

Ninth International Winds Workshop (9IWW)

**14-18 April 2008
Annapolis, Maryland, USA**

**Local Host/Sponsor: NOAA/NESDIS
Venue: Historic Inns of Annapolis
Workshop Co-Chairs: Christopher Velden and Kenneth Holmlund**

Sunday, 13 April 2008

19h00 - 21h00 **Registration, lobby of the Historic Inns hotel, Governor Calvert House**

Monday, 14 April 2008

08h00 - 09h00 **Registration and Continental Breakfast**

09h00 - 09h25 **Welcome and Workshop Opening**

09h25 - 09h40 **Johannes Schmetz**
Introducing recommendations from CGMS 35 to the 9th International Winds Workshop

SESSION I Operational Data Producer Status Reports *Chair: Jaime Daniels*

09h40 - 10h00 **Antonio Irving, Qi Hongming, W. Pennyoer, R. Potash, R. Rollins**
Operational satellite wind product processing at NOAA/NESDIS: A status report

10h00 - 10h20 **Ken Holmlund**
Status report on the operational derivation of Atmospheric Motion Vectors at EUMETSAT

10h20 - 10h40 **Break**

10h40 - 11h00 **Ryo Oyama and K. Shimoji**
Status of and future plans for JMA's Atmospheric Motion Vectors

11h00 - 11h20 **John Le Marshall, R. Seecamp, J. Jung, M. Dunn, C. Velden, J. Daniels and A.Rea**
Locally generated and error characterized MTSAT-1R atmospheric motion vectors and their contribution to operational NWP in the Australian region

11h20 - 13h00 **Lunch (sponsored)
Group Photo**

SESSION II
Polar Winds
Chair: Mary Forsythe

13h00 - 13h20 **Jeffrey Key, D. Santek, C. Velden, J. Daniels, R. Dworak**

The polar wind product suite

13h20 - 13h40 **David Santek**

The impact of MODIS-derived polar winds on global forecasts

13h40 - 14h00 **Lars Peter Riishojgaard, I. Appel, C. Redder**

Observing System Experiments for MODIS winds in the Joint Center for Satellite Data Assimilation

14h00 - 14h20 **Gregory Dew**

AVHRR polar winds derivation at EUMETSAT: Current status and future developments

14h20 - 14h40 **Richard Dworak, J. Key**

Assessing the quality of historical AVHRR polar wind height assignments

14h40 - 15h10 **Break**

SESSION III
AMV Height Assignment
Chair: Chris Velden

15h10 - 15h40 **Christopher Velden and Kris Bedka**

Identifying the uncertainty in determining satellite-derived AMV height assignments

15h40 - 16h00 **Arthur de Smet**

AMV height assignment with Meteosat-9: Current status and future developments

16h00 - 16h20 **Regis Borde, R. Oyama**

A direct link between feature tracking and height assignment of operational AMVs

16h20 - 16h40 **Ryo Oyama, R. Borde, J. Schmetz, T. Kurino**

Development of AMV height assignment directly linked to feature tracking at JMA

16h40 - 17h00 **Geneviève Sèze, S. Marchand, J. Pelon, R. Borde**

Comparison of AMV cloud top pressure derived from MSG with space-based Lidar observations

18h00 - 20h00 **Icebreaker (sponsored by NOAA/NESDIS)**

Tuesday, 15 April 2008

08h00 – 09h00 **Continental Breakfast**

SESSION IV
AMV Methods/QC
Chairs: Ken Holmlund

09h10 - 09h30 **A. Hernandez-Carrascal, S. Nasuto**
A Swarm Intelligence Method for Feature Tracking in AMV Derivation

09h30 - 09h50 **André Szantai, G. Sèze**
Improved extraction of low-level AMVs over West Africa from MSG images

09h50 - 10h10 **Eunha Sohn**
The impact of window size on AMV

10h10 - 10h30 **Howard Berger, C. Velden, S. Wanzong, J. Daniels**
Assessing the "Expected Error" as a potential new quality indicator for AMVs

10h30 - 10h50 **Break**

10h50 - 12h00 **Iliana Genkova, R. Borde, J. Schmetz, J. Daniels, C. Velden, K. Holmlund**
Global Atmospheric Motion Vector inter-comparison study

12h00 - 13h30 **Lunch (sponsored)**

SESSION V
Data Assimilation and NWP applications
Chairs: Peter Bauer and Claire DelSol

13h30 - 13h50 **Mary Forsythe, R. Saunders**
AMV monitoring: results from the 3rd NWP SAF analysis

13h50 - 14h10 **Mary Forsythe, R. Saunders**
AMV errors: a new approach in NWP

14h10 - 14h30 **Koji Yamashita**
Upgraded usage of AMVs from all geostationary satellites in the operational global and meso-scale 4D-VAR assimilation system at JMA

14h30 - 14h50 **Alexander Cress, C. Köpken, H.W. Bitzer**
Recent satellite wind impact studies at the German Weather Service

14h50 - 15h40 **Break**

15h40 - 16h00 **Steve Wanzong, I. Genkova, C. Velden, D. Santek**
AMV research using simulated datasets

16h00 - 16h20 **Lüder von Bremen, N. Bormann, S. Wanzong, M. Hortal, D. Salmond,
J.-N. Thépaut, Peter Bauer**
Evaluation of AMVs derived from ECMWF model simulations

16h20 – 16h40 **Claire Delsol, N. Bormann, G. Kelly, L. von Bremen,
J.-N. Thépaut, Peter Bauer**
Operational use of AMVs at ECMWF

16h40 - 17h00 **Claire Delsol, D. Dee, S. Uppala, N. Bormann, J.-N. Thépaut, P. Bauer**
Use of reprocessed AMVs in the ECMWF interim reanalysis

17h00 - 17h20 **Dongliang Wang**
Impact of variational data assimilation of AMVs on tropical cyclone track forecasts

19h00 - 21h00 **Workshop Dinner** (sponsored by EUMETSAT)

Wednesday, 16 April 2008

07h45 – 08h30 **Continental Breakfast**

SESSION VI
Science Applications
Chair: Dr. Pramod Mahajan

08h30 - 08h50 **Iliana Genkova, C. Velden**
Saharan dust motion extraction from MSG-SEVIRI

08h50 - 09h10 **Kristopher Bedka, C. Velden, W. Feltz, R. Petersen**
Development, validation, and application of a mesoscale AMV product at UW-CIMSS

09h10 - 09h30 **Javier García-Pereda**
Evolution of High Resolution Winds product (HRW), at the Satellite Application Facility in support to Nowcasting and very short range forecasting (SAFNWC)

09h30 - 09h50 **Pramod Mahajan, S.G.Narkhedkar, A. Prabhu**
Impact of INSAT-observed Kelvin wave type disturbances during summer Monsoon

09h50 - 10h20 **Break**

SESSION VII
Microwave Studies
Chair: Paul Ingmann

10h20 - 10h40 **Ad Stoffelen**
Advancements in Scatterometer wind processing

10h40 - 11h00 **Christophe Payan**
Status on the use of Scatterometer data at METEO-FRANCE

11h00 - 11h20 **Li Bi, J. Jung, J. Le Marshall**
Assimilating the WINDSAT winds in the NCEP global data assimilation system and determining the forecast impact from a two-season study

11h20 - 11h40 **Roger Davies, M. Garay**
Cloud Motion Vectors from MISR: Update and comparison with QuikSCAT

Wednesday Afternoon: Lunch (sponsored)
Group Excursion (Optional)

Thursday, 17 April 2008

07h45 – 08h30 **Continental Breakfast**

SESSION VIII
Future Satellites
Chair: Roger Davies

08h30 - 08h50 **Paul Ingmann, A. G. Straume**
ADM-AEOLUS – Progressing towards mission exploitation

08h50 - 09h10 **Ad Stoffelen, J. de Kloe, G.-J. Marseille, K. Houchi**
Scientific preparations for Aeolus and Aeolus follow-on

09h10 - 09h30 **David Tan, et al.**
ADM-Aeolus wind retrieval algorithms for Numerical Weather Prediction

09h30 - 09h50 **Michael Kavaya**
Expected characteristics of global wind profile measurements with a scanning, hybrid, Doppler Lidar system

09h50 - 10h10 **Jaime Daniels, C. Velden, W. Bresky, I. Genkova, S. Wanzong**
Algorithm and software development of Atmospheric Motion Vector products for the future GOES-R Advanced Baseline Imager (ABI)

10h10 - 10h40 **Break**

SESSION IX
Open Forum/Discussion
Chair: Johannes Schmetz

10h40 - 11h40	Open plenary discussion on topics of interest (Stoffelen)
11h40 – 11h50	Review of recommendations from CGMS-33 (Schmetz)
11h50 – 12h00	Charge to working group breakout sessions (Holmlund/Velden)
12h00 - 13h30	Lunch (sponsored)
13h30 - ????	Working Group (WG) Sessions WG 1: AMV Extraction/QC Methods (Chairs: de Smet/LeMarshall) WG 2: AMV Data Assimilation (Chairs: Cress/Riishojgaard) WG 3: AMV Height Assignment (Chairs: Borde/Genkova)

Friday, 18 April 2008

08h00 – 09h00	Continental Breakfast
09h00 - 10h30	Working Group Reports (Respective Chairs) Working Group 1: AMV Extraction/QC Methods Working Group 2: AMV Data Assimilation Working Group 3: AMV Height Assignment
10h30 - 11h00	Plenary Discussion Closing Comments - WORKSHOP ENDS
Lunch	On your own Program Committee Meeting

The following papers were not presented at the workshop, but are included in the proceedings:

Luiz Machado	CPTEC/INPE operational GOES-10 AMV
Sanjib Deb	Estimation of cloud motion winds from Kalpana VHRR
Sanjib Deb	Water vapour winds from Kalpana VHRR: A new approach
Feng Lu	Status of operational AMVs from FY2C
Ashim Mitra	An operational status and validation of cloud motion vectors with improvement in water vapour winds derived from Kalpana-1 satellite at IMD
Alexander Nerushev	Determination of the atmospheric dynamic characteristics from the MSG data in zones of dangerous atmospheric phenomenon