

Wednesday November 2, 2005

800 to 830: Continental Breakfast and Registration (Atrium C)

**830 to 1020: Joint Session of CPWG and IRF on Instruments
(Chair: Ellingson/McFarquhar) Salon B/C**

830 to 835: Ferrell, Introduction

835 to 840: McFarquhar/Ellingson, Introduction

840 to 900: Liljegren, Instrument Procurement: Present and Future

900 to 930: Min, A-band Spectrometer Proposal

930 to 945: Dimov, ARM SBIR contract to build A-band spectrometer

945 to 1000: Turner, AERI Update

1000 to 1020: Discussion

1020 to 1040: BREAK -Atrium C

1040 to 1050: Wiscombe, Opening Remarks

1050 to 1250: CLOWD (Chair: Vogelmann/Turner) Salon B/C

1050 to 1055: Vogelmann and Turner, Introduction of the CLOWD plenary session

1055 to 1105: Cadeddu, Liljegren, Retrieving LWP from the GVR (183 GHz MWR) at the NSA site

1105 to 1115: Westwater, Cimini, Mattioli, and Gasiewski: Comparing MWR, MWRP, and millimeter wave observations of clouds at NSA

1115 to 1125: Wang, Comparing LWP from MWR and multiple-sensor approaches at NSA

1125 to 1135: Turner, AERI-retrieved LWP and effective radius from Pt. Reyes

1135 to 1145: Marshak, Chiu, and Wiscombe, Comparing 2NFOV method with 2NFOV+MFRSR retrieval algorithms

1145 to 1155: Min and Duan, Retrieving optical depth and effective radius from rotating shadowband radiometers

1155 to 1205: Polonsky and Davis, Numerical simulations of CLOWD clouds with WAIL

1205 to 1250: General discussion of CLOWD topics, and recommendations to ARM

1250 to 1400: LUNCH

1400 to 1530: BBHRP and Integrated Products (Chair: Mlawer/Miller) Salon B/C

1400 to 1415: Jensen, Status of CPWG VAPS

1415 to 1455: Miller and Mlawer, BBHRP Results

1455 to 1507: McFarlane, Broadband radiative heating rates in the Tropics

1507 to 1519: Delamere, Initial BBHRP calculations at the NSA

1519 to 1531: Khaiyer, Satellite products from NASA Langley

1530 to 1600: BREAK – Atrium C

**1600 to 1800: Cloud Property Plenary Instrument Presentation
(Chair: Jensen/McFarquhar) Salon C (Breakout Rm. 2)**

Instrument Issues:

1600 to 1615: Kollias, Preliminary look at 95 GHz performance at SGP: comparisons with MMCR

1615 to 1625: Johnson, Update on MMCR/WACR Status

1625 to 1640: Kollias, New ARSCL

Science Talks

1640 to 1655: Albrecht, Climatology of low-clouds and related thermodynamical and dynamical structures

1655 to 1710: Matrosov, Extending MMCR for retrieving vertical profiles of rain

1710 to 1725: Mace, Small particles in cirrus: perspective from ground-based remote sensing

1725 to 1755: Stephens/Austin/Wood, Some combination of the following

Stephens: Characteristics of tropical convection inferred from millimeter cloud radars

Austin: Retrieval of microphysical properties of low/high clouds using multiple ARM ground-based sensors

Wood: Application of retrieved cloud properties to radiative transfer model validation and uncertainty analysis

1755 to 1800: Jensen, Organization for tomorrow's sessions

**1600 to 1700: IRF Plenary – Discussions on IRF Issues – (Chair: Ellingson/Long)
Salon B (Breakout Rm 1)**

CPWG Thursday November 3, 2005

0730 to 0800: Continental Breakfast/Registration (Atrium C)

0800 to 1000: Cloud Properties Working Group Breakouts

***Low Clouds Breakout* (Chairs: Albrecht/Kollias) Skipjack 3rd Floor (Breakout Rm 4)**

Kogan: Improving retrievals of stratocumulus cloud parameters using Doppler velocity
Other discussions and talks relevant to low clouds

***High Clouds Breakout* (Chair: Comstock) Salon C (Breakout Rm 2)**

Liu: Large-scale cloud ice retrieval by combining surface cloud radar, satellite and numerical model data

Mitchell: Comparing ground-based and space-based retrieval schemes for IWP

Wang: Retrieve optically thick ice cloud microphysical properties by using dual-wavelength radar measurements

Deng: Cirrus microphysical properties and air motion statistics using cloud radar Doppler moments

Other discussions and talks relevant to low clouds

***Deep Convection Breakout* (Chair: Jensen) Topsider 4th Floor (Breakout Rm 5)**

Discussions and talks relevant to deep convection

1000 to 1030: BREAK (Atrium C)

1030 to 1200: Cloud Properties Working Group Breakouts continue

***Low Clouds Breakout* (Chairs: Albrecht/Kollias) Skipjack 3rd Floor (Breakout Rm 4)**

***High Clouds Breakout* (Chair: Comstock) Salon C (Breakout Rm 2) 10:30 - 12:30 –**

***Deep Convection Breakout* (Chair: Jensen) Topsider 4th Floor (Breakout Rm 5)**

1200 to 1330: LUNCH

1330 to 1500: Cloud Properties Working Group Breakouts

***Low Clouds Breakout* (Chairs: Albrecht/Kollias) Skipjack 3rd Floor (Breakout Rm 4)**

***High Clouds Breakout* (Chair: Comstock) Salon C (Breakout Rm 2)**

***Mixed-Phase Clouds and MPACE Breakout* (Chairs: Verlinde/Turner) Windjammer (Breakout Rm 3)**

1500 to 1530: BREAK (Atrium C)

1530 to 1730: Cloud Properties Working Group IOP Breakouts

***CLASIC Breakout* (Chair: Miller) Salon C (Breakout Rm 2)**

***MPACE/Mixed-Phase Cloud Breakout* (Chairs: Verlinde/Turner) Windjammer (Breakout Rm 3)**

***TWP-ICE Breakout* (Chair: Mather) Skipjack 3rd Floor (Breakout Rm 4)**

IRF Thursday November 3, 2005.

0730 to 0800: Continental Breakfast/Registration (Atrium C)

800 to 1000: IRF Instrumentation Papers and Discussion Salon B (Breakout Rm 1)

800 – 820 "Update on accounting for IR loss in ARM PSP BORCALs" - Stoffel

820 – 840 "Correction of thermal dome effect in historical broadband SW data" - Qiang

840 – 900 "Comparison of MWR, MWRP, and 183 GHz observations of water vapor during cold Arctic conditions" - Westwater

900 – 920 "Comparison of Temperature and Water Vapor Measurements by 5-Radiosonde Systems during the 2004 NSA WVIOP: implications for climate records and instrument validation." - Westwater

920 – 940 "Status of New Custom Infrared Thermometer for Thin-cloud Liquid Water Column Measurements." - Wiscombe:

940 – 1000 "A new 2NFOV and measurements at AMF - Pt. Reyes." - Chiu

1000 to 1030: BREAK (Atrium C)

1030 to 1230: IRF Instrumentation continued Salon B (Breakout Rm 1)

1030 -1100 Update on the concerns regarding the NREL broadband LW 4-coefficient calibrator formulation - Dutton -

1100 – 1115 High frequency microwave radiometer - Liljegren

1115 – 1130 RSS status and future plans - Kiedron

1130 – 1145 MPL status and future plans - Mendoza

1145 – 1200 TSI, IRT, and IR Imager status and plans - Morris

1200- 1230 Instrumentation discussion - formulation of recommendations

1230 to 1400: LUNCH

1400 to 1530: IRF Atmospheric and Surface properties Salon B

1400-1420 "Validation of satellite-derived surface radiative fluxes with ARM and SURFRAD measurements over the United States". Chan

1420 - 1440 "A new method for retrieving surface heat fluxes using satellite and ARM extended facility data" - Li

IOP Presentations

1440 - 1500 "The September 2005 SGP Aerosol Lidar Validation Experiment (ALIVE): Motivation and Status Report" - Schmid

1500 - 1520 "Water vapor continuum IOP" - Turner

1530 to 1600: BREAK (Atrium C)

1600 to 1800: IRF Discussion Period Salon B (Breakout Rm 1)

BAMS CLOWD Paper Discussion – Vogelmann/Turner

Friday November 4, 2005.

0730 to 0830: Continental Breakfast/Registration (Atrium C)

**0800 to 1030: Plenary Meeting for Cloud Properties Working Group
(Chair: Jensen/McFarquhar) Salon C (Breakout 2)**

0800 to 0815: Mitchell, Theoretical support for a cirrus-aerosol IOP
0815 to 0825: Albrecht/Kollias, Report from low clouds working group
0825 to 0835: Comstock, Report from high clouds working group
0835 to 0845: Jensen, Report from deep convective working group
0845 to 0855: Turner, Report from MPACE/mixed-phase working group
0855 to 0905: Clothiaux, Proposal for 4 times a day sonde release at NSA
0905 to 1000: Discussion on instrument/IOP priorities not overlapped with IRF

830 to 1000: IRF Plenary – Formulations of Recommendations Salon B (Breakout Rm 1)

1000 to 1020: BREAK (Atrium C)

**1020 to 1220: Joint Plenary Meeting of Cloud Properties and IRF
(Chair: Ellingson/McFarquhar) Salon B/C**

1020 to 1035: Chang/Li, Use of ARM data for validating satellite retrieved single-layer and overlapped clouds
1035 to 1045: Long, VAP to reprocess ARM TSI data to address circumsolar and horizon area retrieval problem
1045 to 1055: Turner, ISDAC Proposal
1055 to 1105: Miller, CLASIC Discussion
1105 to 1150: Discussion of Instrument Priorities joint between groups (brief presentations by Ellingson and McFarquhar)
1150 to 1210: Discussion of IOP priorities envisioned for future
1210 to 1220: Meeting wrap-up and general discussion