

TUESDAY, 3/8

07:45 Registration
08:30 Welcome
• NCAR (Orlando)
• Goals (Hall/Schmidt)

09:00 Obs. System Overview
• Satellite/CERES (S. Kato)
• Aircraft (J. Redemann, J. Stith, C. Chiu, M. Wendisch)
• Surface networks (C. Long)

10:30 Posters / early lunch

12:30 Keynote 1: Cloud-aerosol radiative effects (G. Feingold)

13:30 Programmatic Perspective
• NSF (L. Avallone)
• NOAA (A. McComiskey)
• DOE (B. Schmid)
• NASA 2014 Workshop Summary

14:30 Synthesis of Observations in Modeling Context
• Radiative energy budget (D. Murphy)
• Tropospheric UV photochemistry (S. Madronich)
• Radiation and aerosol-cloud interactions (A. Gettelman)

15:45 Plan for tomorrow

16:00 Reception / posters

WEDNESDAY, 3/9

08:00 Radiometric measurements – capabilities and requirements
Speakers: P. Pilewskie, K. Lantz, J. Davis

09:00-10:45 Sat. validation *ML 680*

09:00-09:30 AV coo./reg. *ML 239*
09:30-10:45 *ML 245*

09:30-10:45 Radiometry 1 *ML 239*

10:45 Break

11:00 Surface energy budget
Speakers: C. Long, L. Riihimaki, E. Kassianov, P. Jimenez, J. Augustine

12:00 Lunch

13:00 Keynote 2: Understanding Arctic climate change (J. Kay)

14:00 Arctic experiments
Speakers: M. Shupe (MOSAIC), M. Wendisch (AC³)

14:45 Coffee break

15:00-18:00 Radiometry 2 *Main*

16:00-18:00 Photochem. *ML 239*

16:00-18:00 Arctic obs. 1 *ML 245*

THURSDAY, 3/10

08:00 Radiation science during recent NASA missions (B. Toon)

08:30-10:00 Emerging Science, Technology, Platforms
Lead: J. Redemann
Lead-in talk: M. Wendisch

10:00 Break

10:15-12:00 Rad./Micr. 1 *Main*

10:15-12:00 Complexity 1 *ML 215*

10:45-12:00 Arctic obs. 2 *ML 239*

11:00 Recent missions
Speakers: M. Segal-Rosenheimer, J. Wang, S. LeBlanc, O. Coddington

12:00 Lunch

13:00-14:30 Rad./Micr. 2 *Main*

13:00-14:30 Complexity 2 *ML 239*

14:30 Break

15:00 -18:00 Main science questions and future experiments
Lead: B. Toon

FRIDAY, 3/11

08:00-10:00 Reports from breakouts & discussion

10:00 Break

10:15-12:00 Final discussion and reflection on workshop goals
Action items
Moderators: S. Hall, S. Schmidt

12:00 Lunch

Legend

Science Talks

Discussions (breakouts)

Discussions (plenary)

Breaks

Breakouts

Radiometry (calibration, components, performance parameters)
• Leads: C. Flynn; L. Riihimaki

Radiation and microphysics in observations and modeling
Aerosol direct/indirect effect; cloud microphysics; model-observation connections
• Leads: R. Kahn, G. McFarquhar, J. Redemann

Arctic and Antarctic observations
• Lead: B. Smith

Coping with complexity in cloud-aerosol observations and RT modeling
• Lead: A. Davis

Airborne vehicle coordination, flight planning, and air traffic regulations
• Leads: S. Schmidt, L. Avallone

Photochemistry
• Leads: G. Tyndall; S. Madronich

Satellite Validation
• Leads: S. Kato; R. Kahn