

ALAN C. CHAN

Group Manager, Forecasting and Public Outreach Operations



Educational Background

M.S., Meteorology, Cornell University

B.A., Geography, *summa cum laude*, Boston University

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Professional Experience

Mr. Chan joined STI in 2002. His focus has been managing the operations of the Data Management Center (DMC) for the U.S. Environmental Protection Agency's (EPA) AIRNow program and leading the AIRNow-International (AIRNow-I) program. AIRNow is a real-time system that collects air quality data and forecasts and communicates air quality and related health information to the public.

Mr. Chan manages the AIRNow DMC, which is the core of AIRNow daily operations. He works closely with stakeholders from more than 130 state, provincial, and local air quality agencies across the United States, Canada, and Mexico to ensure that real-time data and forecasts arrive at the DMC reliably and on time; he also troubleshoots operational problems and provides on-demand support to the agencies. He created several private websites for the AIRNow community to evaluate new air quality map products. Through his knowledge and experience in air quality forecasting, he routinely contributes to air-quality-related news stories, published in *USA Today's* Weather Focus section and used on The Weather Channel, that help broaden the use of air quality information by the media. He also contributed to several new AIRNow Web 2.0 initiatives, including air quality data on Google Earth and air quality educational videos.

Mr. Chan has been involved in several AIRNow national emergency response efforts, including the 2006 Hurricane Katrina aftermath, 2007 and 2008 California wildfires, Hawaii's ongoing volcanic smog, and 2010 oil spill in the Gulf of Mexico.

For the past five years, under EPA's direction, Mr. Chan has been involved in training, transferring knowledge to, and coordinating with the Shanghai Environmental Protection Bureau on air quality forecasting, reporting, and notification to establish a foundation for the AIRNow-I program. This project enables an upgraded AIRNow system to run in the United States and be distributed to other international organizations. Shanghai, China, is the AIRNow-I pilot city, where AIRNow-I was launched and has been operational since the 2010 World Expo. Mr. Chan has also been helping EPA promote AIRNow-I, presenting at air quality management meetings in Mexico, Panama, Thailand, and Singapore.

In addition to his work with the AIRNow program, Mr. Chan manages several daily air quality forecasting projects for cities in California, the Midwest, and the southeastern United States. He was the project manager for the daily PM_{2.5} forecasting effort in New Orleans as part of EPA's response to Hurricane Katrina. He is a senior air quality forecaster, producing current-, next-, and five-day ozone and PM forecasts for regions across the United States; he has also performed many meteorological and air quality data analyses to understand the processes that influence ozone and PM formation and dispersion.

From 1999 to 2001, Mr. Chan was a Research Assistant at Cornell University where he researched and analyzed 500-mb height patterns associated with East Coast winter storms, a project funded by the National Science Foundation. His thesis was published in the American Meteorological Society's journal *Weather and Forecasting*. At the same time at Cornell University, Mr. Chan worked as a forecaster and a Teaching Assistant, helping students learn forecasting techniques. He was presented the Cornell Outstanding Teaching Assistant Award in spring 2000.

Mr. Chan has a strong computer background and is skilled in Fortran; Microsoft Access, Word, Excel, and PowerPoint; UNIX; GrADS; HTML; JavaScript; and Adobe Illustrator.