CHUVA International Workshop 08-10 May 2013 São Paulo, Brazil

WEDNESDAY MAY 08th, 2013

Time	Abstract Number	Title	Authors
9:00	Open Session	The CHUVA Field Campaign: Overview	L. Machado, C. Morales, D. Vila, M. A. Silva Dias, G. Fisch, R. Albrecht, J. Cohen, E. Nascimento, M. Sakamoto
		NUMERICAL MODELING SESSION #1	
9:30	1.1	HRLAMENS - A PILOT PROJECT ON ENSEMBLE PREDICTION USING HIGH RESOLUTION LIMITED AREA MODELS	C. Cunningham, C. Saulo, W. Anabor, G. Camponogara, J.-P. Chaboureau, M. A. Silva Dias, S. Freitas, Y. García Skabar, L. Machado, E. Nascimento, M. Nicolini, M. Pulido, J. Ruiz, P. Salio, D. Santos, M. Saucedo, R. Stockler, E. Vendrasco
9:45	1.2	Modeling cloud and rainfall formation near Belem and Santa Maria with OLAM (Ocean Land Atmosphere Model)	R. R. Silva, A. Gandu, J. Cohen, R. Haas
10:00	1.3	Modeling cloud and rainfall formation near Fortaleza with OLAM (Ocean Land Atmosphere Model)	A. Gandu, R. R. Silva, R. Haas, A. Costa
10:15	1.4	High Resolution Model-Satellite-Radar Space and Time Scale Cloud Organization: The Santa Maria Case Study.	L. Machado, J.-P. Chaboureau.
10:30-11:00		**COFFEE BREAK**	
		NUMERICAL MODELING SESSION #2	
11:00	1.5	MODEL INTERCOMPARISON FOR EVENTS OCURRED AT SANTA MARIA SUL EXPERIMENT	L. Amaral, C. Eichholz, V. Virpiccinini
11:15	1.6	High resolution model intercomparison for Convective Events during CHUVA-Santa María	C. Matsudo, C. Saulo, C. Cunningham, W. Anabor, G. Camponogara, J.-P. Chaboureau, M. A. Silva Dias, S. Freitas, Y. García Skabar, L. Machado, E. Nascimento, M. Nicolini, M. Pulido, J. Ruiz, P. Salio, D. Santos, M. Saucedo, R. Stockler , E. Vendrasco
11:30	1.7	Validation of the BRAMS high resolution simulations by satellite radiance comparison	R. Negri, L. Machado
11:45	1.8	December 10, 2012 MCS during CHUVA campaign: event forecast-ability using WRF	M. Illha, V. Anabor
12:00	1.9	Evaluation of precipitation simulated over middle-latitude land by CPTEC AGCM single-column model (SCM)	S. Figueroa, E. Ramirez, P. Kubota
12:15-14:00		**LUNCH BREAK**	
		NUMERICAL MODELING SESSION #3	
14:00	1.10	Analysis of precipitation in operational simulations of WRF in case of intense convection over Rio Grande do Sul State: Case Study December 11, 2012	D. Daniel, D. Custódio, P. Oliveira, E. Nascimento, V. Anabor, E. Piva, F. Puhales
14:15	1.11	WRF MODEL ASSESSMENT TO THE WIND PROFILE AND THERMODYNAMIC CHARACTERISTICS DURING THE CHUVA PROJECT – ALCANTARA STATION 2010	A. Silva, G. Fisch

14:30	1.12	EVALUATION OF A BIN CLOUD MODEL USING DATA FROM CHUVA PROJECT FOR FORTALEZA, CEARA	G. Almeida, L. Franklin, J. Leal Jr.
		BOUNDARY LAYER AND SURFACE PROCESSES SESSION	
14:45	2.1	Spatial distribution of meteorological variables during severe weather events in CHUVA-Sul	G. Silva, O. Acevedo, P. Oliveira, H. Zimmermann, E. Nascimento
15:00	2.2	Could LIDAR methods automatically detect the top of ABL? – Case studies for Santa Maria / CHUVA-SUL	G. Moreira, E. Landulfo, L. Peres, G. Mariano, R. Bourayou
15:15	2.3	A comparative analysis between daily cycles of shortwave radiation from CHUVA Experiments at Vale do Paraíba and Santa Maria	T. Kaufmann, G. Fisch
15:30-16:00		**COFFEE BREAK**	
16:00-17:30		**ROUND TABLE - Dataset Control, Numerical Modeling, Boundary Layer and Surface Processes**	**Moderators: G. Fisch, M. A. Silva Dia, S. Freitas, C. Cunningham Datasets: radiosondes, balloons, tower, meteo statins, modeling**
18:00-19:30		**ICE BREAK COCKTAIL**	

THURSDAY MAY 09th, 2013

Time	Abstract Number	Title	Authors
		CLOUD PROCESSES AND PRECIPITATION SESSION #1	
9:00	3.1	GNSS Observations of Deep Convective Timescales in the Amazon	D. K. Adams, S. Gutman, K. Holub, D. Pereira
9:15	3.2	PRELIMINARY STUDIES OF THE APPLICATION OF GNSS TO PRECIPITATION NOWCASTING	L. Sapucci, L. Machado, I. Costa, L. Avanco
9:30	3.3	Relationship between Amazon biomass burning aerosols and rainfall over La Plata Basin	G. Camponogara, M. A. F. Silva Dias, G. G. Carrió
9:45	3.4	Preparation of a filter to correct drop size distributions of Parsivel disdrometer based on the particle speed limitation	I. Costa, L. Machado
10:00	3.5	Weather radar systems and techniques at different frequencies and polarizations for quantitative precipitation estimation and severe weather monitoring	L. Baldini, V.Chandrasekar, R. Bechini
10:15	3.6	Radar calibration	C. Morales, R. Albrecht, T. Biscaro
10:30-11:00		**COFFEE BREAK**	
		CLOUD PROCESSES AND PRECIPITATION SESSION #2	
11:00	3.7	ICE WATER PATH STUDY USING PASSIVE MICROWAVE SENSORS DURING THE CLOUD LIFE CYCLE	R. Braga, D. Vila
11:15	3.8	Characterization of the microphysics of ice using CHUVA X-band radar and TMI and MADRAS brightness temperatures	A. Martini , N. Viltard, L. Machado, T. Biscarro
11:30	3.9	The Cloud and Rain Liquid Water Characteristics of Different Precipitation Regimes in Brazil	A. Calheiros, L. Machado
11:45	3.10	AEROSOLS IMPACTS ON CLOUD DYNAMICS	M. Cecchini, L. Machado
12:00	3.11	Cirrus clouds observation in Santa Maria, Rio Grande do Sul during the experiment Chuva – Sul.	B. Barja, H. Barbosa, R. Bourayou

12:15	3.12	SEVERE STORM DURING THE CAMPAIGN OF PROJECT CHUVA IN THE CITY OF BELÉM	I. Mello , J. Cohen
12:30-14:00		**LUNCH BREAK**	
		CLOUD PROCESSES AND PRECIPITATION SESSION #3	
14:00	3.13	INFLUENCE OF LOCAL CIRCULATION ON SPATIAL AND TEMPORAL DISTRIBUTION OF THE PRECIPITATION NEAR THE NEGRO AND SOLIMÕES RIVERS CONFLUENCE REGION	M. Santos, M. A. Silva Dias, E. Freitas
14:15	3.14	Micro Squall Line in Belem region	T. Amaral Neto, J. Cohen, L. Machado
14:30	3.15	Space and time Characteristics of Convective clouds during chuVa campaigns	W. Lima, L. Machado
14:45	3.16	SSMI/S Satellite Rainfall Retrievals during CHUVA-GLM Experiment	D. Vila, N. Viltard, L. Machado, W. Lima
15:00	3.17	Use of CHUVA data to improve and validate the BRAIN rain retrieval algorithm	N. Viltard, L. Machado, D. Vila
15:15-16:30		**ROUND TABLE - Dataset Control, Cloud Processes and Precipitation**	**Moderators: L. Machado, N. Viltard, D. Vila, L. Baldini** **Datasets: raingauges, DSD, MRR, radars, radiometer**
16:30-17:00		**COFFEE BREAK**	
		FUTURE FIELD EXPERIMENTS	
17:00	4.1	Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5)	S. T. Martin
17:30	4.2	Interactions between urban and forest emissions in Manaus, Amazonia: The Brazilian component of GoAmazon	P. Artaxo, M. A. Silva Dias
17:45	4.3	Aerosol, Cloud, Precipitation, and Radiation Interactions and Dynamics of Convective Cloud Systems (ACRIDICON)	M. Wendisch, L. Machado, U. Pöschl, K. Longo, M. Andreae, P. Artaxo, D. Rosenfeld, M. Silva Dias, H. Schlager, G. Fisch, A. Ehrlich, A. Manzi, B. Stevens, R. Souza
18:00	4.4	RELAMPAGO: following CHUVA steps....	P. Salio, S. Nesbitt, D. Cecil, T. Lang, L. Machado, R. Albrecht, E. Nascimento
19:00		**SOCIAL EVENT (To be determined...)**	

FRIDAY MAY 10th, 2013

Time	Abstract Number	Title	Authors
		CLOUD ELECTRIFICATION PROCESSES SESSION	
8:15	5.1	SYNOPTIC AND THERMODYNAMIC CHARACTERIZATION OF SPRITE PRODUCING CONVECTIVE SYSTEMS OBSERVED IN 2012 DURING THE “CHUVA SUL” CAMPAIGN	R. Anchayhua, R. Azambuja, F. São Sabbas, A. Morais
8:30	5.2	Space-time Evolution of Sprite Producing Thunderstorms During CHUVA Sul Campaign in 2012	F. T. São Sabbas, R. Azambuja, R. Anchayhua, A. Morais
8:45	5.3	Calibration of correction factors for the daily lightning quantities of starnet network using data from Field Mill, Belém campaign, CHUVA Project.	W. Moreira Frota, B. Rocha, J. de Sá, L. Dentel, J. Pissolato Filho
9:00	5.4	Lightning activity associated to Amazonian coastal squall lines: a casestudy	L. Dentel, B. Rocha, J. Souza, R. Holle, J. Saraiva
9:15	5.5	Thunderstorms and lightning activity in São Paulo metropolitan area during CHUVA-GLM Vale do Paraiba field experiment	R. Albrecht, C. Morales, R. Blakeslee, J. Bailey, S. Goodman, H. Höller, E. Anselmo, J. Neves, E. Mattos, T. Biscaro, L. Machado

9:30	5.6	Characteristics of the X-Band Polarimetric Radar Associated With the Lightning Electrical Activity	E. Mattos, L. Machado
9:45	5.7	Lightning and Polarimetric Radar Behavior of Incipient Thunderstorms in CHUVA	E. Williams, E. Mattos, L. Machado, A. Saraiva
10:00	5.8	Inverse Problem of Coulomb's Law: Preliminary results from the CHUVA Belém Campaign	M. Lacerda, C. Morales, E. Anselmo, R. Albrecht, W. Rocamora, K. Fernandes, R. Jaques
10:15-10:45		**COFFEE BREAK**	
		LIGHTNING DETECTION SYSTEMS SESSION #1	
10:45	6.1	São Paulo Lightning Mapping Array (SP-LMA): Network Assessment and Analyses for Intercomparison Studies and GOES-R Proxy Activities	R. Blakeslee, J. Bailey, L. Carey, S. Goodman, S. Rudlosky, R. Albrecht, C. Morales, E. Anselmo, J. Neves
11:00	6.2	Additions to the GLM proxy data set from CHUVA measurements	M. Bateman, S. Goodman, R. Blakeslee, R. Albrecht, J. Bailey, D. Mach
11:15	6.2	Ground-based and space-borne lightning observations during CHUVA	H. Höller, H.-D. Betz, C. Morales, R. Blakeslee, J. Bailey, R. Albrecht
11:30	6.4	Using Lightning Mapper Array to evaluate the lightning detection signatures at VLF, LF and VHF systems	C. Morales, R. Albrecht
11:45	6.5	ANALYSIS OF THE TLS200 NETWORK DEPLOYED DURING THE CHUVA CAMPAIGN IN BRAZIL	A. Nag, M. Murphy, R. Said
12:00	6.6	On the Relationship between Observations from the Lightning Imaging Sensor and Ground-based Lightning Observations at VLF, LF, and VHF Frequencies	K. Cummins, R. Blakeslee, L. Carey, J. Bailey, M. Bateman, S. Goodman
12:15	6.7	Performance Comparison between Different Lightning Datasets during CHUVA Campaign	H. Zheng, R. Holzworth, M. Hutchins, J. Brundell, S. Heckman, O. Pinto Jr.
12:30-14:00		**LUNCH BREAK**	
		LIGHTNING DETECTION SYSTEMS SESSION #2	
14:00	6.8	COMPARATIVE ANALYSIS OF BRASILDAT TOTAL LIGHTING NETWORK FOR THE VALE DO PARAIBA CHUVA CAMPAIGN	K. Naccarato, O. Pinto Jr
14:15	6.9	Electrostatic fields observed during the CHUVA campaign	E. Anselmo, C. Morales, J. Neves, G. Beneduzi, M. Lacerda, R. Albrecht
14:30	6.10	RAMMER NETWORK OBSERVATIONS DURING THE SUMMER OF 2011/2012	A. Saraiva, O. Pinto Jr, G. Zepka, E. Lu, L. Campos, L. Antune, J. Alves, T. Buzato
14:45	6.11	Upward lightning observations from towers in São Paulo, SP, Brazil and comparison with Lightning Location Systems data	M. Saba, A. Paiva, K. Naccarato, C. Schumann, R. Albrecht, M. Ferro
15:00	6.12	Data Analysis of upward lightning in Jaragua Peak	C. Schumann, M. Saba, M. Ferro, A. Paiva, R. Jaques
15:15	6.13	On the relation between return stroke peak current provided by lightning location systems and its peak luminosity obtained from high-speed video cameras Preliminary results	L.. Campos, J. Alves, A. Saraiva, E. Williams, O. Pinto Jr.
15:30-16:00		**COFFEE BREAK**	
16:00-18:00		**ROUND TABLE ON CLOUD ELECTRIFICATION PROCESSES AND LIGHTNING DETECTION SYSTEMS**	**Moderators: C. Morales, R. Albrecht** **Dataset: field-mills, LLS, fast/slow antennas, high-speed cameras**
		WORKSHOP ENDS	