National FCAMMS Smoke Dispersion Forecast Guidance

A Partnership Between the Desert Research Institute and the USFS AirFire Team

Website - http://cefa.dri.edu/FCAMMS

Objective

Provide national forecast guidance of meteorological parameters needed by decision-makers to support wildland fire and air quality managers. The smoke dispersion forecast guidance provides utility for wildfire management decisions, timing and planning of prescribed fires and assessing potential air quality impacts of wildland fires.

Products

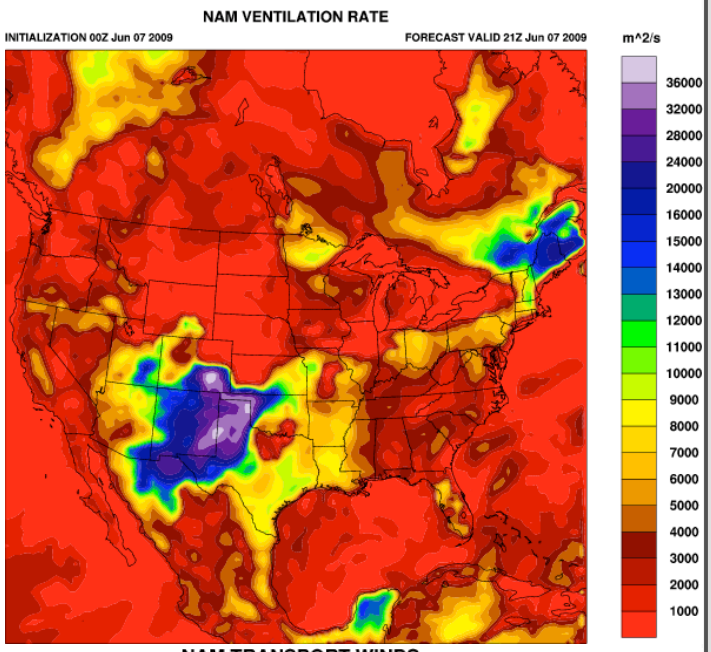
Standardized web-based products include:

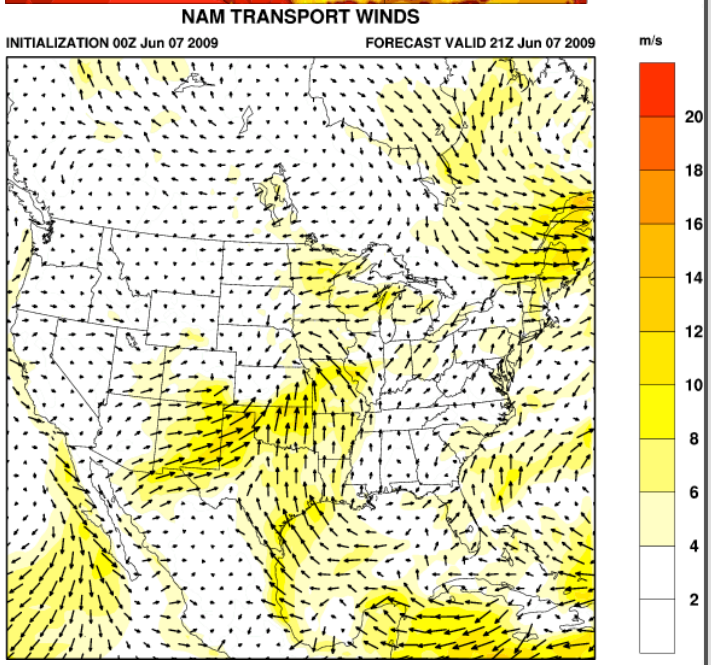
- Mixing height
- Ventilation rate
- Transport wind
- Haines Index (low, medium and high)

These are available at national and Geographic Area Coordination Center (GACC) scales. Raw data output is made available to the GACCs via FTP for local product development. Future products include $PM_{2.5}$ from the Bluesky framework and Google Earth maps.

Tools

The products on this site are based on the National Weather Service National Centers for Environmental Prediction North American Mesoscale (NAM) model and the Global Forecast System (GFS) model. The NAM is a 12-km grid with 3-hourly forecasts out to 72 hours. The GFS is a 40-km grid with 3-hourly forecasts out to 7 days (6-hourly forecasts are displayed for days 4-7). The products are based on twice daily (00 and 12 UTC) model runs. All map products are typically available by 0245 PDT and 1345 PDT daily.





Project personnel

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