

Monday, 15 July 2019

08:00–09:00 Registration

09:00–09:30 Opening Session

IFDA2019-1 Physical processes – Orals

Chairpersons: Lac Christine, Katata Genki

09:30–10:00: IFDA2019-12 (selected presentation)
Analyses of Physical Processes Driving Continental Fog and Low Stratus Life Cycle Based on Large-Eddy Simulations and Detailed Remote Sensing Measurements
Haeffelin Martial, Waersted Eivind, Steeneveld Gert-Jan, Dupont Jean-Charles, Delanoe Julien

10:00–10:15: IFDA2019-5
The relationship between radiation fog, dew formation and turbulence, determined using data from the LANFEX field campaign
Price Jeremy

10:15–10:30: IFDA2019-65
Understanding Fog in a Coastal Desert: The Namib Fog Life Cycle Analysis (NaFoLiCA) Project
Cermak Jan, Bott Andreas, Vogt Roland, Parlow Eberhard, Adler Bianca, Andersen Hendrik, Feigenwinter Christian, Fuchs Julia, Hacker Maike, Kalthoff Norbert, Spirig Robert, Wagner Niklas

10:30 Coffee break

11:00–11:15: IFDA2019-68
New insights on fog and low clouds in the Namib
Andersen Hendrik, Cermak Jan, Fuchs Julia, Solodovnik Irina, Lelli Luca, Vogt Roland, Sippel Sebastian

11:15–11:30: IFDA2019-132
The effect of soil type and crust cover on the absorption of atmospheric water vapor - laboratory and field trials
Berliner Pedro R., Jiang Anxia, Neuberger Carmel, Florentin Anat, Agam Nurit

11:30–11:45: IFDA2019-81
In-cloud scavenging influence on atmospheric aerosol as measured in fogs
Naděžda Zíková, Petra Pokorná, Petr Pešice, Pavel Sedlák, Vladimír Ždímal

11:45–12:05: Poster Talks 1 (1 min poster presentations (Session 1: P-1-1 to P1-15))

12:05 Lunch break

13:30–13:45: IFDA2019-135
Microphysics of Coastal Fog from a Field Study on the Canadian East Coast
Duplessis Patrick, Cluett Jessie, Hartery Sean, Wheeler Michael, Macdonald Anne-Marie, Bhatia Sonja, Chang Rachel

13:45–14:00: IFDA2019-143
Experimental study of fog physical response to chemical compounds dissolved in pure water
Ivanov Ognyan, Todorov Petar, Gulpepe Ismail, Komar John

IFDA2019-1 Physical processes – Posters

Display Time: Monday – Friday

Attendance time: Tuesday, 13:00–15:30

Poster Talks 1: Monday, 11:45–12:05

Chairpersons: Lac Christine, Katata Genki

P-1-1: withdrawn

P-1-2: IFDA2019-123
Vertical profile of fog microphysics experiments
Burnet Frédéric, Bourrienne Thierry, Barrau Sébastien, Martinet Pauline, Cayez Gregoire, Fathalli Maroua, Lac Christine, Masson Olivier, Tav Jackie, Conil Sébastien and the BURE team

P-1-3: IFDA2019-27
The Interaction of Aerosol Composition, Properties and Fog Formation
Chen Ting-Yu, Chen Chia-Li, Huang Ren-Ting, Hung Hui-Ming

P-1-4: IFDA2019-148
Critical Liquid Water Path as a possible indicator of Fog Dissipation
Dupont Jean-Charles, **Toledo Felipe**, Waersted Eivind, Haeffelin Martial

P-1-5: IFDA2019-104
Covariation of droplet size distribution and air humidity in fog: A methodological approach
Fritz Julika, Meyer Heta, **Klemm Otto**, Tseng Weiti, Lin Neng-Huei

P-1-6: IFDA2019-159
Cloud Microphysics Affected by Dry Air Entrained from above Cloud Top in Stratocumulus
Gao Sinan, Lu Chunsong, Liu Yangang, Zhu Lei

P-1-7: IFDA2019-101
The surface heat fluxes-atmosphere relations in Chi-Lan montane cloud forest in Taiwan
Gu Rong-Yu, Lo Min-Hui, Liao Chi-Ya, Juang Jehn-Yih, Huang Choy, Chang Shih-Chieh, Hsieh Cheng-I, Li Ming-Hsu, Chen Yi-Ying, Chu Housen

P-1-8: IFDA2019-185
The Interactions between Aerosols and Fogs Based upon Long-Term Satellite Products from MODIS and VIIRS
Hsu Christina, Lee Jaehwa, Kim Vincent

P-1-9: IFDA2019-11
Deformation characteristics of a continuous Sea Fog process in the Yellow Sea and Bohai Sea and its Genesis Analysis
Huang Bin

P-1-10: IFDA2019-94
Analysis of the boundary layer characteristics and cause for a spring sea fog over Fujian
Huang Huirong, Han Mei, Pan Ning, Chen Dehua, Zhang Wei

P-1-11: IFDA2019-62

Missed Fog: Understanding the Growth of Fog from the Ground Up

Izett Jonathan, van de Wiel Bas, Schilperoort Bart, Coenders-Gerrits Miriam, Baas Peter, Bosveld Fred

P-1-12: IFDA2019-96

Analysis of the Yellow Sea fog cases using turbulent flux observations

Kim Hojin, Heo Ki-Young

P-1-13: IFDA2019-182

Influence of aerosol on fog microphysics over suburban area in Taoyuan, Taiwan

Lin Kai-Yi, Wang Sheng-Hsiang

P-1-14: IFDA2019-1

Advances in Fog Microphysics Research in China

Liu Duanyang, Li Zihua, Yan Wenlian

P-1-15: IFDA2019-89

Atmospheric Conditions for Advection-Radiation Fog Over the Western Yellow Sea

Liu Jingwu

Display Time: Monday – Friday

Attendance time: Tuesday, 13:00–15:30

Poster Talks 2: Monday, 15:00–15:20

P-1-16: IFDA2019-36

Impact of the Pacific-Japan Teleconnection Pattern on July Sea Fog over the Northwestern Pacific: Interannual Variations and Global Warming Effect

Long Jingchao, **Zhang Suping**, Chen Yang, Liu Jingwu, Han Geng

P-1-17: IFDA2019-99

Fog due to stratus lowering: experimental and modelling case study

Fathalli Maroua, Burnet Frederic, Lac Christine

P-1-18: IFDA2019-112

Fog droplet distributions and liquid water fluxes in the hyperarid Namib

Spirig Robert, Feigenwinter Christian, Vogt Roland

P-1-19: IFDA2019-172

Isotopic investigation of dew origins and formation mechanisms under different climate conditions

Tian Chao, Wang Lixin, Beysens Daniel, Farai Kaseke Kudzai, Medici Marie-Gabrielle

P-1-20: IFDA2019-171

A role of turbulence transfer in predicting radiation fog using the regional Eta model

Veljovic Katarina, Koracin Darko

P-1-21: IFDA2019-115

Lifting the fog in the central Namib - where did it come from?

Vogt Roland, Maggs-Kölling Gillian, **Seely Mary Kathryn**

P-1-22: IFDA2019-19

Observational Study on the Supercooled Fog Droplet Spectrum Distribution and Icing Accumulation Mechanism in Lushan, Southeast China

Wang Tianshu, Niu Shengjie, Lv Jingjing, Zhou Yue

IFDA2019-2 Measurement techniques – Orals

Chairpersons: Cermak Jan, Lai I-Ling

14:00–14:15: IFDA2019-141

The South west FOGs 3D experiment for processes study (SOFOG3D) project

Burnet Frédéric, Lac Christine, Martinet Pauline, Fourrié Nadia, Haeffelin Martial, Delanoë Julien, Price Jeremy, Barrau Sebastien, Bergot Thierry, Canut Guylaine, Dabas Alain, Denjean Cyrielle, Dupont Jean-Charles, Honnert Rachel, Mahfouf Jean-François, Montmerle Thibault, Paci Alexandre, Roberts Greg, Seity Yann, Vié Benoit

14:15–14:30: IFDA2019-39

C-FOG Project for Marine Fog

Gultepe Ismail, Fernando Harindra J.S., Pardyjak Eric, Wang Qing, Hocut Chris, Creegan Edward, Hoch Sebastian W., Flagg David D., Scantland Norman, Desjardins Serge, Pilon Mark, Pavolonis Michael, Heymsfield Andrew J., Gaberseck Sasa, Wagh Sandeep, Alappattu Denny P.

14:30–14:45: IFDA2019-56

Daytime Sea Fog retrieval over the Yellow Sea based on FY-4A data Using Convolutional Neural Networks

Liu Shuxiao, Yi Li

14:45–15:00: IFDA2019-79

Fog gauge measurements of cloud liquid water content: proposing a new standard

Tseng Han, Giambelluca Thomas, Griswold Jennifer, Freitag Steffen, Howell Steven, Nugent Alison, Beilman David, Winchester Cody, DeLay John, Nullet Michael

15:00–15:20: Poster Talks 2 (1 min poster presentations):

Session 1: from P-1-16 to P-1-22 & Session 2: from P-2-1 to P-2-8

15:20 Coffee break**15:50–16:05: IFDA2019-75**

Measuring microphysical inhomogeneities in boundary layer clouds using a holographic imager on a tethered kytoon system

Ramelli Fabiola, Beck Alexander, **Henneberger Jan**, Lohmann Ulrike

16:05–16:20: IFDA2019-31

Quantification of Dew and Fog Water Inputs for Swiss Grasslands

Riedl Andreas, Li Yafei, Eugster Werner

16:20–16:35: IFDA2019-32

Natural dew conditions in the laboratory

Beysens Daniel, Trosseille Joachim, Mongrue Anne, Royon Laurent

16:35–16:50: IFDA2019-174

Detection of cloud droplets or fog by a polarization optical counting sensor: Circumstantial evidence for cloudwater deposition of radionuclides in mountainous areas of Japan during the Fukushima nuclear accident

Kaneyasu Naoki

16:50–17:10: Poster Talks 3 (1 min poster presentations)

Session 2: from P-2-9 to P-2-20

IFDA2019-2 Measurement techniques – Posters

Display Time: Monday – Friday
Attendance time: Tuesday, 13:00–15:30
Poster Talks 2: Monday, 15:00–15:20

Chairpersons: Cermak Jan, Lai I-Ling

P-2-1: IFDA2019-33

Rough surfaces increase dew drop collection
Beysens Daniel, Trosseille Joachim, Mongruel Anne, Royon Laurent, Medici Marie Gabrielle

P-2-2: IFDA2019-34

CFD study of a corrugated hollow cone for enhanced dew yield
Beysens Daniel, Cook Robert, Crobu Enrico, Royon Laurent

P-2-3: IFDA2019-35

Dew condensation on polyacrylamide gels
Beysens Daniel, Urbina Ruddy, Lefavrais Sylvain, Royon Laurent, Mongruel Anne, Gonzalez Vinas Wenceslao

P-2-4: IFDA2019-71

A new method to retrieve cloud-edge top heights over Arctic Sea using cloud-shadow based on MODIS
Cheng Xueying, Yi Li

P-2-5: IFDA2019-66

Methodology and synergetic approach to better understand and forecast the fog life cycle based on ground-based remote sensing instruments and in-situ sensors.
Dupont Jean-Charles, Haeffelin Martial, Toledo Felipe, Delanoe Julien, Drouin Marc-Antoine

P-2-6: IFDA2019-30

Microlysometer and fog collector measurements in the Namib desert
 Feigenwinter Christian, **Vogt Roland**, Larsen Jarl Are, Spirig Robert, Franceschi Joel

P-2-7: IFDA2019-147

Small-scale collection variability associated with high-density deployments of standard fog collectors
 Fernandez Daniel, **McCabe Jordan**, Duann Blanche, Hansen Evalina

P-2-8: IFDA2019-129

Near-surface dynamics during Fog Events: An approach to connect fog precipitation with fog deposition at the Gobabeb Namib Research Institute
 Franceschi Joel, Feigenwinter Christian, **Spirig Robert**, Vogt Roland

Display Time: Monday – Friday
Attendance time: Tuesday, 13:00–15:30
Poster Talks 3: Monday, 16:50–17:10

P-2-9: IFDA2019-177

The missing tie of climate research in South Tyrol: the presence of fog?
Garcia-Santos Glenda, Velina Thomas, Wolf Gert, Mandl Peter, Obojes Nikolaus, Montagnani Leonardo

P-2-10: IFDA2019-44

Non-rainfall water inputs in Hulu catchment of Qilian Mountains, northwest China
Han Chuntan, Chen Rensheng, Liu Zhangwen

P-2-11: IFDA2019-168

Characterization of particle-droplet interactions in wintertime fog in Hungary: results of an intensive monitoring campaign
Imre Kornélia, Molnar Agnes, Peterka Andras, Ferenczi Zita, Horvath Akos, Weidinger Tamas, Gelencser Andras

P-2-12: IFDA2019-49

Composites of hydrophilic and hydrophobic fibers with controlled mechanical and wetting properties for water harvesting
 Knapczyk-Korczak Joanna, Ura Daniel P., Chiverton John P., **Stachewicz Urszula**

P-2-13: IFDA2019-74

Fog-observed performance of low-cost atmospheric particulate matter sensors
Lai Yen-Jen, Lin Po-Hsiung

P-2-14: IFDA2019-25

A new high spatial resolution low stratus/fog retrieval for the Atacama Desert
 Lehnert Lukas, Thies Boris, **Bendix Joerg**

P-2-15: IFDA2019-131

Fog water collection in the hyper arid coastal Atacama desert (20°S). Differences, contrast and coincidence between different geographical locations
Osses Pablo, Del Rio Camilo, Vargas Constanza, Riveros Francisca, Marzol Victoria, Garcia Juan, Siegmund Alexander

P-2-16: IFDA2019-97

The relation between potential fog water collection and meteorological variables
Regalado Carlos M., Ritter Axel

P-2-17: withdrawn

P-2-18: IFDA2019-158

Analysis of the Water Moisture Influence for Plume Opacity after a Wet Flue Gas Desulfurization (FGD) Scrubber
Tu Wen-Fu

P-2-19: IFDA2019-53

Detection of Fog Involving Heavy Pollutants by Using the New Geostationary satellite Himawari-8
Wang Hongbin, Zhang Zhiwei

P-2-20: IFDA2019-85

Deposition characteristics of fog in mountainous region
Wang Yize, Kinoshita Taise, Igawa Manabu

Tuesday, 16 July 2019

08:00–09:00 Registration

IFDA2019-3 Modeling tools – Orals

Chairperson: Price Jeremy, Haeffelin Martial

09:00–09:30: IFDA2019-160 (selected presentation)
The recent improvement and progress in operational visibility forecast at NCEP **Zhou Binbin**, Levit Jason

09:30–09:45: IFDA2019-124

WRF model performance & challenges to predict fog events during the WIFEX field campaign at IGI Airport, New Delhi, India

Pithani Prakash, Ghude Sachin, Rajendra Kumar Jenamani, Debnath Sreyashi, Kulkarni Rachana, Dhangar Narendra

09:45–10:00: IFDA2019-138

Valleys fog events: relative importance of local and non-local processes during radiative/advective fog formation

Ducongé Léo, Lac Christine, Bergot Thierry, Vié Benoît

10:00–10:15: IFDA2019-67

Towards an improved representation of fog and low stratus in high-resolution numerical weather prediction models

Westerhuis Stephanie, Fuhrer Oliver, Cermak Jan, Bott Andreas, Eugster Werner

10:15–10:30: IFDA2019-107

Visibility in the ACCESS NWP model

Roux Belinda, Dare Richard, Potts Rodney

10:30 Coffee break

11:00–11:15: IFDA2019-120

Sub-kilometre numerical weather prediction of fog events and the sensitivity to soil thermal conductivity

Smith Daniel, Renfrew Ian, Price Jeremy, Dorling Stephen

11:15–11:30: IFDA2019-92

Advection-radiation fog over the northeast Pacific in summer: long-term ship observations and LES simulations

Yang Liu, Liu Jing-Wu

11:30–11:45: IFDA2019-156

Large eddy simulation of radiation fog: impact of microphysics on the fog life cycle

Christine Lac, Benoît Vié, Marie Mazoyer, Frédéric Burnet

11:45–12:05: Poster Talks 4: (1 min poster presentation):
Session 3: from P-3-1 to P-3-16

12:05–13:00 Lunch break

13:00–15:30

Poster sessions: Physical processes; Measurement techniques; and Modelling tools

IFDA2019-3 Modeling tools – Posters

Display Time: Monday – Friday

Attendance time: Tuesday, 13:00–15:30

Poster Talks 4: Tuesday, 11:45–12:05

Chairperson: Price Jeremy, Haeffelin Martial

P-3-1: IFDA2019-109

Adaptation of computational model for prediction of dew formation in semi-arid conditions of Iran

Atashi Nahid, Rahimi Dariush, Mostajeran Goortani Behnam, Duplissy Jonathan, Vuollekoski Henri, Kulmala Markku, Vesala Timo, Hussein Tareq

P-3-2: IFDA2019-134

Assimilation of wind from AMDAR into the one dimensional fog forecasting model COBEL

Bari Driss

P-3-3: IFDA2019-88

Boundary Layer Parameterizations to Simulate Fog over Atlantic Canada Waters

Chen Changshuo, Zhang Minghong, Perrie William, Chang Rachel, Chen Xianyao

P-3-4: IFDA2019-114

An Improved Method for Assimilating MTSAT-Derived Humidity in Nowcasting Sea Fog over the Yellow Sea

Gao Shanhong, Gao Xiaoyu

P-3-5: IFDA2019-95

Winter Fog Experiment (WiFEX) at Delhi International Airport, India: Results from 2015-2019 winter campaign

Ghude Sachin D, Jenamani Rajendra, Kulkarni Rachana, Pithani Prakash, Dhangar Narendra, Debnath Sreyashi, Rajeevan Madhvan

P-3-6: IFDA2019-37

Comparison of fog forecast results by PAFOG model and fog identification by satellite data in Brazil.

Oliveira Camila, Melo Davidson, Muanza Gomes, Fedorova Natalia, Levit Vladimir

P-3-7: IFDA2019-17

Assessment of fog predictability in the Mexico Basin

González Viveros Pohema de Jesús, García García Fernando, Caetano Ernesto

P-3-8: IFDA2019-100

Modeling the life cycle of fog in the Namib desert with COSMO-PAFOG

Hacker Maïke, Adler Bianca, Andersen Hendrik, Cermak Jan, Kalthoff Norbert, Vogt Roland, Bott Andreas

P-3-9: IFDA2019-41

Using Recurrent Neural Network to Improve Forecasting of Fog and Visibility

Li Xinbei, Zhang Suping, Yi Li, Han Mei, Pan Ning

P-3-10: IFDA2019-128

Status of Sea Fog Research in Fujian Province and Taiwan Strait
Mei Han

P-3-11: IFDA2019-38

Fog and mist forecast by the PAFOG model at the Northeast Brazilian airports
Melo Davidson, Oliveira Camila, Muanza Gomes, Fedorova Natalia, Levit Vladimir

P-3-12: IFDA2019-2

Numerical simulations of fog extent in the Miyoshi basin, Japan
Ohashi Yukitaka

P-3-13: IFDA2019-178

Atmospheric Model Evaluation with Observation Data for Persistent Fog Prediction in the Lower Region of the Himalayas
Surapipith Vanisa, Adhikary Bhupesh, Rasheed Anjum, Panday Arnico, Bhave Prakash

P-3-14: IFDA2019-167

Spring Fog over Taiwan Strait: Formation and Model Prediction Capability
Tsai I-Chun, Chen Jen-Ping

P-3-15: IFDA2019-121

An operational forecasting system of radiation fog in an arid region using the WRF model
Weston Michael, Temimi Marouane, Zhao Jun, Chaouch Naira, Valappil Vineeth, Kumar Niranjana, Thota Mohan, Nelli Narendra, Fonseca Ricardo

P-3-16: IFDA2019-8

An Observational and Modeling Analysis of a Sea Fog Event over the Yellow Sea During Spring
Zhou Xiaoyu, **Li Pengyuan**, Sun Baitang

IFDA2019-4 Climatology – Orals

Chairpersons: Lin Teng-Chi, Westerhuis Stephanie

15:30–16:00: IFDA2019-10 (selected presentation)

A Brief Overview of Sea Fog Research in China during the Past 40 Years
Fu Gang, Li Pengyuan, Zhang Suping, Gao Shanong, Chen Lijia

16:00–16:15: IFDA2019-63

A Comprehensive Observational Overview of Dutch Fog
Izett Jonathan, van de Wiel Bas, Baas Peter, Schulte Ruben

16:15–16:30: IFDA2019-111

Weakening of Asian monsoon, not cloud cover change, determines the climatic variability in montane cloud forest
Wei Hsin-Lin, Chen Shin-Hao, Sano Masaki, Nakatsuka Takeshi, Chen I-Ching

16:30–16:45: IFDA2019-144

GOFOS, Ground Optical Fog Observation System for monitoring the vertical stratocumulus dynamic in the coastal Atacama Desert, Chile
del Río Camilo, Lobos Felipe, Osses Pablo, García Juan Luis, Marzol Maria Victoria, Siegmund Alexander

16:45–17:00: IFDA2019-21

A hybrid satellite fog retrieval scheme and climatology using machine learning
Bendix Jörg, Egli Sebastian, Thies Boris

17:00–17:20: Poster Talks 5 (1 min poster presentations)
- Session 4: from P-4-1 to P-4-7 & Session 5 P-5-1 to P-5-10 & Session 6: P-6-1

IFDA2019-4 Climatology – Posters

Display Time: Monday – Friday

Attendance time: Thursday, 12:45–15:15

Poster Talks 5: Tuesday, 17:00–17:20

Chairpersons: Lin Teng-Chi, Westerhuis Stephanie

P-4-1: IFDA2019-139

Linking interannual and interdecadal fog variability in Atlantic Canada to changes in large-scale atmospheric and marine features
Duplessis Patrick, Zhang Minghong, Perrie William, Isaac George, Chang Rachel

P-4-2: IFDA2019-152

Fog Collection along Coastal California from San Diego to Arcata
Fernandez Daniel, **Hansen Evalina**, Duann Blanche, McCabe Jordan, Torregrosa Alicia

P-4-3: IFDA2019-127

Effects of orographically induced low-level moisture convergence and inversion strength on upslope fog: a case study at Xitou
Hsieh Min-Ken, Lin Po-Hsiung, Wu Chien-Ming

P-4-4: IFDA2019-78

Fog, temperature, and air quality over the Metropolitan Area of São Paulo: A trend analysis from 1998 through 2018
Cardoso-Mühlig André, Klemm Otto, Gonçalves Fabio

P-4-5: IFDA2019-125

The importance of in-situ processes and advection impacting radiation fog at orographically contrasting locations
Smith Daniel, Renfrew Ian, Price Jeremy, Dorling Stephen

P-4-6: IFDA2019-46

The boundary layer character of spring sea fog inland penetration over the coastal area of Qingdao
Yi Li

P-4-7: IFDA2019-187

Examples of rime and hoarfrost threats for human activity in the Western Sudetes, Poland
Sobik, Mieczysław and Błaś, Marek

Wednesday, 17 July 2019

Technical Excursion

Thursday, 18 July 2019

08:00–09:00 Registration

IFDA2019-5 Interaction with Vegetation – Orals

Chairpersons: Weathers Kathleen, Klemm Otto

09:00–09:15: IFDA2019-7

Modeling canopy interception after fog, mixed precipitation and rainfall with the Gash analytical model: possibilities and challenges
Garcia-Santos Glenda

09:15–09:30: IFDA2019-16

Effect of Dew and Fog Water on Swiss Grassland with Stable Water Isotopes
Li Yafei, Riedl Andreas, Aemisegger Franziska, Buchmann Nina, Eugster Werner

09:30–09:45: IFDA2019-59

Quantification of non-rainfall water for two distinct grassland ecosystems
Groh Jannis, Slawitsch Veronika, Herndl Markus, Graf Alexander, Gerke Horst H., Vereecken Harry, Pütz Thomas

09:45–10:00: IFDA2019-157

Decoupled fog and rainfall occurrence at a subtropical rainforest in northern Taiwan
Lin Teng-Chiu, Huang Jr-Chuan

10:00–10:20: Poster Talks 6 (1 min poster presentations)
- Session 7: from P-7-1 to P-7-16

10:20 Coffee break

11:00–11:15: IFDA2019-70

Radionuclide deposition during fog events
Masson Olivier, Tav Jackie, Burnet Frederic, Paulat Pascal, Bourrienne Thierry, Conil Sebastien, Pourcelot Laurent

11:15–11:30: IFDA2019-145

In situ observation of tree leaf photosynthesis under foggy condition
Chang Shih-Chieh, Chong Hsin-Min, Hong Chie-Yu, Lai Cheng-Wei

11:30–11:50: Poster Talks 7 (1 min poster presentations)
- Session 7: from P-7-17 to P-7-32

11:50–12:45 Lunch

12:45–15:15

Poster sessions: Climatology; Interaction with vegetation; Water resources; Chemical processes and Pollution

IFDA2019-5 Interaction with Vegetation – Posters

Display Time: Monday – Friday

Attendance time: Thursday, 12:45–15:15

Poster Talks 5: Tuesday, 17:00–17:20

Chairpersons: Weathers Kathleen, Klemm Otto

P-5-1: IFDA2019-186

Seasonal variation of water inputs for epiphytic plants at a subtropical rainforest, Fu-Shan in northern Taiwan
Huang Jr-Chuang, Lin Teng-Chiu, Shih Yu-Ting

P-5-2: IFDA2019-55

Development and evaluation of leaf wetness duration model based on machine learning for orchards in South Korea
Park Jun Sang, Shin Ju-Young, Kim Kyu Rang, Seo Yun Am

P-5-3: IFDA2019-113

Decomposition of plant litter in sea-fog area along pacific coast of Hokkaido, Japan
Kamauchi Hiromitsu

P-5-4: IFDA2019-155

The light distribution and the canopy leaf characteristics of *Chamaecyparis obtusa* var. *formosana* in a subtropical mountainous cloud forest in northeastern Taiwan
Lai I-Ling, Chang Shih-Chieh, Chung Hsin-Min, Hsia Yue-Joe

P-5-5: IFDA2019-82

Phenological response of *Tillandsia purpurea* in a fog-dependent ecosystem, south of Peru
Luque-Fernández César, Albarracín Amaia Karol, Villasante Benavides Francisco, Pauca T. Anthony, Villegas P. Luis, Quispe T. Johana del Pilar, Talavera D. Carmelo

P-5-6: IFDA2019-83

Geographical and Altitudinal Distribution of Tillandsials in Southern Peru, and their Relationship with Topographic Variables: Orientation and Slope
Pauca Anthony, Villasante Francisco, Luque-Fernández Cesar, Villegas Luis, Quispe Johana del Pilar, Albarracín Amaia, Talavera Carmelo

P-5-7: IFDA2019-22

Spatial delineation of a new fog-driven ecosystem in the tropical lowlands
Pohl Marius, **Bendix Jörg**, Lehnert Lukas

P-5-8: IFDA2019-90

Cloud water interception in Hawaii: project overview & preliminary results of fog and CWI patterns
Tseng Han, Giambelluca Thomas, DeLay John, Nullet Michael

P-5-9: IFDA2019-20

Fog chemistry in southeast Tibet forest ecosystem
Wang Wei, **Liu Xuejun**

P-5-10: IFDA2019-84

The wisdom of age: how old alpine forests regulate the global hydrological cycle
Montagnani Leonardo, Obojes Nikolaus, **Garcia-Santos Glenda**

IFDA2019-6 Water resources – Orals

Chairpersons: Schemenauer Bob, Agam Nurit

15:15–15:30: IFDA2019-24

Harvesting industrial fog and in situ removal of organic pollutants from collected water

Ghosh Ritwick, Sahu Rakesh P, Zhitomirsky Igor, Puri Ishwar K, Ganguly Ranjan

15:30–15:45: IFDA2019-42

Dew-Fog as a supplementary source of water in the hilly terrain of Meghalaya, India

Singh Shashank, Suting Augustus, Challam Beulla

15:45–16:00: IFDA2019-146

Mesh-induced variability of fog water collected in Central California

Fernandez Daniel, McCabe Jordan, Duann Blanche, Hansen Evalina

16:00–16:15: IFDA2019-150

Fog water yields in the hyper arid coastal Peruvian desert

Trujillo Jonás, Marzol Maria Victoria, Villegas Luis, Luque-Fernández César, Villasante Francisco, **Osses Pablo**, Del Rio Camilo, Siegmund Alexander

16:15–16:30: IFDA2019-175

An investigation on the potential for fog water harvesting from Table Mountain, South Africa

Rautenbach Hannes, Olivier Jana

16:30–16:45: IFDA2019-180

Possibility of dew use and better utilization in the Serbia

Valjarevic Aleksandar, Živković Dragica

16:45–17:00: IFDA2019-76

Redwood-Inspired Fog Harps

Shi Weiwei, van der Sloot Thomas, Kennedy Brook, Boreyko Jonathan

17:00–17:15: IFDA2019-93

Electrospun fibers with controlled surface properties for fog collectors

Stachewicz Urszula

IFDA2019-6 Water resources – Poster

Display Time: Monday – Friday

Attendance time: Thursday, 12:45–15:15

Poster Talks 5: Tuesday, 17:00–17:20

Chairpersons: Schemenauer Bob, Agam Nurit

P-6-1: IFDA2019-4

The Social Contexts of Fog-Water Project Success and Failure

Bignell Byron, Makepeace Anthony, Zanetta Colombo Nicolás

Friday, 19 July 2019**IFDA2019-7 Chemical processes and Pollution – Orals**

Chairpersons: Lin George, Osses Pablo

09:00–09:30: IFDA2019-87 (selected presentation)

The acidity of clouds and fogs around the world
Collett Jeffrey, Ku I-Ting, Herckes Pierre, Tilgner Andreas, Herrmann Hartmut, Wang Tao

09:30–09:45: IFDA2019-181

Chemical composition of fog water and computation of air masses within the southern Atlantic fog zone
Kgabi Nnenedi, **Amesho Kassian**, Irengé Dianah

09:45–10:00: IFDA2019-69

Characteristics of urban thin fog or mist in Yokohama, Japan
Igawa Manabu, Suzuki Sho, Kamiyo Kosuke

10:00–10:15: IFDA2019-91

Thermo-dynamical, Microphysical and Chemical, Properties of Fog in Megacity Delhi: Results from WIFEX 2015-18

Kulkarni Rachana, Ghude Sachin, Wagh Sandip, Bisht Deewan Singh, Safai Pramod, Ali Kaushar, **Pithani Prakash**, Jenamani Rajendra

10:15–10:30: IFDA2019-149

Characterization of cloud water impacted by wildfire emissions in the western United States
Ku I-Ting, Sullivan Amy P., Fischer Emily V., Jr Jeffrey L. Collett

10:30 Coffee break**11:00–11:15: IFDA2019-163**

Fog Chemistry and Sources at an Urban and a Rural Sites in Indo-Gangetic Plains
Mishra Manisha, Kulshrestha Umesh

11:15–11:30: IFDA2019-106

Cloud Chemistry with High Temporal Resolution
Breuer Bettina, Klemm Otto, Tseng Weiti, Lin Neng-Huei

11:30–11:45: IFDA2019-18

Evidences for regional radioactive contamination in mountain forests of East Japan due to fogwater deposition during the Fukushima Daiichi Nuclear Power Station accident
Imamura Naohiro, Katata Genki, Kajino Mizuo, Kobayashi Masahiro, Itoh Yuko, Akama Akio

11:45–12:00: IFDA2019-133

Effect of endogenous microbiota on the molecular composition of cloud water: a study by Fourier-transform ion cyclotron resonance mass spectrometry (FT-ICR MS)
Bianco Angelica, Deguillaume Laurent, Vaïtilingom Mickaël, Chaumerliac Nadine, Delort Anne-Marie, Bridoux Maxime

12:00–13:00: Conference Conclusions and IFDA General Assembly**IFDA2019-7 Chemical processes and Pollution – Posters**

Display Time: Monday – Friday

Attendance time: Thursday, 12:45–15:15

Poster Talks 6: Thursday, 10:00–10:20

Chairpersons: Lin George, Osses Pablo

P-7-1: IFDA2019-166

Chemistry of fine particulates during winter fog of 2017-18 at IGIA, Delhi
Acharja Prodip, Ali Kaushar

P-7-2: IFDA2019-118

Application of New Data in the Pollution Event During the Spring Festival of 2014
Dai Zhujun, Liu Duanyang, Kang Zhiming, Li Jing, Zhang Lu

P-7-3: IFDA2019-179

Photochemical transformations of fatty acids in atmospheric waters
Devineni Subba Rao, **Pavuluri Chandra Mouli**, Xu Zhanjie, Zhang Yan-Lin, Fu Pingqing, Liu Cong-Qiang

P-7-4: IFDA2019-6

Chemical characteristics of the three-stage fog water in the winter of Nanjing
Fan Shuxian, Sun Yu

P-7-5: IFDA2019-64

Aqueous-phase reactivity of polyfunctional organic nitrates under atmospheric conditions
Gonzalez Sanchez Juan Miguel, Morin Julien, Temime-Roussel Brice, Ravier Sylvain, Durand Amandine, Clement Jean-Louis, Monod Anne

P-7-6: IFDA2019-173

Characterizing the variability of cloud water acidity at Mt. Bamboo in the West Pacific Ocean across two decades of northeast monsoon seasons
Griffith Stephen M., Thu Thuy Bui, Tseng Wei-Ti, Lin Neng-Huei (George)

P-7-7: IFDA2019-140

A study on chemistry of fog water over Indo-Gangetic basin
Kumar Ranjit, Tiwari Suresh, Gupta Pratima, Rastogi Neeraj, Safai Pramod, Jangid Ashok

P-7-8: IFDA2019-43

Mercury speciation and adsorption in cloud water over the North China Plain
Li Tao, Wang Yan, Mao Huiting

P-7-9: IFDA2019-9

High Anthropogenic Contribution in Fog Water at a Coastal Island Bhola, Bangladesh
Lina Kamrunnahar, Jeba Farah, Rahman Md. Safiur, **Salam Abdus**

P-7-10: IFDA2019-153

Molecular Insights on the Aqueous Phase Processing of Ambient Biomass Burning Emissions Influenced Fog and Aerosol using Ultrahigh Resolution Orbitrap Elite Mass Spectrometry

Mazzoleni Lynn, Brege Matthew, Schum Simeon, Gilardoni Stefania, Decesari Stefano, Paglione Marco, Facchini Maria Cristina

P-7-11: IFDA2019-176

Chemical composition of fogwater collected in three contrasted sites in northeastern France between 2015 and 2018

Millet Maurice, Delhomme Olivier, Napolitano Denise, Herckes Pierre

P-7-12: IFDA2019-142

Fog water chemical composition in Namibia during the AEROCLO-sA 2017 campaign

Monod Anne, Napolitano Denise, Gonzalez-Sanchez Juan Miguel, Giorio Chiara, Mushi Roland, Maggs-Kölling Gillian, D'Anna Barbara, Coulomb Bruno, Boudenne Jean-Luc, Piketh Stuart J., Namwoonde Andreas, Collett Jr. Jeffrey, Burnet Frédéric, Formenti Paola, Herckes Pierre

P-7-13: IFDA2019-103

Observation of Cloud Water Chemistry in the Free Troposphere and the Atmospheric Boundary Layer on Mt. Fuji (6)

Okochi Hiroshi, Dairiki Mitsuo, Nakamura Megumi, Ogawa Shin, Tahara Daisuke, Takemura Naoki, Nakano Takanori, Shimada Kojiro, Katsumi Naoya, Minami Yukiya, Takeuchi Masaki, Toda Kei, Kato Shungo, Wada Ryuichi, Miura Kazuhiko, Yonemochi Shinichi, Hatakeyama Shiro, Dokiya Yukiko

P-7-14: IFDA2019-105

Observation of Cloud Water Chemistry in the Free Troposphere and the Atmospheric Boundary Layer on Mt. Fuji (5)

Okochi Hiroshi, **Dairiki Mitsuo**, Nakamura Megumi, Ogawa Shin, Tahara Daisuke, Takemura Naoki, Nakano Takanori, Shimada Kojiro, Katsumi Naoya, Minami Yukiya, Takeuchi Masaki, Toda Kei, Kato Shungo, Wada Ryuichi, Miura Kazuhiko, Yonemochi Shinichi, Hatakeyama Shiro, Dokiya Yukiko

P-7-15: IFDA2019-154

Air pollution and its impact of tropical heavy rainwater and dew water chemistry in Siem Reap-Angkor region of Cambodia

Okochi Hiroshi, **Kajikawa Tomoki**, Shimada Kojiro, Nakano Takanori, Uchida Etsuo, Ishizuka Mitsumasa, Nakagawa Takeshi, Matsui Toshiya, Arai Toyoaki, Udagawa Satoru, Lay Poty, Hang Peou

P-7-16: IFDA2019-45

Organic aerosol composition and chemistry during foggy and non-foggy episodes over Indo-Gangetic Plain

Rajput Prashant, Gupta Tarun

Display Time: Monday – Friday

Attendance time: Thursday, 12:45–15:15

Poster Talks 7: Thursday, 11:30–11:50

P-7-17: IFDA2019-184

Mercury in fog water collected on Mt. Front Lulin in central Taiwan

Sheu Guey-Rong, Nguyen Ly Sy Phu, Klemm Otto, Lin Neng-Huei

P-7-18: IFDA2019-58

Organic chemical components of fog water and aerosol particles in a subtropical forest in Taiwan

Simon Stefan, Jiang Shu Yu, Engling Guenter, Klemm Otto, Lin Po-Hsiung, Chou Charles C.-K.

P-7-19: IFDA2019-61

Fog Chemistry at the subtropical cloud forest of Xitou in Central Taiwan

Simon Stefan, Meyer Heta, Klemm Otto, Chou Charles C.-K., Lin Po-Hsiung, Lai Yen-Jen

P-7-20: IFDA2019-72

Chemical reactions of nitrite in dew accelerated during freezing and in ice

Takenaka Norimichi, Fujii Yusuke

P-7-21: IFDA2019-54

Dew occurrence and hydroxymethanesulfonate chemistry of dewwater in Yokohama, Japan

Takeuchi Masaki, Tanaka Hideji, Okochi Hiroshi, Igawa Manabu

P-7-22: IFDA2019-161

Long-term cloud water chemistry observed at Mt. Bamboo, West Pacific Ocean during northeast monsoon seasons in 1996-2016

Thu Thuy Bui, Tseng Wei-Ti, Griffith Stephen, Lin Neng-Huei (George)

P-7-23: IFDA2019-169

Modeling the non-ideal chemical processing in aqueous aerosol particles with SPACCIM-SpactMod

Tilgner Andreas, Rusumdar Ahmad J., Wolke Ralf, Herrmann Hartmut

P-7-24: IFDA2019-170

Modelling the multiphase formation of high H_2O_2 concentrations observed during winter haze periods in the NCP

Tilgner Andreas, Hoffmann Erik H., He Lin, Ye Can, Mu Yujing, Chen Hui, Chen Jianmin, Herrmann Hartmut

P-7-25: IFDA2019-164

The relationships between human visual range, PM_{2.5} and meteorological factors in urban Taichung from 2013-2017

Tseng Ko-Chieh, Chen Wan-Yi, **Young Li-Hao**, Wang Sheng-Hsiang, Hsiao Ta-Chih, Lin Tang-Huang, Lin Neng-Huei

P-7-26: IFDA2019-48

Influence of fog events on air quality at the background scale of the Czech Republic.

Váňa Milan, Pekárek Jaroslav

P-7-27: IFDA2019-86

Three decades trend of fog in Mt. Oyama, Japan

Wang Yize, Okochi Hiroshi, Igawa Manabu

P-7-28: IFDA2019-102

Fog and Rain Water Chemistry at Mt. Tateyama, Near the Coast of the Japan Sea in Central Japan

Watanabe Koichi, Honoki Hideharu, Sunada Yutaro, Harada Hideyuki, Ji Jiu Jiu

P-7-29: IFDA2019-136

Comparative study on chemistry of dew water collected from New Delhi and adjoining townships in north India

Yadav Sudesh, Nath Supriya, Choudhary Sudesh

P-7-30: IFDA2019-137

Ionic characteristics and buffering capacity of Fog water collected over New Delhi and adjoining satellite township in North India

Yadav Sudesh, Nath Supriya, Chaudhary Sudesh

P-7-31: IFDA2019-14

A persistent fog event involving heavy pollutants in Yancheng area of Jiangsu province

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