



Appendix 4: 1998 Seminars

Laboratory for Atmospheres Seminar Series

Thomas Donahue, University of Michigan, "Light Nuclei and Evolution of the Solar System and the Universe, " January 20.

Gerald Pomraning, University of California at Los Angeles, "Atmospheric Radiative Transfer as a Problem in Stochastic Transport Theory, " January 27.

George Huffman, NASA GSFC, "Next-Generation Estimates of Global Precipitation for TRMM, GPCP, and Pathfinder, " February 10.

Marcia Baker, University of Washington, "New Studies on Thunderstorm Electrification, " February 24.

Hugh Willoughby, NOAA/AOML/Hurricane Research Division, "Mechanisms of Tropical Cyclone Intensity Change, " March 10.

Philip Rasch, National Center for Atmospheric Research, "Modelling Cloud Water in the NCAR GCM, " March 24.

Susan Solomon, NOAA/Aeronomy Laboratory, "Mid-Latitude Ozone Depletion: Past and Future, " April 14.

William Brune, Pennsylvania State University, "Airborne OH and HO₂ Measurements: Evidence for Aircraft Influence on Atmospheric Oxidation?, " April 28.

T. N. Krishnamurti, Florida State University, "Ensemble Forecasts Using EOF Based Perturbations and Highlighting Tropical Rainfall and Floods, " May 12.

Dick Dee, NASA GSFC, "Modeling and Estimation of Observation Errors for the GEOS Data Assimilation System, " May 19.

Pawan K. Bhartia, NASA GSFC, "Ultraviolet Remote Sensing of Earth 's Atmosphere: Past, Present and Future, " October 13.

Noboru Nakamura, University of Chicago, "The Transport-Chemistry Puzzle in the Stratosphere: A Lagrangian Perspective, " October 27.

Alex Dessler, University of Arizona, "Small Comets: The Science of Something that Isn 't So, " November 10.

Paul Menzel, NOAA/NESDIS-University of Wisconsin, "Advances in Geosynchronous Observations of the Atmosphere, " December 8.

Jeffrey Halverson, NASA GSFC, "First TRMM Satellite Observations of Deep Convection and Eye Formation in Supertyphoon Paka (1997), " December 15.

Souder Research Team

Venkat Lakshmi, "Surface Temperature Assimilation in a Hydrological Model," Spring Meeting, American Geophysical Union, Boston, MA, May 26-29.

Venkat Lakshmi, "Climatology of the Great Plains Using TOVS Data" GCIP Mississippi River Climate Conference, St. Louis, MO, June 8-12.

Venkat Lakshmi, "Evaluation of Surface Temperature for Updating of Surface Fluxes Using a Macroscale Hydrological Model," GCIP Mississippi River Climate Conference, St. Louis, MO, June 8-12.

Venkat Lakshmi, "A Look at the 1993 Midwestern Floods Using Remote Sensing and Ground Observations," GCIP Mississippi River Climate Conference, St. Louis, MO, June 8-12.

Venkat Lakshmi,, "Assimilation in Land Surface Hydrology," presented at the European Optical Society meeting, Barcelona Spain, September.

Venkat Lakshmi, "Regional Hydrological Effects of El-Niño and La-Niña," presented at the American Geophysical Union Meeting in San Francisco, CA, December .

Venkat Lakshmi, "Assimilation of Surface Temperature in Land Surface Hydrology," presented at the American Geophysical Union Meeting in San Francisco, CA, December .

Tropical Rainfall Measuring Mission Office

Eyal Amitai, UMBC/JCET, "Probability Matching Methods Applied to Spaceborne, Ground-based and Underwater Rainfall Measurements, " June 22.

Thomas Rickenbach, National Research Council Research Associate, "Evolution of Tropical Evolution of Tropical Oceanic Mesoscale Convective Systems from Infrared Satellite and Radar Data, " June 23.

Scott Steiger, State University of New York at Oswego, "Experiences and Learning with the TRMM Ground Validation Team, " August 14.

Jian-Jian Wang, University of Illinois at Urbana-Champaign, "The Effects of the Island of Hawaii on Offshore Rainband Evolution, " December 10.

Data Assimilation Office

Ron Errico, NCAR, "Consideration of Probability Functions in the Assimilation of Precipitation Data and Accounting Statistically for Sub-Grid Processes in Precipitation Parametrization, " January 12-14.

Robert Miller, Oregon State U., "Data assimilation in Stochastic Nonlinear Models, " January 13.

- John Derber, NCEP, "Recent Progress and Plans for the NCEP Global Analysis System, " January 23.
- Yongkang Xue, University of Maryland, "Validation, Coupling and Prediction Studies Using a Biosphere Model, " February 6.
- Ross Hoffman AER, "Alignment Representation of Forecast Errors, " February 13.
- John Levesque, Applied Parallel Research, "Code Optimization Techniques of our MPI Codes, " February 13.
- Ron Avissar, Rutgers University, "A Proposal for a Higher-Order SVAT Scheme for Atmospheric Models, " March 13.
- Ralf Gruber, CAPA/EPFL, Lausanne, Switzerland, "Commodity Supercomputing Project in Switzerland, " March 24.
- Eugenia Kalnay, NCEP/Oklahoma U., "Recent Progress on FAST 4DVAR, " May 22.
- Marc Kolodner, TRW, "Microwave Remote Sensing of Sulfuric Acid Vapor in the Venus Atmosphere, " June 5.
- John Michalakes, Argonne National Laboratory, "The same-source atmospheric mesoscale model MM5, " June 11.
- Rogers Saunders, ECMWF, "Impact of Satellite Data in the ECMWF 4DVAR Analysis, " June 11.
- Mike Fiorino, ECMWF, "ERA-40 Plans and Progress and the 1986 Problem--Impact of Observing System Changes on ERA-15, " June 22.
- Brian Cosgrove, Penn State U., "A Simplified Dynamic Vegetation Model Coupled to the GENISIS GCM, " June 26.
- Doug Rotman, Lawrence Livermore National Laboratory, "Using Massively Parallel Computers to do Atmospheric Chemistry, " August 11.
- Alfonso Sutera, University of Rome, "Regime Dependent Instability as a Transition Mechanism in the Large-Scale Flow, " August 17.
- Alfonso Sutera, University of Rome, "On Baroclinic Adjustment of a Radiative Convective Atmosphere, " August 18.
- John Bray, UKMO, "Practical Experiences of the Influence of Fortran 90 Features on a Development Environment, " August 20.
- Chris Walcek SUNY at Albany, "Cloud Microphysics and Convective Mixing Parameterizations in Chemistry and Meteorology Models, " September 24.
- Janusz Eluszkiewicz, AER, "Age of Air Experiment with the GFDL SKYHI GCM, " September 28.

Mesoscale Atmospheric Processes Branch

- David Rees, Utah State University, "The Alomar "Fringe Imaging " Doppler Wind Lidar: Technology and Performance, " January 16.
- David Duda, USRA, "Microphysical Retrievals from Multi-Layered Cirrus, " January 22.
- David Parish, National Center for Environmental Prediction, "The NCEP Regional 3DVAR Analysis System, " January 30.
- Sandra Yuter, University of Washington, "Convection and Stratus in the Tropical Eastern Pacific: The Pan American Climate Studies 1997 Tropical Eastern Pacific Process Study, " January 26.

Gyula I. Molnar, University of Maryland Baltimore County, "Novel use of GOES Data for Climate and Weather Studies, " March 18.

Qingnong Xiao, Florida State University, "Improvements in Hurricane Forecasts Using a Variational Initialization Scheme, " August 28.

Dimitris Tsinikidis, Hydrologic Research Center, "Mean Areal Precipitation Estimation for the Blue Nile Region using Meteosat VIS and IR Images, " September 10.

Jeffrey Halverson, SSAI, "First TRMM Satellite Observations of Deep Convection and Eye Formation in Supertyphoon Paka (1997), " December 15.

Climate and Radiation Branch

Christian Kumerow, TRMM Deputy Scientist, "The Role of TRMM in the Global Precipitation Measuring System, " January 7.

Jeff Kiehl, UCAR, "Climate Forcing of Sulfate Aerosols, " January 8.

Thomas Bell, Climate and Radiation Branch/GSFC, "Sampling Error in Satellite Estimates of Monthly Averaged Rainfall, " January 21.

Grant Petty, Purdue University, "The Random Blob ' Model: A New Way of Looking at Solar Radiative Transfer in Inhomogeneous Clouds? " January 30.

Pingping Xie, National Oceanic and Atmospheric Administration, " Global Precipitation: An 18-Year Pentad Analysis Based on Gauge Observations, Satellite Estimates and Model Outputs, " February 4.

Zhengyu Liu, University of Wisconsin, " Coupled Modeling of Long Term Climate Change with the Equilibrium Asynchronous Coupling Scheme, " February 18.

Duane Waliser, SUNY Stony Brook, "The Madden-Julian Oscillation: Influences on Climate, Interactions with the Ocean, Modeling, and Predicting, " March 4.

Francisco Valero, University of California, San Diego, " Measured and Calculated Solar Irradiances during SUCCESS; Clear Sky Excess Absorption: A Sensitivity Study, " March 5.

Jeffrey Reid, University of Washington, Seattle, " Evolution of Biomass Burning Particles: Implications for Direct and Indirect Forcing, " March 6.

Graham Feingold, Colorado State University and NOAA Environment Technology Laboratory, "Cloud Processing of Particles in Stratocumulus: Implications for Aerosol Direct and Indirect Effects, " March 9.

Dennis Hartmann, University of Washington, Seattle, "A Simple Model of Tropical Climate, " March 18.

Ana Barros, Penn State University, "Assessing Predictability in Climate Modeling - Quantitative Experiments, " April 1.

Gerald Meehl, National Center for Atmospheric Research, "Pacific Decadal Variability and Global Climate, " April 13.

Wei-Chyung Wang, State University of New York, Albany, "A Regional Modeling Approach for Studying Climate and Environment Over East Asia, " April 15.

Roelof Brientjes, National Center for Atmospheric Research, " Effects of Anthropogenic Sources of Aerosols on Cloud Microstructure and Precipitation Formation in Clouds, "

April 16.

Thomas Ackerman, Penn State University, "The ARM Tropical Western Pacific Site: The View from Manus Island, " May 13.

Didier Tanre, Universite des Sciences et Technologies de Lille, "Remote Sensing of Aerosols Properties Over Oceans Using the MODIS/EOS Spectral Radiances, " May 28.

Xu Liang, Climate and Radiation Branch/GSFC, "A Hydrologically Based Three-Layer Variable Infiltration Capacity (VIC-3L) Land Surface Scheme for Climate Studies, " June 10.

Prabhakara Cuddapah, Climate and Radiation Branch/GSFC, "Global Warming Estimation from MSU, " June 24.

Stuart Godfrey, CSIRO Division of Marine Research, "Tidal Mixing and the Eastern Boundary Characteristics of the Southeast Indian Ocean, " July 27.

Michio Yanai, University of California, Los Angeles, "The Madden-Julian Oscillation Observed During the TOGA-COARE IOP, " August 3.

Ben Kirtman, COLA, "Decadal Variability in ENSO Predictability, " September 9.

Arnout Feijt, Dutch Meteorological Society, "Validation of Cloud Parameter Retrieval Methods with Objective Measurements, " September 15.

Xinzhong Liang, S.U.N.Y. Albany, "East Asian Monsoon Seasonal-Interannual Variability and the Mechanisms, " September, 30.

Christian Jakob, ECMWF, "Recent Development in Cloud-radiation Parameterization at ECMWF, " October 5.

Anandu Vernekar, University of Maryland, "Simulation and Predictability of Southwest Monsoon Variability with a Regional Model Nested in a GCM, " October 7.

Rong Fu, University of Arizona, "What Processes Initiate the Onset of Large-scale Convection and the Wet Season Circulation Pattern in Tropical South America?, " October 21.

Victor S. L'vov, Weizmann Institute of Science, "Intermittency and Multi-scaling in Navier-Stokes Based Theory of Turbulence, " October 22.

Ina Tegen, Columbia University/GISS, "Climate Effect of Solid Dust Aerosols, " November 3.

Venkat Lakshmi, Souder Research Team/GSFC, " Use of Satellite Data in Land Surface Hydrologic Modeling, " November 18.

Alexander Ignatov, NOAA/NESDIS, "Aerosol Retrievals over Oceans from AVHRR and VIRS: Consistency Checks, and Validation/adjustments using AERONET," December 2.

Charles Ichoku, Climate and Radiation Branch/GSFC, " Aerosol Characteristics and Light Scattering in an Eastern Mediterranean Arid Environment During late Winter," December 3.

Atmospheric Experiment Branch

Paul Mahaffy, Atmospheric Experiment Branch, NASA GSFC, "The Champollian Molecular Analysis Experiment, " July

12.

Paul Mahaffy, Atmospheric Experiment Branch, NASA GSFC, "The D/H Ratio at Jupiter Measured by the Galileo Probe Mass Spectrometer, " July 12.

Paul Mahaffy, Atmospheric Experiment Branch, NASA GSFC, "Heavy Noble Gases in the Atmosphere of Jupiter, " October 11.

Atmospheric Chemistry and Dynamics Branch

Lynn Sparling, Atmospheric Chemistry and Dynamics Branch, NASA GSFC, "Statistical Perspectives on Stratospheric Transport, " February 3.

Ulrike Langematz, Freie University of Berlin, "Sensitivity of a MA-GCM to the Prescribed Ozone Climatology ", February 26.

Shyam Lal, Physical Research Laboratory, "Measurements of Ozone Related Trace Gases in the Tropical Atmosphere, " March 12.

Lars Peter Riishojgaard, Data Assimilation Office, NASA GSFC, "The GEOS-DAS Ozone Assimilation System ", April 2.

Susan Solomon, NOAA Aeronomy Laboratory, "Visible Spectroscopy in the Earth 's Atmosphere: From Ozone Depletion to Climate < font size="3" color="Black">", April 14

Dorothy Koch, Yale University, "The Fate of Sulfate in the GISS GCM, " May 4.

William Brune, Pennsylvania State University, "Airborne OH and HO₂ Measurements: Evidence of Aircraft Influence on Atmospheric Oxidation? ", May 6.

Lars Peter Riishojgaard, Data Assimilation Office, NASA GSFC, "The GEOS-DAS Ozone Assimilation System II, " May 14.

Omar Torres, Raytheon STX, "Derivation of Aerosol Properties from Satellite Measurements of Backscattered UV Radiation, " June 25.

John Burrows, University of Bremen, "New Results from GOME ", September 2.

Richard Ramarosan, Office National d'Etudes et de Recherches Aerospatiales (ONERA), "Global and mesoscale modelling of the troposphere and the stratosphere in ONERA (Aircraft impact assessment) Comparison of the mesoscale model results with MOZAIC ", September 14.

Leonid Kalachev, University of Montana, "Reduction of a Model Describing Ozone Oscillations in the Troposphere: An Example of Algorithmic Approach to Models ' Reduction in Atmospheric Chemistry, " October 23.