



G-VAP – Workshop

09. – 10. October 2014

Agenda

Venue:

**Institute for Space Sciences
Free University of Berlin
Berlin, Germany**

***Version 1.3
09. October 2014***

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Thursday, 9th Oct 2014

09:00 – 09:10	Welcome <i>Fischer</i>
09:10 – 09:20	Aims of meeting and logistics <i>Schröder, Shi</i>
09:20 – 09:50	G-VAP and the GEWEX integrated product <i>Schulz</i>
09:50 – 10:05	Overview and summary from last workshop <i>Schröder</i>
10:05 – 10:20	Extreme values, their uncertainties and the intercomparison of PDFs <i>Kursinski</i>
10:20 – 10:30	G-VAP web resources <i>Fell</i>
10:30 – 11:00	Coffee break
11:00 – 12:00	Spatially high resolution retrievals of TCWV over land surfaces using MERIS <i>Docter</i>
	New water vapour data records from ESA <i>Bojkov, Casadio</i>
(30 min)	Discussion
12:00 – 13:30	Lunch break
13:30 – 15:30	Water vapour column density product from GOME-2 Metop-A and GOME-2 Metop-B <i>Grossi</i>
	A new MODIS TCWV retrieval and a bridge to OLCI <i>Diedrich</i>
	NASA Water Vapor Project-MEaSURES (NVAP-M) global water vapor dataset: Latest results <i>Forsythe</i>
	Trend analysis as a tool: Application to TCWV and water vapour profiles <i>Schröder</i>
	Results from inter-comparisons: An update <i>Lockhoff</i>
(15 min)	Discussion
15:30 – 16:00	Coffee break
16:00 – 18:00 (15 min each)	Assessing homogeneity <i>Lockhoff</i>
	Quality assessment of satellite and radiosonde data <i>Scott (remote)</i>

[Assessing stability through intercomparison of HIRS and ARSA data](#)
Trent

[Analysis of anomalies and temporal variability in water vapour CDRs and climate model simulations](#)
Bennartz

[Water vapour profile validation using NPROVS+](#)
Sun

[Intercomparison of 10 year data records and PDF analysis: first results](#)
Lockhoff

(30 min) Discussion

18:00 Adjourn

Friday, 10th Oct 2014

09:00 – 09:15 [An overview on GRUAN](#)
Dirksen

09:15 – 09:30 [A brief review of collocation uncertainties and results from comparison of GRUAN and IASI data](#)
Calbet

09:30 – 09:45 [Development of a climate quality hyper spectral retrieval algorithm and its validation](#)
Gambacorta

09:45 – 10:00 [Statistical uncertainty separation through intercomparison of independent data sources](#)
Kinzel

10:00 – 10:30 [Detecting anthropogenically-driven increases in upper tropospheric water vapor using satellite observations](#)
Soden

10:30 – 11:00 Coffee break

11:00 – 12:30 [Intercomparison of UTH data records: An update](#)
Shi

[Trends in UTH data records: An update](#)
Schröder

[Consistency between TCWV and UTH: first results](#)
Shi

[Comparisons of observed inter-tropical FTH fields and their radiative impacts against climate model outputs](#)
Picon

[Evaluation of the atmospheric humidity as seen by SAPHIR/ Megha-Tropiques accounting for uncertainties](#)
Brogniez

(15 min) Discussion

12:30 – 14:00	Lunch break
14:00 – 15:00	<u>Measurement and sampling requirements for satellite remote sensing of precipitable water vapor in a changing climate</u> <i>Roman</i>
	<u>Effects of atmospheric profiles on cloud retrieval</u> <i>Stubenrauch</i>
	<u>Intercomparison of various water vapour observations and simulations with focus on small scale variability</u> <i>Eikenberg</i>
15:00 – 16:00	<u>The G-VAP report: Sections and lead authors</u> <i>Schröder, Shi, all</i>
16:00 – 16:30	Coffee break
16:30 – 17:00	Wrap-up, next meeting
17:00 – 17:30	All other business
17:30	Expected end

Participants:

Ralf Bennartz (Vanderbilt U), Bojan Bojkov (ESA), Helene Brogniez (LATMOS), Xavier Calbet (EUMETSAT), Stefano Casadio (ESA), Hannes Diedrich (FU Berlin), Ruud Dirksen (DWD), Nicole Docter (FU Berlin), Sonja Eikenberg (U Köln), Frank Fell (Informus GmbH), Jürgen Fischer (FU Berlin), John Forsythe (Colorado State U), Antonia Gambacorta (NOAA), Margherita Grossi (DLR), Rob Kursinski (Moog), Maarit Lockhoff (DWD), Laurence Picon (CNRS/LMD), René Preusker (FU Berlin), Jacola Roman (U Wisconsin), Marc Schröder (DWD), Lothar Schüller (EUMETSAT), Jörg Schulz (EUMETSAT), Noelle Scott (LMD, remote), Lei Shi (NOAA), Peter Sinigoj (LMD), Brian Soden (U Miami), Bomin Sun (NOAA), Claudia Stubenrauch (LMD), Tim Trent (U Leicester), Thomas Wagner (MPI), Ulrika Willén (SMHI)