

CLARREO Oral and Poster Presentations
2010 Fall American Geophysical Union Meeting
December 13-17, 2010
San Francisco, CA

A11C Moscone South: Poster Hall Monday 0800h-Posters
Innovative Applications of Satellite and Ground Observations in Evaluating
Large-Scale Models: Beyond the Resemblance Test I Posters

Presiding: **X Huang**, University of Michigan; **S A Klein**, Lawrence Livermore National Laboratory;
Z Luo, City College of New York, CUNY

Investigating Climate Trends in 14 Years of AERI Observations at the ARM SGP Site: P J
Gero, D Turner

EP21A Moscone South: Poster Hall Tuesday 0800h-Posters
Earth and Planetary Surface Processes I: Planetary, Eolian, Remote Sensing
Posters

Presiding: **M P Lamb**, Caltech; **L S Sklar**, San Francisco State University

Common Spacecraft Bus for Earth Science Decadal Survey Missions: T Cook, K Klaus, M S
Elsperman

GC41B Moscone South: Poster Hall Thursday 0800h-Posters
Use of Observations for Evaluating CMIP5/IPCC Simulations I Posters

Presiding: **D E Waliser**, Jet Propulsion Laboratory/Caltech; **G L Potter**, NASA GSFC; **A J**
Braverman, Jet Propulsion Laboratory; **J Teixeira**, Jet Propulsion Laboratory

Solar Intensity Distributing and Convolving Optic (SIDCO) Concept for the CLARREO
Reflected Solar Imaging Spectrometer (RSIS): G Matthews, Title of Team: ITT Geospatial
Systems Climate Calibration group

Blackbody Cavity Design and Absorptance Metrology for CLARREO On-board Calibrator
Support: S Mekhontsev, L M Hanssen, E L Shirley

Optical Property Characterization of Far IR Materials Critical for CLARREO Mission
Support: L M Hanssen, B Wilthan, S Mekhontsev, C Monte, J Hollandt, P McKenna, M Szczesniak

Spectral Forcing and Feedback Signals in IPCC Simulations: Simulations of Next-Generation
Observing Systems: D Feldman, W Collins, C Algieri, J Ong

A43B Moscone South: Poster Hall Thursday 1340h-Posters
Climate Processes and Other Research Applications Enabled by Satellite
Sounders, Imagers, and Profilers I Posters

Presiding: **B H Kahn**, Jet Propulsion Laboratory; **B Tian**, Jet Propulsion Lab

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Climatology data of IR land spectral emissivity derived from IASI 3-year measurements: D K Zhou, A Larar, X Liu

A43B Moscone South: Poster Hall Thursday 1340h-Posters
Climate Processes and Other Research Applications Enabled by Satellite
Sounders, Imagers, and Profilers I Posters

Presiding: B H Kahn, Jet Propulsion Laboratory; B Tian, Jet Propulsion Lab

The University of Wisconsin Space Science and Engineering Center Absolute Radiance Interferometer (ARI): J K Taylor, H E Revercomb, H Buijs, F J Grandmont, P J Gero, F A Best, D C Tobin, R O Knuteson, D D LaPorte

On-Orbit Absolute Radiance Standard for Future IR Remote Sensing Instruments: F A Best, D P Adler, C Pettersen, H E Revercomb, P J Gero, J K Taylor, R O Knuteson, J H Perepezko

Comparing Information Content of Mid and Far Infrared Spectra for Clear-Sky Atmospheric Profile Retrievals: A J Merrelli, D Turner

A53E Moscone South: Poster Hall Friday 1340h-Posters
Progress and Uncertainty in Reanalysis Data Sets II Posters

Presiding: J Chen, University of Maryland; P A Arkin, University of Maryland; W Ebisuzaki, NOAA/NCEP

Outgoing Longwave Radiation Spectrum simulations from ERA-Interim: C Belotti, R Bantges, H Brindley, J E Harries

G51A Moscone South: Poster Hall Friday 0800h-Posters
Geophysical Remote Sensing With Current and Future Global Navigation
Satellite Systems I Poster-Posters

Presiding: A J Mannucci, Jet Propulsion Laboratory, California Institute of Technology; E Cardellach, Institut de Ciències de l'Espai/CSIC-IEEC

Next Generation of Spaceborne GNSS Receiver for Radio Occultation Science and Precision Orbit Determination: J Y Tien, L Young, T Meehan, G Franklin, K J Hurst, S Esterhuizen, Title of Team: TriG GNSS Receiver Team

A12B Moscone West: 3008 Monday 1020h-Oral Presentation
Innovative Applications of Satellite and Ground Observations in Evaluating
Large-Scale Models: Beyond the Resemblance Test II

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Presiding: X Huang, University of Michigan; S A Klein, Lawrence Livermore National Laboratory;
Z Luo, City College of New York, CUNY

Evaluating Climate Models with CLARREO (Invited): M G Mlynchzak, D F Young, B A
Wielicki, Y Huang, S S Leroy, D Feldman, W Collins

IN14A Moscone South: 302 Monday 1600h-Oral Presentation
Interoperability Barriers for Earth Science Data Systems II

Presiding: S W Berrick, NASA; Y Enloe; H Hua, NASA/JPL; A Wilson, LASP

NASA's Standards Process For Earth Science Data Systems (Invited): R Ullman, Y Enloe

IN24A Moscone South: 302 Tuesday 1600h-Oral Presentation
Uncertainty, Error, and Quality of Observational Data II

Presiding: R G Raskin, Jet Propulsion Laboratory; A J Braverman, Jet Propulsion Laboratory; S R
Sain, NCAR

**Total Uncertainty in Measurements Record for Climate: Strategies from the CLARREO
Mission:** J A Dykema, J Anderson

A53G Moscone West: 3004 Friday 1340h-Oral Presentations
**Climate Processes and Other Research Applications Enabled by Satellite
Sounders, Imagers, and Profilers III**

Presiding: B H Kahn, Jet Propulsion Laboratory; B Tian, Jet Propulsion Lab

Multivariate Analysis of Hyperspectral Earth-reflected Solar Radiance: Y Roberts, P Pilewskie,
B C Kindel, G Kopp

Deriving Climate Quality Products from Hyper- Spectral Satellite Data: X Liu, D K Zhou, A
Larar, W Wu, H Li, P Yang

A54A Moscone West: 3004 Friday 1600h-Oral Presentation
**Climate Processes and Other Research Applications Enabled by Satellite
Sounders, Imagers, and Profilers IV**

Presiding: B H Kahn, Jet Propulsion Laboratory; B Tian, Jet Propulsion Lab

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Boundary layer remote sensing with combined active and passive techniques: GPS radio occultation and high-resolution stereo imaging (WindCam) small satellite concept: A J Mannucci, D L Wu, J Teixeira, C O Ao, F Xie, D J Diner, D F Young

GC53C Moscone West: 2005 Friday 1340h-Oral Presentations
Use of Observations for Evaluating CMIP5/IPCC Simulations II
Presiding: J Teixeira, Jet Propulsion Laboratory

Uncertainty in Comparing Climate Model Predictions with Climate Observations (*Invited*): B A Wielicki, D F Young, Y Hu, Title of Team: The CLARREO Science Team

Climate Change Time-to-Detection Simulations using IPCC Models for Shortwave Forcings and Feedbacks: W Collins, D Feldman, C Algieri, J Ong