## ISS Winds Mission Science Workshop Preliminary Agenda

## Thursday, February 10, 2011

Clement

7:30	Coffee
8:30	Welcome – <b>Bob Atlas</b> , Director NOAA Atlantic Oceanographic and Meteorological Laboratory
8:40	Workshop Goals – Mike Hardesty, Lars Peter Riishojgaard
8:50	The Winds on the International Space Station for Climate Research (WISSCR) mission – <i>Mike Hardesty, Bruce Gentry</i> , Wayman Baker, Dave Emmitt, Michael Kavaya, Steve Mango, Ken Miller
9:20	Performance Characteristics and Design Tradeoffs for an ISS Doppler Lidar - <i>Dave Emmitt</i>
9:40	The TwiLite Airborne Doppler Lidar – <i>Bruce Gentry</i>
10:10	Coffee Break
10:30	Flight Results of the Langley DAWN Coherent Wind lidar During the NASA GRIP mission - <i>Michael Kavaya</i> , <i>Jeffrey Beyon</i> , <i>Garfield Creary</i> , <i>Grady Koch</i> , <i>Mulugeta Petros</i> , <i>Bo Trieu</i> , <i>and Jirong Yu</i>
11:00	The Role of High-Value Observations for Forecast Simulations in a Multiscale Climate Modeling Framework - <i>Gabriel J. Kooperman, Michael S. Pritchard and Richard C. J. Somerville</i>
11:30	Influence of Tropical Convection on the Extratropical Longwave Pattern via Monsoon-scale Winds Systems in the UTLS - <i>Matt Hitchman</i>
12:00	Lunch
1:20	Major Discrepancies in the Analyzed Representation of Prominent Features of the Tropical Atmosphere. – <i>Oreste Reale</i>
1:50	Suggestions for the Use and Value of Space-based LIDAR Remote Sensing <i>Mel Shapiro</i>
2:20	Decadal Variability and Trends in the Large-Scale Atmospheric Circulation - Amy

2:50 Transport in Tropical Upper Troposphere / Lower Stratosphere – *Darryn Waugh* 3:20 Coffee Break 3:40 Variability of Tropical to Extra-tropical Transport in the Lower Stratosphere – *Mark* Olsen 4:10 A WMO perspective on spacebased winds - Lars Peter Riishojgaard 4:30 Discussion 5:30 Adjourn Friday, February 11, 2011 7:30 Coffee 8:30 Two Impact studies of Airborne DWL Data on Tropical Cyclone Track and Intensity forecasts - Dave Emmitt 8:50 Hurricane Research from an ISS mission – Frank Marks 9:20 Assessing the impact of observations in the NASA GEOS-5 forecast system using the adjoint method - Ron Gelaro 9:50 Low Level Jet Studies from the ISS - Zhaoxia Pu 10:10 Coffee Break 10:40 The Simulation and Assimilation of Observations in Preparation for ESA's Aeolus Mission – Will McCarty 11:10 Global Tropical Assimilation of LIDAR Winds Towards the Next Generation Modeling – T. N. Krishnamurti 11:30 Discussion – Articulating Science Goals for an ISS Winds Mission 12:00 Lunch 1:20 Discussion – A Science Plan for the Mission 2:30 Adjourn