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## GACP PROJECTS

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A complete list of [GACP team members](#) is available separately.

## Global Aerosol Climatology Project

[+ GACP MAIN PAGE](#)[+ ABOUT GACP](#)[+ PUBLICATIONS](#)[+ DATASETS](#)[- PROJECTS](#)[+ FIELD CAMPAIGNS](#)[+ MEETINGS](#)[+ RELATED SITES](#)**Annegarn, Harold****Project:** Participation in GACP activities**Organization:** Sconland Research Centre, University of the Witwatersrand**Artaxo, Paulo****Project:** Participation in GACP activities**Organization:****Bates, Timothy S., PI****Project:** The Application of Regional Aerosol Properties to AVHRR Aerosol Retrieval Algorithms (see [Abstract](#))**Organization:** NOAA/Pacific Marine Environmental Laboratory**URL:** <http://saga.pmel.noaa.gov/>

Quinn, Patricia K., Co-I

**Organization:** NOAA/Pacific Marine Environmental Laboratory**URL:** <http://saga.pmel.noaa.gov/>

Durkee, Philip A., Co-I

**Organization:** Department of Meteorology, Naval Postgraduate School1st Year Progress [Report PDF](#)2nd Year Progress [Report PDF](#)Final [Report PDF](#)**Bowdle, David A.****Project:** Characterization of Elevated Aerosol Layers as a Liaison to NASA's Aerosol Climatology Program from NASA's MACAWS, ACLAIM, SPARCLE, and ATMOS/CCOSM Programs**Organization:** University of Alabama in Huntsville, Global Hydrology and Climate Center, National Space Science and Technology Center1st Year Progress [Report PDF](#)2nd Year Progress [Report PDF](#)**Box, Michael****Project:** Participation in GACP activities (see [Abstract](#))**Organization:** School Of Physics, University of New South Wales

Box, Gail

**Organization:** School Of Physics, University of New South Wales**Brenguier, Jean-Louis****Project:** Parameterization of the Aerosol Indirect Climatic Effect**Organization:** Météo-France

Centre National de Recherches Météorologiques

2nd Year Progress [Report PDF](#)**Charlock, Thomas P., PI****Project:** A Longterm Testbed and Analysis of Radiative Forcing by Aerosols at Two Sites (see [Abstract](#))**Organization:** NASA Langley Research Center**URL:** [http://www-cave.larc.nasa.gov/gacp/CAGEX\(CERES/ARM/GEWEXExperiment\)SARBWorkingGroupinCERES](http://www-cave.larc.nasa.gov/gacp/CAGEX(CERES/ARM/GEWEXExperiment)SARBWorkingGroupinCERES)

Rose, Fred G., Co-I

**Organization:** SAIC/A S & M, NASA Langley Research Center**URL:** [Fu-Liou plots of on-line radiative transfer](#)

Rutan, David A., Co-I

**Organization:** SAIC/A S & M, NASA Langley Research Center**URL:** [CAVE \(CERES ARM Validation Experiment\)](#)[CERES SARB Surface Properties "point and click" global](#)[maps](#)[COVE \(CERES Ocean Validation Experiment\)](#)

Su, Wenying, Co-I

**Organization:** Center for Atmospheric Science, Hampton University1st Year Progress [Report](#)2nd Year Progress [Report PDF](#)Final [Report PDF](#)

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<b>Chin, Mian, PI</b>	<b>Project:</b> <i>Global Distribution of Tropospheric Aerosols: A 3-D Model Analysis of Satellite Data</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Georgia Institute of Technology and NASA Goddard Space Flight Center <b>URL:</b> <a href="http://hyperion.gsfc.nasa.gov">http://hyperion.gsfc.nasa.gov</a>
Herman, Jay, Co-I Hsu, Christina, Co-I	<b>Organization:</b> NASA Goddard Space Flight Center <b>Organization:</b> Hughes STX 1st Year Progress <a href="#">Report</a> 2nd Year Progress <a href="#">Report PDF</a>

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<b>Chou, Ming-Dah, PI</b>	<b>Project:</b> <i>Investigations of Radiative Forcing of Indonesian Biomass Burning using GMS Radiance Measurements</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Climate and Radiation Branch, Laboratory for Atmospheres, NASA / Goddard Space Flight Center
Kaufman, Yoram J., Co-I	<b>Organization:</b> Laboratory for Atmospheres, NASA/Goddard Space Flight Center <b>URL:</b> <a href="http://climate.gsfc.nasa.gov/~kaufman/">http://climate.gsfc.nasa.gov/~kaufman/</a> 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>

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<b>Christopher, Sundar A., PI</b>	<b>Project:</b> <i>The Direct Radiative Forcing of Biomass Burning Aerosols: Investigations During SCAR-B and ZIBBEE</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Department of Atmospheric Sciences University of Alabama in Huntsville
Holben, Brent N., Collaborator Eck, Thomas, Collaborator	1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>

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<b>Chuang, Catherine C., PI</b>	<b>Project:</b> <i>Global Modeling of Tropospheric Aerosols and Their Contribution to Climate Variation</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> University of California, Lawrence Livermore National Laboratory, Atmospheric Science Division
Grant, Keith E., Co-I	<b>Organization:</b> University of California, Lawrence Livermore National Laboratory, Atmospheric Science Division 1st Year Progress <a href="#">Report</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>

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<b>Clarke, Antony D., PI</b>	<b>Project:</b> <i>A Preliminary Aerosol Climatology for the Pacific Boundary Layer and Free Troposphere</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Department of Oceanography, University of Hawaii
Kapustin, Vladimir, Co-PI Covert, David, Adjunct PI	<b>Organization:</b> Department of Oceanography, University of Hawaii <b>Organization:</b> Department of Atmospheric Sciences, University of Washington 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>

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<b>Coakley, James A., Jr.</b>	<b>Project:</b> <i>Limits to Cloud Susceptibility</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> College of Oceanic and Atmospheric Sciences, Oregon State University
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<b>Covert, David, PI</b>	<b>Project:</b> <i>Validation of the Lidar Retrieval of Aerosol Extinction</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Department of Atmospheric Sciences, University of Washington
Anderson, Theodore L., Co-PI	<b>Organization:</b> Department of Atmospheric Sciences, University of Washington 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>

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<b>Dalu, Giuseppe</b>	<b>Project:</b> <i>Participation in GACP activities</i> <b>Organization:</b> Università degli Studi, Dipartimento di Fisica, Cittadella Universitaria
<b>Del Genio, Anthony D., PI</b>	<b>Project:</b> <i>An Investigation of the Indirect Effect of Aerosols on Climate: Coupled Chemistry-Climate Modeling and Satellite Validation</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Institute for Space Studies <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/adelgenio.html">http://www.giss.nasa.gov/staff/adelgenio.html</a>
Koch, Dorothy, Co-I	<b>Organization:</b> Columbia University and Institute for Space Studies <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/dkoch.html">http://www.giss.nasa.gov/staff/dkoch.html</a>
Tselioudis, George, Co-I	<b>Organization:</b> Columbia University and Institute for Space Studies <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/gtselioudis.html">http://www.giss.nasa.gov/staff/gtselioudis.html</a>
Menon, Surabi	<b>Organization:</b> Columbia University and Institute for Space Studies <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/smenon.html">http://www.giss.nasa.gov/staff/smenon.html</a> 1st Year Progress Report ( <a href="#">Text PDF</a> ; <a href="#">Figure 1 GIF</a> ; <a href="#">Figure 2 GIF</a> ; <a href="#">Figure 3 GIF</a> ; <a href="#">Figure 4 GIF</a> ) 2nd Year Progress <a href="#">Report</a> ; Final <a href="#">Report PDF</a>
<b>Durkee, Philip A.</b>	<b>Project:</b> <i>Development and Validation of Multiple-Satellite Data Sets for Global Aerosol Radiative Forcing</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Department of Meteorology, Naval Postgraduate School 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a>
<b>Ferrare, Richard</b>	<b>Project:</b> <i>CART Raman Lidar Measurements of Atmospheric Aerosol and Water Vapor Profiles for EOS Validation and the DOE ARM Program</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> NASA Langley Research Center <b>URL:</b> <a href="http://dev.www.ec.arm.gov/~turner/EOS_validation/">http://dev.www.ec.arm.gov/~turner/EOS_validation/</a>
<b>Fuller, Kirk A., PI</b>	<b>Project:</b> <i>Modeled Aerosol Optical Properties from Measurement-Based Mixtures of Chemical Species-Assessing the Impacts of Particle Morphology and Absorption</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> University of Alabama in Huntsville, Earth System Science Center
Kreidenweis, Sonia M. , Co-PI	<b>Organization:</b> Department of Atmospheric Science, Colorado State University
Mackowski, Daniel W. , Co-PI	<b>Organization:</b> Department of Mechanical Engineering, Auburn University <b>URL:</b> <a href="http://www.eng.auburn.edu/department/me/faculty/mackows/profile.htm">http://www.eng.auburn.edu/department/me/faculty/mackows/profile.htm</a> 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>
<b>Ghan, Steven</b>	<b>Project:</b> <i>Aerosols, clouds, chemistry, and radiative forcing</i> <b>Organization:</b> Climate Dynamics Group Battelle, Pacific Northwest National Laboratory <b>URL:</b> <a href="http://www.pnl.gov/atmos_sciences/as_bio3.html#Ghan">http://www.pnl.gov/atmos_sciences/as_bio3.html#Ghan</a>
<b>Han, Qingyuan, PI</b>	<b>Project:</b> <i>Estimate the Indirect Aerosol Effect and Retrieval of Related Parameters from Satellite Measurement</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Department of Atmospheric Sciences, University of Alabama in Huntsville
Rossow, William B., Co-I	<b>Organization:</b> NASA Goddard Institute for Space Studies <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/wrossow.html">http://www.giss.nasa.gov/staff/wrossow.html</a> 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a>
<b>Hansen, James E.</b>	<b>Project:</b> <i>Participation in GACP activities</i> <b>Organization:</b> NASA Goddard Institute for Space Studies <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/jhansen.html">http://www.giss.nasa.gov/staff/jhansen.html</a>
<b>Harshvardhan, Co-PI</b>	<b>Project:</b> <i>Quantifying the Indirect Radiative Forcing of Sulfate Aerosols by a Hybrid Technique</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Department of Earth and Atmospheric Sciences, Purdue University

Schwartz, Stephen E. , Co-PI	<p><b>Organization:</b> Environmental Chemistry Division, Brookhaven National Laboratory</p> <p>1st Year Progress Report: (<a href="#">Text PDF</a>; <a href="#">Figure PDF</a>)</p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <p>Final <a href="#">Report PDF</a></p>
<b>Hegg, Dean</b>	<p><b>Project:</b> <i>Investigation of the Relationships Between Aerosol Physical and Chemical Properties Derived From In-Site Measurements and Their Impact on Aerosol Research Retrieval</i> (see <a href="#">Abstract</a>)</p> <p>1st Year Progress <a href="#">Report PDF</a></p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <p>Final <a href="#">Report PDF</a></p>
<b>Herber, Andreas B.</b>	<p><b>Project:</b> <i>Participation in GACP activities</i></p> <p><b>Organization:</b> Alfred Wegener Institute of Polar and Marine, Research Bremerhaven, Research Unit Potsdam</p>
<b>Hobbs, Peter V.</b>	<p><b>Project:</b> <i>Utilization of the University of Washington's Airborne Measurements for Studies of the Radiative Effects of Aerosols on the Earth's Climate</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Department of Atmospheric Sciences, University of Washington</p> <p><b>URL:</b> <a href="http://cargsun2.atmos.washington.edu">http://cargsun2.atmos.washington.edu</a></p> <p>1st Year Progress <a href="#">Report</a></p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <p>Final <a href="#">Report PDF</a></p>
<b>Holben, Brent N.</b> Smirnov, Alexander	<p><b>Project:</b> <i>Participation in GACP activities</i></p> <p><b>Organization:</b> NASA/Goddard Space Flight Center</p> <p><b>Organization:</b> SSAI, NASA/Goddard Space Flight Center</p> <p><b>URL:</b> <a href="http://aeronet.gsfc.nasa.gov/">http://aeronet.gsfc.nasa.gov/</a></p>
<b>Kahn, Ralph</b>	<p><b>Project:</b> <i>Contributing MISR Global Multiangle Aerosol Results to the Aerosol Radiative Forcing Initiative</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Jet Propulsion Laboratory</p> <p><a href="#">1st Year Progress Report</a></p>
<b>Kaufman, Yoram J.</b>	<p><b>Project:</b> <i>Participation in GACP activities</i></p> <p><b>Organization:</b> Laboratory for Atmospheres, NASA/Goddard Space Flight Center</p> <p><b>URL:</b> <a href="http://climate.gsfc.nasa.gov/~kaufman/">http://climate.gsfc.nasa.gov/~kaufman/</a></p>
<b>Kukla, George, PI</b> Liepert, Beate G. , Co-I	<p><b>Project:</b> <i>Surface Solar Radiation Data Base</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Lamont-Doherty Earth Observatory/Columbia University</p> <p><b>Organization:</b> Lamont-Doherty Earth Observatory/Columbia University</p> <p>1st Year Progress <a href="#">Report PDF</a></p> <p>2nd Year Progress <a href="#">Report</a></p> <p>Final <a href="#">Report PDF</a></p>
<b>Li, Zhanqing , PI</b> Wong, Jeff, Co-I	<p><b>Project:</b> <i>Determination of the Direct Radiative Forcing by Smoke Aerosols over Boreal Forests and by All Aerosols over Global Oceans</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Canada Centre for Remote Sensing, Natural Resources Canada</p> <p><b>URL:</b> <a href="http://www.ccrs.nrcan.gc.ca/">http://www.ccrs.nrcan.gc.ca/</a></p> <p><b>Organization:</b> Canada Centre for Remote Sensing, Natural Resources Canada</p> <p><b>URL:</b> <a href="http://www.ccrs.nrcan.gc.ca/">http://www.ccrs.nrcan.gc.ca/</a></p>
<b>Liou, Kuo-Nan</b>	<p><b>Project:</b> <i>Radiative Transfer and Remote Sensing in Aerosol Atmosphere</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Department of Atmospheric Sciences, University of California / Los Angeles</p> <p>1st Year Progress <a href="#">Report</a></p> <p>2nd Year Progress <a href="#">Report</a></p>
<b>Loeb, Norman G., PI</b>	<p><b>Project:</b> <i>Top-of-Atmosphere Clear-Sky Broadband Radiative Flux and Direct Aerosol Radiative Forcing from Satellite Measurements</i> (see</p>

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Hu, Yongxiang, Co-I	<b>Organization:</b> NASA Langley Research Center
Lin, Bing, Co-I	<b>Organization:</b> Center for Atmospheric Sciences, Department of Physics, Hampton University
	<b>Organization:</b> Center for Atmospheric Sciences, Department of Physics, Hampton University
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<b>Lohmann, Ulrike, PI</b>	<b>Project:</b> <i>Estimating the Indirect Aerosol Effect Considering Different Aerosol Species</i> (see <a href="#">Abstract</a> )
	<b>Organization:</b> Atmospheric Science Program, Department of Physics, Dalhousie University
	<b>URL:</b> <a href="http://www.atm.dal.ca/~lohmann">http://www.atm.dal.ca/~lohmann</a>
Feichter, Johann, Co-I	<b>Organization:</b> Max-Planck-Institut fuer Meteorologie
Wilson, Julian, Co-I	<b>Organization:</b> European Commission, Environment Institute
<b>McCormick, M. Patrick</b>	<b>Project:</b> <i>Participation in GACP activities</i>
<b>Mishchenko, Michael, Co-PI</b>	<b>Project:</b> <i>GACP Processing Center</i> (see <a href="#">Abstract</a> )
	<b>Organization:</b> NASA Goddard Institute for Space Studies
	<b>URL:</b> <a href="http://www.giss.nasa.gov/staff/mmishchenko.html">http://www.giss.nasa.gov/staff/mmishchenko.html</a>
Tegen, Ina, Co-PI	<b>Organization:</b> Max Planck Institute for Biogeochemistry
	<b>URL:</b> <a href="http://www.giss.nasa.gov/staff/itegen.html">http://www.giss.nasa.gov/staff/itegen.html</a>
Geogdzhayev, Igor, Co-I	<b>Organization:</b> Columbia University / NASA GISS
	<b>URL:</b> <a href="http://www.giss.nasa.gov/staff/igeogdjaev.html">http://www.giss.nasa.gov/staff/igeogdjaev.html</a>
Cakmur, Reha	<b>Organization:</b> Columbia University and Institute for Space Studies
	<b>URL:</b> <a href="http://www.giss.nasa.gov/staff/rcakmur.html">http://www.giss.nasa.gov/staff/rcakmur.html</a>
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<b>Nakajima, Teruyuki</b>	<b>Project:</b> <i>Participation in GACP activities</i>
	<b>Organization:</b> Center for Climate System Research, University of Tokyo
	<b>URL:</b> <a href="http://www.ccsr.u-tokyo.ac.jp/">http://www.ccsr.u-tokyo.ac.jp/</a>
<b>Novakov, Tihomir</b>	<b>Project:</b> <i>Distribution and Properties of Carbonaceous Aerosols: An Analysis of Existing Data</i> (see <a href="#">Abstract</a> )
	<b>Organization:</b> Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division, University of California
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<b>Ogren, John A., PI</b>	<b>Project:</b> <i>Evaluation of Uncertainties in Satellite Retrievals of Aerosol Forcing Using IN-SITU Measurements at the Surface</i> (see <a href="#">Abstract</a> )
	<b>Organization:</b> Climate Monitoring and Diagnostics Laboratory, National Oceanic and Atmospheric Administration
	<b>URL:</b> <a href="http://www.cmdl.noaa.gov/aero/">http://www.cmdl.noaa.gov/aero/</a>
Bergin, Michael H., Co-I	<b>Organization:</b> Climate Monitoring and Diagnostics Laboratory, National Oceanic and Atmospheric Administration
	<b>URL:</b> <a href="http://www.cmdl.noaa.gov/aerosol/">http://www.cmdl.noaa.gov/aerosol/</a>
Covert, David S., Co-I	<b>Organization:</b> Department of Atmospheric Sciences, University of Washington
Rood, Mark J., Co-I	<b>Organization:</b> Dept. of Civil & Environ. Eng., University of Illinois
	<b>URL:</b> <a href="http://www.uiuc.edu/unit/EnvEng/">http://www.uiuc.edu/unit/EnvEng/</a>
Sheridan, Patrick J., Co-I	<b>Organization:</b> NOAA Climate Monitoring and Diagnostics Laboratory
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<b>Penner, Joyce E., PI</b>	<b>Project:</b> <i>Defining a Climatology and the Effects of Absorbing Aerosols: Models and Measurements</i> (see <a href="#">Abstract</a> )
	<b>Organization:</b> Department of Atmospheric, Oceanic and Space Sciences, University of Michigan
	<b>URL:</b> <a href="http://aoss.engin.umich.edu/Penner/">http://aoss.engin.umich.edu/Penner/</a>
Herman, Jay, Co-PI	<b>Organization:</b> NASA Goddard Space Flight Center
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<b>Pilewskie, Peter</b>	<b>Project:</b> <i>Investigation of the Uncertainty and Variability of the Direct Spectral Radiative Forcing by Atmospheric Aerosols.</i> 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a>
<b>Pitari, Giovanni, PI</b>	<b>Project:</b> <i>A Time-Dependent Study of Aerosol-Ozone Interactions with a Low-Resolution Climate-Chemistry Coupled Model</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Dipartimento di Fisica, Universita' degli Studi L'Aquila, via Vetoio, Italy
Rizi, Vincenzo, Co-I	<b>Organization:</b> Dipartimento di Fisica, Universita' degli Studi L'Aquila, via Vetoio, Italy
Mancini, Eva, Co-I	<b>Organization:</b> Dipartimento di Fisica, Universita' degli Studi L'Aquila, via Vetoio, Italy 1st Year Progress <a href="#">Report</a> 2nd Year Progress <a href="#">Report</a> Final <a href="#">Report</a>
<b>Poole, Lamont R.</b>	<b>Project:</b> <i>SAM II, SAGE I, SAGE II, and Ground-Based Lidar Aerosol Data</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Atmospheric Sciences Division, NASA/Langley Research Center <b>URL:</b> <a href="http://www-rab.larc.nasa.gov/">http://www-rab.larc.nasa.gov/</a> <a href="http://www-rab.larc.nasa.gov/sage1/">http://www-rab.larc.nasa.gov/sage1/</a> <a href="http://www-rab.larc.nasa.gov/sage2/">http://www-rab.larc.nasa.gov/sage2/</a> <a href="http://www-rab.larc.nasa.gov/sage3/">http://www-rab.larc.nasa.gov/sage3/</a> 1st Year Progress <a href="#">Report PDF</a>
<b>Prather, Michael J.</b>	<b>Project:</b> <i>Participation in GACP activities</i>
<b>Prospero, Joseph M., PI</b>	<b>Project:</b> <i>Integration of Long-Term Oceanic Aerosol Records from University of Miami Network Stations with NASA Satellite Products</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Division of Marine and Atmospheric Chemistry, University of Miami
Savoie, D. L., Co-PI	<b>Organization:</b>
Maring, H., Co-PI	<b>Organization:</b> 1st Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>
<b>Randall, Cora E., PI</b>	<b>Project:</b> <i>Solar Mesosphere Explorer Measurements of El Chichón Aerosols</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> Laboratory for Atmospheric and Space Physics, University of Colorado at Boulder
Eparvier, Frank, Co-I	<b>Organization:</b> University of Colorado
Rusch, David, Co-I	<b>Organization:</b> University of Colorado 1st Year Progress Report: <a href="#">Text PDF</a> ; <a href="#">Figure</a> 2nd Year Progress <a href="#">Report</a> Final <a href="#">Report PDF</a>
<b>Rasch, Philip</b>	<b>Project:</b> <i>Participation in GACP activities</i> <b>Organization:</b> Climate Modeling Section, National Center for Atmospheric Research <b>URL:</b> <a href="http://www.cgd.ucar.edu/cms/pjr">http://www.cgd.ucar.edu/cms/pjr</a> 1st Year Progress <a href="#">Report</a>
<b>Reagan, John A., PI</b>	<b>Project:</b> <i>Combined Lidar and Passive Sensing Techniques for Characterization of Aerosol Radiative Effects</i> (see <a href="#">Abstract</a> ) <b>Organization:</b> University of Arizona
Thome, Kurtis J., Co-I	<b>Organization:</b> Remote Sensing Group, Optical Sciences Center, University of Arizona 1st Year Progress <a href="#">Report PDF</a> 2nd Year Progress <a href="#">Report PDF</a> Final <a href="#">Report PDF</a>

Remer, Lorraine A., Co-PI	<p><b>Project:</b> <i>Satellite Study of the Smoke Indirect Radiative Forcing</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Laboratory for Atmospheres, NASA/Goddard Space Flight Center</p> <p><b>URL:</b> <a href="http://climate.gsfc.nasa.gov/">http://climate.gsfc.nasa.gov/</a></p>
Kaufman, Yoram J., Co-PI	<p><b>Organization:</b> Laboratory for Atmospheres, NASA/Goddard Space Flight Center</p> <p><b>URL:</b> <a href="http://climate.gsfc.nasa.gov/">http://climate.gsfc.nasa.gov/</a></p>
Feingold, Graham, Co-I	<p><b>Organization:</b> NOAA Environmental Technology Laboratory</p> <p><b>URL:</b> <a href="http://www2.etl.noaa.gov/">http://www2.etl.noaa.gov/</a></p>
Vermote, Eric, Co-I	<p><b>Organization:</b> University of Maryland, NASA/Goddard Space Flight Center</p>
Saleous, Nazmi El, Co-I	<p><b>Organization:</b> University of Maryland, NASA/Goddard Space Flight Center</p> <p>1st Year Progress <a href="#">Report PDF</a>; <a href="#">Figure 1</a> ; <a href="#">Figure 2</a></p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <p>Final <a href="#">Report PDF</a></p> <hr/>
Russell, Philip B., PI	<p><b>Project:</b> <i>Improved Exploitation of Field Data Sets to Address Aerosol Radiative-Climatic Effects and Development of a Global Aerosol Climatology</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Atmospheric Chemistry and Dynamics Branch, NASA Ames Research Center</p> <p><b>URL:</b> <a href="http://geo.arc.nasa.gov/sgg/tarfox/index.html">http://geo.arc.nasa.gov/sgg/tarfox/index.html</a> <a href="http://geo.arc.nasa.gov/sgg/ACE-2/">http://geo.arc.nasa.gov/sgg/ACE-2/</a></p>
Livingston, John M., Co-I	<p><b>Organization:</b> SRI International</p>
Schmid, Beat, Co-I	<p><b>Organization:</b> Bay Area Environmental Research Institute, NASA Ames Research Center</p> <p><b>URL:</b> <a href="http://geo.arc.nasa.gov/sgg/ACE-2">http://geo.arc.nasa.gov/sgg/ACE-2</a></p> <p>1st Year Progress Report: Forms: <a href="#">A</a>, <a href="#">C</a>, <a href="#">D PDF</a>; Form B (<a href="#">text PDF</a>, <a href="#">Figure PDF</a>)</p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <p>Final <a href="#">Report PDF</a></p> <hr/>
Stackhouse, Paul W., PI	<p><b>Project:</b> <i>Characterizing Clear-Sky Direct Radiative Forcing of Aerosols from Surface Broadband Solar Observations: a Long-Term Globally Distributed Validation Data Set</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> NASA Langley Research Center</p>
Baum, Bryan A., Co-I	<p><b>Organization:</b> NASA Langley Research Center</p>
Cahoon, Donald R., Co-I	<p><b>Organization:</b> NASA Langley Research Center</p>
Olson, Jennifer R., Co-I	<p><b>Organization:</b> NASA Langley Research Center</p>
Pierce, R. Bradley, Co-I	<p><b>Organization:</b> NASA Langley Research Center</p>
Dipasquale, Roberta, Co-I	<p><b>Organization:</b> Analytical Services &amp; Materials</p>
Whitlock, Charles H., Co-I	<p><b>Organization:</b> Analytical Services &amp; Materials</p>
Haeffelin, Martial P. A., Co-I	<p><b>Organization:</b> Virginia Polytechnic Institute and State University, NASA Langley Research Center</p> <p>1st Year Progress Report: (<a href="#">Text PDF</a>; <a href="#">Figure 1 PDF</a>; <a href="#">Figure 2 PDF</a>; <a href="#">Figure 3 PDF</a>; <a href="#">Figure 4 PDF</a>)</p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <hr/>
Stowe, Larry L., PI	<p><b>Project:</b> <i>Remote Sensing of Aerosol over Land with AVHRR</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> NOAA/NESDIS</p> <p>1st Year Progress <a href="#">Report</a></p> <p>2nd Year Progress <a href="#">Report PDF</a></p> <p>3rd Year Progress <a href="#">Report PDF</a></p> <hr/>
Stuhlmann, Rolf, PI	<p><b>Project:</b> <i>Arctic Haze Measurements and Exploitation of Geostationary Satellite Data</i> (see <a href="#">Abstract</a>)</p> <p><b>Organization:</b> Institute of Atmospheric Physics, GKSS Research Center, Federal Republic of Germany</p>
Macke, Andreas, Co-I	<p><b>Organization:</b> Institute for Oceanography, at the University of Kiel , Federal Republic of Germany</p>
Mueller, Johannes, Co-I	<p><b>Organization:</b> Institute of Atmospheric Physics, GKSS Research Center, Federal Republic of Germany</p>
Albers, Frank, Co-I	<p><b>Organization:</b> Institute of Atmospheric Physics, GKSS Research Center, Federal Republic of Germany</p> <hr/>
Tegen, Ina	<p><b>Project:</b> <i>Participation in GACP activities</i> (see <a href="#">Abstract</a>)</p>

	<p><b>Organization:</b> Max Planck Institute for Biogeochemistry, Germany  <b>URL:</b> <a href="http://www.giss.nasa.gov/staff/itegen.html">http://www.giss.nasa.gov/staff/itegen.html</a></p>
<b>Thome, Kurtis J.</b>	<p><b>Project:</b> <i>Participation in GACP activities</i> (see <a href="#">Abstract</a>)  <b>Organization:</b> Remote Sensing Group, Optical Sciences Center, University of Arizona  Final <a href="#">Report PDF</a></p>
<b>Toon, Owen Brian, PI</b>	<p><b>Project:</b> <i>Theoretical Studies of Microphysical Processes in Marine Boundary-Layer Clouds</i>  <b>Organization:</b> Laboratory for Atmospheric and Space Physics, Program in Atmospheric and Oceanic Science, University of Colorado</p>
Ackerman, Andy, Co-PI	<p><b>Organization:</b> NASA Ames Research Center  <b>URL:</b> <a href="http://sky.arc.nasa.gov/~ack">http://sky.arc.nasa.gov/~ack</a>  1st Year Progress <a href="#">Report</a>  2nd Year Progress <a href="#">Report</a></p>
<b>Torres, Omar, PI</b>	<p><b>Project:</b> <i>Cloudless Scene Identification for Aerosol Retrieval from TOMS Measurements</i> (see <a href="#">Abstract</a>)  <b>Organization:</b> Joint Center for Earth Systems Technology (JCET), University of Maryland Baltimore County, NASA/Goddard Space Flight Center</p>
Wellemeier, Charlie, Co-I Herman, Jay, Co-I	<p><b>Organization:</b> Raytheon STX Corporation  <b>Organization:</b> NASA Goddard Space Flight Center  1st Year Progress <a href="#">Report PDF</a>  Final <a href="#">Report PDF</a></p>
<b>Tsay, Si-Chee, PI</b>	<p><b>Project:</b> <i>Determination of Regional Aerosol Radiative Forcing from Remote Sensing Data and Model Simulations</i> (see <a href="#">Abstract</a>)  <b>Organization:</b> NASA Goddard Space Flight Center, Laboratory for Atmospheres  <b>URL:</b> <a href="http://climate.gsfc.nasa.gov/">http://climate.gsfc.nasa.gov/</a></p>
Ji, Qiang, Co-I	<p><b>Organization:</b> Science Systems and Applications Inc., NASA Goddard Space Flight Center  1st Year Progress <a href="#">Report PDF</a>  2nd Year Progress <a href="#">Report PDF</a>  Final <a href="#">Report PDF</a></p>
<b>Uthe, Edward E.</b>	<p><b>Project:</b> <i>Airborne Sensors Data Fusion--Aerosol/Cloud Properties</i> (see <a href="#">Abstract</a>)  <b>Organization:</b> SRI International  <b>URL:</b> <a href="http://www.rsed.sri.com/lidar">http://www.rsed.sri.com/lidar</a>  1st Year Progress <a href="#">Report</a></p>
<b>Westphal, Douglas</b>	<p><b>Project:</b> <i>Participation in GACP activities</i> (see <a href="#">Abstract</a>)  <b>Organization:</b> Naval Research Laboratory  <b>URL:</b> <a href="http://www.nrlmry.navy.mil/aerosol/">http://www.nrlmry.navy.mil/aerosol/</a></p>
<b>Winker, David M., PI</b>	<p><b>Project:</b> <i>Characterization of Aerosol Radiative Impacts Using Data from LITE</i> (see <a href="#">Abstract</a>)  <b>Organization:</b> Atmospheric Sciences Division, NASA/Langley Research Center  <b>URL:</b> <a href="http://www-arb.larc.nasa.gov/LITE/scienceteam/winker.html">http://www-arb.larc.nasa.gov/LITE/scienceteam/winker.html</a></p>
Menzies, Robert T., Co-PI	<p><b>Organization:</b> Jet Propulsion Laboratory  1st Year <a href="#">Progress Report PDF</a></p>

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+ Page updated: 2006-01-25