

**Meeting of the Working Group on Space-Based Lidar Winds
Wintergreen, Virginia
June 16 - 19, 2009**

AGENDA

Tuesday, June 16

- 8:30 – 9:30 Introductory Remarks and Review of Action Items from
Previous Meetings – *W. Baker*
- 9:30 – 10:00 Introduction of and Remarks by the New Co-Chairs of the
Lidar Working Group
- 10:00 – 10:20 Break

ADM-Aeolus Session

- 10:20 – 10:40 ADM-Aeolus: Mission Status and Data Processing Chain – *A. Stoffelen*
- 10:40 – 11:10 ADM-Aeolus: Vertical Sampling Scenarios – *A. Stoffelen*
- 11:10 – 11:40 ADM-Aeolus: Recent Instrument Modifications/Tests and
Airborne and Ground-Based Field Campaigns – *O. Reitebuch,*
M. Hardesty
- 11:40 – 1:00 Lunch
- 1:00 – 1:20 ADM-Aeolus: Ground Station Options – *L-P. Riishojgaard*

T-PARC Session

- 1:20 – 1:40 Overview of P3DWL T-PARC/TCS-08 Mission and Data Analysis
– *D. Emmitt, S. Greco*
- 1:40 – 2:00 The Impact of Airborne DWL Observations on Mesoscale Numerical
Simulations of Tropical Cyclones: Case Studies During T-PARC/TCS-08
– *Z. Pu, D. Emmitt, L. Zhang*
- 2:00 – 2:30 Winter T-PARC 2009 Field Campaign – *Y. Song*

OSSE Session

- 2:30 – 2:50 Plans for DWL OSSEs – Global and Regional – *D. Emmitt, R. Atlas,*
L-P. Riishojgaard, Z. Pu

- 2:50 – 3:10 Break
- 3:10 – 3:30 On the Problems and Challenges in Regional OSSEs – *Z. Pu, R. Atlas*
- 3:30 – 3:50 The Potential Impact of Space-Based DWL Profiles on Hurricane Forecasts: Preliminary Results from Regional OSSEs – *Z. Pu, L. Zhang, B. Gentry, B. Demoz*
- 3:50 – 4:00 Preliminary Efforts to Simulate and Assimilate DWL Observations at the GMAO – *W. McCarty*
- 4:00 – 4:20 Diurnal Cycles in the South Pacific Marine Atmospheric Boundary Layer – *S. Tucker, A. Brewer, M. Hardesty*
- 4:20 – 4:30 Update on NASA’s Sensor Web Experiments Using Simulated Doppler Wind Lidar Data – *S. Wood, D. Emmitt, S. Greco*
- 4:30 – 4:40 Visualization and Fusion of Model and Airborne Doppler Wind Lidar Data Within a Google Earth – *S. Greco, S. Shipley, D. Emmitt, S. Wood*

Wednesday, June 17

Session on DWL Technology Development

- 8:30 – 8:50 Status of the Tropospheric Wind Lidar Technology Experiment (TWiLITE) IIP Project – *B. Gentry, M. McGill, G. Schwemmer, M. Hardesty, A. Brewer, T. Wilkerson, R. Atlas, M. Sirota, S. Lindemann, F. Hovis*
- 8:50 – 9:10 Development of Pulsed Coherent Doppler Wind Lidar Systems for Two Aircraft – *M. Kavaya*
- 9:10 – 9:30 Optical Autocovariance Wind Lidar (OAWL) IIP Development Progress – *C. J. Grund, J. Howell, M. Ostaszewski, B. Pierce*
- 9:30 – 9:50 The Howard University Beltsville Research Campus: Highlights from the Recent Wind Lidar and Water Experiments – *B. Demoz*
- 9:50 – 10:10 Break
- 10:10 – 10:30 Ground-Based Testing of the DAWN 2-Micron Doppler Lidar and Comparison with Other Sensors – *G. Koch*
- 10:30 – 10:50 Goddard Lidar Observatory for Winds (GLOW) Wind Profiling from the Howard University Beltsville Research Facility – *H. Chen, B. Gentry, T. Bacha, B. Demoz, D. Venable*

- 10:50 – 11:10 Comparisons of Ground-Based, Radiosonde, and Aircraft Wind Measurements at the Howard University Beltsville Research Site – *K. Vermeesch, G. Koch, M. Boquet, B. Gentry, T. Bacha, U. Singh, H. Chen, B. Demoz*
- 11:10 – 11:30 Perspective from the NASA/GSFC Earth Science Technology Office (ESTO) – *G. Komar*
- 11:30 – 1:00 Lunch
- 1:00 – 1:20 Dependence of Regional Atmospheric Circulations and Moisture Fluxes upon Ambient Wind Fields – *J. Paegle, L. Byerle*
- 1:20 – 1:50 Wind Profile Measurements with VISIBLE WIND: Further Developments – *T. Wilkerson, A. Marchant, B. Bradford, T. Apedaile, C. Wright, E. Fowles*
- 1:50 – 2:00 Plans for VORTEX 2 Using a Radar/Lidar Facility – *D. Emmitt*
- 2:00 – 2:10 NPOESS Orbit: Mean Local Time of Ascending Node vs. Spacecraft Time in Shadow – *M. Kavaya*
- 2:10 – 2:30 CALIPSO Status and Plans – *D. Winker*
- 2:30 – 2:50 Comparison of CALIPSO, GLAS, and LITE CFLOS Statistics for Use in DWL Mission Design and OSSEs – *S. Greco, D. Emmitt*
- 2:50 – 3:10 NOAA Unmanned Aircraft System Program – *G. Wick, R. Hood*
- 3:10 – 3:30 Break
- 3:30 – 4:30 Open Discussion

Thursday, June 18

- 8:30 – 12:00 Subcommittee Discussions
- 12:00 – 2:00 Lunch (On your own)
- 2:00 – 6:00 Excursion to Local Vineyards

Friday, June 19

- 8:30 – 9:00 Presentation of Short Subjects
- 9:00 – 9:30 Subcommittee Reports and Recommendations

9:30 – 10:30

Review of Action Items; Next Meeting(s), and Adjourn