How Do Aerosols Affect Earth's Climate and Our Health?

A publication of the Institute on Climate and Planets, NASA Goddard Institute for Space Studies, located on the campus of Columbia University, New York, NY
To Our Readers

The sixth issue of the ICP Newsletter has a different look, more in-depth science and education content and even a new name: Research Education. The idea of research education is to give students an appreciation of inquiry through research, whether they are creating new knowledge or discovering what is already known. Our aim is to provide a resource for involving students in research, teaching earth system science, learning about climate change, and retaining minority students in the science pipeline.

Research Education is a product of a Goddard Institute for Space Studies (GISS) education program, the Institute on Climate and Planets (ICP). Conducted in cooperation with Columbia University, City University of New York, and New York City schools, it draws students and educators into research team projects to work alongside GISS scientists. By grappling with real-world problems and revising their tactics when difficulties arise, students can learn science through inquiry.

Many ICP research teams employ global climate model simulations. This analysis is well suited for high school and college students, since climate variability can often be characterized using relatively simple mathematical techniques such as linear trends and correlation coefficients. Students are motivated by the study of climate variability and change and teachers find these topics useful in teaching basic statistical techniques and hypothesis testing. Furthermore, climate studies help students appreciate the importance of scientific objectivity, especially when working on problems of consequence to society.

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CLIMATE RESEARCH: How do Aerosols Affect Earth's Climate and Our Health?
Brian Cairns and Barbara Carlson

WEB HIGHLIGHT: Weather Station Data Online
Latika Keegan

PARTNERSHIPS: A View from My Benchtop
Fitzgerald Bramwell

SCHOOL PROGRAMS: The Science Research Program at Townsend Harris High School: A Multi-Year Approach
Brendan Curran

STUDENT AND FACULTY PROFILES

RESEARCH EDUCATION: We All Begin As Scientists
Carolyn Harris

EDUCATIONAL COURSEWARE: A Tool to Learn About Equilibrium and Planetary Energy Balance
Samuel Borenstein

OUTREACH: Sixth Annual ICP Research and Education Conference: A Report
Emily Michaud and Eleni Palmos

CALENDAR OF EVENTS: Winter 1999 & Spring 2000