

Wednesday, September 25, 2013

08:00 am - 09:00 am	registration - On site Registration
09:00 am - 10:00 am	Introduction to Megha-Tropiques Rainfall Products ; MTGV ; Workshop Objectives - Roca / Viltard / Gosset
10:00 am - 10:30 am	Coffee break
10:30 am - 11:00 am	OVERVIEW : Sources of Uncertainty in Rainfall retrieval from Satellite - Ziad Haddad
11:15 am - 12:30 pm	Validating/Improving Instant Rain rate Retrievals
11:15 - 11:30	A research framework to evaluate Level 2 active and passive rainfall products using ground radar-based National Mosaic QPE. - Pierre-Emmanuel Kirstetter, University of Oklahoma / National Severe Storm Laboratory
11:35 - 11:50	Improving the instantaneous vertical profiling of precipitation using ground based radar measurements and passive microwave radiometers - Sahra Kacimi, Jet Propulsion Laboratory
11:55 - 12:10	Algorithm Validation in the Megha-Tropiques Framework: An Attempt to Improve the Microphysic Parameterization in a Radiative Transfer Model - Audrey Martini, Laboratoire Atmosphères, Milieux, Observations Spatiales
12:15 - 12:30	Satellite Rainfall Retrievals during CHUVA-GLM Experiment: Rainfall Retrievals and Life Cycle Considerations - Daniel Vila, Centro de Previsão de Tempo e Estudos Climáticos, Cooperative Institute for Climate and Satellites
12:30 pm - 01:30 pm	Lunch (on site buffet)
01:45 pm - 03:00 pm	Validating/Improving Instant Rain rate Retrievals
13:45 - 14:00	Getting quantitative information on icy hydrometeors contributing to mw scattering from polarimetric radar - Frédéric Cazenave, Laboratoire d'étude des transferts en hydrologie et environnement
14:05 - 14:20	Comparison of Rain rates and rain classification from MT BRAIN retrievals over several operational and research radar in the Tropics - Matias Alcoba, GET, Toulouse et al.
14:25 - 14:40	Evaluation of the precipitating convective systems over the Arabian Peninsula using Megha-Tropiques data - Paul Kucera, National Center for Atmospheric Research
14:45 - 15:00	Tropical convective systems life cycle characteristics from geostationary satellite and precipitating estimates derived from TRMM and ground weather radar observations over the South American region - Thomas Fiolleau, Centro Nacional de Monitoramento e Alertas de Desastres Naturais
03:00 pm - 03:30 pm	Break
03:30 pm - 04:00 pm	OVERVIEW : Scaling properties of Rainfall - Venugopal
04:15 pm - 05:15 pm	scale issues - sampling - tbd
16:15 - 16:30	Scale-related artefacts on precipitation measurement: why they impact satellite rainfall estimation - Sebastien Verrier, Université Versailles St Quentin/LATMOS, LOCEAN/UPMC/IPSL
16:30 - 16:45	Simulation of rain time series with zero rainfall and actual statistical distribution in a Universal Multifractal framework - Nawal AKROUR, latmos
16:45 - 17:00	Stochastic simulation of high resolution rain fields: application to assess gauge-based rainfall uncertainty in a land surface model implemented over the AMMA-CATCH Niger observatory. - Theo Vischel, Laboratoire d'étude des transferts en hydrologie et environnement
17:00 - 17:15	Rainfall fields estimation by data fusion based on a variational 4DVAR assimilation technic of rain gauges and microwave links - Francois MERCIER, Univ. Versailles St Quentin / LATMOS

Thursday, September 26, 2013

09:00 am - 09:30 am	OVERVIEW : The Uncertainty Model for the TAPEER daily rainfall estimates - Philippe Chambon
09:30 am - 10:30 am	direct validation and ground truth uncertainty
09:30 - 09:45	analytical/conceptual models for the satellite products : an example from the MT Water Vapor product - ramses sivira, Institut Pierre-Simon-Laplace
09:45 - 10:00	How to account for uncertainties when assessing rainfall products by direct comparison with gauges - Clément GUILLOTEAU, Géosciences Environnement Toulouse
10:00 - 10:15	Evaluation of satellite Rainfall Products over the Karnataka state and Kabini basin - Sensitivity to resolution and network density - Sekhar Muddu, Iisc, Bangalore
10:15 - 10:30	Rain-gage based rainfall products for the MT ground validation in West Africa - Guillaume Quantin, Laboratoire de Physique Théorique et Modèles Statistiques
10:30 am - 11:00 am	Coffee break
11:00 am - 12:00 pm	direct validation and ground truth uncertainty
11:00 - 11:15	Validation of Satellite-Based Precipitation Products Over Sparsely-Gauged African River Basins - Vera Thiemi, Climate Risk Management Unit; JRC
11:15 - 11:30	Direct Validation of Satellite Based Rainfall Estimates against Ground Based Observations from Rain Gauges - Elena Tarnavsky, University of Reading
11:30 - 11:45	Elucidating Errors and Uncertainties Through Deconstruction of Precipitation Products - Chriss Kidd, Earth System Science Interdisciplinary Center
11:45 - 12:00	Satellite Rainfall Validation Activities over South America - Daniel Vila, Centro de Previsão de Tempo e Estudos Climáticos, Cooperative Institute for Climate and Satellites
12:00 pm - 12:30 pm	OVERVIEW : Using Satellite Rainfall for Flood Modeling in Mountainous Basins - Manos Anagnostou
12:30 pm - 01:30 pm	Lunch (on site buffet)
01:30 pm - 03:00 pm	hydrological applications - Rainfall error propagation
13:30 - 13:45	Potential of MT rain Products for flood prediction in the Tropics : preliminary studies over the Niger River - claire casse, Géosciences Environnement Toulouse
13:45 - 14:00	Hydrological Evaluation of Satellite-Based Rainfall Estimates over the Volta and Baro-Akobo Basin - Vera Thiemi, Climate Risk Management Unit; JRC
14:00 - 14:15	Sensitivity of the hydrological model DHSVM to rainfall forcing: application to the Ouémé catchment in Benin - Theo Vischel, Laboratoire d'étude des transferts en hydrologie et environnement
14:15 - 14:30	A preliminary study on Variational Data Assimilation for the control of rainfall over the Ouémé river (Benin) - houda yahi, marielle Gosset, Christophe Peugeot, Sylvie Thiria, Serge Janicot
14:30 - 14:45	Sensitivity studies of the Hydrological Models response to Satellite based rainfall forcing in Benin, West-Africa - Christophe Peugeot, HydroSciences Montpellier - et al.
03:00 pm - 03:30 pm	OVERVIEW : Uncertainties in measuring Surface Moisture and closing the Continental Water from space - ahmad Al Bitar
03:30 pm - 04:00 pm	Water Cycle - Cross validations - other land surface appl
15:30 - 15:45	Correcting Satellite Based Precipitation Products Using SMOS Measurement - Thierry Pellarin, Laboratoire d'étude des transferts en hydrologie et environnement
15:45 - 16:00	How satellite rainfall estimate errors may impact rainfed cereal yield simulation in West Africa. - Johanna Ramarohetra, Laboratoire d'Océanographie et du Climat : Expérimentations et Approches Numériques
04:00 pm - 04:30 pm	Coffee break
04:30 pm - 06:00 pm	GROUP DISCUSSIONS uncertainties and validation methods / Error propagation
07:15 pm - 08:30 pm	Cocktail reception Toulouse Town Hall - Reception par le Maire de Toulouse

1st Megha-Tropiques Workshop on Rainfall Products Validation and Hydrological Applications in the Tropics

CORIOLIS ROOM

OMP

Programme

25th - 27th September 2013
Observatoire Midi-Pyrénées
Toulouse

ISRO-CNES
Megha-Tropiques

1st Megha-Tropiques Workshop on
Rainfall Products Validation and Hydrological
Applications in the Tropics

Organizing Committee
Marielle Gosset, Get, Toulouse
Rémy Roca, Legos, Toulouse
Nicolas Viltard, Latmos, Paris
Sophie Cloché, IPSL, Paris

<http://mtgv-ws1.sciencesconf.org/>
Contact : mtgv-ws1@sciencconf.org

Logos: OIB, NSU, OMP, CPE, LATMOS, cnes, IRD

Friday, September 27, 2013

9:00 am - 10:30 am	Other Ground Validation activities and data sets, MTGV preliminary results. - TBD
09:00 - 09:15	Xband radar based Rainfall Quantitative Estimation during MeghaTropiques GV exercises - Modeste KACOU, Géosciences Environnement Toulouse, Laboratoire de Physique de l'Atmosphère et Mécanique des Fluides
09:15 - 09:30	Comparison of the Cameroon Weather Synoptic Stations Rainfall Data with TRMM Datasets: Intra and inter annual Rainfall variability. - MOUDI PASCAL IGRI, Ecole Africaine de la Météorologie et de l'Aviation Civile/Laboratoire de Modélisation Environnementale et de Physique de l'Atmosphère
09:30 - 09:45	Validation of satellite-derived rainfall estimates over China - wei liao, National Meteorological Information Center
09:45 - 10:00	Validation and Intercomparison of Satellite Rainfall Products over Peru - Waldo Lavado, Servicio Nacional de Meteorología e Hidrología del Perú, SENAMHI
10:00 - 10:15	Precipitation product retrieved from EUMETSAT geostationary satellites. - Marie Doutriaux-Boucher, EUMETSAT
10:15 - 10:30	Validation of Satellite Rainfall Products over the Upper Blue Nile Basin - Mekonnen Gebremichael, University of California Los Angeles
10:30 am - 11:00 am	Coffee break
11:00 am - 11:30 am	Other Ground Validation activities and data sets, MTGV preliminary results.
11:00 - 11:30	Preliminary assesment of the MT TAPEER product and impact of MADRAS - Taburet et al.
11:30 am - 12:00 pm	Current MTGV plan and new opportunities for collaboration (Coriolis) - Gosset et al. - General discussion
12:00 pm - 1:00 pm	Lunch (on site buffet)
01:00 pm - 02:00 pm	Closing Discussion - Chairman reports
02:00 pm - 05:00 pm	PYRÉNÉES ROOM : mini-course on R for Ground reference Rainfall Processing and SAT-Ground comparisons - a 3 hours short course based on examples to learn how to Quality control and process your rain gauges data with the free package R.

1st Megha Tropiques Ground Validation Workshop
Rainfall Products
Validation and Applications
25-27 sept 2013, Toulouse

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