Tuesday	8 July

8:00-10:00		Plenary Oral Session 3: CONVECTIVE CLOUDS
		Chairperson: Andrea Flossmann
8:00-8:15	3.1	Invited: Mary C. Barth, Christelle Barthe, William Skamarock, Morris Weisman
		Effect of Deep Convection on Chemical Species Transport, Sources, and Scavenging in the Central US
8:15-8:30	3.2	Katrin Lehmann, Holger Siebert, Raymond A. Shaw
		Observations of Homogeneous and Inhomogeneous Mixing in Warm Cumulus Clouds
8:30-8:45	3.3	John H. Marsham, Keith A. Browning, Alan M. Blyth, Doug J. Parker, Peter . Clark, Humphrey W. Lean
		The initiation of deep convection from boundary-layer rolls observed during CSIP
8:45-9:00	3.4	Wiebke Deierling, John Latham, Walter A. Petersen, Scott Ellis, Hugh. Christian
		Field determination of the masses and mass fluxes of ice and liquid water in thunderclouds, from lightning measurements
9:00-9:15	3.5	Clelia Caracciolo, Franco Prodi, Leo Pio D'Adderio, Eckhard Lanzinger
		Precipitation type and rainfall intensity from the Pludix disdrometer
9:15-9:30	3.6	Anders Engström, Annica M. Ekman, Radovan Krejci, Johan Ström, Marian. de Reus, Chien Wang
		Observational and Modelling Evidence of Tropical Deep Convective Clouds as a Source of Mid-Tropospheric Accumulation Mode Aerosols
9:30-9:45	3.7	Minakshi Devi, Ananda K. Barbara, Manoj Saikia
		Precipitation and cloud feature received at subtropical environment by portable Lidar
9:45-10:00	3.8	Vincenzo Levizzani, Francesca Pinelli, Roberto Ginnetti, Samantha Melani, Massimiliano. Pasqui, Arlene Laing, R. E. Carbone
		Variability of warm season convective clouds over Europe and the Mediterranean

40.00.40.00	
10:00-10:30	Coffee Break

10:30-12:15		Plenary Oral Session 3: CONVECTIVE CLOUDS (continued)
		Chairperson: Andrea Flossmann
10:30-10:45	3.9	Irina Sandu, Jean-Louis Brenguier, Olivier Geoffroy, Odile Thouron, Valery. Masson
		Sensitivity of the marine Stratocumulus Diurnal Cycle to the Aerosol Loading
10:45-11:00	3. 10	Wei-Chun Hsieh, Athanasios Nenes, Haflidi Jonsson, Richard C. Flagan, John. Seinfeld
		On the Representation of Droplet Coalescence and Autoconversion for Realistic Cloud Size Distributions
11:00-11:15	3.11	Zbigniew P. Piotrowski, Szymon P. Malinowski, Piotr K. Smolarkiewicz
		On Numerical Realizability of Thermal Convection
11:15-11:30	3.12	Axel Seifert, Michael Baldauf, Klaus Stephan, Ulrich Blahak, Klaus. Beheng
		The challenge of convective-scale quantitative precipitation forecasting
11:30-11:45	3.13	Paola V. Salio, Luciano Vidal, Edward Zipser, Chuntao Liuct
		Convective systems structure over Southeastern South America using TRMM observations
11:45-12:00	3.14	Simon Caine, Steven Siems, Christian Jakob, Peter May
		Objective Classification of Precipitating Convective Regimes Using a Weather Radar in Darwin (Australia)
12:00-12:15	3.15	Sonia Lasher-Trapp, William A. Cooper, Alan M. Blyth
		Entrainment and Mixing Effects on Droplet Coalescence in a Simulated Cumulus Cloud

12:15-13:15 Buffet Lunch

P3.17 Elena Kortchagina, Alexander Shapovalov

P3.18 Elena N. Stankova

# 13:15-14:45 Poster Session P3: CONVECTIVE CLOUDS Chairperson: TBD Alessandra S. Lanotte, Agnese Seminara, Federico Toschi P3.1 Broadening of cloud droplets condensational spectrum by turbulence P3.2 Andrew Russell, Geraint Vaughan Convective intensification induced by a descending dry layer: a case study of CSIP IOP 9 P3.3 Andrew Russell, Geraint Vaughan Convective inhibition beneath an upper-level PV anomaly P3.4 Andrew Russell, Geraint Vaughan An examination of capping inversions during COPS P3.5 Bai Kawa, Wang Jia, Wang K. Fa, Zong P. Cheng Analysis on the 2004 Jiangsu temperature decrease by rocket artificial enhance precipitation P3.6 Baojun Chen Numerical Simulation of Hail Formation and Growth in a Storm with Low Supercooled Rain Water Content and the Effect of AgI Seeding on Hail Suppression P3.7 Barbi Adriano, Gabriele Formentini, Marco Monai The 26th September 2007 Venice extreme convective rainfall event P3.8 Boryana Tsenova, Staytcho Kolev Climatical study of the relationships between thunderstorms lightning activity and the environmental conditions over western Bulgaria Carlos Alberto Perez Sanchez, Daniel Martinez Castro, Victor V. Petrov, Boris P. Koloskov, Felix Gamboa An exploratory analysis of the potential for rainfall enhancement in the randomized convective cold cloud seeding experiment in extended areas in Cuba (EXPAREX) P3.10 Changhai Liu, Xianfang Ma, Roy Rasmussen, Xiaodong Liu, Kyoko Ikeda, Ulrich Blahak A Cloud-Resolving Modeling Study of Aerosol Impacts on Convective Cloud Systems P3.11 Chiel C. van Heerwaarden, Jordi Vila-Guerau de Arellano2 Potential cloud formation over heterogeneous land surfaces P3.12 Christelle Barthe, Mary Barth Evaluation of the uncertainties associated to an improved lightning-produced NOx parameterization in a cloud-resolving model P3.13 Danhong Fu, Xueliang Guo, Changhai Liu Rainfall Processes and Cloud Microphysics of Monsoon Convective System over the South China Sea P3.14 Daniel P. Grosvenor, Thomas W. Choularton The effect of overshooting deep convection on the water content of the TTL and lower stratosphere from Cloud Resolving Model simulations. P3.15 Daniel Tang, Steven Dobbie A novel approach to the parameterisation of moist convection. P3.16 Dorota Jarecka, Wojciech W. Grabowski, Hanna Pawlowska Modeling of subgrid-scale mixing in large-eddy simulation of shallow convection

On the Role of the Algorithm of Convective Cloud Lower Boundary Determination for Dangerous Convective Event Forecast and Numerical Simulation of Convective Clouds

Research on interaction of microphysical and electric processes in cumulus clouds: numeric simulation.

#### P3.19 Ganna Pirnach, Vitalii Shpyg

Numerical study of convective supercell events observed in Crimea

### P3.20 Graciela B. Raga, Darrel Baumgardner

Precipitation from tropical clouds sampled during EPIC2001

#### P3.21 Grant Allen, Peter May, Geraint Vauhan, Dominik Brunner, William Heyes

Observations of a deep tropopause fold over Darwin during the ACTIVE aircraft campaign- Implications for tropical convection

### P3.22 Guillaume Penide, Vincent Giraud, Christophe Duroure, Alain Protat

Numerical Simulation of the Dynamics, Cloud Microphysics and radiative forcing of an anvil-cirrus cloud observed during AMMA

#### P3.23 Guoqing Zhang

Diurnal changes and formation mechanism of summer orographic cloud on the southern slope of Qilian Mountains

#### P3.24 Heike Noppel, Alexander Khain, Andrei Pokrowsky, Ulrich Blahak, Klaus Beheng

How well can a bulk scheme reproduce the microphysical processes within a convective storm? - Comparison to a spectral bin model

#### P3.25 Haojuan Huang, Ming Wei

The Mechanism and Echo Analysis of the Hail Storm Moving and Evolution on Yachi River in Guizhou Province

#### P3.26 Hua-Ying Yu, Sheng-Jie Niu, Ming-Zhu Liang, Ming Wei, Song-Shan Gu

Comparison of the Cloud Water Content Retrieved by Radar and from Numerical

#### P3.27 Hugh Morrison, George Bryan, Greg Thompson

Impact of cloud microphysics on the development of trailing stratiform precipitation in squall lines

#### P3.28 Ji F. Wen, Ning Luo, Hao J. Huang, Yi Xu

Numerical study of convective cloud by rain enhancemente

### P3.29 Jiapeng Li, Yan Yin

Sensitivity Experiment of Simulations of Tropical Deep Convection to the PBL Parameterizations

# P3.30 Jiming Sun, Parisa A. Ariya, Henry G. Leighton, M.K. P. Yau

The mystery of ice multiplication process in warm-based cumulus clouds: Importance of bioaerosols as a trigger

### P3.31 Jiming Sun, Parisa A. Ariya, Henry G. Leighton, M.K. P. Yau

A new perspective on the broadening mechanism of cloud droplet spectra in cumulus clouds

### P3.32 Joanna Slawinska, Wojciech W. Grabowski, Hugh Morrison

Indirect impact of atmospheric aerosols on deep organized convection: results from a prescribed-flow model with a two-moment bulk microphysics scheme

### P3.33 Joël Arnault, Frank Roux

Evolution of AEWs and MCSs off West Africa observed during AMMA SOP-3 in September 2006

### P3.34 Joerg Trentmann, Axel Seifert, Heini Wernli

Convective Cloud Microphysics in a high-resolution NWP model

#### P3.35 Joerg Trentmann, Peter Knippertz, Axel Seifert

Density Currents in the Sahara - Sensitivity to evaporation of raindrops

#### P3.36 Jorge L. Gomes, Sin C. Chou

Convective and stratiform precipitation partition dependence on horizontal resolution

### P3.37 Justin R. Peter, Peter T. May, Roelof T. Bruintjes, Daniel W. Breed, Michael Manton

Radar observations of the initiation of precipitation in seeded and non-seeded warm continental cumulus clouds

### P3.38 Kazuaki Yasunaga, Akihiro Hashimoto, Masanori Yoshizaki

Numerical simulations of the formation of melting-layer cloud

#### P3.39 Koloskov Boris, Strunin Mikhail, Petrov Victor, Castro Daniel, Perez Carlos

Fine dynamic structure of cumulus clouds based on the complex aircraft experiment over Cuba in 2006 - 2007

### P3.40 Kyoko Ikeda, Changhai Liu, Lulin Xue, Roy M. Rasmussen

Investigation of the Dependence of Squall Line Structure and Dynamics on Microphysical Parameterization

#### P3.41 Lin Y. Li

Summer convective cloud precipitation resources analysis

#### P3.42 Liu G. Hua, Yu Xing, Dai Jin, Daniel Rosenfeld

Satellite retrieval of microphysical processes for a hail

#### P3.43 Luiz A. Machado, Rafael C. Martins

Convective Clouds Characteristics in the Southwestern Amazonia during wet and the pre-wet season.

#### P3.44 Marcela M. Torres Brizuela, Matilde Nicolini

On the genesis and evolution of a Bow-echo structure over northeastern Argentina

#### P3.45 Maria Eugenia B. Frediani, Carlos A. Morales

Description of the cloud hydrometeors observed in the Amazon region during the wet and dry seasons.

#### P3.46 Mariko Oue, Hiroshi Uyeda, Yukari Shusse

Characteristics of precipitation physics in the convective cells in a humid environment

#### P3.47 Mark Pinsky, Nir Benmoshe, Alexander Khain

Large scale turbulent intermittency in convective and stratiform clouds

### P3.48 Matilde Nicolini, Yanina García Skabar

Convection genesis and mesoscale circulations over Argentina during summer

# P3.49 Mladjen Curic, Dejan Janc, Vladan Vuckovic, Nemanja Kovacevic

The sensitivity of microphysics and dynamics of simulated convective storm due to the altered cloud drop size distribution

# P3.50 Nianchong Jiang, Juan Liu, Wen Hu, Hai Lu, Zizhong Song

Radar Echo Characteristics of Summer Meso-y Scale Convective Clouds in Anhui, China

### P3.51 Nir Benmoshe, Mark Pinsky, Alexander Khain

Does turbulence control the rain formation in convective clouds?

### P3.52 Odile Thouron, J-L Brenguier, Frederic Burnet, Irina Sandu

Parameterization of mixing in boundary layer clouds

#### P3.53 Paul A. Kucera, Andrew J. Newman, John C. Gerlach

Evaluation of Precipitation Characteristics Observed in Panama during TC4

#### P3.54 Paul Schultz, Isidora Jankov

Experiments on the sensitivity of 1-hour QPF to initialization of deep convection

# P3.55 Paul T. Willis, Andrew J. Heymsfield, Aaron Bansemer, Brian Pilson

The microphysics near the freezing level in an oceanic convective complex

### P3.56 Paulo R. Bastos, Sin C. Chou

Evaluation of Eta Model forecasts with parameterized convective momentum fluxes for a rainy season in Southeast Brazil

### P3.57 Philip R. Brown, Richard Cotton, Richard Forbes, Yahui Huang, Alan Blyth, Paul Connolly

Ice and Precipitation Development in UK Summertime Cumulus: Observations and Hig h-Resolution NWP Studies.

### P3.58 Pradeep K. Pallath, Baban P. Nagare

Cloud Top Temperatures, rainfall and lightning during active and break monsoon period over a selected Indian region.

### P3.59 Rafael C. Martins, Luiz Augusto T. Machado

Characterization of microphysics of the precipitation in Amazon region using radar and disdrometer data

### P3.60 Renmao Tang, Jianyuan Ye, Yuchun Xiang, Yanjiao Xiao, Jian 1. Liu, Zhengteng Yuan, Yingying Chen

A Preliminary Study on the Techniques of Convective Clouds Rainfall Enhancement Seeding Effect Test

#### P3.61 Romanov Nickolay

Comparison of Calculational and Experimental Laws of Cloud Microstructure Formation

#### P2.62 Ruiyu Sun, Steven K. Krueger

Mesoanalysis of the Interactions of Precipitating Convection and the Boundary Layer

#### P3.63 Tanja Weusthoff, Thomas Hauf

Universal functions for post-frontal showers - geometrical characteristics and rain rate development

### P3.64 Tomoki Ushiyama, K K. Reddy, Hisayuki Kubota, Kazuaki Yasunaga, Ryuichi Shirooka

DSD Variability in Palau in the Western Tropical Pacific

#### P3.65 TuanJie Hou, Heng C. Lei

A modeling study of the relationship between electrification and microphysics in a typical thunderstorm

#### P3.66 Ulrich C. Blahak

Idealized Numerical Sensitivity Studies on Shallow-Convection-Triggered Storms

#### P3.67 Vaughan T. Phillips, Constantin T. Andronache

Aerosol Effects on Cloud Properties in a Deep Convective Ensemble

### P3.68 Vlado P. Spiridonov, Sampan Thaikruawan, Mladjen Curic

The use of cloud-scale model in quantitative heavy rainfall forecast on tropical strom

#### P3.69 Wagner F. Lima, Luiz A. Machado

Characteristics of Cloud top features using multispectral satellite data.

### P3.70 Winfried Straub, Jan Schlottke, Klaus D. Beheng, Bernhard Weigand

Numerical Investigation of Collision-Induced Breakup of Raindrops. Part II: Parameterizations of Fragment Size Distributions and Coalescence Efficiencies

### P3.71 Xiao-Li Liu, Sheng-Jie Niu

Numerical Simulation of the Evolution of Particles in a Convective Cloud Using Bin Spectral Microphysics

#### P3.72 Xiaoqing Wu, Sunwook Park

Year-long Cloud-Resolving Model Simulations of Midlatitude Cloud Systems

# P3.73 Xiaowen Li, Wei-Kuo Tao, Alexander Khain, David Atlas

 $Rain\ DSD\ Simulated\ by\ a\ Cloud-Resolving\ Model:\ Validations\ and\ Applications$ 

# P3.74 Yahui Huang, Alan Blyth, Phil Brown, Paul Connolly, Tom Choularton, Hazel Jones

Case Studies of the Development of Ice and Precipitation in UK Cumulus Clouds during ICEPIC

### P3.75 Yan-Wei Li, Sheng-Jie Niu, Ning Luo, Ji-Fen Wen, Hao-Jun Huang

Numerical Simulation of a Mixed Convective and Stratiform Cloud System in Guizhou Province

#### P3.76 You W. Wu

Statistical Method Research of Ground Random Seeding Effectiveness on Convective Cloud in Jiangxi, China

### P3.77 Yuchun Xiang, Renmao Tang, Janyuan Ye, Jian Liu, Zhengteng Yuan

A Detective Analysis on the Effect of A Seeding Experiment on Convective Cloud

#### P3.78 Yunfei Fu, Qi Liu, Ling Sun, Yu Wang

Summer Convective over the Tibetan Plateau as viewed by TRMM PR in Recent Ten Years

# P3.79 Zhi-Guo Yue, Sheng-Jie Niu, Gu Liang

Organizational Models and Disaster Analyses of Mesoscale Convective Systems in the Weibei Region of Shaanxi Province

#### P3.80 Zhou Lina

The research of the hail weather of Guizhou province in China

#### P3 81 Zlatko Vukovic

The forecast errors of GEM and RUC models for convective and non-convective days

13:15-14:45 Poster Session P4: RICO

#### P4.1 Dan K. Arthur, Sonia Lasher-Trapp, Ayman Abdel-Haleem, David S. Ebert

A New Three-Dimensional Visualization System for Combining Aircraft and Radar Data and its Application to RICO Observations

Chairperson: TBD

#### P4.2 David B. Mechem, Yefim L. Kogan

Scalings for precipitation and coalescence scavenging obtained from simulations of trade cumulus

#### P4.3 Hilary A. Minor, Robert M. Rauber, Sabine Goeke, Matt Freer

Pulsation of Trade Wind Clouds and Effects on Precipitation Development

#### P4.4 Jennifer L. Bewley, Sonia Lasher-Trapp

The Effects of Entrainment and Mixing on Droplet Populations: A Comparison of Numerical Modeling and Aircraft Observations

#### P4.5 Jennifer L. Davison

Moisture Variability in Tradewind Cloud Layers and Potential Effects on Cloud Structure

#### P4.6 Laurent Gomes, Olga L. Mayol-Bracero, Flavia Morales, Göran Frank, Justin Lingard

Anthropogenic and mineral dust aerosols over the western Atlantic Ocean and their role in regulating cloud condensation nuclei

### P4.7 Louise Nuijens, Bjorn Stevens, A. P. Siebesma

On the chances of getting wet...

### P4.8 Marilé Colón-Robles, Jorgen B. Jensen, Robert M. Rauber, James G. Hudson

Role of the Caribbean Trade Wind Cumuli in the evolution of the "complete" aerosol spectra

### P4.9 Marilé Colón-Robles, Robert M. Rauber, Jorgen B. Jensen, Larry Di Girolamo

Aerosol size distribution variability near Caribbean Trade Wind Cumulus Clouds

### P4.10 Panu Trivej, Bjorn Stevens

The Power Law and the Scale Break in the Echo Size Distribution over the Barbuda Island.

#### P4.11 Peter Bogenschutz, Steven Krueger, Brad Baker, Hermann Gerber

GCSS Precipitating Shallow Cumulus Case: Comparison to RICO Aircraft Observations

#### P4.12 Shaunna L. Donaher, Bruce Albrecht, Sara Tucker, Alan Brewer, Christopher Fairall

Boundary Layer Structure and Turbulence Associated with Fair Weather Cumulus Clouds During RICO 2005

### P4.13 Steven Abel, Ben Shipway, Chris Smith

A comparison of cloud resolving model simulations of trade wind cumulus with aircraft observations taken during RICO

Adriana Gioda, Olga L. Mayol-Bracero, Gabriel José Reyes-Rodriguez, Gilmarie Santos-FigueroaRicardo J. Morales-De Jesús, Jeff Collett,

Chairperson: TBD

#### P4.14 Stefano Decesari

Cloud water and precipitation chemistry in a tropical forest in Puerto Rico, during the Rain In Cumulus over the Ocean Experiment (RICO)

13:15-14:45 Poster Session P5: CIRRUS CLOUDS

The properties of low latitude tropopause subvisible cirrus

### P5.2 Chris D. Westbrook, Robin J. Hogan, Anthony J. Illingworth

The capacitance of realistic ice particles

#### P5.3 David Starr, Tamara Singleton, Ruei-Fong Lin

Role of gravity waves in determining cirrus cloud properties

#### P5.4 Dennis Lamb, Alfred M. Moyle, Jerry Y. Harrington, Lindsay M. Sheridan

Microphysical Roots of Cirriform Clouds: Role of Crystal-growth Kinetics

#### P5.5 Donifan Barahona, Athanasios Nenes

Parameterization of Cirrus Cloud Formation in Large Scale Models: Homogeneous Nucleation.

### P5.6 Erin K. Nugent, Steven P. Neshyba, Pavel Jungwirth

Molecular dynamics simulations of cirrus-like ice crystal growth and sublimation.

#### P5.7 Hanna Joos, Peter Spichtinger, Ulrike Lohmann

Orographic Cirrus in the Global Climate Model ECHAM5

#### P5.8 Iulia V. Gensch, Darrel Baumgardner, Robert L. Herman, Paul Lawson, Peter Popp, Jessica B. Smith, Martina Krämer

Microphysics, supersaturations and nitric acid in Arctic, mid-latitude and tropical cirrus clouds: modeling-observations closure studies

#### P5.9 Junshik Um, Greg M. McFarquhar, Matt Freer

Microphysical characteristics of tropical cirrus from the 2006 Tropical Warm Pool International Cloud Experiment

#### P5.10 Kerry G. Meyer, Steven Platnick, Ping Yang, Bo-Cai Gao

Retrieving Cirrus Cloud Optical Thickness Using MODIS 1.38-µm Reflectance Observations

#### P5.11 M. de Reus, A. Bansemer, W. Frey, A. J. Heymsfield, C. Schiller, N. Sitnikov, S. Borrmann

In-situ measurements of ice crystals in the tropical stratosphere

### P5.12 Martina Kraemer, Cornelius Schiller, Ottmar Moehler, Volker Ebert, Nikolay Sitnikov, Marian de Reus, Peter Spichtinger

Supersaturations in cirrus: field and laboratory observations

# P5.13 Narihiro Orikasa, Tetsu Sakai, Masataka Murakami, Atsushi Saito, Takuya Tajiri, Katsuya Yamashita, Tomohiro Nagai

Balloonborne observation of cirrus cloud particles and aerosols measured with hydrometeor videosonde, Snow White hygrometer, and optical particle counter

#### P5.14 Paul J. Connolly, Andrew Heymsfield, Geraint Vaughan, Tom Choularton

Observations of aerosols within tropical anvil clouds

### P5.15 Peter Spichtinger, Piotr K. Smolarkiewicz

Turbulence in cirrus clouds

### P5.16 Ruben Rodriguez De Leon, David S. Lee, Martina Kramer, Jean Claude Thelen

A sensitivity study on linear-contrail global radiative forcing

### P5.17 Ruei-Fong Lin, Jennifer M. Comstock, David O. Starr

Estimation of deposition rate in cirrus using Raman lidar and cloud radar

### P5.18 Subhashree Mishra, David L. Mitchell, Daniel DeSlover, Greg McFarquar

Ground Based Remote Sensing of Small Ice Crystal Concentrations in Arctic Cirrus Clouds

### P5.19 Tian Lin, Gerry Heymsfield, Liao Liang, Lihua Li

Convective- generated cirrus observed by CRS and EDOP during TC4

#### P5.20 Vincent Giraud, Guillaume Penide, Artemio Plana-Fatorri, Philippe Dubuisson, Alain Protat, Jacque Pelon

Mesoscale cirrus cloud modeling and comparisons against remote sensing data collected from space and aircraft during the CIRCLE Campaign.

### P5.21 Y. Yin, L. Jin, Geraint Vaughan, G. Allen, P. Connolly, A. Heymsfield, A. Bansemer

14:45-16:45		Parallel Oral Session 4: RICO (with Session 5: CIRRUS CLOUDS)
		Chairperson: Robert Rauber
14:45-15:00	4.1	Invited: Bjorn Stevens
		Rain, Smoke & Mirrors
15:00-15:15	4.2	Hermann E. Gerber, Glendon Frick, Jorgen B. Jensen, James G. Hudson
		Entrainment, Mixing, and Microphysics in Trade-Wind Cumulus
15:15-15:30	4.3	Jorgen B. Jensen
		Vertical distribution of atmospheric sea-salt mixing ratio in the Caribean: Fluxes and implications for the warm rain process
15:30-15:45	4.4	Stephan Mertes, Saskia Walter, Johannes Schneider, Stephan Borrmann, Martina Krämer, A. Gioda, G. Montero
		Activation of aerosol particles observed inside Clouds at a Mountain Site on Puerto Rico during the Puerto Rico Aerosol-Cloud-Study (RICO-PRACS)
15:45-16:00	4.5	Benjamin J. Shipway, Steven J. Abel, Chris Smith
		Nucleation of cloud liquid water in a double-moment bulk microphysics scheme: Comparison with RICO observations.
16:00-16:15	4.6	Sylwester Arabas, Hanna Pawlowska, Wojciech W. Grabowski
		Effective radius and droplet spectral width from RICO observations
16:15-16:30	4.7	Hongli Jiang, Graham Feingold, Adrian A. Hill
		Evaluation of Aerosol-cloud-radiation-dynamical interactions in a large-eddy model
16:30-16:45	4.8	Alan M. Blyth, Jason H. Lowenstein, Stewart Davis, Sonia G. Lasher-Trapp, Ken Carslaw
		The production of warm rain in shallow cumulus clouds

14:45-16:45		Parallel Oral Session 5: CIRRUS CLOUDS (with Session 4: RICO)
		Chairperson: David Starr
14:45-15:00	5.1	Invited: Ulrike Lohmann, Peter Spichtinger, Thomas Peter
		Cirrus clouds and ice supersaturated regions in a global climate model
15:00-15:15	5.2	Greg M. McFarquhar, Junshik Um, Matt Freer, Darrel Baumgardner, Greg Kok, Gerald Mace
		Contributions of Small Ice Crystals to Number, Mass and Extinction in Tropical Cirrus: In-Situ Observations from TWP-ICE and Prior Campaigns
15:15-15:30	5.3	David L. Mitchell, Robert P. d'Entremont, R. P. Lawson
		Satellite Remote Sensing of Small Ice Crystal Concentrations in Cirrus Clouds
15:30-15:45	5.4	Julien Delanoë, Robin Hogan
		Ice clouds properties from space, combining radar, lidar and radiometers on-board A-Train
15:45-16:00	5.5	Anthony J. Baran, Richard Cotton, Clare Lee, Alejandro Bodas-Salcedo, Edwin Hirst, John Haynes, Graeme Stephens  A study of the microphysical and macrophysical properties of cirrus: An intercomparison between Cloudsat, in situ measurements, a GCM and an ice crystal model.
16:00-16:15	5.6	Grant Allen, Peter May, Geraint Vaughan, Paul Connolly, Tom Choularton, Andrew Heimsfield, Aaron Bansemer
		Temporal evolution in observed microphysical properties of cirrus outflow from deep tropical convection during ACTIVE
16:15-16:30	5.7	R. Paul Lawson, Eric J. Jensen, Brad A. Baker, Bryan Pilson, Qixu Mo Microphysical and Radative Properties of Maritime and Continental Cirrus Anvil Clouds: Results from TC4, NAMMA, TWP-ICE, CRYSTAL-FACI and EMERALD
16:30-16:45	5.8	Eric Jensen

New open-path anvil cirrus ice crystal size distribution measurements and the role of entrained free-tropospheric aerosols in production of ice crystals in cumulonimbus clouds

# END OF SESSIONS