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This archive contains the AERCOARE program, User's Guide, Model Evaluation study, and test cases. AERCOARE is a meteorological processor for AERMOD applications overwater. AERCOARE was sponsored by EPA OAQPS under Contract EP-D-7-102, Work Assignment 4-14 & 5-17.

The contents of this directory and subdirectory are:

AERCOAREv1\_0\_Users\_Manual - AERCOARE User's Guide

AERCOARE-Model-Evaluation.pdf – Model evaluation study

dos-code folder: contains AERCOARE Fortran code, LAHEY/Fujitsu LF95 executable suitable for the Windows/DOS environment. Given LF95 is installed, the code can be compiled by entering "lahey95.bat" from the Command Prompt. The three test cases can be run by entering:

aercoare ventc1.in ventc1.dbg

aercoare co-test3f.in co-test3f.dbg

aercoare co-test3t.in co-test3t.dbg

where \*.in are the 3 input control files, \*.dbg are optional debug output files. The \*.csv files are the overwater meteorological files; \*.out files are the listing output files; \*.sfc are the output surface files ready for AERMOD; and the \*.pfl are the output profiles ready for AERMOD. The three test cases are for: Ventura Case 1 from the model evaluation study, COARE test 3f from the COARE website, and COARE test 3t from the COARE website. The later tests and data sets are described at:

[ftp://ftp1.esrl.noaa.gov/users/cfairall/wcrp\\_wgsf/computer\\_programs/cor3\\_0/](ftp://ftp1.esrl.noaa.gov/users/cfairall/wcrp_wgsf/computer_programs/cor3_0/)

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