



Smoke Trail

Antonio F. Quesada

Smoke Trail:

Wind Velocity Profiles Measured by the Smoke-trail Method at Wallops Island, Virginia, 1959 to 1962 Robert W. Miller, Robert M. Henry, Mickey G. Rowe, 1965 **Analysis of Smoke Trail Photographs to Determine Stratospheric Winds and Shears** Antonio F. Quesada, 1976

Time lapse photographs of smoke trails deposited in the stratosphere have been measured and analyzed to provide data for the determination of winds and wind shears. Optimization techniques were required to define camera parameters with sufficiently high precision. In combination with a triangulation program that exploits the advantages of vector and matrix methods, the techniques lead to consistent three station results that are used to construct wind profiles with an altitude resolution of 10 m. *The Smoke-trail Method for Obtaining Detailed Measurements of the Vertical Wind Profile for Application to Missile-dynamic-response Problems*, 1961. Detailed measurements of the vertical profile of the wind are urgently needed for studies of the response of rising missiles but conventional wind measuring systems cannot provide the accuracy and detail required over the necessary range of altitudes. A method is presented for obtaining a detailed accurate profile over a large altitude range. The method utilizes photogrammetric measurement of successive positions of the trail of an ascending rocket. Construction of a rocketborne smoke generator is discussed and the photography, film reading and data reduction procedures are described. The accuracy of the method is examined and error equations are derived. Finally some examples of wind profiles measured by this method are shown and their implications for missile response are indicated.

Development of a Smoke-trail Vehicle for Application to Wind-shear Measurements Up to 80,000 Feet, 1963 **High Resolution Stratospheric Winds from Chemical Smoke Trail Experiments at White Sands Missile Range and Wallops Island** Antonio F. Quesada, 1982

This report describes some recent improvements in the hardware and software used to measure photographic images of chemical smoke trails. It also presents measurements of winds and windshears for five experiments conducted at White Sands Missile Range and Wallops Island from 1973 to 1978. In addition it discusses sources of error in the measurements and suggests means of reducing the errors to improve the vertical resolution of the wind and windshear profiles.

Wind Velocity Profiles Measured by the Smoke-trail Method at the Eastern Test Range, 1963 Robert W. Miller, 1968 **Smelter Smoke in North America** John

D. Wirth, 2000. Air pollution challenges nations sharing common borders to balance economic needs with protecting citizens and the environment across jurisdictions. By examining landmark cases on the two borders, John Wirth shows how environmental diplomacy, citizen action at the grassroots level and the role of science, industry and the law converged, bringing Canada, the United States and Mexico to the threshold of today's continental approaches to pollutant pathways. Wirth first examines the famous Trail smelter conflict of 1927-1941. This precedent setting case, which pitted U.S. farmers against the Canadian smelter, resulted in the doctrine that in cases of transborder damage the polluter must pay. Although the farmers were modestly compensated and the British Columbia based smelter cooperated to control pollution, Wirth reveals

the real significance of the decision U S industries shared with the Canadians a common interest to resolve the case in a manner that would allow them to continue to pollute freely across international borders with minimal regulation Wirth then turns to the Gray Triangle confrontations of the 1980s in which the new instruments of the Clean Air Act and cooperative policies developed by the Mexican and U S governments established an entirely new climate for citizen action resulting in the closing of an American smelter in Arizona and the imposition of stricter standards on two Mexican smelters in Sonora Although the Trail precedent favored industry the Gray Triangle resolution signaled that the needs of industry and the public interest were now in better balance Drawing on extensive interviews and previously untapped archives Smelter Smoke in North America provides new analysis of the development of a North American institutional response to continental air pollution It chronicles how industry developed a continental perspective in a shared regional space the mineralized West and how successful efforts of governments and citizens to protect the environment evolved *Cassier's Magazine* ,1899

Cassier's Engineering Monthly ,1899 **Smoke Plume Method of Measuring Upper Winds** Gerald C. Gill Albert W. Stohrer Timothy L. Sweeney,1968 **The Engineering Record, Building Record and the Sanitary Engineer** ,1899

Engineering Magazine ,1899 Industrial Management ,1899 **Oceanology** ,1971 **Industrial Management** John R. Dunlap,1899 **Engineering Record, Building Record and Sanitary Engineer** ,1899 *Zoology Reprints and Separata, Etc* ,1874 Coal Technology ,1948 *Transactions of the American Institute of Mining and Metallurgical Engineers* ,1948 The Meteorological Magazine George James Symons,Herbert Sowerby Wallis,Hugh Robert Mill,1951

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