HYSPLIT Model

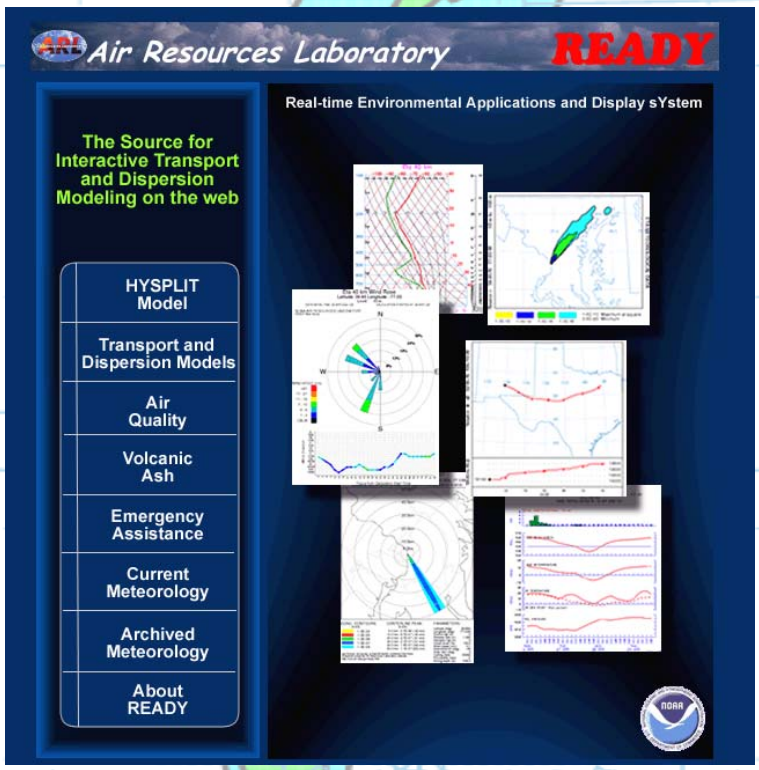
Users of **READY** can run the HYSPLIT transport & dispersion model online for any location in the world using archived and forecast meteorological data obtained from the NOAA National Centers for Environmental Prediction (NCEP). All users can run HYSPLIT with archived data, however registration is required to run HYSPLIT with forecast data.

Emergency Assistance

READY is a "non-operational" portal for federal, state, local government agencies, and international organizations (WMO, IAEA, etc.) to become familiar with the HYSPLIT model and it's results before an emergency occurs and to access special products tailored to their mission.

Transport and Dispersion Models

In addition to HYSPLIT, **READY** provides access to the Volcanic Ash Forecast Transport and Dispersion (VAFTAD) model developed by ARL, as well as a Gaussian dispersion model that can use National Weather Service Model Output Statistic (MOS) forecast information or user-entered weather information to drive the model.



Current and Forecast Meteorology

When analyzing dispersion model results it is important to understand the meteorology that was used by the model. **READY's** display programs were designed to provide the scientist with the tools necessary to probe the input data. Forecast datasets include the NCEP Eta, RUC, NGM, and GFS, the AFWA MM5, and the ARL RAMS.

Air Quality

ARL produces several air quality products to assist atmospheric scientists in predicting air quality and to analyze past air pollution episodes. These include forest fire smoke plume forecasts, back trajectories from select locations, ensemble volcanic fog (VOG) forecasts, and source region attribution computations.

Archived Meteorology

Most of the meteorological data available in **READY** are acquired from NCEP, where the meteorological models are run operationally. ARL archives some of the data so that scientists can look at the meteorological environment that produced the transport and dispersion results. Datasets include the FNL, EDAS, and NCEP/NCAR Reanalysis.

Volcanic Ash

ARL routinely produces volcanic ash forecasts from hypothetical eruptions and makes them available via **READY**. In addition, **READY** users can run the VAFTAD model for any volcano in the world.

About READY

READY was originally developed in 1997 to put state-of-the-art dispersion models and meteorological display programs developed at ARL into a form that would be easy to use by anyone, but it's primary focus was for atmospheric scientists. Today, thousands of users produce products from **READY** for their day-to-day operations and research projects.

05-2004

Quick Links

NOAA Air Resources Laboratory
http://www.arl.noaa.gov

READY
http://www.arl.noaa.gov/ready.html

HYSPLIT Documentation
http://www.arl.noaa.gov/ready/hysp_info.html

VAFTAD Documentation
http://www.arl.noaa.gov/research/projects/vaftad.html

Forecast Trajectories for U.S.
http://www.arl.noaa.gov/ready/traj_pick.html

Current Meteorology
http://www.arl.noaa.gov/ready/cmet.html

Archived Meteorology
http://www.arl.noaa.gov/ready/amet.html

RSMC for Transport & Dispersion Model Products
http://www.arl.noaa.gov/research/projects/rsmc.html

FOR MORE INFORMATION, CALL OR WRITE:

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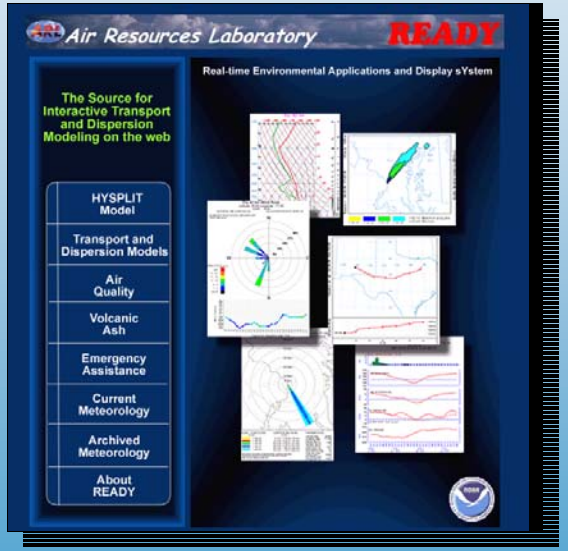
Silver Spring, MD 20910-6233

READY

Real-time Environmental Applications and Display sYstem



www.arl.noaa.gov/ready.html

National Oceanic and Atmospheric Administration
Office of Oceanic and Atmospheric Research
Air Resources Laboratory