

Daniel M. Alrick
Meteorologist I



Educational Background

B.A., Meteorology, Valparaiso University
M.S., Atmospheric Sciences, University of Washington

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Professional Experience

Mr. Alrick joined STI as a Meteorologist in September 2009. His primary responsibility is air quality forecasting ozone and particulate matter pollution for various cities across the United States. He is responsible for creating monthly and seasonal air quality summaries for STI forecast cities. Mr. Alrick has performed data analysis tasks including synoptic typing of pollution events in Louisiana, examination of profiler data in Cleveland, and verification of STI's Air Quality Model Output Statistics forecast tool. He is also involved in the daily operations of the U.S. Environmental Protection Agency's (EPA) AIRNow program.

Mr. Alrick's academic coursework focused on fluid dynamics, mathematics, cloud physics, and atmospheric chemistry. From 2006 to 2009, he worked as a research assistant at the University of Washington, using numerical modeling techniques as research tools. This research culminated in his master's thesis, in which he examined the ability of mesoscale models to reproduce an observed narrow cold-frontal rainband and investigated the roles played by dynamics and microphysics in forming such a rainband. Simultaneously, he served as a teaching assistant at the University of Washington, instructing undergraduate students in an introductory course in atmospheric science.

Mr. Alrick worked as a student intern at the National Weather Service office in Grand Rapids, Michigan, where he interpreted meteorological data and worked with forecasters in diagnosing daily forecasts and communicating weather information to the general public. During his undergraduate study at Valparaiso University, he served as a lab assistant and course grader for several meteorology courses. Mr. Alrick was also an avid storm chaser.

Memberships

American Meteorological Society