

**Working Group on Space-based Lidar Winds
November 3-4, 2015, NOAA Atlantic Oceanographic and
Meteorological Laboratory
Miami, FL
Agenda**

TUESDAY, NOVEMBER 3, 2015

<i>Title</i>	<i>Speaker</i>
8:00 Breakfast and Registration	
9:00 Welcome and Outline of Meeting	M. Hardesty, R. Atlas
Agency Status Reports	
9:15 NASA Earth Science Technology Office Overview	G. Komar
9:35 NASA Science Overview	R. Kakar
9:55 NOAA's Quantitative Observing System Assessment Program	R. Atlas
10:15 Feasibility study for future space-borne Doppler wind lidar	S. Ishii
10:35 Discussion	
10:45 Break	
11:10 Aeolus Development and Status	T. Kanitz
11:40 Discussion: Preparation for the Decadal Survey	M. Hardesty, W. Baker, U. Singh
12:10 Lunch	
Lidar Wind Related Activities at AOML	
13:30 Status of the Hurricane Forecast Improvement Project	F. Marks
13:50 The 2015 hurricane field program	R. Rogers
14:10 Doppler Wind Lidar on the Hurricane Reconnaissance Aircraft	D. Emmitt
14:30 Initial assessment of the P3 DWL impact on analyses and forecasts	L. Bucci
14:50 Discussion	
15:00 Break	
Aeolus Calibration and Validation	
15:20 ADM-Aeolus Cal/Val; Current status and plans.	D. Scheuttemeyer
15:50 ADM Cal Val 2015: DAWN performance in the presence of upper level jets and boundary layer rolls;	D. Emmitt
16:10 JCSDA Plans to Test ADM/Aeolus Data in the Global Forecast System	J. Yoe (via remote)
Atmospheric Motion Vector Winds and DWL Synergisms	
16:30 Activities at NASA towards 3D wind retrievals from IR sounders	T. Pagano
16:50 On the complementary nature of Satellite AMVs and Doppler lidar winds.	I. Genkova
17:10 Discussion: AMV and Doppler wind lidar mission synergisms	
17:30 Adjourn	
18:30 Group Dinner at a Local Restaurant	

WEDNESDAY, NOVEMBER 4, 2015

8:00 Breakfast

8:45 First Day Review and Day 2 Preview M. Hardesty

Aeolus WindVal Campaign

8:50 The Wind Validation (WindVal) Airborne Doppler Lidar Campaign 2015 for Aeolus preparation O. Reitebuch

9:10 2- μ m DWL observations during WindVAL 2015 and further results from gravity wave experiments S. Rahm

9:30 First results from the ALADIN airborne demonstrator (A2D) during the WindVal 2015 campaign U. Marksteiner

9:50 Discussion

10:00 Break

Doppler Lidar Technology

10:20 Update on 2-micron transmitter development U. Singh

10:40 Recent progress on the High Efficiency UV demonstrator and ATHENA-OAWL lasers F. Hovis

11:00 Laser development for next generation airborne direct detection DWL in support of Aeolus C. Lemmerz

11:20 ESTO Investment Strategy Update A. Valinia

11:40 Results from the 2014 Paris Workshop on Spacebased Lidar Technologies M. Hardesty

11:50 Discussion: ESTO Technology Strategies

12:35 Lunch

Recent and Upcoming Field Studies

13:45 Polar Winds 2015: Dropsonde and DAWN comparisons along east coast of Greenland D. Emmitt

14:05 TWiLiTE Operations During the Polar Wind Cal-Val Experiment B. Gentry

14:25 Progress on the ATHENA-OAWL airborne demonstrator, GrOAWL S. Tucker

14:45 Status of TODWL, TWOLF and P3DWL: 2015 applications and plans for near future; D. Emmitt

15:05 Transport of Saharan mineral dust over the Atlantic derived from airborne wind lidar measurements during SALTRACE O. Reitebuch

15:25 Using ADWL soundings to establish expectations for precision airdrops D. Emmitt

15:45 Break

Wrap Up

16:00 General Discussion

16:20 Review of Action Items and Date/Place for Next Meeting

16:30 Adjourn