-004. Office of Research & Development, Research Triangle Park, NC. (NTIS No. PB 88-162102)

113. Scire, J.S., F.R. Francoise, M.E. Fernau and R.J. Yamartino, 1998. A User's Guide for the CALMET Meteorological Model (Version 5.0). Earth Tech, Inc., Concord, MA. (<http://www.src.com/calpuff/calpuff1.htm>)

114. Environmental Protection Agency, 1984. Calms Processor (CALMPRO) User's Guide. EPA Publication No. EPA-901/9-84-001. Office of Air Quality Planning & Standards, Region I, Boston, MA. (NTIS No. PB 84-229467)

115. Fox, D.G., 1984. Uncertainty in air quality modeling. *Bulletin of the American Meteorological Society*, 65(1): 27–36.

116. Burton, C.S., 1981. The Role of Atmospheric Models in Regulatory Decision-Making: Summary Report. Systems Applications, Inc., San Rafael, CA. Prepared under contract No. 68-01-5845 for U.S. Environmental Protection Agency, Research Triangle Park, NC. (Docket No. A-80-46, II-M-6)

117. Environmental Protection Agency, 1981. Proceedings of the Second Conference on Air Quality Modeling, Washington, DC. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (Docket No. A-80-46, II-M-16)

118. Hanna, S.R., 1989. Confidence limits for air quality model evaluations, as estimated by bootstrap and jackknife resampling methods. *Atmospheric Environment*, 23(6): 1385–1398.

119. Cox, W.M. and J.A. Tikvart, 1990. A statistical procedure for determining the best performing air quality simulation model. *Atmos. Environ.*, 24A(9): 2387–2395.

120. Oreskes, N.K., K. Shrader-Frechette and K. Beliz, 1994. Verification, validation and confirmation of numerical models in the earth sciences. *Science*, 263: 641–646.

121. Dekker, C.M., A. Groenendijk, C.J. Sliggers and G.K. Verboom, 1990. Quality Criteria for Models to Calculate Air Pollution. Lucht (Air) 90, Ministry of Housing, Physical Planning and Environment, Postbus 450, 2260 MB Leidschendam, The Netherlands; 52pp.

122. Weil, J.C., R.I. Sykes and A. Venkatram, 1992. Evaluating air-quality models: review and outlook. *Journal of Applied Meteorology*, 31: 1121–1145.

123. Cole, S.T. and P.J. Wicks, Editors (1995): Model Evaluation Group: Report of the Second Open Meeting. EUR 15990 EN, European Commission, Directorate-General

XII, Environmental Research Programme, L-2920 Luxembourg; 77pp.

124. Hanna, S.R., 1982. Natural Variability of Observed Hourly SO<sub>2</sub> and CO Concentrations in St. Louis. *Atmospheric Environment*, 16(6): 1435–1440.

125. Bowne, N.E., 1982. Validation and Performance Criteria for Air Quality Models. Appendix F in Air Quality Modeling and the Clean Air Act: Recommendations to EPA on Dispersion Modeling for Regulatory Applications. American Meteorological Society, Boston, MA; pp. 159–171. (Docket No. A-80-46, II-A-106)

126. Bowne, N.E. and R.J. Londergan, 1983. Overview, Results, and Conclusions for the EPRI Plume Model Validation and Development Project: Plains Site. EPRI EA-3074. Electric Power Research Institute, Palo Alto, CA.

127. Moore, G.E., T.E. Stoeckenius and D.A. Stewart, 1982. A Survey of Statistical Measures of Model Performance and Accuracy for Several Air Quality Models. EPA Publication No. EPA-450/4-83-001. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (NTIS No. PB 83-260810)

128. Rhoads, R.G., 1981. Accuracy of Air Quality Models. Staff Report. Office of Air Quality Planning & Standards, Research Triangle Park, NC. (Docket No. A-80-46, II-G-6)

129. Hanna, S.R., 1993. Uncertainties in air quality model predictions. *Boundary-Layer Meteorology*, 62: 3–20.

130. Pasquill, F., 1974. Atmospheric Diffusion, 2nd Edition. John Wiley and Sons, New York, NY; 479pp.

131. Morgan, M.G. and M. Henrion, 1990. Uncertainty, A Guide to Dealing With Uncertainty in Quantitative Risk and Policy Analysis. Cambridge University Press. New York, NY; 332pp.

132. Irwin, J.S., K. Steinberg, C. Hakkarinen and H. Feldman, 2001. Uncertainty in Air Quality Modeling for Risk Calculations. (CD-ROM) Proceedings of Guideline on Air Quality Models: A New Beginning. April 4–6, 2001, Newport, RI, Air & Waste Management Association. Pittsburgh, PA; 17pp.

133. Austin, B.S., T.E. Stoeckenius, M.C. Dudik and T.S. Stocking, 1988. User's Guide to the Expected Exceedances System. Systems Applications, Inc., San Rafael, CA. Prepared under Contract No. 68-02-4352 Option I for the U.S. Environmental Protection Agency, Research Triangle Park, NC. (Docket No. A-88-04, II-I-3)

134. Thrall, A.D., T.E. Stoeckenius and C.S. Burton, 1985. A Method for Calculating Dispersion Modeling Uncertainty Applied to the Regulation of an Emission Source. Systems Applications, Inc., San Rafael, CA. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC. (Docket No. A-80-46, IV-G-1)

135. "Ten years of Harmonisation activities: Past, present and future" at <http://www.dmu.dk/AtmosphericEnvironment/Harmoni/Conferences/Belgirate/BelgiratePapers.asp>

136. "A platform for model evaluation" at <http://www.dmu.dk/AtmosphericEnvironment/Harmoni/Conferences/Belgirate/BelgiratePapers.asp>