

# RESEARCH PROPOSALS

*January 25, 2007*

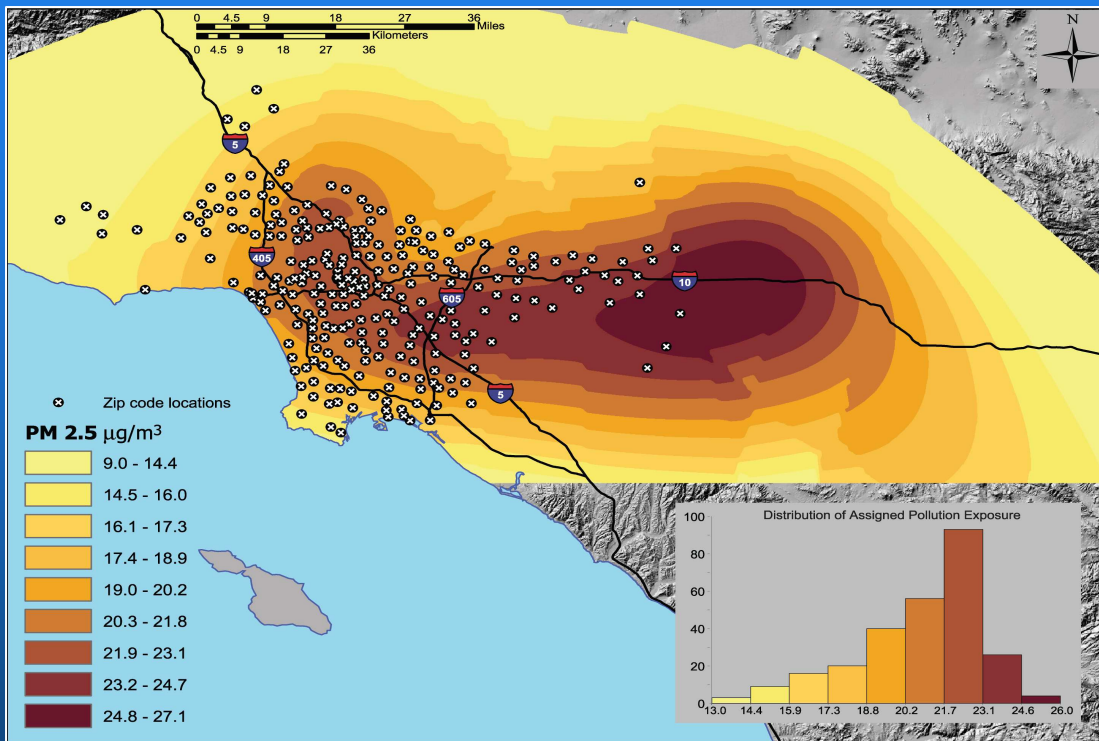
California Environmental Protection Agency



Air Resources Board

# Spatiotemporal Analysis of Air Pollution and Death

University of California,  
Berkeley  
Michael Jerrett, Ph.D.  
\$749,706 (36 months)  
*Cofunded by SCAQMD*



**Objective:** Derive detailed assessments of the health effects from air pollution on death using the American Cancer Society cohort.

**Expected Results:** California-specific estimates of death associated to PM2.5 exposure.

# Extended Analyses of Air Pollution and Cardiopulmonary Disease in the California Teachers Cohort



Department of Health Services  
Michael Lipsett, M.D  
\$284,652 (36 months)  
*Cofunded by SCAQMD*

**Objective:** Compare effect estimates of PM<sub>2.5</sub> and other gaseous pollutants to determine relation between critical time windows and cardiopulmonary outcomes.

**Expected Results:** Information on total and cause-specific death and hospitalizations for cardiovascular and pulmonary diseases to assist with the review of ambient air quality standards.

# Toxicity of Source-Oriented Ambient Aerosol

University of California, Davis  
Anthony Wexler and Kent Pinkerton  
\$838,934 (36 months)  
*Cofunded by EPRI*

**Objective:** Obtain toxicity profiles of atmospherically processed source-oriented fine and ultrafine particulate emissions.

**Expected Results:** Information to develop PM control strategies based on relative toxicity indices of differing particulate source types.

# Inventory of Greenhouse Gas Emissions from Stationary AC and Refrigeration Sources

**ARMINES**  
**Denis Clodic**  
**\$225,060 (18 months)**



**Objective:** Provide a bottom-up equipment and refrigerant inventory for stationary refrigeration and air conditioning systems in California.

**Expected Results:** California specific inventory to develop regulations reducing greenhouse gas emissions.

# Emissions of HFC-134a from Auto Dismantling and Recycling



Foundation for California  
Community Colleges  
Cynthia Stover  
\$159,578 (12 months)

**Objective:** Determine number of dismantled vehicles and quantify the amount of HFC-134a that remains in cars that are destined for dismantling.

**Expected Results:** Estimate of HFC-134a that is available for retrieval and determine potential assistance to U.S. EPA's recovery effort.

# **RECOMMENDATION**

**Approve Resolutions 07-1  
through 07-4 and 07-7**