

## ALAN C. CHAN

Group Manager, Forecasting and Public Outreach Operations



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### 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 the operation of the Data Management Center (DMC) for the U.S. Environmental Protection Agency's (EPA) AIRNow program and the development of the AIRNow-International (AIRNow-I) system. 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 the AIRNow daily operations. He works closely with stakeholders from more than 130 state, provincial, and local air quality agencies across the United States (U.S.), Canada, and Mexico to ensure that real-time data and forecasts arrive at the DMC in a timely and reliable manner; 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.

Mr. Chan developed a website to compare the gridded air quality forecast products issued by the National Oceanic and Atmospheric Administration with actual air quality observations across the eastern U.S. He also contributed to several new AIRNow Web 2.0 initiatives, including air quality data on Google Earth and air quality educational videos. For the past four 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 project. This project enables an upgraded AIRNow system to run in the U.S. and be distributed to other international organizations. Shanghai, China, is the AIRNow-I pilot city, where AIRNow-I will be operational in time for the 2010 World Expo. Mr. Chan has also been helping EPA promote AIRNow-I, presenting at air quality management meetings in Mexico, Panama, and parts of Asia.

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 U.S. He was the project manager for the daily PM<sub>2.5</sub> 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 U.S.; 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 conducted research in and analysis of 500-mb height patterns associated with East Coast winter storms (ECWS), 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, Mr. Chan worked as a forecaster at Cornell University, preparing and recording forecasts for the Cornell Weather Phone. He was also a Teaching Assistant, helping students learn forecasting techniques, such as the interpretation of computer model guidance and analyses of upper level weather maps. 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.

See <http://www.sonomatech.com/staff.cfm>, for a list of publications.