

The 2019 University Allied Workshop on Climate and Extreme Weather

<http://cesd.aori.u-tokyo.ac.jp/uaw2019/index.html>

Aug. 21-23, 2019

Atmosphere and Ocean Research Institute, The University of Tokyo

<< Agenda >>

Presentation time (including question 5min): D: doctoral student (20min), M: master student (15min), R: researcher or assistant professor (20min), F: faculty (15min)

Aug. 21, 2019 (Wed)

9:00~9:30	Registration
9:30~10:40 Chair: Shuhe Matsugishi	Opening. Scope, history, and purposes of UAW2019. A strategy for the future change studies on extremes in the East Asia. Masaki Satoh (F, AORI) 15min
	Distinct patterns of cloud changes associated with decadal variability and their contribution to observed cloud cover trends Yong-Jhih Chen (D, NTU) 20min
	The effect of microphysics parameterization on environment and convections Jin-De Huang (M, NTU) 15min
	Improvement of a single moment bulk microphysics scheme for mixed-phases clouds over the Southern Ocean using Joint simulator and CALIPSO Woobsub Roh (R, AORI) 20min
10:40~11:00	TEA TIME 20min
11:00~12:35 Chair: Yong-Jhih Chen	Learning the Representations of Atmospheric Moist Convection with Convolutional Neural Networks Chien-Ming Wu (F, NTU) 15min
	Fractal property in horizontal geometry of tropical clouds from high-resolution observation and simulation Takuya Jinno (D, EPS/UTokyo) 20min
	Implementation of the Unified Representation of Moist Convection in the Gray Zone CWBGFS Chun-Yian Su (D, NTU) 20min
	A statistical study on precipitation characteristics coupled with equatorial Kelvin wave and equatorial Rossby wave Yuhi Nakamura (D, AORI) 20min
	A Preliminary Observational Analysis of Rainfall Characteristics and Convective Organization Associated with the Interaction between Different Tropical Waves Buo-Fu Chen (R, NTU) 20min
12:35~14:05	Lunch 90min
14:05~14:55 Chair: Takuya Jinno	The Comparison of the Modulation of Diurnal Rainfall by the MJO and ENSO over Western Maritime Continent during Boreal Winter Chung-Wei Lee (D, NTU) 15min
	Modulation of the South China Sea and Maritime Continent Subseasonal Peak Precipitation by MJO and Convectively Coupled Equatorial Waves in Boreal Winter Yuan-Huai Tsai (M, NTU) 15min

	Modulation of MJO propagation speed by the fluctuation of large-scale zonal circulation Tamaki Suematsu (R, AORI) 20min
14:55~15:15	TEA TIME 20min
15:15~16:05 Chair: Tamaki Suematsu	What we learned about extreme precipitation from 3D measurements from space Yukari Takayabu (F, AORI) 15min
	The Effect of Upper-tropospheric Jet for Atmospheric Rivers and Precipitation in Pacific Region Wataru Kaneko (M, AORI) 15min
	A study on future projections of precipitation characteristics around Japan in early summer combining GPM DPR observation and CMIP5 large-scale environments Chie Yokoyama (R, AORI) 20min
16:05~16:20	TEA TIME 15min
16:20~16:50 Chair: Yuhi Nakamura	The resent progress of NICAM-LETKF forecast system Ying-Wen Chen (R, AORI) 3min
	Precipitation enhancement via the interplay between atmospheric rivers and cutoff lows Hiroki Tsuji (R, NTU) 3min
	Influence of Aerosols on Summer Afternoon Thunder Storms in Taiwan Yu-Hung Chang (M, NTU) 3min
	Impact of distantly located typhoon and the North Pacific subtropical high on precipitation in Japan Shinichi Kodama (M, AORI) 3min
	Convective self-aggregation in a large square domain Shuhei Matsugishi (D, AORI) 3min
	The Study of the Record-Breaking Rainfall in Japan in July 2018 based on Ensemble Simulation using the Non-hydrostatic Icosahedral Atmospheric Model Kohsuke Ikehata (M, AORI) 3min
	Development of size-resolving aerosol microphysics scheme for use in a global non-hydrostatic cloud-resolving model Chiu Tung Cheng (D, AORI) 3min
	A study on the paleoclimatic change in the Asia during the Cretaceous (145~65Ma) with MIROC AOGCM Taro Higuchi (M, AORI) 3min
	Role of seasonal climate-vegetation feedback in the northern high latitude climate changes driven by obliquity and precession-eccentricity forcing Kanon Kino (D, AORI) 3min
16:50~17:00	Photo Session 10min
17:00~18:00	Poster Session 60min
18:00~	Reception Party

Aug. 22, 2019 (Thu)

9:00~10:20 Chair: Chiu Tung Cheng	A Modeling Study of the Severe Afternoon Thunderstorm Event at Taipei on 14 June 2015: The Roles of Sea Breeze, Microphysics, and Terrain Ming-Jen Yang (F, NTU) 15min
	From sea level changes to land-atmosphere interactions Min-Hui Lo (F, NTU) 15min
	Effects of orographically induced low-level moisture convergence and inversion strength on upslope fog: a case study at Xitou Min-Ken Hsieh (M, NTU) 15min
	The Role of ENSO in Modulating the Maritime Continent's Deforestation Effects Ting-Hui Lee (D, NTU) 20min
	Role of coastal convection to moisture buildup during the South China Sea summer monsoon onset Wei-Ting Chen (F, NTU) 15min
10:20~10:40	TEA TIME 20min
10:40~12:00 Chair: Ting-Hui Lee	Weather extremes in a warming climate Masahiro Watanabe (F, AORI) 15min
	The ocean-coupled global cloud-resolving modeling era Tomoki Miyakawa (F, AORI) 15min
	Combining Effects of IOD, ENSO, and Deforestation on the Maritime Continent Rainfall Heming Xiao (M, NTU) 15min
	Interannual variability of the summertime western north Pacific subtropical High and its relation to local and remote SST Hiroshi Morii (M, AORI) 15min
	Impact of ocean resolution on simulating sea surface temperature in the Arabian Sea and precipitation in the western India Yoko Yamagami (R, AORI) 20min
12:00~13:30	Lunch 90min
13:30~14:20 Chair: Yoko Yamagami	Overview of Japanese satellite mission GOSAT/GOSAT-2 Ryoichi Imasu (F, AORI) 15min
	Estimating PM2.5 Emission from Brick Kilns and Biomass Burning over Northern India with Numerical Model and Remote Sensing Observation Ardhi Adhary Arbain (D, AORI) 20min
	The diurnal surface fluxes-atmosphere relations in Taiwan's montane cloud forest Rong-Yu Gu (M, NTU) 15min
14:20~14:40	TEA TIME 20min
14:40~16:10 Chair: Ardhi Adhary Arbain	Improvement of regional model, AIST-MM and construction of assimilation model using LETKF method for estimation of CO2 emissions and sinks around mega city, Tokyo Yutaka Arai (R, AORI) 20min
	Estimating biogenic carbon dioxide fluxes in Kantō plain and how it contributes to the update of anthropogenic carbon dioxide emission inventory of mega-city Tokyo Qiao Wang (D, AORI) 20min
	Impacts of Irrigation in Central Asia on Local Hydroclimatology

	Tzu-Ying Wu (M, NTU) 15min
	High cloud annual variation and its responses to global warming in the NICAM AMIP experiment Ying-Wen Chen (R, AORI) 20min
	The impact of mid-high-latitude warming on tropical precipitation change Masakazu Yoshimori (F, AORI) 15min
16:10~16:30	TEA TIME 20min
16:30~17:30	Group Discussion 60min

Aug. 23, 2019 (Fri)

9:00~10:10 Chair: Qiao Wang	My research project on "Intraseasonal to seasonal variability and prediction in tropical Indo-Pacific warm pool" Chung-Hsiung Sui (F, NTU) 15min
	Diagnosis of the dynamic efficiency of latent heat release and the rapid intensification of Typhoon Haiyan (2013) Hung-Chi Kuo (F, NTU) 15min
	Potential vorticity mixing and rapid intensification in numerically simulated Supertyphoon Haiyan (2013) Satoki Tsujino (R, NTU) 20min
	The effect of the SST over the PMM region and the eastern northwestern Pacific on tropical cyclone genesis over WNP in 2018 Takahiro Ishiyama (D, AORI) 20min
10:10~10:30	TEA TIME 20min
10:30~11:05 Chair: Takahiro Ishiyama	An Initiation Process of TD-type Disturbances under an Influence of Upper-Level Troughs Yuya Hamaguchi (M, AORI) 15min
	A study on terrain-induced mesoscale circulations of landfalling typhoons with different storm characteristics Wei-Ting Fang (D, NTU) 20min
11:05~11:15	Short Break 10min
11:15~11:45 Chair: Kanon Kino	Presentation of group discussion 30min
11:45~12:15	General discussion & Closing 30min

<Poster Session>

Aug. 21, 2019 (Wed)

Ying-Wen Chen (R, AORI)	The recent progress of NICAM-LETKF forecast system
Hiroki Tsuji (R, NTU)	Precipitation enhancement via the interplay between atmospheric rivers and cutoff lows
Yu-Hung Chang (M, NTU)	Influence of Aerosols on Summer Afternoon Thunder Storms in Taiwan
Shinichi Kodama (M, AORI)	Impact of distantly located typhoon and the North Pacific subtropical high on precipitation in Japan
Shuhei Matsugishi (D, AORI)	Convective self-aggregation in a large square domain
Kohsuke Ikehata (M, AORI)	The Study of the Record-Breaking Rainfall in Japan in July 2018 based on Ensemble Simulation using the Non-hydrostatic Icosahedral Atmospheric Model
Chiu Tung Cheng (D, AORI)	Development of size-resolving aerosol microphysics scheme for use in a global non-hydrostatic cloud-resolving model
Taro Higuchi (M, AORI)	A study on the paleoclimatic change in the Asia during the Cretaceous (145~65Ma) with MIROC AOGCM
Kanon Kino (D, AORI)	Role of seasonal climate-vegetation feedback in the northern high latitude climate changes driven by obliquity and precession-eccentricity forcing