

The First Asian Conference on Meteorology

October 26 (Mon) – 27 (Tue), 2015

Kyoto University, Kyoto, Japan



Organized by

Meteorological Society of Japan (MSJ)

Chinese Meteorological Society (CMS)

Korean Meteorological Society (KMS)

Hosted by

Meteorological Society of Japan

Local Organizing Committee of the First Asian Conference on Meteorology

Supported by

Integrated Earth Science Hub, Graduate School of Science, Kyoto University

Sessions and Conveners

Plenary Session

Fumio Hasebe (Hokkaido University, Japan)

Session 1: Modeling and analysis of climate change and monsoons

Masahiro Watanabe (University of Tokyo, Japan)

Tianjun Zhou (LASG/IAP, China)

Jong-Seong Kug (POSTECH, Korea)

Kazuyoshi Kikuchi (IPRC, University of Hawaii, USA)

Session 2: Regional air pollution under changing climate

Toshihiko Takemura (Kyushu University, Japan)

Hua Zhang (China Meteorological Administration, China)

Sang-Woo Kim (Seoul National University, Korea)

Session 3: Climatic role of the middle atmosphere

Yoshio Kawatani (JAMSTEC, Japan)

Masatomo Fujiwara (Hokkaido University, Japan)

Yongyun Hu (Peking University, China)

Wenshou Tian (Lanzhou University, China)

Hye-Yeong Chun (Yonsei University, Korea)

Seok-Woo Son (Seoul National University, Korea)

Program Timetable

October 26 (Mon)

9:00-10:00 Registrations

10:00-12:00 Plenary Session (10 min x 3 + 30 min x 3)

Presidents' addresses

Key note talks

12:00-12:10 Logistics etc. / Group photo

12:10-13:30 Lunch time

<Hang Posters>

13:30-15:30 Parallel Oral Sessions (20 min x 6)

26A-1 Session 1 Modeling and analysis of climate change and monsoons

26A-2 Session 2 Regional air pollution under changing climate

26A-3 Session 3 Climatic role of the middle atmosphere

15:30-16:00 Coffee break

<Poster Viewing>

16:00-18:00 Parallel Oral Sessions (20 min x 6)

26B-1 Session 1 Modeling and analysis of climate change and monsoons

26B-2 Session 2 Regional air pollution under changing climate

26B-3 Session 3 Climatic role of the middle atmosphere

18:30-20:30 Banquet

at the restaurant "Camphora"

19:30-21:30 Business meeting (closed)

at Conference Room IV in Clock Tower Centennial Hall (2nd floor)

October 27 (Tue)

9:10-11:10 Parallel Oral Sessions (20 min x 6)

27A-1 Session 1 Modeling and analysis of climate change and monsoons

27A-2 Session 2 Regional air pollution under changing climate

27A-3 Session 3 Climatic role of the middle atmosphere

11:10-12:30 Poster Session + Coffee

12:30-14:00 Lunch time

<Poster Viewing>

14:00-15:40 Parallel Oral Sessions (20 min x 5)

27B-1 Session 1-1 Modeling and analysis of climate change and monsoons

27B-2 Session 1-2 Modeling and analysis of climate change and monsoons

27B-3 Session 3 Climatic role of the middle atmosphere

15:40-16:10 Coffee break

<Take off Posters>

16:10-17:50 Parallel Oral Sessions (20 min x 5)

27C-1 Session 1-1 Modeling and analysis of climate change and monsoons

27C-2 Session 1-2 Modeling and analysis of climate change and monsoons

27C-3 Session 3 Climatic role of the middle atmosphere

17:50 End of Sessions

<Adjourn>

18:00 Close doors

Program

October 26 (Mon) morning

Centennial Hall

Plenary Session

Presidents' addresses (Chair: Fumio Hasebe)

10:00-10:10 Hiroshi Niino (President of Meteorological Society of Japan)

10:10-10:20 Yongyun Hu (Vice President of Chinese Meteorological Society)

10:20-10:30 Joong-Bae Ahn (President of Korean Meteorological Society)

Key note talks (Chair: Fumio Hasebe)

10:30-11:00 Plenary-1 Toshitaka Tsuda (Kyoto University)
Characteristics of atmospheric gravity waves in the middle atmosphere
observed with radars and GPS radio occultation

11:00-11:30 Plenary-2 Yongyun Hu (Peking University)
Anthropogenic forcing on the Hadley circulation in CMIP5 simulations

11:30-12:00 Plenary-3 Byung-Ju Sohn (Seoul National University)
Recent Walker circulation changes seen from satellite measurements, CMIP
and AMIP simulations: The role of static stability

Abstract PDFs are available on the website
<<http://www.metsoc.jp/ACM2015/abstracts.html>>.

October 26 (Mon) afternoon (26A)

International Conference Hall 1

Session 1: Modeling and analysis of climate change and monsoons

26A-1 Monsoons I (Chair: Masahiro Watanabe)

- 13:30-13:50 O-1-01 Yimin Liu (IAP, Chinese Academy of Sciences) **invited talk**
Barrier of the Asian summer monsoon onset
- 13:50-14:10 O-1-02 Shoji Kusunoki (Meteorological Research Institute)
Are CMIP5 models better than CMIP3 models in simulating precipitation over East Asia?
- 14:10-14:30 O-1-03 Tianjun Zhou (IAP, Chinese Academy of Sciences)
Decadal change of Asian Monsoon and the Global Monsoons Modeling Inter-comparison Project (GMMIP)
- 14:30-14:50 O-1-04 Ja-Young Hong (Pusan National University)
Changes in early summer precipitation over the Northeast Asia in RCP scenarios simulated by WRF
- 14:50-15:10 O-1-05 Hirokazu Endo (Meteorological Research Institute)
Future changes in monsoon precipitation by high-resolution MRI-AGCM ensemble simulations with multi-SSTs and multi-physics
- 15:10-15:30 O-1-06 Zhaohui Lin (IAP, Chinese Academy of Sciences)
High temperature extremes in China: Observation and Modeling

International Conference Hall 2

Session 2: Regional air pollution under changing climate

26A-2 Modeling studies on air quality and climate I (Chair: Sang-Woo Kim)

- 13:30-13:50 O-2-01 Teruyuki Nakajima (JAXA) **invited talk**
A strategy for linking the regional air pollution knowledge to assessment of their global climate and environment impacts
- 13:50-14:10 O-2-02 Toshihiko Takemura (Kyushu University)
Simulations under recent projects on aerosol model intercomparisons
- 14:10-14:30 O-2-03 Makiko Nakata (Kinki University)
Impact of aerosols on climate change in East Asia
- 14:30-14:50 O-2-05 Yiran Peng (Tsinghua University)
Sensitivity of dust radiative forcing to representation of aerosol size distribution in GCM simulations

14:50-15:10 O-2-06 Jieun Wie (Chonbuk National University)
The impact of the Western Pacific Subtropical High on summer tropospheric
ozone in East Asia

International Conference Hall 3

Session 3: Climatic role of the middle atmosphere

26A-3 Polar processes (Chair: Yoshio Kawatani)

13:30-13:50 O-3-01 Kaoru Sato (The University of Tokyo) **invited talk**
On interplay of gravity waves and Rossby waves in the middle atmosphere

13:50-14:10 O-3-02 Yongyun Hu (Peking University)
Stratospheric ozone-induced Indirect radiative effects on Antarctic sea Ice

14:10-14:30 O-3-03 Wookap Choi (Seoul National University)
A new method of determining the date of the polar-vortex breakup and
formation in the stratosphere

14:30-14:50 O-3-04 Yoshihiro Tomikawa (National Institute of Polar Research)
Lagrangian analysis of dehydration processes inside the Antarctic polar vortex

14:50-15:10 O-3-05 Matthew Hitchman (University of Wisconsin - Madison)
Effects of ENSO on Southern Hemisphere jet structures

15:10-15:30 O-3-06 Yuhji Kuroda (Meteorological Research Institute)
Solar cycle modulation of Southern annular mode -energy-momentum analysis-

October 26 (Mon) afternoon (26B)

International Conference Hall 1

Session 1: Modeling and analysis of climate change and monsoons

26B-1 ENSO and teleconnection I (Chair: Jong-Seong Kug)

- 16:00-16:20 O-1-07 Soon-Il An (Yonsei University) **invited talk**
Nonlinear processes responsible for El Nino-La Nina amplitude asymmetry
- 16:20-16:40 O-1-08 Akio Kitoh (University of Tsukuba)
Future changes in rainfall extremes associated with El Nino projected by a global 20-km mesh atmospheric model
- 16:40-17:00 O-1-09 XiaoJing Jia (ZheJiang University)
The interdecadal change of ENSO impact on wintertime East Asian climate
- 17:00-17:20 O-1-10 Myon-In Lee (UNIST)
Increase of the predictability of the Arctic Oscillation by enhanced ENSO teleconnection after the mid-1990s
- 17:20-17:40 O-1-11 Hiroaki Ueda (University of Tsukuba)
Offset effects of continued Indian Ocean warming and recent Pacific cooling on the Asian monsoon
- 17:40-18:00 O-1-12 Yaocun Zhang (Nanjing University)
Linkage between upper-level jets over East Asia and East Asian winter monsoon variability

International Conference Hall 2

Session 2: Regional air pollution under changing climate

26B-2 Observations of air quality and clouds (Chair: Hua Zhang)

- 16:00-16:20 O-2-07 Hong Liao (Chinese Academy of Sciences) **invited talk**
Past and future changes in air quality in China and associated transboundary transport
- 16:20-16:40 O-2-08 Sang-Woo Kim (Seoul National University)
Changes in ground-level PM mass concentration and column aerosol optical depth over East Asia during 2004-2014
- 16:40-17:00 O-2-09 Greem Lee (Seoul National University)
Aircraft observations of high SO₂ and NO_x instances in the lower troposphere over the west of Seoul metropolitan area for 1997—2011

- 17:00-17:20 O-2-10 Seong Soo Yum (Yonsei University)
Measurements of physical and chemical properties of urban aerosols and their CCN activities in Seoul during the KORUS-AQ pre-campaign
- 17:20-17:40 O-2-11 Takuro Michibata (Kyushu University)
A study of cloud-to-rain conversion processes for warm cloud over East Asia and the North Pacific from A-Train observations
- 17:40-18:00 O-2-12 Jianping Guo (Chinese Academy of Meteorological Sciences)
An A-Train perspective on cloud-aerosol-precipitation-interaction over Eastern China

International Conference Hall 3

Session 3: Climatic role of the middle atmosphere

26B-3 Stratospheric sudden warming (Chair: Seok-Woo Son)

- 16:00-16:20 O-3-07 Baek-Min Kim (Korea Polar Research Institute) **invited talk**
Altered middle atmospheric responses driven by two types of sudden stratospheric warming
- 16:20-16:40 O-3-08 Masakazu Taguchi (Aichi University of Education)
Connection of predictability of major stratospheric sudden warmings to polar vortex geometry
- 16:40-17:00 O-3-09 Kazuaki Nishii (University of Tokyo)
Duration of stratospheric polar vortex intensification events
- 17:00-17:20 O-3-10 Soichiro Hirano (The University of Tokyo)
A three-dimensional analysis on the role of atmospheric waves in the interannual variability of stratospheric final warming in the Southern Hemisphere
- 17:20-17:40 O-3-11 Kanghyun Song (Seoul National University)
Predictability of sudden stratospheric warming events
- 17:40-18:00 O-3-12 Yayoi Harada (Meteorological Research Institute)
Extraordinary features of the planetary wave propagation during the boreal winter 2013/2014 and the zonal wavenumber two predominance

October 27 (Tue) morning (27A)

International Conference Hall 1

Session 1: Modeling and analysis of climate change and monsoons

27A-1 Global climate change (Chair: Tianjun Zhou)

- 9:10-9:30 O-1-13 Yu Kosaka (University of Tokyo) **invited talk**
Hiatus and acceleration of surface global warming due to tropical Pacific decadal variability
- 9:30-9:50 O-1-14 Jong-Seong Kug (POSTECH)
Amplified Arctic warming by phytoplankton under greenhouse warming
- 9:50-10:10 O-1-15 Long Cao (Zhejiang University)
Using the framework of fast response and slow feedback to understand climate change
- 10:10-10:30 O-1-16 Kunihiro Kodera (Nagoya University)
How can we understand the solar signal on the Earth's surface?
- 10:30-10:50 O-1-17 Seok-Woo Son (Seoul National University)
A robust widening of the Hadley cell from the LGM to the future climate
- 10:50-11:10 O-1-18 Masahiro Watanabe (University of Tokyo)
Generating a Database for Probabilistic Description of Future Climate Change (d4PDF)

International Conference Hall 2

Session 2: Regional air pollution under changing climate

27A-2 Modeling studies on air quality and climate II (Chair: Toshihiko Takemura)

- 9:10-9:30 O-2-13 Rokjin Park (Seoul National University) **invited talk**
Aerosol simulations using a new chemistry-climate model (GRIMs-Chem)
- 9:30-9:50 O-2-14 Daisuke Goto (NIES)
A model evaluation of global high-resolving simulated aerosol distributions
- 9:50-10:10 O-2-15 Hua Zhang (China Meteorological Administration)
The simulation study of global distribution of temporal and spatial variation of PM_{2.5} concentration
- 10:10-10:30 O-2-16 Makoto Kuji (Nara Women's University)
Atmospheric visibility variation over the Chinese continent from 1957 to 2005

10:30-10:50 O-2-17 Jun Zhao (Sun Yat-sen University)
Atmospheric oxidation products pertinent to new particle formation

10:50-11:10 O-2-18 Changsub Shim (Korea Environment Institute)
Potential impact of the national plan for future electric power supply on air quality in Korea

International Conference Hall 3

Session 3: Climatic role of the middle atmosphere

27A-3 Stratosphere-troposphere dynamics (Chair: Hye-Yeong Chun)

9:10-9:30 O-3-13 Wen Chen (Chinese Academy of Sciences) **invited talk**
Modulation of the connection between boreal winter ENSO and the south Asian high in the following summer by the QBO

9:30-9:50 O-3-14 Peter Haynes (University of Cambridge) **invited talk**
What causes the double peak in upwelling in the tropical lower stratosphere?

9:50-10:10 O-3-15 Chiaki Kobayashi (Meteorological Research Institute)
Changes in the Brewer-Dobson circulation in JRA-55

10:10-10:30 O-3-16 Junsu Kim (Seoul National University)
On the uncertainty of the annular mode time scale

10:30-10:50 O-3-17 Ze-Yu Chen (Chinese Academy of Sciences)
Simulation of generation of stratospheric gravity waves in upper-tropospheric jet stream accompanied with a cold vortex over Northeast China

10:50-11:10 O-3-18 Min-Jee Kang (Yonsei University)
Characteristics of convective gravity waves in Asian summer monsoon region

October 27 (Tue) afternoon (27B)

International Conference Hall 1

Session 1: Modeling and analysis of climate change and monsoons

27B-1 Intraseasonal variability (Chair: Myon-In Lee)

- 14:00-14:20 O-1-19 Harry Hendon (Bureau of Meteorology) **invited talk**
On the role of anomalous ocean surface temperatures for promoting the record Madden-Julian Oscillation in March 2015
- 14:20-14:40 O-1-20 Tetsuo Nakazawa (NIMR/KMA)
Predictive skill of the MJO event in March 2015 from the S2S database
- 14:40-15:00 O-1-21 Xuejuan Ren (Nanjing University)
Characteristics and mechanism of subseasonal eastward extension of South Asian high
- 15:00-15:20 O-1-22 Yang Chen (Nanjing U. of Information Science & Tech.; CAMS)
Synoptic-scale precursors of East Asia/ Pacific teleconnection responsible for persistent precipitation extremes in the Yangtze river valley
- 15:20-15:40 O-1-23 Anmin Duan (IAP, Chinese Academy of Sciences)
Impact of sub-daily air-sea interaction on simulating intraseasonal oscillations over the tropical Asian monsoon region

International Conference Hall 2

Session 1: Modeling and analysis of climate change and monsoons

27B-2 Monsoons II (Chair: Yoshiyuki Kajikawa)

- 14:00-14:20 O-1-24 Toshiki Iwasaki (Tohoku University)
Isentropic analysis of polar cold air mass streams in the Northern Hemispheric winter monsoon
- 14:20-14:40 O-1-25 Rongcai Ren (IAP, Chinese Academy of Sciences)
An effective indicator of cold air outbreaks in northern winter: the intensity variation of the meridional mass circulation
- 14:40-15:00 O-1-26 Tri W. Hadi (Bandung Institute of Technology)
A spherical harmonics method for analyzing coherent structures of large-scale convections in monsoon regions
- 15:00-15:20 O-1-27 Tomoe Nasuno (JAMSTEC)
Interannual variability of the East Asian monsoon in June, July, and August in objective analysis and global nonhydrostatic simulations

15:20-15:40 O-1-28 Ke Xu (IAP, Chinese Academy of Sciences)
Change in TC activity during the break of the western North Pacific summer monsoon in early August

International Conference Hall 3

Session 3: Climatic role of the middle atmosphere

27B-3 Tropical processes (Chair: Wenshou Tian)

14:00-14:20 O-3-19 Changhyun Yoo (Ewha Womans University) **invited talk**
The quasi biennial oscillation regulation of the Madden Julian oscillation

14:20-14:40 O-3-20 Marvin Geller (Retired) **invited talk**
The QBO, gravity waves forced by tropical convection, and ENSO

14:40-15:00 O-3-21 Ji-Eun Kim (NorthWest Research Associates)
Wave influence on thin cirrus clouds in the tropical tropopause layer

15:00-15:20 O-3-22 Eriko Nishimoto (Kyoto University)
Vertical momentum transports associated with moist convection and gravity waves in a minimal model of QBO-like oscillation

15:20-15:40 O-3-23 Young-Ha Kim (Yonsei University)
Momentum budget of the quasi-biennial oscillation in a GCM and reanalyses

October 27 (Tue) afternoon (27C)

International Conference Hall 1

Session 1: Modeling and analysis of climate change and monsoons

27C-1 ENSO and teleconnection II (Chair: Anmin Duan)

- 16:10-16:30 O-1-29 Na Wen (Nanjing U. of Information Science and Technology)
Direct impact of El Niño on East Asian summer precipitation in the observation
- 16:30-16:50 O-1-30 Yoshiyuki Kajikawa (RIKEN AICS)
Role of the SST over the East China Sea in the linkage between East Asian winter and summer monsoon variability
- 16:50-17:10 O-1-31 Song Jie (IAP, Chinese Academy of Sciences)
Contrasting relationship between tropical western North Pacific convection and rainfall over East Asia during Indian Ocean warm and cold summers
- 17:10-17:30 O-1-32 Xiaowei Hong (IAP, Chinese Academy of Sciences)
The meridional displacement of summer Asian jet, Silk Road Pattern, and tropical SST anomalies
- 17:30-17:50 O-1-33 Shan He (Sun Yat-sen University)
Influence of latent heating over southern Asia on Sahel summer rainfall

International Conference Hall 2

Session 1: Modeling and analysis of climate change and monsoons

27C-2 Monsoons III (Chair: Yaocun Zhang)

- 16:10-16:30 O-1-34 Shiori Sugimoto (Tokyo Metropolitan University)
A difference of diurnal variation in simulated precipitation characteristics with and without cloud convective scheme
- 16:30-16:50 O-1-35 Qinglong You (Nanjing U. of Information Science and Tech.)
Simulated and observed diurnal temperature range in CMIP5 model in the Tibetan Plateau
- 16:50-17:10 O-1-36 Jian Ling (IAP, Chinese Academy of Sciences)
Impact of East Asian winter monsoon on MJO over the equatorial western Pacific
- 17:10-17:30 O-1-37 Zhihua Pan (China Agricultural University)
Spatial-temporal characteristics of sensible heat variation in China under the background of climate change
- 17:30-17:50 O-1-38 Feng Chen (Sun Yat-sen University)
The challenges of heat extreme events to the urbanization over Asia

International Conference Hall 3

Session 3: Climatic role of the middle atmosphere

27C-3 Atmospheric chemistry and dynamics (Chair: Masatomo Fujiwara)

- 16:10-16:30 O-3-24 Wenshou Tian (Lanzhou University) **invited talk**
Ozone and climate responses to regional emission changes in East Asia
- 16:30-16:50 O-3-25 Hideharu Akiyoshi (NIES)
ODS and GHG dependences of ozone destruction in the northern mid and high latitudes in a chemistry-climate model
- 16:50-17:10 O-3-26 Fei Xie (Beijing Normal University)
A quantitative estimation of the transport of surface emissions from high population density regions into the stratosphere
- 17:10-17:30 O-3-27 Yosuke Yamashita (NIES)
The QBO and 11-year solar cycle influences on the Northern Hemisphere extratropical winter circulation
- 17:30-17:50 O-3-28 Ziniu Xiao (IAP, Chinese Academy of Sciences)
A numerical simulation study on the climate response to ultraviolet irradiation forcing

Posters

Session 1: Modeling and analysis of climate change and monsoons

P-1-01 Muhammad Rais Abdillah (Tohoku University)

Tropical-extratropical interactions associated with East Asian cold air outbreaks

P-1-02 Yeon-Woo Choi (Pusan National University)

November seesaw in Northern Hemisphere sea level pressure and its linkage to the preceding wintertime Arctic Oscillation

P-1-03 Sunyong Kim (POSTECH)

How well do climate models simulate atmospheric teleconnection over East Asia and North Pacific associated with ENSO?

P-1-04 Hye-Jin Park (Pusan National University)

Influence of combined effect of AO and WP pattern on East Asian winter monsoon

P-1-05 Maowei Wu (Inst. of Geographic Sciences and Natural Resources Res., CAS)

Spatial pattern of inter-decadal variation of summer precipitation in eastern China: Comparison of observation with CESM control simulation

P-1-06 Hong Lu (Guangxi Climate Center)

A particle swarm optimization - Neural network ensemble prediction model for persistent freezing rain and snow storm

P-1-07 Jie-Lin He (Guangxi Climate Center)

Variations of summertime tropical cyclones in the western North Pacific in background of global warming

P-1-08 Hyerim Kim (UNIST)

Assessment of Influence of boreal winter MJO teleconnection on the extratropics simulated by dynamical seasonal forecasting systems

P-1-09 Nakbin Choi (UNIST)

Decadal changes in the leading patterns of sea level pressure and their impacts on the Arctic sea ice variability in boreal summer

P-1-10 Hui Li (NanJing U. of information science and technology)

Response of summer precipitation over the Yangtze river basin to the equatorial Pacific SST anomalies: A simulation study with CAM3

P-1-11 Joung-Ho Lee (Korea Environment Institute)

Development of climate change adaptation platform using Spatial information

P-1-12 Ding Yi (Guizhou Meteorological Administration)

Design and development of android analysis system of climate change in Guizhou

P-1-13 Feng Xie (IAP, Chinese Academy of Sciences)

How do the parameter variations in the moist processes affect the temperature and circulation simulations in the lower-troposphere?

P-1-14 Nurfiena Sagita Putri (Tohoku University)

The evolution of microphysical properties of tropical MCSs

P-1-16 Haoyuan Hong (Jiangxi Meteorological Bureau)

Rainfall induced landslide susceptibility assessment at the Chongren area (China) using frequency ratio, certainty factor and index of entropy model

P-1-18 Tao Feng (Nanjing University)

A comparison study between two long-lasting synoptic-scale wave trains and associated tropical cyclogenesis

P-1-19 Liang Wu (IAP, Chinese Academy of Sciences)

Influence of the monsoon trough on westward-propagating tropical waves over the western North Pacific

P-1-20 Yin Du (Nanjing U. of Information, Science and Technology)

Interannual variability of the Asian subtropical westerly jet in boreal summer and associated with circulation and SST anomalies

P-1-21 Hyeonjae Lee (UNIST)

Mie scattering LiDAR observation of Asian dust event over the Ulsan located on the east coast of South Korea

P-1-22 Min-Sang Kim (UNIST)

Comparison of three machine learning techniques for detecting tropical cyclone genesis from WindSat

P-1-23 Dongmin Kim (UNIST)

Evaluation of ecosystem-level carbon use efficiency in CMIP5 Earth system model using remote sensing data

P-1-24 Dan Zhu (Nanjing U. of Information, Science and Technology)

Evaluation of WRF model simulations of a high impact event with Tornado on 31th MAY 2015

P-1-25 Cuijiao Chu (Nanjing University)

Effect of the tropical Indian-Pacific warming on winter snow depth decadal increase over Tibetan Plateau during 1950-1999

P-1-26 Anning Huang (Nanjing university)

Evaluation of the summer precipitation over China simulated by BCC_CSM model with different horizontal resolutions during the recent half century

P-1-27 Junchen Yao (IAP, Chinese Academy of Sciences)

Distribution and interannual variability of tropical cyclone genesis over the western North Pacific simulated by a regional coupled model—FROALS: Comparison with an uncoupled model

P-1-28 Dongdong Peng (University of Chinese Academy of Sciences)

Simulations and projections of the extreme precipitation over global monsoon domain In FGOALS-g2

P-1-29 Yamin Hu (Guangdong Meteorological Administration)

Dominant large-scale atmospheric circulation systems for the extreme precipitation over the western sichuan basin in summer 2013

P-1-30 Daehyun Kang (UNIST)

Seasonal prediction of the East Asian winter monsoon and its decadal change

P-1-31 Sunju Lee (UNIST)

Future changes in Asian-Australian monsoon and vegetation simulated by CMIP5 ESMs in the RCP scenario runs

P-1-32 Hye-Jin Kim (Seoul National University)

The impact of Arctic sea ice melt on the Eurasian winter cooling trend of recent decades

P-1-33 Ji-Hui Kim (Jeju National University)

Interbasin differences in environmental factors related to tropical cyclone genesis

P-1-34 Chul-Min Ko (Jeju National University)

Typhoon-ocean coupled predictions using the MPAS global model and the western North Pacific regional model

P-1-35 Jae-Won Choi (NIMR/KMA)

The recent strengthening of Walker circulation

P-1-36 You-Hyun Baek (Jeju National University)

Diurnal variations of sea surface temperature around the Korean peninsular

P-1-37 Tae-yun Lee (Jeju National University)

Effect of storm traces in data on the correlation analysis between tropical cyclone activity and environmental factors

P-1-38 Ke Xu (IAP, Chinese Academy of Sciences)

Change in TC activity during the break of the western North Pacific summer monsoon in early August

P-1-39 Xiaowei Hong (IAP, Chinese Academy of Sciences)

The meridional displacement of summer Asian jet, Silk Road Pattern, and tropical SST anomalies

P-1-40 Yu Luo (Meteorological Bureau of Sichuan Province)

Trend of extreme temperature in Southwest China in recent 41 years

P-1-41 Seung-Yong Lee (Jeju National University)

Validations of surface salinity estimated from Aquarius/SAC-D for summertime changjiang diluted water

P-1-42 Hye-Ji Kim (Jeju National University)

Prediction of typhoon-induced accumulated rainfall over the Korean peninsula based on historical track and intensity database

P-1-43 Xuezheng Zhang (Inst. of Geographical Sciences and Natural Resources Res., CAS)

Simulated effects of irrigation on local climate in the Heihe watershed, China

P-1-44 Jieun Wie (Chonbuk National University)

Driving a mechanism for El Nino amplitude change by a biogeochemical process

P-1-45 Jieun Wie (Chonbuk National University)

Driving a mechanism for AMOC decadal variability using HadGEM2-AO

P-1-46 Hua Chen (Nanjing U. of Information Science and Technology)

Response of tropical atmosphere to diabatic heating and its relation with ENSO

P-1-47 Reona Sato (Fukuoka University)

Intraseasonal variability of temperature in late winter detected in the normal value averaged over 30 years

P-1-48 Yeong-Eun Yoo (Seoul National University)

Abrupt decrease in winter cold nights in Korea in the late 1980's

P-1-49 Sojung Park (Ewha Womans University)

Effects of the interannual variability in the growing season of deciduous needleleaf forest in Siberia on the local climate

P-1-50 Takafumi Miyasaka (The University of Tokyo)

Long-term modulations of decadal climate variability over the North Pacific and their future projection in CMIP5 models

P-1-51 Julie Mae-Borejon Dado (Tokyo Metropolitan University)

The Impact of sea surface temperature on the southwest monsoon rainfall over western Philippines

P-1-53 Hiroshi G. Takahashi (Tokyo Metropolitan University)

Different sensitivities of precipitation to surface condition in terms of with or without cumulus parameterization and horizontal resolution

P-1-54 Young Ryu (NIMR/KMA)

Generation of hydrometeorological data in land surface model based detailed soil properties over the Korean peninsula

P-1-55 Shuangmei Ma (University of Chinese Academy of Sciences)
Observed changes in the distributions of daily precipitation frequency and amount over China from 1960–2013

P-1-57 Yuta Ando (Mie University)
Impact of Typhoon-induced sea surface cooling on the track of next Typhoon

P-1-58 Li Deng (Nanjing U. of Information Science and Technology)
Relative roles of background moisture and vertical shear in regulating inter-annual variability of boreal summer intra-seasonal oscillations

P-1-59 Jong-Seong Kug (POSTECH)
Two distinct influences of Arctic warming on cold winters over North America and East Asia

P-1-60 Tetsuo Nakazawa (NIMR/KMA)
International research project on sub-seasonal to seasonal prediction

P-1-61 Sung-Yoon Kim (UNIST)
Evaluations of the parameterized deep convection using a cloud-resolving model

P-1-62 You-Jeong Oh (Jeju National University)
Typhoon intensity consensus predictions based on various performance evaluations for guidance models

P-1-63 Wenjuan Huo (University of Chinese Academy of Sciences)
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