Wednesday  9 July

8:00-10:00  Plenary Oral Session 6: MIXED PHASE CLOUDS

Chairperson: TBD

8:00-8:15  6.1 Invited: Andrew Heymsfield, Paul Field, Dave Rogers, Jeffrey Stith, Jeffrey French, Samuel Haimov, Paul DeMott
Ice Initiation in Mixed-Phase Orographic Wave Clouds during ICE-L

8:15-8:30  6.2 Chris D. Westbrook, Anthony J. Illingworth, Ewan J. O’Connor, Robin J. Hogan
Investigating mixed-phase cloud microphysics using Doppler lidar and radar

8:30-8:45  6.3 Keith N. Bower, Thomas W. Choularton, Paul Connolly, Jonathan Crosier, Hugh Coe, Martin W. Gallagher, William Morgan
Aerosol Impacts on the Microphysics of Mixed Phase Cloud

8:45-9:00  6.4 Alexei Korolev
Rates of the Phase Transformation in Mixed phase Clouds

9:00-9:15  6.5 Masataka Murakami, Narihiro Orikasa
How does Asian dust storm affect the microphysical structures of orographic snow clouds?

9:15-9:30  6.6 Monika E. Bailey, George A. Isaac, Stewart G. Cober, Alexei V. Korolev, J W Strapp
Vertical Profiles in Freezing Precipitation from In-Situ Measurements in Winter Stratiform Clouds

9:30-9:45  6.7 Takuya Tajiri, Katsuya Yamashita, Masataka Mukarami, Narihiro Orikasa, Atsushi Saito, Tomohiro Nagai, Tetsu Sakai,
Laboratory experiments of mixed-phase cloud formation

9:45-10:00  6.8 Anthony E. Morrison, Steven T. Siems, Michael J. Manton, Alex Nazarov
On the evaluation of the WRF model’s ability to represent mixed phase clouds over the Southern Ocean

10:00-10:30  Coffee Break

10:30-12:15  Plenary Oral Session 7: SEVERE STORMS

Chairperson: TBD

10:30-10:45  7.1 Invited: Tsutomu Takahashi
Videosonde studies of ice crystals in tropical clouds and precipitation particle evolution in rainbands and squall lines

10:45-11:00  7.2 Tetsuya Takemi
Environmental stability control of the precipitation structure and intensity in convective systems

11:00-11:15  7.3 Robert M. Rauber, Andrea Smith, Greg M. McFarquhar, Joseph A. Grim, Michael Timlin, Brian F. Jewett, David P. Jorgensen
Microphysical and Thermodynamic Structure and Evolution of the Trailing Stratiform Regions of Mesoscale Convective Systems during BAMEX

11:15-11:30  7.4 Brian W. Goldberg
Causes of the Boscastle extreme rainfall event in August 2004

11:30-11:45  7.5 Daniel Rosenfeld
Anthropogenic aerosols invigorating hail storms

11:45-12:00  7.6 Ricardo Hallak, Jorge A. Martins, Leila D. Martins, Edmilson D. de Freitas, Caroline Mazzoli da Rocha, Augusto Pereira Filho
High-resolution numerical simulation of thunderstorms and the low-level water vapor spatial distribution role in convection initiation

12:00-12:15  7.7 Vlado Spiridonov, Sampan Thaikruawan, Mladjen Curic
Numerical simulations of severe tropical and continental storm
12:15-13:15 Buffet Lunch

13:15-14:30 Poster Session P6: MIXED PHASE CLOUDS

Chairperson: TBD

P6.1 Anatoly N. Nevzorov
Some peculiarities of freezing of metastable water, influencing cloud ice development

P6.2 André Ehrlich, Manfred Wendisch, Eike Bierwirth, Jean-Francois Gayet, Guillaume Mioche, Astrid Richter, Roland Neuber
Measurements of cloud top reflectance over Arctic mixed-phase clouds

P6.3 Axel Seifert, Susanne Crewell
A revised cloud microphysical parameterization for operational numerical weather prediction using the COSMO model

P6.4 Boryana Tsenova, Rumjana Mitzeva, Clive Saunders
Parameterization of thunderstorm charging including the cloud saturation effect

P6.5 Bruce Gandrud, Darrel Baumgardner, Andrew Heymsfield, David Rogers, Jeff Stith, Cynthia Twyoby
Ice cloud performance of the Cloud Droplet Probe during ICE-L

P6.6 Chao-Tzuen Cheng, Wei-Chyung Wang, Jen-Ping Chen
Simulations of the Effects of Cloud Condensation Nuclei on Precipitations in Convection Systems

P6.7 Darrel Baumgardner, Gregory L. Kok
Droplet Freezing and Signs of Small Scale Particle Clustering in Mountain Wave Clouds

P6.8 David C. Rogers, Paul J. DeMott, Andrew Heymsfield, Jeffrey Stith
Airborne Measurements of Ice Concentrations in Wave Clouds

P6.9 Laurent Deguillaume, Maud Leriche, Marie Monier, Francois Champeau, Nadine Chaumerliac
Modeling physicochemical processes involved in cloud formation to study their impacts on the evolution of atmospheric chemical composition

P6.10 Gerardo Montoya
A Comparative Analysis of the Rain predicted in the Northern South America Using Two Moment Ice and Rain Microphysical scheme

P6.11 Gijs de Boer, Tempei Hashino, Gregory J. Tripoli, Edwin W. Eloranta
On Immersion Freezing as a Nucleation Mechanism in Mixed-Phase Stratus

P6.12 Gong D. Li
The Numerical Analysis About Water Vapor Budget and Transform During a Spring Heavy Rain Process in Shandong Region in China

P6.13 Gong Zhang, Greg M. McFarquhar
Cloud microphysical properties of arctic mixed-phase stratus: impacts on surface radiation

P6.14 Gregory Thompson, William Cooper, Paul DeMott, Roy M. Rasmussen
Sensitivities of ice nucleation to dust/mineral aerosol particles and application to mesoscale numerical weather prediction of cloud systems observed during PACDEX and ICE-L

P6.15 Ji F. Wen, Ning Luo, Lei Meng
The microphysical characteristics of fog in the rime and glaze

P6.16 Jiwen Fan, Mikhail Ovtchinnikov, Jennifer Comstock, Alexander Khain
Modeling Mixed-Phase Arctic Clouds and Associated Ice Formation

P6.17 Johanne Gabrielle Dorais, Éric Girard, Ping Du
Evaluation of four bulk microphysics schemes for the simulation of arctic mixed-phase clouds observed during M-PACE

P6.18 John Hanesiak, Ronald Stewart, Kent Moore, Peter Taylor, Mengistu Wolde, Walter Strapp
Storm Studies in the Arctic (STAR): Preliminary Results
P6.19  Julie Cozic, Bart Verheggen, Ernest Weingartner, Urs Baltensperger, Stephan Mertes, Keith Bower, Dan Cziczo
Partitioning of Aerosol Particles in Mixed-Phase Clouds at a High Alpine Site

P6.20  Liang Liao, Robert Meneghini
Simulations of Radar Signatures in Melting Layer

P6.21  Narhiro Orikasa, Masataka Murakami, Atsushi Saito
Characteristics of orographic mixed-phase clouds during JCSEPA field campaigns

P6.22  Ning Luo, Ji F. Wen, Ai L. Min, Sheng J. Niu
Doppler radar echo analysis on a typical stratiform and convective mixed precipitation system in Guizhou

P6.23  Paquito Zuidema, Paul Lawson, Brad Baker, Bryan Pilson, Qizu Mo
In-situ and remote observations of Arctic July ice and mixed-phase clouds during SHEBA

P6.24  Patric Seifert, Albert Ansmann, Ina Mattis, Detlef Mueller, Ulla Wandinger
10 years of lidar observations of mixed phase clouds with focus on temperature and aerosol properties

P6.25  Paul J. DeMott, Anthony Prenni, Cynthia Twomey, Jeffrey Stith, David Rogers, Andrew Heymsfield, Sonia Kreidenweis
Ice Nuclei Measurements in Clean Through Perturbed Aerosol Conditions: Results from PACDEX and ICE-L

P6.26  Paul R. Field, ICE-L science team
Contrasting the heterogeneous ice nucleation in two lee wave clouds observed during the ICE-L campaign

P6.27  Ping Du, Eric Girard, Johanne Dorais
Simulations of Mixed-Phase Clouds observed during SHEBA : Evaluation of four bulk microphysics schemes

P6.28  Roy M. Rasmussen, Greg Thompson, Kyoko Ikeda
Simulation of Freezing Drizzle Formation in Extratropical Cyclones during IMPROVE II

P6.29  Takuya Tajiri, Katsuya Yamashita, Masataka Murakami, Narhiro Orikasa, Atsushi Saito, Tomohiro Nagai, Tetsu Sakai
Laboratory simulations of mixed-phase clouds and nucleated ice crystals detection

P6.30  Trude Storelvmo, Jon Egill Kristjansson, Ulrike Lohmann
Modeling of the Wegener-Bergeron-Findeisen effect for global climate models

P6.31  Vaughan T. Phillips, Constantin Andronache
Effects from dust and soot on the glaciation and precipitation production of convective clouds in a tropical Atlantic hurricane

P6.32  Victor C. Zarrellaqui, Guillermo Montero-Martinez, Ernesto Caetano, Fernando Garcia-Garcia
An analysis of TRMM data for single precipitation events in the Mexico Basin.

P6.33  Wang Jia, Bai K. Wa, Wang K. Fa, Zong P. Cheng
Analysis on cloud seeding experiment and physical process of an artificial rain dispersal experiment by numerical simulation

P6.34  Wolfram Wobrock, Céline Planche, Delphine Leroy, Andrea I. Flossmann
Comparison between radar and disdrometer measurements and precipitation fields simulated by a 3D cloud model with detailed microphysics for a medium convective case in the Cévennes region

P6.35  Yann Dufournet, Christine Unal, Herman Russchenberg
Towards the retrieval of ice crystals properties within mixed-phase clouds using dual polarization spectral radar measurements

P6.36  Yue Chen, Tian-Yu Chen, An-Ping Sun
Design and Implement of Orographic Clouds Field Observation in a China NSFC Key Program

P6.37  Yue Q. Shi, Xiao F. Lou, Xue J. Deng
Mesoscale and Microscale Simulations of Cold Front Clouds in South China

P6.38  Zhiqiang Cui, Keneth Carslaw, Alan Blyth
Cloud Resolving Model with Bin-resolved mixed-phase microphysics
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The Application of New Generation Weather Radar in Weather Modification in Tianjin

Ulrich C. Blahak
Towards a better representation of high density ice particles in a state-of-the-art two-moment bulk microphysical scheme

Xiaofeng Lou, Guanfang He, Zhijin Hu
The mitigation of heavy rainfall with seeding simulations

Zhimin Zhou, Xueliang Guo
A 3D modeling study on multi-layer distribution and formation mechanism of electrical charging in a severe thunderstorm

**Poster Session P8: CLOUDS AND CLIMATE**

Chairperson: TBD

P8.1 Cyril J. Morcrette
Evaluation of a GCM prognostic cloud scheme using CRM data.

P8.2 Guang J. Zhang, Xiaoliang Song
Understanding the Causes of Double ITCZ in NCAR CCSM3

P8.3 Ulrike Lohmann, Daniel Rosenfeld,
Global effects of anthropogenic aerosols on precipitation

Johannes Quaas
Clouds in the ECHAM5 GCM

P8.5 Yangang Liu, Peter H. Daum, Seong S. Yum, Jian Wang
Use of Microphysical Relationships to Discern Growth/Decay Mechanisms of Cloud Droplets

P8.6 Johannes Karlsson, Gunilla Svensson
The simulation of Arctic clouds and their radiative properties for present-day climate in the CMIP3 multi-model dataset.

P8.7 Huiwen Xue, Graham Feingold, Hailong Wang, Bjorn Stevens
A Study of Aerosol Effects on the Development of Trade Cumulus Clouds Using Large Eddy Simulations

P8.8 Hélène Chepfer, Sandrine Bony, Marjolaine Chiriaco, Jean-Louis Dufresne, Geneviève Sèze, Dave Winker
Use of CALIPSO lidar observations to evaluate the cloudiness simulated by a climate model

P8.9 Li Juan, Mao J. Tai, Yang l. Ying
Influence of atmospheric ice nucleus concentrations on cold cloud radiant properties and cold cloud reflectivity changes in past years

P8.10 Hee-Jung Yang, Greg M. McFarquhar, Chris A. Hostetler, Richard A. Ferrare
Effects of dust layer on trade wind cumuli over the Gulf of Mexico: a modeling and observational study

P8.11 Xiaojing Wu, Liping Deng
Effects of Cloud Systems on MJO and ENSO in a Coupled Climate Model

P8.12 Samantha Melani, Andrea Antonini, Massimiliano Pasqui, Alberto Ortolani, Vincenzo Levizzani, Roberto Ginnetti
A satellite and model study of rainfall associated with the West African Monsoon

P8.13 Igor I. Mokhov, Alexander V. Cheremukhov, Mirseid G. Akperov, Herve Le Treut
Cloudiness and cyclonic activity intercomparison in the Northern Hemisphere extratropics by satellite and reanalysis data and from model simulations

P8.14 Boris Y. Grits, Anthony S. Wexler
Variable Moment General Dynamic Equations for Global and Regional Aerosol Modeling

P8.15 Libor Hejkrlik
Analysis of lunar variation of precipitation on various time scales

P8.16 Dennis L. Hlavka, Lin Tian, William Hart, Libua Li, Matthew McGill, Gerald Heymsfield
Vertical Cloud Climatology during TC4 Derived from High-Altitude Aircraft Lidar+Radar

14:30-16:30 Plenary Oral Session 8: CLOUDS AND CLIMATE
Chairperson: TBD

14:30-14:45 8.1 Invited: George A. Isaac, Ismail Gultepe, Alexei V. Korolev, Faisal S. Boudala, Stewart Cober
In-Situ Cloud Measurements and Climate Models

14:45-15:00 8.2 John Latham, Jack Chen, Philip Rasch, Laura Kettles, Alan Gadian, Keith Bower, Tom Choularton
Negative Forcing Resulting from Enhancement of CCN Concentrations in Marine Stratocumulus Clouds: Application to Global Warming Mitigation Scheme

15:00-15:15 8.3 Rhea George, Robert Wood
The influence of aerosols on cloud properties and albedo variability in the Southeast Pacific

Characteristics of the Boundary-layer Clouds in a Global 14 km-mesh Experiment by NICAM

15:30-15:45 8.5 Brian E. Mapes
A global survey of the cloud systems sampled by CloudSat

15:45-16:00 8.6 Trude Storelvmo, Ulrike Lohmann
Aerosol influence on clouds and precipitation in EC-EARTH

16:00-16:15 8.7 Surabi Menon, Susanna Bauer, Dorothy Koch, Robert McGraw, Igor Sednev
Effects of cloud nucleation schemes on cloud properties, precipitation and climate

16:15-16:30 8.8 Richard M. Forbes
Parameterization of cloud from global NWP to climate model resolution

END OF SESSIONS

17:30-24:00 Ferry to Isla Mujeres, dinner and party at the beach

17:30-24:00