

GEWEX/ESA DUE GlobVapour workshop on long term water vapour data sets and their quality assessment

8 – 10 March 2011 - ESA/ESRIN, Frascati, Italy

Programme

Tuesday 08 March

9:00	Opening	Chris Kummerow, Jörg Schulz, Bojan Bojkov, Marc Schroeder
9:10	GEWEX needs	Chris Kummerow
9:30	Use of satellite water vapour data sets for climate model evaluation and development	Mark Ringer
10:00	ESA activities towards the generation of long time series	Mark Doherty
10:15	EUMETSAT activities towards FCDRs for water vapour	Jörg Schulz
10:30	The NASA NVAP-MEaSURES 1987-2010 Global Water Vapor Data Set: Design Approach and Heritage Science	Chris Kummerow, Janice Bytheway
11:00	Coffee	
11:30	ESA DUE GlobVapour water vapour products	Marc Schröder
11:50	Long-term satellite-based datasets of atmospheric water vapour derived within the EUMETSAT Satellite Application Facility in Climate Monitoring	Martin Stengel
12:10	Application of 15 years of global atmospheric water vapor column observations from GOME-1/2 and SCIAMACHY for climate studies	Thomas Wagner
12:30	Inter-comparison of GlobVapour total column water vapour (TCWV) with an homogeneous reprocessed dataset of Envisat RA2-MWR and radiosonde in-situ measurements	Bruno Picard
12:50	Two global water vapor datasets derived from HIRS - Upper tropospheric water vapor and specific humidity profiles	Lei Shi

13:10	Monitoring of Atmospheric Profiles from satellite-based InfraRed Sounders	Claudia Stubenrauch
13:30	Lunch	
14:30	Free Tropospheric Humidity from GEO platforms	Remy Roca
14:50	Clear-sky biases in satellite infra-red estimates of upper tropospheric humidity and its trends	Viju John
15:10	Evaluation of Upper Tropospheric Humidity (UTH) of Modern Reanalyses using AIRS Hyperspectral Radiance Data	Mitch Goldberg
15:30	Coffee	
16:00	Global climate data sets based on GNSS radio occultation measurements	Hans Gleisner
16:20	Assessment of Systematic Biases of Radiosonde Moisture Measurements using Global Positioning System Radio Occultation from COSMIC	Shu-Peng Ho
16:40	The NOAA/NESDIS/STAR Long Term Strategy of Hyper Spectral Fundamental Climate Data Records and Environmental Climate Variables	Antonia Gambacorta
17:00	Status of the EUMETSAT operational IASI L2 products	Thomas August
17:20	The inter-comparison of IASI water vapour retrieval schemes	Martin Stengel
17:40	Validation of the GOME-2 Total Column of Water Vapour product of the O3M-SAF	Sander Slijkhuis
17:50	Validation of ESA DUE GlobVapour Water Vapour Products	Theo Steenbergen
18:00	Discussions / wine and food	Courtesy of GlobVapour, DWD

Wednesday 9 March

9:30	Water Vapor Measurements at US DOE Atmospheric Radiation Measurement (ARM) sites	Somebody for Jim Mather
9:50	Long-term monitoring of atmospheric water with ground-based microwave radiometers	Klemens Hocke
10:10	MWRnet: A ground-based network to provide long-term water vapour observations	Mario Mech

10:20	A six-year climatology of tropospheric water vapor at the JPL Table Mountain Facility (California) using co-located radiosonde and lidar measurements	T. Leblanc
10:35	Monitoring tropospheric water vapour profiles with ground-based high resolution FTIR (Fourier Transform Infrared) spectrometers	Matthias Schneider
10:45	Measurements of Humidity in the Atmosphere and Validation Experiments (MOHAVE)-2009: Review of the campaign operations and results	T. Leblanc
11:00	GEWEX Cloud Assessment: a review and guidance for other international coordinated assessment activities	Claudia Stubenrauch
11:20	Preliminary Assessment Structure	Jörg Schulz
11:30	Coffee	
12:00	Breakout Groups <ul style="list-style-type: none"> ○ Total column water vapour (Lead Marc Schröder, Rapporteur: Janice Bytheway) ○ Temperature and water vapour profiles (Lead: Antonia Gambacorta, Rapporteur: Martin Stengel) ○ UTH (Lead: Lei Shi, Rapporteur: Viju John) 	
13:30	Lunch	
14:30	Breakout Groups	
20:30	Social Event	Courtesy of ESA

Thursday, 10 March 2011

9:30	Break out Groups Summary Preparation	
11:00	Coffee	
11:30	Discussion break out groups results	
13:30	Lunch	
14:30	Final discussion, wrap up, next steps, closure	Chris Kummerow