



ARM EDUCATION AND OUTREACH

The Department of Energy's **Atmospheric Radiation Measurement (ARM) Climate Research Facility** supports education and outreach efforts for communities and schools located near its sites. The mission of the Education and Outreach Program is to promote basic science education and community awareness of climate change research by focusing on three goals: student enrichment, teacher support, and community outreach. Since its beginning in 1992, ARM Education and Outreach has hosted teacher workshops, developed lesson plans and newsletters for teachers, provided on-line resources for students, and developed interactive community kiosks about climate change research.

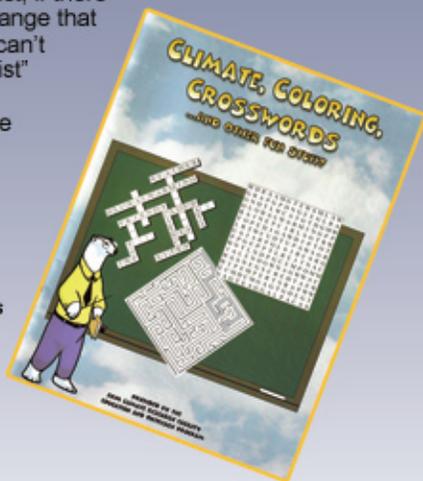
WHY IS ARM AT POINT REYES NATIONAL SEASHORE?

Just look up...outside, that is! ARM scientists are studying the clouds that form off the coast and move over Point Reyes. Clouds are important to climate change research because as our climate changes, clouds will change as well. We may see more or fewer clouds, and they may be higher or lower, or thicker or thinner. The changes in clouds may slow climate change, or speed it up. We might experience more severe storms or fewer. Because these changes are so profound and because cloudiness plays such a significant part of understanding climate change, ARM researchers have focused on studying clouds for more than 10 years.

EDUCATION.ARM.GOV: AN ON-LINE RESOURCE FOR TEACHERS AND STUDENTS

Teachers... Students are the scientists of the future, so get them thinking about climate change studies today! The ARM Education Center has a web page that includes lessons to help you teach the basics of climate science. Cloud formation, water cycle, melting sea ice, greenhouse effect – the *Teacher's Lounge* is designed to help educators teach all these concepts, plus more! The *Climate Education Update* newsletter, a great resource for teachers, is also available on-line.

Students... Who said study hall can't be fun? Check out our *Study Hall* page for quizzes, puzzles, and coloring pages. One of our newest features for students is the *Climate, Coloring, Crosswords... and Other Fun Stuff* activity book. If you get stumped by one of our tricky puzzles or mazes, just write to "Ask a Scientist" and we'll point you in the right direction. In fact, if there is a question about climate change that you, your parents, or teacher can't answer, use the "Ask a Scientist" resource and we'll put on our thinking caps and send you the correct answer!



ARM Activity Books make learning fun!



The Millimeter Wavelength Cloud Radar measures the top and bottom of clouds. Scientists use this information to determine a cloud's thickness.



Students check out the interactive climate kiosk permanently on display at the Inupiat Heritage Center in Barrow, Alaska, host to one of ARM's many research sites.

COMMUNITY KIOSKS: WHERE CLIMATE GETS PERSONAL

While scientists continue to investigate the possible impacts of climate change, people around the world are observing the changes where they live. ARM Education and Outreach creates interactive kiosks for communities that host permanent ARM research facilities. Kiosks include interviews with ARM scientists to provide users with basic information about climate change studies, as well as interviews with elders and community leaders discussing the impacts of climate change on their environment. Students, teachers, and researchers find the kiosks to be useful resources for science education, as well as social and cultural studies. Kiosk information is available to the public on CD-ROM or by sending an email message to arm.education@lanl.gov.



A Manus Island native is interviewed for the Tropical Western Pacific climate kiosk.



ARM Education joins Summer Camp 2005 at Point Reyes...Stay tuned!