Friday	11 July	
8:00-10:00		Plenary Oral Session 12:IN and CCN
		Chairperson: Gabor Vali
8:00-8:15	12.1	Invited: Michael Kamphus, Stephan Borrmann, Saskia Walter, Joachim Curtius, J. Schneider, S. Mertes, E. Weingartner
		Mass spectrometric analysis of small ice crystal residuals in mixed phase clouds during the CLACE projects
8:15-8:30	12.2	Heike Wex, Tabea Hennig, Sonia Kreidenweis, Markus Petters, Diana Rose, Imre Salma, Frank Stratmann
		Connecting hygroscopicity to activation: hygroscopic growth at high relative humidities, slightly soluble substances, surface tension and other effects
8:30-8:45	12.3	James G. Hudson, Stephen Noble
		Cloud Condensation Nuclei Sizes
8:45-9:00	12.4	Cynthia H. Twohy, Andrew J. Heymsfield, Aaron Bansemer, Susan Van Den Heever, Bruce Anderson
		Interaction of Saharan Dust with Liquid and Ice Clouds
9:00-9:15	12.5	Gourihar R. Kulkarni, Steven Dobbie, Jim McQuaid, Mike Smith
		Experimental observations of heterogeneous ice nucleation of mineral dust using a newly developed static thermal gradient diffusion chamber
9:15-9:30	12.6	Jeffrey L. Collett, Lynn Mazzoleni, Xinhua Shen, Pierre Herckes, Taehyoung Lee, Suresh Raja, Kalliat T. Valsaraj
		Carbonaceous aerosol processing by clouds and fogs
9:30-9:45	12.7	John A. Ogren, Elisabeth Andrews
		Cloud-Processing and Aerosol Optical Properties at a Polluted Continental Site
9:45-10:00	12.8	Frank Stratmann, Heike Wex, David Topping, Gordon McFiggans
		Sensitivities of modelled hygroscopic growth and activation on surface tension and the amount of soluble substance in aerosol particles

10:00-10:30

Coffee Break

10:30-12:15		Plenary Oral Session 13: INSTRUMENTATION AND APPLICATIONS OF CLOUD PHYSICS
		Chairperson: Darrel Baumgardner
10:30-10:45	13.1	Invited: Patrick Chuang, Ewe Wei Saw, Jennifer Small, Raymond Shaw, Chad Sipperley, Gregory Payne, William Bachalo
		Performance of a Phase Doppler Interferometer for Cloud Microphysical Measurements
10:45-11:00	13.2	Zhaonan Zhang, Bryan Monosmith
		The Development of Airborne CoSSIR for Ice Cloud Measurements
11:00-11:15	13.3	Zhengjun Su
		A new 1M3 isothermal cloud chamber for the investigation on cloud physics
11:15-11:30	13.4	Joël Van Baelen, Yves Pointin, Wolfram Wobrock, Andrea Flossmann, Gerhard Peters PREPHIX : PREcipitations and microPhysical studies with a HIgh resolution X-band radar: Calibration with a bin microphysical model and supporting measurements
11:30-11:45	13.5	Daren Lu, Wenxing Zhang, Juan Huo
		Ground-based VIS/IR All Sky Images for Observation of Cloud and Aerosol Characteristics
11:45-12:00	13.6	Dong Huang, Yangang Liu, Warren Wiscombe
		Retrieving three-dimensional cloud structure using a tomography method
12:00-12:15	13.7	Jacob P. Fugal, Raymond A. Shaw
		Ice Particle Size Distributions Measured with an Airborne Digital In-line Holographic Instrument

12:15-13:15		Buffet Lunch
13:15-14:30		Poster Session 12: IN and CCN
		Chairperson: TBD
	P12.1	A.Laaksonen, T. Raatikainen, T. Lathem and A. Nenes
		Is it possible to determine the critical droplet diameter experimentally from CCN counter data?
	P12.2	Amar Hamed, Mihaela Mircea, Stefano Decesari, Maria-Cristina Facchini, Jorma Joutsensaari, Veli-Matti Kerminen, Ari Laaksonen
		Observations and modeling of nucleation mode aerosol evolution during fog episodes in Po Valley
	P12.3	Andreas Tilgner, Ralf Wolke, Hartmut Herrmann
		CAPRAM modelling of the physico-chemical cloud processing of tropospheric aerosols
	P12.4	Anthony J. Prenni, Matthew T. Parsons, Markus D. Petters, Paul J. DeMott, Sonia Kreidenweis
		Ice Nuclei Measurements in the Amazon Basin
	P12.5	Ashley L. Shackelford, Will Cantrell
		Organic Compounds as Deposition Nuclei Before and After Oxidation
	P12.6	Athanasios Nenes, Akua Asa-Awuku, Sara Lance, James N. Smith, Hafflidi Jonsson, Richard C. Flagan, John H. Seinfeld
		Mixing state, droplet growth kinetics and aging of ambient polluted CCN.
	P12.7	Atsushi Saito, Masataka Murakami
		Measurement of natural ice nuclei by continuous-flow thermal-diffusion-chamber type ice nucleus counter
	P12.8	Björn Nillius, Heinz Bingemer, Ruprecht Jaenicke, Thomas Wetter, Bundke Ulrich
		Development of a new airborne Ice nuclei Counter
	P12.9	Duan Ying, Wu Zhihui, Shi Lixin, Jiang Yan
		The Primary Study on Distribution Characteristics of Aerosol and CCN under Clear Sky Weather Condition in Summer Using Aircraft Detect over The Bohai-Sea Gulf Area, China
	P12.10	Fabio L. Gonçalves, Jorge A. Martins, Maria A. Silva Dias, Heidi Bauer, Maria Alves
		Fungi spores as ice nuclei and their impacts on rainfall amount over SÃO PAULO City
	P12.11	Gianni Santachiara, Lorenza Di Matteo, Franco Prodi
		Atmospheric particles acting as Ice Forming Nuclei in different size ranges
	P12.12	Heike Wex, Markus Petters, Sonia Kreidenweis, Eva Hallbauer, Frank Stratmann
		Closing the gap between hygroscopic growth and activation for secondary organic aerosol (SOA)
	P12.13	Holger Klein, Ulrich Bundke, Lothar Schuetz, Thomas Wetter, Heinz Bingemer
		The variability of ice nucleating aerosols over Central Europe
	P12.14	Jonathan Crosier, Martin Irwin, Paul Williams, Michael Flynn, Gordon McFiggans, Hugh Coe, Tom Choularton
		In-situ characterisation of submicron aerosol physical, chemical and hygroscopic properties at the Supersite Hornisgrinde during the COPS field campaign
	P12.15	Jong H. Kim, Seong S. Yum, James G. Hudson
		Measurement of Aerosol hygroscopicity and cloud condensation nuclei at a remote northeast Asian coastal site in Gosan, Korea in summer 2006 and spring 2007
	P12.16	Joonas Vanhanen, Tatu Anttila, Antti-Pekka Hyvärinen, Heikki Lihavainen, Yrjö Viisanen, Markku Kulmala
		Ternary mixture of sodium chloride, succinic acid and water; surface tension and its influence on cloud droplet activation.
	P12.17	Karin Ardon, Zev Levin , Eliezer Ganor, Holger Klein, Heinz Bingemer
		The effect of air pollution on ice nuclei concentration in Israel
	P12.18	Katsuya Yamashita, Takuya Tajiri, Akihiro Hashimoto, Masataka Murakami, Narihiro Orikasa, Atsushi Saito
		Nucleation and growth of droplets simulated in the dynamic cloud chamber and the microphysical parcel model

# P12.19 Li J. Wang

Analyze to the Silver Content of Artificial Precipitation

P12.20 Lixin Shi, Yupeng Deng, Yan Jiang, Zhijun Zhao, Zuohui Qi, Xiaobo Dong, Ying Duan

Measurements of Cloud Condensation Nuclei over North China

P12.21 Mildred L. Frias

Cloud condensation nuclei (CCN) closure during a campaign in the region of Mexico City

#### P12.22 Sanna C. Ekström, Barbara Nozière, Hans-Christen Hansson, Peter Tunved, Tomas Alsberg, Malin Hultberg

Cloud activation efficiency of compounds from a biological origin

# P12.23 Silvia Henning, Heike Wex, Alexei Kiselev, Frank Stratmann, LExNo team

Laboratory study on CCN efficiency of aerosol particles simulating wood combustion particles

# P12.24 Stephan Mertes, Bart Verheggen, Michael Kamphus, Saskia Walter, Julie Cozic, Martin Ebert, Johannes Schneider Physico-chemical characterisation of ice particle residuals in tropospheric mixed-phase clouds based on ice particle collection using the counterflow virtual impactor technique

#### P12.25 Stephen Noble, James G. Hudson

CCN Scavenging and Drizzle

#### P12.26 Suzanne Crumeyrolle

The impact of the mesoscale convective systems (MCS) on aerosol physical and chemical properties, focusing on hygroscopicity, during the AMMA campaign

#### P12.27 Thomas Chubb, Steven Siems, Michael Manton

Sources of Atmospheric Aerosols During Wintertime Precipitation Events in the Snowy Mountains

# P12.28 Trude Eidhammer, Paul J. DeMott, David C. Rogers, Anthony J. Prenni, Markus Petters, Sonia M. Kreidenweis

Ice initiation by aerosol particles: Comparing model parameterizations and observations in a parcel framework

#### P12.29 Xincheng Ma, Qiang Zhang, Mengyu Huang

The influence which subsidence inversion in the spring had on aerosol over Beijing regian

P12.30 Yan Yin, Ying Duan, Yu Zhang, Lixin Shi, Yunchuan Li

Vertical and Spectral Distributions of Aerosol Particles over Shijiazhuang Area, Northern China

# P12.31 Zsófia Jurányi, Martin Gysel, Jonathan Duplissy, Ernest Weingartner, Silvia Henning, Frank Stratmann, Urs Baltensperger

Cloud forming potential of secondary organic aerosol

13:15-14:30	Poster Session 13: INSTRUMENTATION AND APPLICATIONS OF CLOUD PHYSICS
	Chairperson: TBD
P13.1	Adekunle T. Adediji, Moses O. Ajewole, Clemens Simmer
	Anomalous propagation of Microwave Radio Signals in Akure, South West Nigeria
P13.2	Aili S., Yimei H.
	Study of method on automatical analyse seeding area by using the data from new generation radar network
P13.3	Alexei Korolev
	New Airborne Extinction Probe
P13.4	Alexei Korolev, J W. Strapp, George Isaac, Ed Emery
	Improved Airborne Hot-Wire Measurements of Ice Water Content in Clouds
P13.5	Bjørn Egil K. Nygaard, Jón Egill Kristjánsson, Lasse Makonnen, René Cattin
	How accurately can in-cloud icing be predicted by current NWP models?
P13.6	Christine Brandau, Herman Russchenberg, Wouter Knap

Evaluation of ground-based remotely sensed water cloud properties using aircraft in-situ measurements

P13.7 Darren O'Connor

Development and Tests of a New Fast Forward Scattering Spectrometer Probe (FSSP)

P13.8 David C. Rogers

An Observational Study of Cloud Particle Splash/Break-Up Artifacts on Air Sampling from Inlets

P13.9 Dmitri N. Moisseev, V. Chandrasekar, David Hudak

Spectral decomposition of polarimetric radars and ice hydrometeor retrievals for C3VP

P13.10 Eugenio Gorgucci, Luca Baldini

Rainfall Algorithm Invariant to the Weather Radar Operating Frequency and Immune to Variability in Raindrop Shape-size Model

#### P13.11 Frédéric Burnet, Jean-Louis Brenguier, Thierry Bourrianne, Jean-Michel Etcheberry, Thierry Perrin

The X-PROBE: A new airborne spectrometer for in situ measurement of cloud condensation nuceli and droplets

#### P13.12 Göran P. Frank, Bengt G. Martinsson

An instrument for studies of the relation between cloud droplet size and dry residual particle size - The Droplet Aerosol Analyser

# P13.13 Harald Saathoff, Volker Ebert, David W. Fahey, Ru-Shan Gao, Ottmar Möhler, Cornelius Schiller, The A. Team

Intercomparison of Water Vapour Measurement Techniques

P13.14 Hongbin Li, Deping Zou, Wenyao Pu, Jun Song

Determination of the optimal location and quantity of seeding material for rocket-based rain enhancement

#### P13.15 Ismail Gultepe, J. Milbrandt, S. Benjamin, G. A. Isaac, S. Cober, B. Hansen

Visibility Parameterization for Forecasting Applications

#### P13.16 Jiang P. Pu, Ai J. Jiang, Zhan Y. Yao, Yi Kong, Dong Yuan, Jiong Lu, Mei Lv

Rain Droplet Scale Spectrum & Drop Speed Distribution Observation and Its Analysis with Different Precipitation

#### P13.17 Jiping You, Yongji Feng

Construction of a Ground Synthetic System for Cloud Physics Analysis Based on WebGIS

P13.18 Jonathan P. Wolfe, Jefferson R. Snider

Development of a Temperature-dependent Radar Reflectivity versus Snowrate Relationship

## P13.19 Jorgen B. Jensen, Stuart Beaton, Jeffrey L. Stith, Dave C. Rogers

A system for the impaction and automated optical sizing of giant aerosol particles with emphasis on sea salt

#### P13.20 Jun Zhou, Chi H. Lei, Chong Wei, Xia Z. Hu, Jun Yang, Lei Ji

Retrieval Method of Path-integrated LWC for Airborne Upward-Looking Microwave Radiometer Using Cloud Model

## P13.21 Lei Ji, Wei Li, Heng C. Lei, Wen A. Xiao, Zhen Wang, Jun Zhou

Study on the positioning of sounding ballon drifting in MM5

#### P13.22 Marat Z. Dosaev, Boris Y. Lokshin, Yuri D. Seliutski

On estimation of efficiency of cloud seeding by unguided rockets

#### P13.23 Marc Wüest, Frank G. Wienhold, Ulrich Krieger, Martin Brabec, Thomas Peter

A novel radiosonde payload to study upper tropospheric / lower stratospheric aerosol and clouds

#### P13.24 Maria Fernández-Raga, Ana I. Calvo, Jan J. Keizer, Roberto Fraile

The kinetic energy of rain: application on soil erosion

#### P13.25 Mark Vaughan, Matthew McGill, Zhaoyan Liu, Yongxiang Hu, Ralph Kuehn

Backscatter Color Ratios of Cirrus Clouds Measured by the Cloud Physics Lidar

#### P13.26 Mengistu Wolde, Andrew Pazmany, David Hudak

Observations of supercooled clouds using airborne G-band radiometer and W-band radar

#### P13.27 Mika Komppula, Ronny Engelmann, Holger Baars, Heikki Lihavainen, Dietrich Althausen, Yrjö Viisanen

First results of multi-wavelength lidar measurements close to New Delhi, India

P13.28 Naomi Kuba

Effect of Hygroscopic Seeding on Warm Rain

## P13.29 Ning Luo, Ji F. Wen, Jia Ran

The Observation of Electric Wire Icing and its Weather Condition in Guizhou

#### P13.30 Peter A. Taylor, Mark Gordon, Sergiy Savelyev, P-Y Li, Sumita Biswas

Field studies and modelling of Drifting and Blowing Snow

# P13.31 Qian Chen, Sheng-Jie Niu, Hua-Ying Yu

Z-R Relationships from the Particle Size and Velocity (PARSIVEL) Optical Disdrometer and its Application in Estimating Areal Rainfall

#### P13.32 Qingtao Qing, Hesheng Zhou, Jiandong Feng, Meiting Hou

A Preliminary Analysis of the Feasibility of Cloud Seeding over the Headwaters of the Rivers in China

#### P13.33 Ran Jia, Sheng-Jie Niu, Ning Lou, Ji-Fen Wen

The Relation Between Power Line Icing and Meteorological Conditions in GuiZhou, China

#### P13.34 Richard Cotton, Paul H. Kaye, Edwin Hirst, Jospeh Ulanowski

Performance testing of the Small Ice Detector Mk2 (SID-2) in liquid and ice clouds

#### P13.35 Roger Marchand

A Comparison of Cloud Radar Profiles of Cloud Occurrence with Multiscale Modeling Framework (MMF) Simulated Radar Profiles as a Function of the Large-Scale Atmospheric State

#### P13.36 S.A. Vladimirov

Some numerical experiments on modification of precipitation formation in warm convective clouds by seeding with soluble particles

# P13.37 Sadiel Novo

Radar tracking method for cloud seeding experimental units over Cuba

#### P13.38 Sante Laviola, Vincenzo Levizzani

Rain rate retrieval using the 183-WSL algorithm

#### P13.39 Stewart G. Cober, George A. Isaac

Characterizing Cloud Environments to Support the Development of Aircraft Icing Certification Standards for the Regulatory Authorities

#### P13.40 Thorsten Reinhardt, Susanne Crewell, Christoph Selbach, Veronika Breininger

Evaluation of Regional Precipitation Forecasts Using Multi-Dimensional Remote-Sensing Observations

P13.41 Wiebke Frey, Marian de Reus, Heike Eichler, Rolf Maser, Britta Mey, Manfred Wendisch, Stephan Borrmann

AIRcraft Towed Sensor Shuttle (AIRTOSS): a tandem measurement platform for cloud-radiation studies

#### P13.42 William A. Cooper, Jeffrey K. Stith, David C. Rogers, Jorgen B. Jensen

The NSF/NCAR Gulfstream GV: A New Research Aircraft for Studies of Clouds

#### P13.43 Yil. Wang

Analysis on the Precipitation Enhancement Potential Area of Cyclone

#### P13.44 YuXiang He

Dual-Polarization Radar Retrieval Microphysical Vertical Structure in the Vicinity of the Melting Layer

# P13.45 Zbigniew Ulanowski, Christopher Stopford, Evelyn Hesse, Paul H. Kaye, Edwin Hirst, Richard S. Greenaway, Martin Schnaiter

Small Ice Detector 2: Characterization of Ice Crystals Using Analysis of Azimuthal Scattering Patterns

# P13.46 Zhanyu Yao, Liang Peng

Cloud Liquid Water Retrieval in Non-Precipitating Cloud with Satellite Microwave Data over Henan Region

# P13.47 Zhaorong Li, Tianyu Chen

Recently Water Vapor and Its Transport Features and over East-central Region of Northwest China

- P13.48 Zhien Wang, Perry Wechsler, Jeff French, Alfred Rodi, Samuel Haimov, Gabor Vali, Andrew L. Pazmany The New Integrated Cloud Observation Capabilities of Wyoming King Air by Combining Radar, lidar, Microwave Radiometer and In Situ Measurements
- P13.49 Zhong L. Zhi, Liu L. Ping

A 35-GHz Radar for Cloud and Precipitation Studies in China

# P13.50 J W. Strapp, James T. MacLeod, Lyle E. Lilie, Alexei V. Korolev

Calibration of Ice Water Content in a Wind Tunnel / Engine Test Cell Facility

14:45-16:45		Plenary Oral Session 13: INSTRUMENTATION AND APPLICATIONS OF CLOUD PHYSICS (continued)
		Chairperson: TBD
14:45-15:00	13.8	Laurent Sauvage, Simone Lolli, Patrick Chazette, Joseph Sanak
		An innovative eye safe and compact EZ LIDARTM for Pollution and Cloud monitoring
15:00-15:15	13.9	Jean Pierre Cariou, Rémy Parmentier, Laurent Sauvage, Christine Aussibal
		An operational compact heterodyne pulsed Doppler lidar for high accuracy wind profiling in the boundary layer
15:15-15:30	13.10	Anna K. Jagodnicka, Tadeusz Stacewicz, Grzegorz Karasiński, Michał A. Posyniak
		Simple method of Aerosol Particle Size Distribution retrieving from multiwavelength lidar signals
15:45-16:00	13.11	Scott M. Ellis, Jothiram Vivekanandan
		Cloud Liquid Water Content and particle size Retrievals Using Dual-frequency Radar Measurements
16:00-16:15	13.12	Yasushi Fujiyoshi, Kazuhisa Yamashita, Chusei Fujiwara, Motomi Kikuta, Mikio Nakanishi
		Overview of turbulent and layer structures in the lower troposphere observed by a 3D-scanning Doppler Lidar
16:15-16:30	13.13	Ewan J. O'Connor, Anthony J. Illingworth
		Comparison of observed cloud properties at the COPS AMF site in Germany with their representation in operational models
16:30-16:45	13.14	Uwe Feister, Hans Möller, Theo Sattler, Janet E. Shields
		Comparison of macroscopic cloud data from ground-based measurements using VIS/NIR and IR instruments at Lindenberg, Germany

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