





Fourth Japan-China-Korea Joint Conference on

Meteorology

26-28 May 2009, Tsukuba, Japan

Third Circular

28 April 2009, second edition

Organized by

Meteorological Society of Japan,

Chinese Meteorological Society

Korean Meteorological Society

Hosted by

Local Organizing Committee (LOC) of Japan-China-Korea Joint Conference,

Meteorological Society of Japan

Supported by Tsukuba City

Conference URL: http://www.soc.nii.ac.jp/msj/jckjc09/

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Attached file: Application Form for Tsukuba Science Tour

Background and Objectives

Meteorological Society of Japan (MSJ), Chinese Meteorological Society (CMS), and Korean Meteorological Society (KMS) have agreed to strengthen the mutual cooperation and friendship in the field of Atmospheric Science on the basis of equal benefits, organize regional activities in the field of meteorology, and widely inform the activities of the meteorological societies of Japan, China, and Korea to the world community. Based on this agreement, three international conferences have been held in the past:

- (1) First China-Korea-Japan Joint Conference on Meteorology
 - 13-14 May 2005, Tokyo, Japan
- (2) Second Korea-Japan-China Joint Conference on Meteorology 11-13 October 2006, KINTEX, Goyang, Korea
- (3) Third China-Korea-Japan Joint Conference on Meteorology 13-16 November 2007, Beijing, China

After the consultation on the successful cooperation, the three parties have reached an agreement to continue the second round of the joint conferences once in every two years.

We encourage you to participate in the Fourth Japan-China-Korea Joint Conference on Meteorology.

Venue and Date

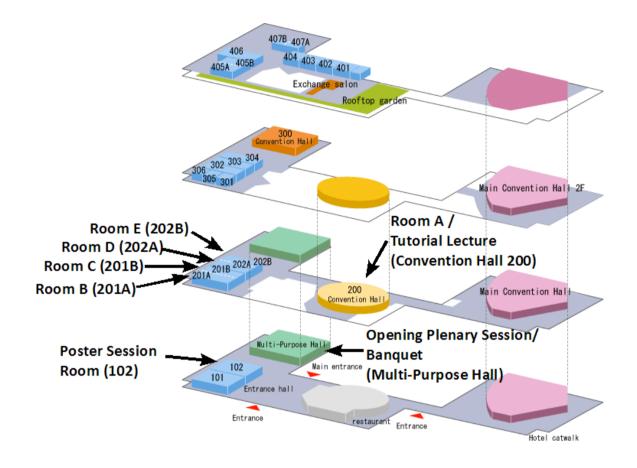
Venue: Epochal Tsukuba International Congress Center, Tsukuba Japan URL: <u>http://www.epochal.or.jp/eng/index.html</u>

Date: 26 (Tuesday) -28 (Thursday) May 2009.



Tsukuba International Congress Center © 2007 Epochal Tsukuba

Floor and conference room guide



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Time Table

Date	Time	Room A Convention Hall 200	Room B Conference Room 201A	Room C Conference Room 201B	Room D Conference Room 202A	Room E Conference Room 202B	Poster Session Conference Room 102
	8:00- 9:00			Registration			
26 May 2009	9:00- 11:40	Opening Plenary Session Invited talks (Multi-Purpose Hall)					
	11:40- 13:00	Lunch time					
	13:00- 17:30	S-3 Atmospheric Aerosol, Gases, and Radiation	S-4 Future Climate Projection and Impact	S-5 Typhoon and Meso-scale Phenomenon	S-2 Monsoon	S-1 Numerical Weather Prediction	
	18:30- 20:30	Banquet (Multi-Purpose Hall)					
	8:30- 12:00	S-3 Atmospheric Aerosol, Gases, and Radiation	S-8 General Session and Other Topics	S-5 Typhoon and Meso-scale Phenomenon	S-2 Monsoon	S-1 Numerical Weather Prediction (8:30-9:45) S-6 Satellite	Poster Session Posters
27						Remote Sensing (10:00-12:15)	should be put up from 8:00
May 12:00- 2009 14:00 Poster Session core time(Confe			e(Conference R	oom 102) / Lui	nch time	to 16:30.	
	14:00- 18:30	S-3 Atmospheric Aerosol,	S-7 Boundary Layer	S-5 Typhoon and Meso-scale	S-2 Monsoon	S-6 Satellite Remote	
		Gases, and Radiation	Meteorology	Phenomenon		Sensing	
18:30- 20:00Tutorial lecture by Prof. Eugenia Kalnay (Conventi "Introduction to data assimilation"				•	Hall 200)		

Opening Plenary Session (26 May)

- 9:00 9:20 Opening Ceremony
- 9:20 9:55 Special lecture

Eugenia KALNAY (University of Maryland) Title: The future of data assimilation

- 9:55 10:10 Break
- Keynote lectures
- 10:10 –10:40 Tatsushi TOKIOKA (JAMSTEC) Title: Global Warming Projection Research in Japan
- 10:40 –11:10 Ronghui HUANG (Institute of Atmospheric Sciences, Chinese Academy of Sciences) Title: Interdecadal Variations of the East Asian Winter Monsoon and Their Association with Quasi-Stationary **Planetary Wave Activity**
- 11:10 –11:40 **Dong-Kyou LEE** (AOGS President, Seoul National University) Title: Regional Climate Modeling on Extreme Climate

Scientific Sessions (26 – 27 May)

Guidelines for presentation

Scientific sessions take place at five oral session rooms and one poster session room. Please check information carefully for the exact time and location of the sessions. A tentative list of presentations is available at the end of this circular. If you will make a presentation, please check your name and the title of the presentation.

Oral presentation

Time allocation

The time allocated for each presentation is 15 minutes (12 minutes presentation, 3 minutes for Q&A), except keynote presentations.









Equipments

Oral presentations should be presented by PC only. The session rooms are provided with a Microsoft Windows computer with a projector. Acceptable formats for presentations are Microsoft PowerPoint and PDF. The presenters are requested to bring their presentation data file on an USB memory stick, or bring their own portable computers. <u>Please make sure that virus check is executed beforehand.</u>

Poster presentation

Poster boards

Size: Width 90 cm x Height 210 cm

Posters should be displayed on the boards using push pins that will be available at the poster session room. The presenters are responsible for setting up and removing their posters.

Poster display and core time

All posters will be displayed at the poster session room (Conference Room 102). Posters should be set up between 8:00 and 12:00 on 27 May, and remain up to 16:30. Presenters must show up in front of their posters at least for one hour during the core time of 12:00 to 14:00 on 27 May.

Tutorial lecture (27 May)

After the oral sessions, a tutorial lecture especially for young scientists will be presented.

Presenter: **Prof. Eugenia KALNAY** (University of Maryland) Title: **Introduction to data assimilation** Time and date: 18:30 – 20:00, 27 May 2009 Location: Convention Hall 200



Excursion: Tsukuba Science Tour (28 May)

On 28 May, there are two Tsukuba Science Tours. Please check one of the tours you would like to participate and <u>return the application form to the secretariat</u> (jckjc09@mri-jma.go.jp) by 8 May (Friday), 2009. The application form is attached in this PDF file of Third Circular, or can be obtained from the conference website.

- Tour 1: Tour 1 leaves from Epochal at 8:00 and returns at Epochal at 17:10, and visits the following institutes; Meteorological Research Institute (MRI), National Institute of Advanced Industrial Science and Technology (AIST), Univ. of Tsukuba and Mt. Tsukuba.
- **Tour 2**: Tour 2 leaves from Epochal at 9:10 and returns at Epochal at 16:00, and visits the following institutes; Geophysical Survey Institute (GSI), AIST, JAXA and MRI.

Due to the size of the buses, we can carry 50 passengers for Tour 1 and 26 for Tour 2. Please keep in mind that the final participants will be determined by signing at the conference registration desk, until the seats will be filled up. The Japanese participants may get their seats if the seats are still available after the Chinese and Korean participants applied. The final participant lists for each Tour will be available in print and displayed in the morning of 27 May at the registration desk. We will notify that you are selected or not selected as the final participant via e-mail on 26 May.

Registration

On-line registration and abstract submission are over. On-site registration without a presentation and banquet tickets are still acceptable. We solicit your participation to this conference.

Registration fees

	On-site
Standard	12,000JPY
Student*	3,000JPY

*Students are requested to write their supervisor's name on the registration form.

Banquet fees

Additional 6,000 JPY (3,000 JPY for students) will be charged for a banquet ticket.

Cancellation and refund policy

In case of cancellation, registration and banquet fees are not refunded. Cancellations should be notified to the secretariat by a written document with your name.

Important Dates and Deadlines

Third Circular Joint Conference March→ April, 2009 May 26-28, 2009

Organizing Committees

International Organizing Committee

Japan:	Yutaka KONDO	The University of Tokyo (Chair person)
	Hiroshi L. TANAKA	University of Tsukuba (Vice chair person)
China:	Fei HAN	Chinese Meteorological Administration
	Weimin ZHANG	Chinese Meteorological Society
Korea:	B.J. SOHN	Seoul National University
	Myoung-Seok SUH	Kongju National University

Local Organizing Committee

Yutaka KONDO	The University of Tokyo (Chair person)
Hiroshi L. TANAKA	University of Tsukuba (Vice chair person)
Hiroaki KONDO	National Institute of Advanced Industrial Science
	and Technology
Akio KITOH	Meteorological Research Institute
Tetsuo NAKAZAWA	Meteorological Research Institute
Masao MIKAMI	Meteorological Research Institute
Kenichi UENO	University of Tsukuba
Takehiko SATOMURA	Kyoto University
Taichu Y. TANAKA	Meteorological Research Institute (Secretary)

LOC Secretariat

Taichu Y. TANAKA Meteorological Research Institute 1-1-1, Nagamine, Tsukuba 305-0052 Japan Tel: +81-29-853-8713, Fax: +81-29-855-7420 E-mail: jckjc09@mri-jma.go.jp URL: http://www.soc.nii.ac.jp/msj/jckjc09

Travel Information

Accommodation

A couple of hotels are available in the Tsukuba area at a reasonable price. Please make reservations by yourself in reference to the following hotel list. If you are required to have other special arrangements, please contact to the LOC.

For further information, please visit

http://www.epochal.or.jp/eng/hotels/index.html

Okura Frontier Hotel Tsukuba EPOCHAL (<u>http://www.okura-tsukuba.co.jp/english/</u>) Okura Frontier Hotel Tsukuba (<u>http://www.okura-tsukuba.co.jp/</u>) Hotel Grand Shinonome (<u>http://www.hg-shinonome.co.jp/</u>)

Visa information

Information of visa for visiting Japan can be found in the "Guide to Japanese Visas" at the website of Ministry of Foreign Affairs (<u>http://www.mofa.go.jp/j_info/visit/visa/</u>).

Climate of Tsukuba city

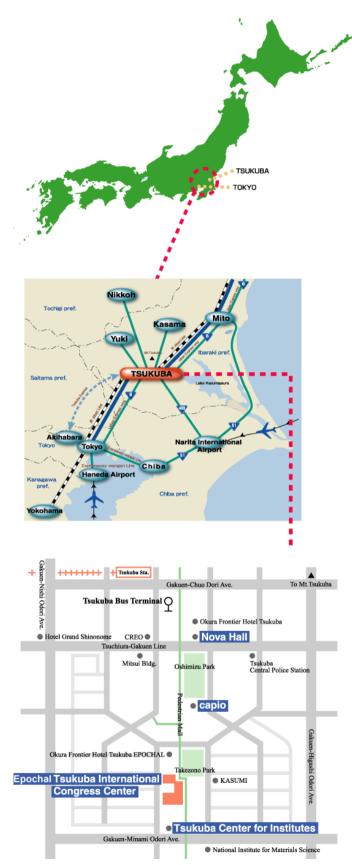
Late May is one of the most beautiful times of the year to visit Tsukuba Science City. Temperatures usually hover around 15-20 degrees C and the climate is generally dry.

Transportation

Travel arrangements should be made individually. When arriving at Narita International Airport, convenient express bus transportation is available directly from Narita to Tsukuba by the Keisei Express Line. For further information, please visit following sites.

http://www.okura-tsukuba.co.jp/eng/access.php http://www.epochal.or.jp/eng/access/index.html http://www.intio.or.jp/tsukuba.cb/e_03acs.html

Fourth Japan-China-Korea Joint Conference on Meteorology



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Tentative List of presentations

This is a tentative list of all presentations. <u>If you will make a presentation, please</u> <u>check your name and the title of the presentation.</u> If you found some mistakes in the list, please inform the secretariat (<u>jckjc09@mri-jma.go.jp</u>) as soon as possible.

- Family names are written in CAPITALS.
- Asterisk (*) denotes the corresponding author.
- First five authors are listed, and authors more than six are listed as "et al."

S-1. Numerical Weather Prediction

Session Conveners: Kazuo SAITO, Xueshun SHEN, and Hyeong-Bin CHEONG Location: Room E (Conference Room 202B)

26 May 13:00-15:00 Chair: Xueshun SHEN

Climate, global model and scheme

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S1-01 Daisuke NOHARA*, Yoshikatsu YOSHIDA, Howeng KANG and Ashok KARUMURI: SEASONAL
FORECAST USING A STATISTICAL DOWNSCALING METHOD: ITS VERIFICATION AND
APPLICATION
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- S1-02 Jianping TANG* and Shi SONG: IMPACT OF SPECTRAL NUDING ON REDUCING THE SENSITIVITY OF DOMAIN POSITION AND SIZE IN REGIONAL CLIMATE SIMULATIONS
- S1-03 Xueshun SHEN*, Wei HAN, Jishan XUE, Jian SUN, Zhaorong ZHUANG, et al.: DEVELOPMENT OF NEW GLOBAL FORECAST SYSTEM IN CMA
- S1-04 Kengo MIYAMOTO*: RENOVATION OF JMA-GSM
- S1-05 Hiroshi L. TANAKA* and Shinji TAKAHASHI: NUMERICAL SIMULATION OF ARCTIC AND TROPICAL CYCLONES USING NICAM INSTALLED AT CCS UNIVERISTY OF TSUKUBA
- S1-06 Xindong PENG*, Chang YAN, Xiao FENG and Takahashi KEIKO: SEMI-LAGRANGIAN COMPUTATION OF GRAVITY WAVES ON SPHERE
- S1-07 Guoqiang XU*, Jishan XUE, Jian SUN, Xueshun SHEN and Dehui CHEN: THE PROGRAM STRUCTURE DESIGNING AND OPTIMIZING TESTS OF GRAPES PHYSICS
- S1-08 Mingxuan SHAO*, Minquan XIONG, Huanzhu LIU and Hua XU: USING KERNEL NEIGHBOR NONPARAMETRIC ESTIMATION TECHNIQUE TO PREDICT WIND

Break

26 May 15:15-17:30 Chair: Hyeong-Bin CHEONG

Typhoon, regional model and heavy rainfall

- S1-09 Weiyu DING* and Qilin WAN: THE SIMULATION OF CHANCHU TYPHOON INFRARED CHANNELS BRIGHTNESS TEMPERATURES
- S1-10 In-Hyuk KWON* and Hyeong-Bin CHEONG: TYPHOON TRACK AND INTENSITY PREDICTION WITH THE TROPICAL CYCLONE INITIALIZATION SCHEME AND WRF MODEL
- S1-11 Jian SUN*, Xueshun SHEN, Dehui CHEN and Jishan XUE: THE DEVELOPMENT OF GRAPES MESO-SCALE NWP SYSTEM
- S1-12 Ryoji NAGASAWA*: RADIATION PROCESS OF THE JMA NONHYDROSTATIC MODEL

- S1-13 Kazuo SAITO*, Masaru KUNII, Masahiro HARA, Hiromu SEKO, Munehiko YAMAGUCHI, et al.: DEVELOPMENT OF A MESOSCALE ENSEMBLE PREDICTION SYSTEM FOR THE WWRP BEIJING OLYMPIC 2008RDP EXPERIMENT
- S1-14 Ke-Kuan CHU* and Zhe-Min TAN: MESOSCALE MOIST ADJOINT SENSITIVITIES STUDY OF A MEIYU HEAVY RAINFALL EVENT
- S1-15 Masaru KUNII*, Masahiro HARA, Kazuo SAITO and Hiromu SEKO: MESOSCALE ENSEMBLE FORECAST EXPERIMENT AND SENSITIVITY ANALYSIS OVER JAPAN AREA
- S1-16 Ji-Hyun HA*, Suk-Jin CHOI and Dong-Kyou LEE: RADAR AND SURFACE DATA ASSIMILATION FOR THE SIMULATION OF HEAVY RAINFALL
- S1-17 Hiromu SEKO*, Masaru KUNII, Yoshinori SHOJI and Toshitaka TSUDA: IMPACTS OF GPS RADIO OCCULTATION DATA OF CHAMP AND COSMIC ON THE PREDICTIONS OF HEAVY RAINFALL AND TYPHOON FORMATION

27 May 8:30-9:45 Chair: Kazuo SAITO

Global data assimilation

- S1-18 Zhaorong ZHUANG*, Jishan XUE, Wei HAN, Yan LIU, Huijuan LU, et al.: RECENT IMPROVEMENT OF THE GLOBAL GRAPES-3DVAR ANALYSIS SYSTEM
- S1-19 Jishan XUE* and Lin ZHANG: DEVELOPMENT OF GRAPES 4DVAR
- S1-20 Takemasa MIYOSHI*, Eugenia KALNAY and Kayo IDE: DEVELOPMENT OF PARALLEL LOCAL ENSEMBLE TRANSFORM KALMAN FILTER WITH A SIMPLIFIED AGCM
- S1-21 Fei ZHENG* and Jiang ZHU: A BALANCED ENSEMBLE INITIALIZATION SCHEME OF ENSEMBLE DATA ASSIMILATION
- S1-22 Wei HAN*, Jishan XUE, Zhaorong ZHUANG, Yan LIU and Xueshun SHEN: THE USE OF SATELLITE DATA IN CHINESE NEW GFS

S-2. Monsoon

Session Conveners: Jun MATSUMOTO, Jianping LI, and Kyung-Ja HA Location: Room D (Conference Room 202A)

26 May 13:00-14:45 Chair: Kyung-Ja HA

Monsoon Seasonal Changes

- S2-01 Jianping LI* and Li ZHANG: TWICE WIND ONSETS OF MONSOON OVER THE WESTERN NORTH PACIFIC
- S2-02 Jiangyu MAO* and Guoxiong WU: INFLUENCES OF THE TYPHOON CHANCHU ON THE 2006 SOUTH CHINA SEA SUMMER MONSOON ONSET
- S2-03 Yoshinori MORI and Kuranoshin KATO*: ON THE PRECIPITATION PEAK AROUND THE NORTHWESTERN KYUSHU IN JAPAN AS THE SEASONAL TRANSITION FROM MIDSUMMER TO AUTUMN RAINFALL (AKISAME) SEASON IN EAST ASIA
- S2-04 Masato I. NODZU*, Shin-Ya OGINO and Manabu YAMANAKA: GENARATION PROCESS OF STABLE LAYERS IN THE LOWER TROPOSPHERE OVER THE INLAND OF INDOCHINA PENINSULA
- S2-05 **Congwen ZHU*, Bin WANG and Weihong QIAN**: WHY DO DUST STORMS DECREASE IN NORTHERN CHINA CONCURENTLY WITH THE RECENT GLOBAL WARMING?

Land-atmosphere interactions

S2-06 Takao YOSHIKANE*, Masayuki HARA, Hiroaki KAWASE and Fujio KIMURA : VEGETATION FRACTION EFFECT ON EARLY SUMMER LARGE RAIN BAND IN EAST ASIA S2-07 Jun MATSUMOTO*, Ryoji YAMASHIMA and Kumiko TAKATA: IMPACTS OF LAND USE CHANGES BETWEEN 1700 AND 1850 ON MONSOON SEASONAL CHANGES

Break

26 May 15:00-17:15 Chair: Jianping LI

Tibetan Plateau

- S2-08 Yaoming MA*: RECENT PROGRESS ON THE STUDY OF LAND-ATMOSPHERIC INTERACTION OVER THE TIBETAN PLATEAU AREA
- S2-09 Kenji TANIGUCHI*, Toshio KOIKE, Ken'ichi UENO and Xiangde XU: THE INCREASE IN ATMOSPHERIC TEMPERATURE OVER THE TIBETAN PLATEAU IN EARLY SPRING AND PRE-MONSOON SEASON
- S2-10 Shiori SUGIMOTO*, Weiming SHA and Kenichi UENO: TRANSPORTATION OF WATER VAPOR INTO THE TIBETAN PLATEAU IN THE CASE OF PASSAGE OF A SYNOPTIC TROUGH

Monsoon modeling

- S2-11 Qing BAO*, Guoxiong WU, Yimin LIU, Jing YANG, Zaizhi WANG, et al.: SIMULATED EAST ASIAN SUMMER MONSOON IN FGOALS-S1.1
- S2-12 **Chi-Yung F. TAM* and Doo-Young LEE**: THE RELATIVE ROLES OF CONVECTIVE PARAMETERIZATION AND AIR-SEA INTERACTION IN GCM SIMULATIONS OF THE EAST ASIAN SUMMER MONSOON
- S2-13 Akiyo YATAGAI*, Tiruvalam N. KRISHNAMURTI, Akhilesh Kumar MISHRA and Anu SIMON: USE OF A DENSE RAIN-GAUGE NETWORK OVER MONSOON ASIA FOR IMPROVING BLENDED TRMM PRODUCTS AND DOWNSCALED WEATHER MODELS
- S2-14 Anmin DUAN*, Chunghsiung SUI and Guoxiong WU: TOWARDS THE LOCAL AIR-SEA INTERACTION IN ITCZ SIMULATION
- S2-15 Wansuo DUAN* and Mu MU: EXPLORING THE EFFECT OF THE MJO-RELATED WIND FORCING ON ENSO PREDICTABILITY
- S2-16 Kyong-Hwan SEO*: THE MADDEN-JULIAN OSCILLATION AND CONVECTIVELY COUPLED EQUATORIAL WAVES SIMULATED IN THE NCEP CFS MODEL

27 May 8:30-9:30 Chair: Jun MATSUMOTO

East Asian summer monsoon

- S2-17 Hong YE* and Riyu LU: THE INTERDECADAL CHANGE OF RELATIONSHIP BETWEEN ENSO AND EAST CHINA SUMMER RAINFALL
- S2-18 Kyung-Ja HA*, Sun-Seon LEE, P. N. VINAYACHANDRAN and Jong-Ghap JHUN: SHIFTING PEAK IN EAST ASIAN SUMMER RAINFALL: IS EL NINO LOSING INFLUENCE
- S2-19 Ming BAO* and Rongqing HAN: DELAYED IMPACTS OF THE EL NIÑO EPISODES IN THE CENTRAL PACIFIC ON THE SUMMERTIME CLIMATE ANOMALIES OF EASTERN CHINA IN 2003 AND 2007
- S2-20 Xuguang SUN*, Xiuqun YANG, Shanshan ZHAO, Yimin ZHU and Yihua LIN: CONTRIBUTION OF THE INDIAN OCEAN SSTA TO THE IMPACTS OF EL NINO ON THE ATMOSPHERIC CIRCULATION OVER EAST ASIA

Break

27 May 9:45-11:00 Chair: Byung-Ju SOHN

S2-21 **Riyu LU* and Zhongda LIN**: ROLE OF SUBTROPICAL PRECIPITATION ANOMALIES IN MAINTAINING THE SUMMERTIME MERIDIONAL TELECONNECTION OVER THE WESTERN NORTH PACIFIC AND EAST ASIA

- S2-22 Yu KOSAKA, Hisashi NAKAMURA*, Masahiro WATANABE and Masahide KIMOTO: DYNAMICS OF A WAVE-LIKE TELECONNECTION PATTERN ALONG THE SUMMERTIME ASIAN JET
- S2-23 **Zhongda LIN* and Riyu LU**: ABRUPT NORTHWARD JUMP OF THE EAST ASIAN UPPER-TROPOSPHERIC JET STREAM IN MID-SUMMER
- S2-24 Ja-Yeon MOON*, Kyung-Ja HA and Changyong PARK: VARIABILITY AND CHANGE OF SUMMER MONSOON RAINFALL OVER KOREA
- S2-25 WonMoo KIM*, Jong-Ghap JHUN and Bin WANG: CLIMATOLOGICAL INTRASEASONAL OSCILLATION (CISO) IN ASAIN SUMMER MONSOON AND ITS CHANGE DURING MID-1990S

27 May 14:00-15:45 Chair: Riyu LU

- S2-26 Takeaki SAMPE* and Shang-Ping XIE: LARGE-SCALE DYNAMICS OF THE MEIYU-BAIU FORMATION: ROLE OF THE WESTERLY JET
- S2-27 Yanjun QI*, Renhe ZHANG, Tim LI and Min WEN: INTERACTIONS BETWEEN THE SUMMER MEAN MONSOON AND THE INTRASEASONAL OSCILLATION IN THE INDIAN MONSOON REGION
- S2-28 Rucong YU, Weihua YUAN*, Jian LI and Yunfei FU: DIURNAL PHASE OF LATE-NIGHT AGAINST LATE-AFTERNOON OF STRATIFORM AND CONVECTIVE PRECIPITATION IN SUMMER SOUTHERN CONTIGUOUS CHINA
- S2-29 **Dong-Hyun CHA* and Dong-Kyou LEE**: REGIONAL-SCALE INTERACTIONS AMONG LAND, OCEAN AND ATMOSPHERE IN REGIONAL CLIMATE SIMULATIONS OF EAST ASIAN SUMMER MONSOON
- S2-30 Byung-Ju SOHN* and Seong-Chan PARK: LONG-TERM VARIABILITY OF HADLEY AND WALKER CIRCULATION INTENSITIES SHOWN IN WATER VAPOR TRANSPORT FIELD
- S2-31 Do-Woo KIM*, Su-Bin OH, Ji-Sun LEE, Hi-Ryong BYUN and Ki-Seon CHOI: DROUGHT CLIMATOLOGY FOR KOREA
- S2-32 Sang-Min LEE*, Do-Woo KIM, Su-Bin OH, Hi-Ryong BYUN and Hiroshi L. TANAKA: MAPPING AFTER REGIONALIZATION ON DROUGHT CLIMATOLOGY FOR JAPAN

Break

27 May 16:00-17:30 Chair: Kenichi UENO

East Asian winter monsoon

- S2-33 Lin WANG*, Wen CHEN, Wen ZHOU and Ronghui HUANG: INTERANNUAL VARIATIONS OF EAST ASIAN TROUGH AXIS AT 500HPA AND ITS ASSOCIATION WITH THE EAST ASIAN WINTER MONSOON PATHWAY
- S2-34 Wen CHEN*, Lin WANG and Ronghui HUANG: CHANGES IN THE TROPICAL AND EXTRATROPICAL IMPACTS ON THE EAST ASIAN WINTER MONSOON
- S2-35 **Zhiwei WU, Jianping LI* and Bin WANG**: CAN THE SOUTHERN HEMISPHERE ANNULAR MODE AFFECT CHINA WINTER MONSOON?
- S2-36 Cholaw BUEH*: MECHANISM FOR THE EXTREME WEATHER OF SOUTH CHINA IN JANUARY 2008
- S2-37 Wen ZHOU*, Johnny C. L. CHAN, Wen CHEN, Jian LING, Joaquim G. PINTO, et al.:

SYNOPTIC-SCALE CONTROLS OF PERSISTENT LOW TEMPERATURE AND ICY WEATHER OVER SOUTHERN CHINA IN JANUARY 2008

S2-38 Peiming WU*, Yoshiki FUKUTOMI, Manabu YAMANAKA and Jun MATSUMOTO: THE ROLES OF ASIAN WINTER MONSOON FLOW AND TROPICAL SYNOPTIC-SCALE DISTURBANCES IN THE PRODUCTION OF TORRENTIAL RAINS OVER HAINAN ISLAND DURING 12-15 OCTOBER 2008

S-3. Atmospheric Aerosol, Gases, and Radiation

Session Conveners: Masao MIKAMI, Zifa WANG, and Maeng-Ki KIM Location: Room A (Convention Hall 200)

26 May 13:00-15:00 Chair: Masao MIKAMI

S3-01 **Teruyuki NAKAJIMA***: ISSUES IN UNDERSTANDING THE AEROSOL-CLOUD-RADIATION INTERACTION PROCESS FOR ASIAN CLIMATE CHANGE (*Keynote: 30min*)

- S3-02 Tong ZHU* and THE CAREBEIJING TEAM: AIR QUALITY ATTAINMENT DURING 2008 BEIJING OLYMPICS: OVERVIEW OF CAREBEIJING (*Keynote: 30min*)
- S3-03 Soon-Chang YOON*, Sang-Woo KIM, Sang-Cheon PARK, Man-Hae KIM, V. RAMANATHAN, et al.: CHEJU ABC PLUME-ASIAN MONSOON EXPERIMENT (CAPMEX) 2008: UNMANNED-AIRCRAFT MEASUREMENT OF AEROSOLS AND CLOUDS PROPERTIES IN JEJU, KOREA (*Keynote: 30min*)
- S3-04 Yutaka KONDO*, Nobuhiro MOTEKI, Lokesh SAHU, Manabu SHIRAIWA and Nobuyuki TAKEGAWA: BLACK CARBON AEROSOL IN EAST ASIA
- S3-05 Yuzo MIYAZAKI*, Shankar AGGARWAL, Khem SINGH, Prabhat GUPTA and Kimitaka KAWAMURA: WATER-SOLUBLE ORGANIC CARBON AND DIACIDS IN AEROSOLS IN NEW DELHI, INDIA IN WINTER: CHARACTERISTICS AND FORMATION PROCESSES

Break

26 May 15:30-17:30 Chair: Maeng-Ki KIM

- S3-06 Tsatsral BATMUNKH*, Jin Sang JUNG, Young J. KIM and Bulgan TUMENDEMBEREL: CARBONACEOUS AEROSOLS AND THEIR OPTICAL PROPERTIES IN ULAANBAATAR, MONGOLIA
- S3-07 Shiro HATAKEYAMA*, Sayuri HANAOKA, Izumi WATANABE, Takemitsu ARAKAKI, Kaori KAWANA, et al.: LEXTRA -- AERIAL OBSERVATION OF AEROSOLS AND GASES OVER THE EASTA CHINA SEA IN MARCH-APRIL, 2008
- S3-08 Akinori TAKAMI*: ATMOSPHERIC AEROSOL CHARACTERIZATION IN EAST ASIA
- S3-09 Makoto KOIKE*, H. MATSUI, Y. KONDO, N. TAKAGAWA and T. ZHU: SYNOPTIC-SCALE VARIATIONS OF AEROSOLS AROUND BEIJING IN THE SUMMER 2006
- S3-10 Yutaka MATSUMI*, Akihiro YABUSHITA, Toshiya KUMAZAWA, Jun MATSUMOTO, Masahiro NARUKAWA, et al.: INTERNAL MIXING STATES OF ATMOSPHERIC AEROSOLS STUDIED BY A LASER IONIZATION SINGLE-PARTICLE MASS SPECTROMETER DURING SPRING TIME IN OKINAWA, JAPAN
- S3-11 Enagnon A. GBAGUIDI*, Zifa WANG, Jinnan CHEN and Chao GAO: MODELING EXPLORATION OF THE RELATIONSHIPS BETWEEN METEOROLOGICAL PARAMETERS AND HOMOGENEOUS NUCLEATION IN THE CONTINENTAL BOUNDARY LAYER OVER CHINA
- S3-12 Seong Soo YUM* and Keun Yong SONG: CCN IMPACTS ON MARINE STRATOCUMULUS CLOUD DEVELOPMENT AND THEIR NOCTURNAL/DAYTIME CONTRASTS
- S3-13 Naga OSHIMA*, Makoto KOIKE, Yang ZHANG and Yutaka KONDO: BLACK CARBON AGING AND ITS IMPACT ON AEROSOL PROPERTIES IN OUTFLOW FROM ANTHROPOGENIC SOURCES USING A MIXING STATE RESOLVED MODEL

27 May 8:30-10:00 Chair: Zifa WANG

- S3-14 Wu QIZHONG*, Wang ZIFA and Alex GBAGUIDI: THE EFFECT OF TRAFFIC RESTRICTION ON AIR QUALITY IN BEIJING
- S3-15 Xin LI*: EXPERIENCE OF EMISSION CONTROL FROM THE BEIJING GREEN OLYMPIC GAMES
- S3-16 Zifa WANG*, Qizhong WU, Xiao TANG, Alex GBAGUIDI, Wei WANG, et al.: MULTI-MODELS ENSEMBLE AIR QUALITY FORECASTING SYSTEM FOR BEIJING OLYMPICS

- S3-17 Toshimasa OHARA*, Jun-ichi KUROKAWA, Keiya YUMIMOTO and Itsushi UNO: TOP-DOWN APPROACH FOR IMPROVEMENT OF EMISSION INVENTORIES IN EAST ASIA
- S3-18 Atsushi SHIMIZU*, Ichiro MATSUI, Tomoaki NISHIZAWA and Nobuo SUGIMOTO: A LIDAR NETWORK FOR CLOUD AND AEROSOL OBSERVATIONS IN ASIA
- S3-19 Rokjin J. PARK*, Daeok YOUN, Jaein JEONG, Byung-Kwon MOON and Chang-Keun SONG: IMPACTS OF FOREST FIRE AEROSOLS ON REGIONAL AIR QUALITY AND CLIMATE IN SPRING 2003

Break

27 May 10:30-12:00 Chair: Tong ZHU

- S3-20 **Masao MIKAMI***: TOWARDS THE UNDERSTANDING OF ASIAN DUST: ITS PHYSICS, MODELING, AND ROLES IN THE ATMOSPHERE AND CLIMATE SYSTEM.
- S3-21 Seungbum KIM*, Beom-Cheol SHIN, Seung-Joo SONG and Deuk-Kyun RHA: A STUDY ON THE RECENT VARIATIONS OF ASIAN DUST OCCURRENCE IN KOREA
- S3-22 Yudai UENO, Kenji KAI* and Hongfei ZHOU: CHARACTERISCICS OF THE DUST OVER THE TAKLIMAKAN DESERT IN SPRING AND ESTIMATION OF THE TOTAL AMOUNT OF THE DUST
- S3-23 Beomcheol SHIN*, Seung-bum KIM, Changbum CHO, Young Joon KIM, Jeong-gyoo PARK, Dong Ho SHIN, et al.: 3-DIMENSIONAL MONITORING EXPERIMENT OF ASIAN DUST IN SPRING 2008
- S3-24 Daizhou ZHANG*, Hiroko OGATA, Maromu YAMADA, Yutaka TOBO, Atsushi MATSUKI, et al.: ASIAN DUST PARTICLES ARRIVING AT JAPAN: CHANGES AND SUBSEQUENT EFFECTS DURING THE TRANSPORT
- S3-25 Na-Young KIM*, Byung-Ju SOHN and Teruyuki NAKAJIMA: IMPROVED MINERAL DUST RETRIEVAL FROM SKYRADIOMETER MEASUREMENTS BY INCORPORATING NONSPHERICAL PARTICLE CONTRIBUTION

27 May 14:00-15:45 Chair: Rokjin PARK

- S3-26 Chul H. SONG*, Kyung HAN, Hyun AHN, Chul LEE, Andreas RICHTER, et al.: INVESTIGATION OF NO_x EMISSIONS AND NO_x-RELATED CHEMISTRY IN EAST ASIA USING CMAQ-PREDICTED AND GOME-DERIVED NO₂ COLUMNS
- S3-27 Kazuyuki KITA*, Seiichiro YONEMURA, Haruo TSURUTA, Pakpong POCHANART, Akkaneewut CHABANGBORN, et al.: OZONE, CO, AND AEROSOLS OBSERVED IN A RURAL AREA IN THAILAND: INCREASING INFLUENCES OF TRANSPORT FROM CHINA
- S3-28 Jie LI*, Pakpong POCHANART, Zifa WANG, Yu LIU, Kazuyo YAMAJI, et al.: IMPACT OF CHEMICAL PRODUCTION AND TRANSPORT ON SUMMERTIME DIURNAL OZONE BEHAVIOR AT A MOUNTAINOUS SITE IN CENTRAL EASTERN CHINA
- S3-29 Xiaole PAN*, Zifa WANG, Xiquan WANG and Huabin DONG: OBSERVATION STUDY ON OZONE DRY DEPOSITION OVER GRASS LAND IN SUBURBAN AREA OF BEIJING
- S3-30 Xiao TANG*, Zifa WANG, Jiang ZHU, Qizhong WU, Jie LI, et al.: MONTE CARLO SENSITIVITY ANALYSIS OF THE RELATIONSHIP BETWEEN O₃ AND ITS PRECURSOR EMISSIONS DURING HIGH SUMMER OZONE IN BEIJING
- S3-31 Tatsuya NAGASHIMA*, Toshimasa OHARA, Kengo SUDO and Hajime AKIMOTO: SOURCE ATTRIBUTION OF SURFACE OZONE OVER EAST ASIA WITH TRACER TAGGING METHOD
- S3-32 **Hiroshi TANIMOTO***: OBSERVED AND MODELED DECADAL CHANGES IN SPRINGTIME TROPOSPHERIC OZONE OVER JAPAN, 1998–2007

Break

27 May 16:15-18:15 Chair: Hajime FUKUSHIMA

S3-33 Akira WADA*, Shohei MURAYAMA, Hidekazu MATSUEDA, Yousuke SAWA, Hiroaki KONDO, et al.: OBSERVATION OF RADON-222 IN THE WESTERN NORTH PACIFIC WITH A NEW RADON MEASURING SYSTEM

- S3-34 **Shigekazu HIRAO*, Hiromi YAMAZAWA, Jun MORIIZUMI and Takao IIDA**: DEVELOPMENT AND EVALUATION OF LONG-RANGE ATMOSPHERIC TRANSPORT MODEL FOR RADON-222
- S3-35 Yu-Mi KIM*, Sang-Woo KIM and Soon-Chang YOON: INTERCOMPARISON OF CIRRUS OPTICAL DEPTHS RETRIEVED FROM SPACE-BORNE CALIOP AND GROUND-BASED LIDAR IN SEOUL
- S3-36 Sang-Woo KIM*, In-Jin CHOI and Soon-Chang YOON: LONG TERM OBSERVATION OF AEROSOL OPTICAL PROPERTIES AND THEIR RADIATIVE FORCING AT GOSAN, KOREA
- S3-37 Tadahiro HAYASAKA*, Kazuaki KAWAMOTO, Kazuma AOKI and Guang-Yu SHI: AEROSOL RADIATIVE PROPERTIES AND SHORTWAVE RADIATION BUDGET OVER EAST ASIA
- S3-38 Hajime FUKUSHIMA*, Kazunori OGATA and Liping LI: INCREASING TRENDS IN ANGSTROM EXPONENT OVER EAST-ASIAN WATERS OBSERVED IN SEAWIFS AND AQUA/MODIS
- S3-39 Yueqin MO*, Dong WANG, Yun YANG, Wenhua LV and Lei DING: THE COMPARISON FOR MEASUREMENTS OF DIFFUSE SKY RADIATION
- S3-40 **Toshihiko TAKEMURA***: HINDCAST SIMULATION OF AEROSOL GLOBAL DISTRIBUTION AND RADIATIVE FORCING WITH AEROSOL CLIMATE MODEL

S-4. Future Climate Projection and Impact

Session Conveners: Akio KITOH, Xiuqun YANG, and Won-Tae KWON Location: Room B (Conference Room 201A)

26 May 13:00-15:00 Chair: Akio KITOH

- S4-01 Michio KAWAMIYA*: CHALLENGES FOR LONG-TERM GLOBAL WARMING PROJECTION USING AN EARTH SYSTEM MODEL
- S4-02 Masahide KIMOTO*, Masayoshi ISHII, Takashi MOCHIZUKI, Yoshimitsu CHIKAMOTO, Masahiro WATANABE, et al.: CLIMATE2030: A JAPANESE PROJECT FOR DECADAL CLIMATE PREDICTION
- S4-03 Xiuqun YANG* and Lin DENG: ENSO FREQUENCY CHANGE IN COUPLED CLIMATE MODELS AS RESPONSE TO INCREASING CO $_2$ CONCENTRATION
- S4-04 Yoon-Kyoung LEE*, Jong-Ghap JHUN and Byung-Kwon MOON: ENSO CHANGES DUE TO GLOBAL WARMING: FOCUS ON THE OCEAN CHANGE
- S4-05 Satoru YOKOI* and Yukari N. TAKAYABU: MULTI-MODEL BASED PROJECTION OF TROPICAL CYCLONE GENESIS FREQUENCY OVER THE WESTERN NORTH PACIFIC BASIN USING CMIP3 ARCHIVE
- S4-06 Junichi TSUTSUI*: POTENTIAL INTENSIFICATION OF TROPICAL CYCLONES APPROACHING JAPAN DERIVED FROM MULTI-MODEL CLIMATE EXPERIMENTS
- S4-07 Kazuaki NISHII*, Takafumi MIYASAKA, Kosaka YU and Nakamura HISASHI: REPRODUCIBILITY AND FUTURE PROJECTION OF THE MIDWINTER STORM-TRACK ACTIVITY OVER THE FAR EAST IN THE CMIP3 CLIMATE MODELS IN RELATION TO THE OCCURRENCE OF THE FIRST SPRING STORM (HARU-ICHIBAN) OVER JAPAN
- S4-08 Toshiki IWASAKI*, Yasushi MOCHIZUKI and Chihiro KODAMA: GLOBAL WARMING EFFECTS ON WAVE ENERGY GENERATION IN THE NORTHERN HEMISPHERIC WINTER

Break

26 May 15:15-17:30 Chair: Xiuqun YANG

S4-09 Yuanhai FU* and Riyu LU: CHANGE OF EAST ASIAN SUMMER RAINFALL INTERANNUAL VARIABILITY IN THE TWENTY-FIRST CENTURY UNDER IPCC AR4

- S4-10 Jinho SHIN*, Hyo-Shin LEE, Min-Ji KIM and Won-Tae KWON: AN UNCERTAINTY ASSESSMENT OF ANNUAL VARIABILITY OF PRECIPITATION SIMULATED BY IPCC AOGCMS IN EAST ASIA
- S4-11 Youichi KAMAE* and Hiroaki UEDA: SUPPRESSANT EFFECT OF CO₂ DOUBLING ON GLOBAL PRECIPITATION
- S4-12 Eun-Soon IM* and Filippo GIORGI: POTENTIAL CHANGES OF FUTURE DRYNESS AND CLIMATE EXTREMES OVER KOREA FROM A REGIONAL CLIMATE PROJECTION
- S4-13 Hiroaki KAWASE*, Takao YOSHIKANE, Masayuki HARA, Fujio KIMURA, Ailikun BORJIGINTE, et al.: ASSESSMENT OF FUTURE CHANGES IN THE BAIU RAINBAND USING THE PSEUDO-GLOBAL WARMNING DOWNSCALING METHOD
- S4-14 **Shoji KUSUNOKI*, Ryo MIZUTA and Mio MATSUEDA**: CHANGE IN THE EAST ASIA SUMMER MONSOON PROJECTED BY AN ATMOSPHERIC GLOBAL MODEL WITH 20-KM GRID
- S4-15 Yasuo SATO*, Mizanur RARMAN, Erwin MAKMUR, Analiza SOLIS, Winai CHAOWIWAT, et al.: PRESENT CLIMATE VERIFICATION AND FUTURE CLIMATE PROJECTIONS OVER SOUTHEAST ASIA BY AN MRI 20KM-MESH AGCM
- S4-16 Johnny C. L. CHAN*: GLOBAL WARMING AND TROPICAL CYCLONE ACTIVITY IN THE WESTERN NORTH PACIFIC
- S4-17 Zhihong JIANG*, Jie SONG, Weilin CHEN and Ji WANG: EXTREME CLIMATE EVENTS IN CHINA: IPCC-AR4 MODELS' EVALUATION AND PROJECTION

S-5. Typhoon and Meso-scale Phenomenon

Session Conveners: Tetsuo NAKAZAWA, Xiaotu LEI, and Jong-Jin BAIK Location: Room C (Conference Room 201B)

26 May 13:00-15:05 Chair: Takuya KOMORI

- S5-01 Tetsuo NAKAZAWA*, Patrick HARR, Jim MOORE, Martin WEISSMANN, Sharan MAJUMDAR, et al.: THORPEX PACIFIC ASIAN REGIONAL CAMPAIGN FOR TYPHOON TARGETING IN 2008 OVER THE WESTERN NORTH PACIFIC (*Keynote: 20min.*)
- S5-02 Kotaro BESSHO*, Tetsuo NAKAZAWA and Martin WEISSMANN: DROPSONDE OPERATION OF FALCON IN T-PARC AND THE ANALYSES OF SURROUNDING ENVIRONMENT OF TYPHOONS
- S5-03 Takuya KOMORI*, Ryota SAKAI, Hitoshi YONEHARA, Kiyotomi SATO, Takashi KADOWAKI, et al.: JMA SINGULAR VECTOR GUIDANCE FOR T-PARC 2008
- S5-04 Hyun Mee KIM*, Byoung-Joo JUNG and Sung Min KIM: ADAPTIVE OBSERVATION GUIDANCE AND OBSERVATION SYSTEM EXPERIMENTS FOR TROPICAL CYCLONES DURING T-PARC
- S5-05 **Koji YAMASHITA*, Yoichiro OHTA and Tetsuo NAKAZAWA**: AN OBSERVING SYSTEM EXPERIMENT OF SPECIAL OBSERVATIONS OF T-PARC FOR SINLAKU USING THE OPERATIONAL NWP SYSTEM AT JMA
- S5-06 **Hiroyuki YAMADA*, Wataru YANASE, Ryuichi SHIROOKA, Kunio YONEYAMA, Masaki SATOH, et al.**: OBSERVATION AND SIMULATION OF THE GENESIS OF TYPHOON FENGSHEN (2008) IN THE TROPICAL WESTERN PACIFIC
- S5-07 Mayumi K. YOSHIOKA*, Kazuhisa TSUBOKI and Atsushi SAKAKIBARA: DEVELOPMENT OF A TYPHOON GENESIS IN THE EARLY STEAGE SIMULATED IN HYDROSTATIC- AND NON-HYDROSTATIC ATMOSPHERIC MODELS
- S5-08 Wataru YANASE*, Hiroshi TANIGUCHI and Masaki SATOH: LARGE-SCALE ENVIRONMENTAL FIELD ASSOCIATED WITH TROPICAL CYCLOGENESES OVER THE BAY OF BENGAL

Break

26 May 15:25-17:25 Chair: Johnny C. L. CHAN

- S5-09 Eun-Jeong CHA*, Seong-Hee WON, Seong-Weon KO, Kyeong-Cho YANG, Ho-Seong HWANG, et al.: A DIAGNOSTIC STUDY ON INACTIVE TROPICAL SEASON IN 2008
- S5-10 **Ming YING***: CLIMATOLOGY OF MULTI-TROPICAL CYCLONE ACTIVITIES IN THE WESTERN NORTH PACIFIC
- S5-11 Hisayuki KUBOTA* and Johnny C.L. CHAN: INTERDECADAL VARIABILITY OF TROPICAL CYCLONE LANDFALL IN THE PHILIPPINES FROM 1902 TO 2005
- S5-12 Ming XU* and Johnny C.L. CHAN: INTERANNUAL AND INTERDECADAL VARIATIONS OF LANDFALLING TROPICAL CYCLONES IN EAST ASIA
- S5-13 **Shunsuke HOSHINO* and Tetsuo NAKAZAWA**: INTERCOMPARISON OF DVORAK PARAMETERS IN THE TROPICAL CYCLONE DATASETS OVER THE WESTERN NORTH PACIFIC
- S5-14 Jin-Jie SONG*, Yuan WANG and Li-Na BAI: TREND DISCREPANCIES IN WESTERN NORTH PACIFIC TROPICAL CYCLONES
- S5-15 Yohei YAMADA*, Kazuyoshi OOUCHI, Hirofumi TOMITA, Wataru YANASE and Masaki SATOH: POSSIBLE CHANGE OF TROPICAL CYCLONE INTENSITY AND FREQUENCY UNDER A GREENHOUSE-WARMED CLIMATE CONDITION IN THE GLOBAL CLOUD-RESOLVING MODEL, NICAM
- S5-16 Jinhua YU*, Yuqing WANG and Kevin HAMILTON: RESPONSE OF TROPICAL CYCLONE POTENTIAL INTENSITY TO THE GLOBAL WARMING SCENARIO IN THE IPCC AR4 CGCMS

27 May 8:30-10:10 Chair: Jong-Jin BAIK

- S5-17 Hironori FUDEYASU*, Yuqing WANG, Masaki SATOH, Tomoe NASUNO, Hiroaki MIURA, et al.: MULTISCALE INTERACTIONS ON THE LIFECYCLE OF TROPICAL CYCLONE SIMULATED BY GLOBAL CLOUD-SYSTEM RESOLVING MODEL (*Keynote: 25min.*)
- S5-18 Masato SUGI*, Sachie KANADA and Kengo MIYAMOTO: SIMULATIONS OF TROPICAL CYCOGENESIS USING MODELS WITH DIFFERENT RESOLUTIONS
- S5-19 Yogesh KUMKAR, Purnendranath SEN, Ok-Yeon KIM and Jai-Ho OH*: AN EXPERIMENT WITH THE HIGH RESOLUTION GLOBAL ICOSAHEDRAL GRID POINT MODEL FOR THE PREDICTION OF TROPICAL CYCLONES OVER THE NORTH INDIAN OCEAN
- S5-20 Kazuo SAITO* and Tohru KURODA: ENSEMBLE FORECAST EXPERIMENT OF CYCLONE NARGIS AND ITS ASSOCIATED STORM SURGE
- S5-21 Tomohito HIOKI* and Kazuhisa TSUBOKI: STRUCTURE OF A DEVELOPING TYPHOON SIMULATED BY THE CLOUD-RESOLVING MODEL
- S5-22 **Sun-Hee KIM* and H. Joe KWON**: SENSITIVITY EXPERIMENTS ON FDDA OPTIONS IN WRF-BASED TYPHOON MODEL

Break

27 May 10:30-12:00 Chair: Il Ju MOON

- S5-23 **Mitsuru UENO***: POSSIBLE CONTROL OF NEAR-SURFACE WIND DISTRIBUTIONS IN TYPHOONS BY ENVIRONMENTAL VERTICAL WIND SHEAR
- S5-24 II Ju MOON*, Sung Hun KIM, Min Young KIM and Young Yun JUNG: ON OCEAN EVIRONMENTAL FACTORS AFFECTING TYPHOON INTENSITY: RESULTS FROM THE COUPLED TYPHOON-OCEAN MODEL
- S5-25 Chenxi WANG* and Yunqi NI: SENSITIVITY EXPERIMENTS OF IMPACTING TROPICAL CYCLONE TRACK

S5-26 **Sho ARAKANE*, Masaki SATOH and Wataru YANASE**: NUMERICAL STUDY ON THE RAPID DEVELOPMENT OF THE DEEP CONVECTION TO THE NORTH OF TYPHOON BEBINCA

- S5-27 Tohru KURODA*, Kazuo SAITO, Masaru KUNII and Nadao KOHNO: NUMERICAL EXPERIMENTS OF MYANMAR CYCLONE NARGIS USING NHM AND POM
- S5-28 Kosuke ITO*, Yoichi ISHIKAWA and Toshiyuki AWAJI: ESTIMATES OF THE AIR-SEA EXCHANGE COEFFICIENTS FOR HIGH WIND REGIME IN A TROPICAL CYCLONE USING AN ADJOINT METHOD

27 May 14:00-16:00 Chair: Kazuhisa TSUBOKI

- S5-29 Nasreen AKTER* and Kazuhisa TSUBOKI: HIGH RESOLUTION NUMERICAL SIMULATION OF CONVECTIVE CELLS IN THE RAINBAND OF CYCLONE SIDR
- S5-30 **Tetsuya SANO* and Kazuhisa TSUBOKI**: STRUCTURE AND MODIFICATION OF A SPIRAL RAINBAND ASSOCIATED WITH A TYPHOON OBSERVED BY DOPPLER RADARS
- S5-31 HaiGuang ZHOU*: STRUCTURE OF TYPHOON KROSA RAINBAND WITH DUAL-DOPPLER RADAR
- S5-32 Ahoro ADACHI* and Takahisa KOBAYASHI: LOW-LEVEL HIGH WINDS ASSCOCIATED WITH A NONCLASSICAL GUST FRONT EMBEDDED WITHIN A TYPHOON AS OBSERVED WITH DOPPLER RADAR AND WIND PROFILER
- S5-33 **Shoujuan SHU* and Yuan WANG**: ANALYZING THE STRUCTURE OF TYPHOON "HAITANG" BASED ON GPS DROPSONDE DATA
- S5-34 **Ryuji YOSHIDA*, Yuichiro OKU, Tetsuya TAKEMI and Hirohiko ISHIKAWA**: SATELLITE AND MODELING ANALYSIS OF ELLIPTICAL EYE OF TROPICAL CYCLONE
- S5-35 Toshihisa ITANO* and Muneyuki HOSOYA: SPECTRAL ANALYSES OF THE PENTAGONAL EYE OF TYPHOON SINLAKU
- S5-36 Yang LI*, Shuqing MA, Guorong WANG, Zhaobin SUN and Xiaoxia LI: TIME-SPACE CHARACTERISTICS OF METEOROLOGICAL ELEMENTS OF TYPHOON "KALMAEGI" BY USING UNMANNED AERIAL VEHICLE

Break

27 May 16:20-17:50 Chair: Zifeng YU

S5-37 Naoko KITABATAKE* and Fumiaki FUJIBE: RELATIONSHIP BETWEEN SURFACE WIND FIELDS AND THREE-DIMENSIONAL STRUCTURES OF TROPICAL CYCLONES LANDFALLING IN THE JAPAN MAIN ISLANDS

S5-38 Zifeng YU*, Hui YU, Peiyan CHEN and Chuanhai QIAN: VERIFICATION OF TROPICAL CYCLONES-RELATED SATELLITE PRECIPITATION ESTIMATES IN MAINLAND CHINA

S5-39 Jing XI*, Mingjuan LI, Nini TU, Jingyu JING and Jiwen DU: LARGE-ENVIRONMENTS AND MESO-SCALE SYSTEMS ATTENDING CHINA MCC GENESIS AND DEVELOPMENT

S5-40 Taro SHINODA*, Masaya KATO, Yukari SHUSSE, Mitsuharu NOMURA, Mariko OUE, et al.: STRUCTURE OF A PRECIPITATION SYSTEM DEVELOPED AROUND AICHI PREFECTURE, JAPAN ON AUGUST 28-29, 2008 USING A X-BAND POLARIMETRIC RADAR AND THE CRESS

- S5-41 Fujiyuki NAKANO*, Takeshi MORIMOTO, Tomoo USHIO and Zen KAWASAKI: SPATIAL AND TEMPORAL CHARACTERISTICS OF LIGHTNING IN TYPHOON
- S5-42 Ji-Young HAN* and Jong-Jin BAIK: CONVECTIVELY FORCED MESOSCALE FLOWS IN A SHEAR FLOW WITH A CRITICAL LEVEL

S-6. Satellite Remote Sensing

Session Conveners: Riko OKI, Peng ZHANG, and Myoung-Seok SUH Location: Room E (Conference Room 202B)

27 May 10:00-12:15 Chair: Masato SHIOTANI

- S6-01 Kei SHIOMI*, Shuji KAWAKAMI, Tomoko KINA, Makiko MUKAI, Daisuke SAKAIZAWA, et al.: INITIAL CHECK-OUT RESULTS OF TANSO CALIBRATION
- S6-02 Akihiko KUZE*, Hiroshi SUTO, Masakatsu NAKAJIMA and Takashi HAMAZAKI: FIRST HIGH SPECTRAL RESOLUTION OBSERVATION FROM SPACE WITH TANSO-FTS ON GOSAT
- S6-03 Yukio YOSHIDA*, Yoshifumi OTA, Nawo EGUCHI, Tomoaki TANAKA, Nobuhiro KIKUCHI, et al.: RETRIEVAL OF CARBON DIOXIDE AND METHANE FROM SHORT-WAVELENGTH INFRARED SPECTRA OBTAINED FROM GREENHOUSE GASES OBSERVING SATELLITE (GOSAT)
- S6-04 Nawo EGUCHI*, Lesley OTT, Ryu SAITO, Zhengxin ZHU, Tatsuya YOKOTA, et al.: COMPARISON STUDY OF CO₂ SIMULATIONS BETWEEN NIES TRANSPORT MODEL AND GEOS-5 FOR GOSAT RETRIEVAL ALGORITHM
- S6-05 Masato SHIOTANI*, Masahiro TAKAYANAGI and JEM/SMILES MISSION TEAM: CURRENT STATUS OF SUPERCONDUCTING SUBMILLIMETER-WAVE LIMB-EMISSION SOUNDER (SMILES)
- S6-06 Chikako TAKAHASHI*, Makoto SUZUKI, Yoshitaka IWATA, Chihiro MITSUDA, Hiroo HAYASHI, et al.: CAPABILITY STUDY FOR ATMOSPHERIC MINOR SPECIES WITH JEM/SMILES
- S6-07 Yasuko KASAI*, Philippe BARON, Jana MENDROK, Satoshi OCHIAI, Takeshi MANABE, et al.: OBSERVATION CAPABILITIES OF SUPERCONDUCTIVE SUBMILLIMETER-WAVE LIMB-EMISSION SOUNDER (SMILES) ONBOARD INTERNATIONAL SPACE STATION (ISS)
- S6-08 Chihiro MITSUDA*, Chikako TAKAHASHI, Makoto SUZUKI, Hiroo HAYASHI, Takuki SANO, et al.: DEVELOPMENT OF JEM/SMILES LEVEL 2 DATA PROCESSING SYSTEM
- S6-09 **Mijin KIM, Jhoon KIM* and Jong Min YOON**: APPLICATION OF MID-IR CHANNEL TO RETRIEVAL OF AEROSOL OPTICAL DEPTH FROM GEOSTATIONARY SATELLITE

27 May 14:00-15:45 Chair: Peng ZHANG

- S6-10 Yaoming MA*, Lei ZHONG, Hirohiko ISHIKAWA, Osamu TSUKAMOTO, Massimo MENENTI, et al.: REGIONALIZATION OF LAND SURFACE HEAT FLUXES OVER HETEROGENEOUS LANDSCAPE OF THE TIBETAN PLATEAU BY USING THE SATELLITE AND IN-SITU DATA
- S6-11 Jeon Ho KANG*, Myoung Seok SUH and Ki Ok HONG: DEVELOPMENT OF LAND SURFACE TEMPERATURE RETRIEVAL ALGORITHM FROM GEOSTATIONARY SATELLITE DATA
- S6-12 Xiaojing WU*, Sanmei LI and Changjun YANG: SATELLITE SEA FOG DETECTION PRODUCT S6-13 Hyo-Sik EOM* and Myoung-Seok SUH: CHARACTERISTICS OF BRIGHTNESS TEMPERATURE FROM MTSAT-1R ON LIGHTNING EVENTS OVER SOUTH KOREA
- S6-14 **Byung-Ju SOHN*, Seung-Hee HAM and Ping YANG**: VISIBLE CHANNEL CALIBRATION BASED ON DEEP CONVECTIVE CLOUD TARGETS OVERSHOOTING THE TTL
- S6-15 Peng ZHANG*, Jun YANG, Chaohua DONG, Naimeng LU, Zhongdong YANG, et al.: GENERAL INTRODUCTION ON PAYLOADS, GROUND SEGMENT AND DATA APPLICATION OF FENGYUN 3A
- S6-16 Nobuhiro TAKAHASHI* and Riko OKI: CLOUD AND PRECIPITATION OBSERVATION MISSION IN JAPAN: CURRENT AND FUTURE

Break

27 May 16:00-18:30 Chair: Myoung-Seok SUH

S6-17 Toshiyoshi KIMURA* and Nobuhiro TAKAHASHI: MISSION AND DEVELOPMENT OF CLOUD PROFILING RADAR ON EARTHCARE SATELLITE

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- S6-18 Yuichi OHNO*, Kenji SATO, Hiroaki HORIE, Nobuhiro TAKAHASHI and Hiroshi KUMAGAI: SATELLITE-BORNE CLOUD RADAR CALIBRATION USING AIRBORNE CLOUD RADAR AND GROUD MEASUREMENTS
- S6-19 Hajime OKAMOTO*, Kaori SATO, Yuichiro HAGIHARA and Ryo YOSHIDA: GLOBAL ANALYSIS OF CLOUD PROPERTIES FROM CLOUDSAT AND CALIPSO
- S6-20 Prasamsa SINGH and Kenji NAKAMURA*: DIURNAL VARIATION IN SUMMER PRECIPITATION OVER THE CENTRAL TIBETAN PLATEAU
- S6-21 Yukari N TAKAYABU*, Shoichi SHIGE, Wei-Kuo TAO and Nagio HIROTA: SHALLOW AND DEEP LATENT HEATING MODES OVER TROPICAL OCEANS OBSERVED WITH TRMM PR SPECTRAL LATENT HEATING DATA
- S6-22 Shuji SHIMIZU*, Toshio IGUCHI, Riko OKI, Tetsuya TAGAWA and Masafumi HIROSE: EVALUATION OF THE EFFECTS OF THE ORBIT BOOST OF THE TRMM SATELLITE ON PR RAIN ESTIMATES
- S6-23 Eun Kyoung SEO*: DIFFERENCES BETWEEN PRECIPITATION RADAR AND MICROWAVE IMAGER RETRIEVED RAIN RATES
- S6-24 **Takuji KUBOTA*, Misako KACHI, Riko OKI, Tomoo USHIO, Shoichi SHIGE, et al.**: NEAR-REAL-TIME GLOBAL RAINFALL MAP USING MULTI-SATELLITE DATA BY JAXA AND ITS VALIDATION
- S6-25 Shoichi SHIGE*, Tomoya YAMAMOTO, Takeaki TSUKIYAMA, Satoshi KIDA, Hiroki ASHIWAKE, et al.: THE GSMAP PRECIPITATION RETRIEVAL ALGORITHM FOR MICROWAVE SOUNDERS: OVER-OCEAN ALGORITHM
- S6-26 **Zhenhui WANG*, Yan-rong YANG, Wen-an XIAO, Hui-qing HE and Feng LI**: APPLICATION OF CLOUD MOTION VECTORS DERIVED FROM GEOSTATIONARY SATELLITE IMAGE SERIES WITH TCFM TRACKING TECHNIQUE IN TYPHOON SIMULATION

S-7. Boundary Layer Meteorology

Session Conveners: Hiroaki KONDO, Shuhua LIU, and Yign NOH Location: Room B (Conference Room 201A)

27 May 14:00-16:00 Chair: Hiroaki KONDO

- S7-01 Zhaoxia HU*, Hengchi LEI and Zhen ZHAO: NUMERICAL SIMULATION OF THE EFFECTS OF URBANIZATION AND GRASSLAND ON A REGIONAL COLD FOG
- S7-02 **Hiroyuki KUSAKA*, Fujio KIMURA, Keiko NAWATA and Takuro HANYU**: QUESTIONING THE RELIABILITY OF SENSITIVITY EXPERIMENTS IN DETERMINING URBAN EFFECTS ON PRECIPITATION PATTERNS
- S7-03 Jie SONG, Zhihong JIANG and Hongyun MA*: EFFECT OF URBAN LAND COVER AND POLLUTION IN A HEAT WAVE EVENT IN NANJING, CHINA
- S7-04 **Hiroyuki KUSAKA*, Yuko AKIMOTO, Yukako MIYA, Fei CHEN, Mukul TEWARI, et al.** PERFORMANCE OF THE WRF MODEL AS A HIGH RESOLUTION URBAN CLIMATE MODEL
- S7-05 Kyoo-seock LEE* and Wencheng JIN: BUILDING WIND CHARACTERISTICS AT SKYSCRAPER AREA
- S7-06 Yaoming MA*, Menenti MASSIMO, Hirohiko ISHIKAWA and Reinder FEDDES: ANALYSIS OF THE LAND SURFACE HETEROGENEITY AND ITS IMPACT ON ATMOSPHERIC VARIABLES AND THE AERODYNAMIC AND THERMODYNAMIC ROUGHNESS LENGTHS
- S7-07 Mingyuan DU*, Seiichiro YONEMURA, Yingnian LI, Song GU, Liang ZHAO, et al.: LOCAL CIRCULATION AND ITS POSSIBLE RELATIONSHIP TO LOCAL CLIMATE AND SO THAT TO CO₂ FLUX OBSERVATION OVER COMPLEX TERRAIN ON TIBETAN PLATEAU
- S7-08 Jihua SUN*, Jianyu LIU and Jinsong LIU: SURFACE AND AIR INTERACTION STUDIES OVER THE FARMLAND SURFACE IN DALI BEFORE AND AFTER THE RAINY SEASON START

Break

27 May 16:15-17:45 Chair: Yign NOH

- S7-09 **Hiroshi OHNO* and Tetsuya TAKEMI**: ANALYSIS OF THE MECHANISM OF GENERATION AND ENHANCEMENT OF A SIMULATED STRONG VOTEX IN CONVECTIVE BOUNDARY LAYER
- S7-10 Tetsuya TAKEMI*, Hanako INOUE, Kenichi KUSUNOKI, Wataru KATO, Keiji ARAKI, et al.: MICROSCALE VORTICES IN CONVECTIVE BANDS OVER WARM OCEAN IN WINTER
- S7-11 Atsushi MORI* and Hiroshi NIINO: SELF-SIMILARITY OF HORIZONTAL CONVECTIONS CAUSED BY THERMAL FORCING AT THE BOTTOM
- S7-12 Yi-Xiong LU*, Jianping TANG and Yuan WANG: APPLICATION OF DYNAMICAL DOWNSCALING IN WIND RESOURCES ASSESSMENT OVER A USABLE REGION, EAST CHINA
- S7-13 Hiroaki KONDO*, Shohei MURAYAMA, Yousuke SAWA, Hidekazu MATSUEDA, Kentaro ISHIJIMA, et al.: OBSERVATION OF 222RN CONCENTRATION AT THE MRI TOWER AND ANALYSIS OF ITS VARIATION USING MICROSCALE NUMERICAL MODEL
- S7-14 Hyun Jong KO* and Yign NOH: LARGE EDDY SIMULATION OF PARTICLE SETTLING IN THE ATMOSPHERIC BOUNDARY LAYER

S-8. General Session and Other Topics

Session Conveners: Hiroshi L. TANAKA, Chunyi WANG, Jhoon KIM Location: Room B (Conference Room 201A)

27 May 8:30-10:15 Chair: Jhoon KIM

- S8-01 Lei WANG*, Toshio KOIKE, Kun YANG, Dawen YANG and Zhongjing WANG: ANALYSES OF THE WATER AND ENERGY CYCLES IN THE UPPER TONE RIVER BASIN WITH THE AIDS OF A DISTRIBUTED BIOSPHERE HYDROLOGICAL MODEL (WEB-DHM) AND MODIS LAND SURFACE TEMPERATURE
- S8-02 Xianyan CHEN* and Qiang ZHANG: THE CHARACTERISTICS OF REGIONAL CLIMATE OVER THE THREE GORGES RESERVOIR AREA
- S8-03 **Bu-Yong Bu LEE* and Hyun-Chul KIM**: THE CHARACTERISTICS OF SNOW OBSERVATION BY NEW WEIGHT MEASUREMENT ROUNDED PLATE
- S8-04 Yongfu XU* and Yangchun LI: ESTIMATE OF THE UPTAKE AND STORAGE OF ANTHROPOGENIC CO₂ IN THE PACIFIC OCEAN
- S8-05 Kunihiko KODERA*: CHANGE IN THE ENSO TELECONNECTION CHARACTERISTICS IN THE BOREAL WINTER
- S8-06 Hui LU*, Toshio KOIKE, Kun YANG, Xiangde XU, Xin LI, et al.: SIMULATING SURFACE ENERGY FLUX AND SOIL MOISTURE AT THE WENJIANG PBL SITE USING THE LAND DATA ASSIMILATION SYSTEM OF THE UNIVERSITY OF TOKYO
- S8-07 Takafumi MIYASAKA* and Hisashi NAKAMURA: STRUCTURE AND MECHANISMS OF THE SOUTHERN HEMISPHERE SUMMERTIME SUBTROPICAL ANTICYCLONES

Break

27 May 10:30-12:15 Chair: Wang CHUNYI

S8-08 Yafei WANG*: AN EXTRATROPICAL AIR-SEA INTERACTION OVER THE NORTH PACIFIC IN ASSOCIATION WITH A PRECEDING EL NIÑO EPISODE IN EARLY SUMMER

Fourth Japan-China-Korea Joint Conference on Meteorology

- S8-09 **Hiroshi L. TANAKA*, Hi-Ryong BYUN, Daisuke NOHARA and Noriko MURA**: NUMERICAL SIMULATION OF WIND HOLE CIRCULATION AT ICE VALLEY IN KOREA USING A SIMPLE 2D MODEL
- S8-10 Yizhuo SHA*, Xigui FU, Xiaolei HE and Lekun ZHU: A PROPOSAL OF STANDARD CALIBRATION LABORATORY FOR RICS
- S8-11 **Shigeru CHUBACHI***: SEASONAL START OF THE ANTARCTIC OZONE HOLE DERIVED BY THE OBSERVATIONS WITH DOBSON SPECTROPHOTOMETERS
- S8-12 Jung CHOI* and Soon-II AN: CHANGES IN THE RELATIONSHIP BETWEEN THE ANNUAL CYCLE AND ENSO DUE TO EQUATORIAL PACIFIC WARMING
- S8-13 Haibo HU* and Qinyu LIU: PACIFIC BIDECADAL OSCILLATION AND TRANSPORT OF LOW POTENTIAL VORTICITY WATER
- S8-14 Jingbei PENG*, Qingyun ZHANG and Lieting CHEN: STUDY ON THE RELATIONSHIPS AMONG SO-NO-AAO-NPO

Poster Session

Date: 27 May 2009 8:00 – 16:30 (Core time: 12:00 – 14:00)

Location: Poster session room (Conference room 102)

S-1 Numerical Weather Prediction

- P-01 **Hiromu SEKO*, Kazuo SAITO, Masaru KUNII and Takemasa MIYOSHI**: MESOSCALE ENSEMBLE EXPERIMENTS OF HEAVY RAINFALLS IN JAPAN AREA BY USING NHM-LETKF
- P-02 Xiaowen TANG* and Yuan WANG: VERIFICATION OF T213 ENSEMBLE FORECASTING BASED ON TIGGE DATASET
- P-03 Jong Im PARK and Hyun Mee KIM*: ENSEMBLE KALMAN FILTER APPLIED ON TYPHOON WUKONG (2006) PREDICTION: A COMPARISON WITH 3DVAR
- P-04 **Morio INABA* and Kunihiko KODERA**: FORECAST STUDY OF THE CAUSE OF THE COLD DECEMBER 2005 IN JAPAN
- P-05 **Mio MATSUEDA***: COMPARISON OF MEDIUM-RANGE ENSEMBLE FORECASTS USING THE TIGGE DATABASE
- P-06 Kazuhiro MORI* and Hiroshi L. TANAKA: WEEKLY FORECAST EXPERIMENTS OF NICAM; USING THE GLOBAL GAUSSIAN ANALYSIS DATA FOR VERTICAL LEVELS OF ETA OF THE JMA
- P-07 Kondo KEIICHI* and Hiroshi L. TANAKA: APPLYING A LOCAL ENSEMBLE TRANSFORM KALMAN FILTER TO THE NONHYDROSTATIC ICOSAHEDRAL ATMOSPHERIC MODEL (NICAM)
- P-08 Masaru KUNII*, Kazuo SAITO, Masahiro HARA and Hiromu SEKO: INTERCOMPARISON OF ENSEMBLE PREDICTION SYSTEMS IN THE WWRP B08RDP PROJECT
- P-09 **Eun-Chul CHANG*, Yoo-Bin YHANG and Song-You HONG**: EVALUATION OF THE NONHYDROSTATIC REGIONAL SPECTRAL MODEL OVER EAST ASIA

S-2 Monsoon

P-10 Qi LI* and Jinhai HE: DISCUSSION ON EAST ASIAN SUBTROPICAL MONSOON

- P-11 Kyung-Sook YUN, Kyong-Hwan SEO and Kyung-Ja HA*: INTERDECADAL SHIFT IN THE ASSOCIATION BETWEEN ENSO AND NORTHWARD PROPAGATING INTRASEASONAL OSCILLATION IN THE EASM
- P-12 Sang-Dae HAN* and Kyong-Hwan SEO: GLOBAL CIRCULATION REPONSE TO TROPICAL HEATING ASSOCIATED WITH THE MADDEN-JULIAN OSCILLATION
- P-13 **Ji-Sun LEE*, Ki-Seon CHOI, Do-Woo KIM, Su-Bin OH and Hi-Ryong BYUN**: THE SHIFT IN THE EARLY 1980S OF SPRING PRECIPITATION IN KOREA
- P-14 **Minoru TANAKA***: 20-TH CENTURY WINTER TEMPERATURES NEAR JAPAN: ITS RELATIONSHIP TO THE PACIFIC DECADAL OSCILLATION, ALEUTIAN LOW AND SIBERIAN HIGH
- P-15 **Osamu ARAKAWA*, Kenji KAMIGUCHI and Akio KITOH**: INTERCOMPARISON OF RELATIONSHIP BETWEEN PRECIPITATION AND ELEVEVATION AMONG GRIDDED PRECIPITATION DATASETS OVER THE ASIAN REGION
- P-16 **Myung-Seo KOO* and Song-You HONG**: DIURNAL VARIATION OF THE SIMULATED PRECIPITATION OVER EAST ASIA
- P-17 Young-Hwa BYUN*, Suhee PARK, Hyun-Suk KANG and Johan LEE: EVALUATION OF THE EAST ASIAN MONSOON SIMULATED BY THE HADREM3

S-3 Atmospheric Aerosol, Gases, and Radiation

- P-18 Kojiro SHIMADA, Akinori TAKAMI, Shungo KATO, Yosizumi KAJII and Shiro HATAKEYAMA*: VARIATION OF CARBONACEOUS AEROSOLS IN POLLUTED AIR MASS TRANSPORTED FROM EAST ASIA
- P-19 Min-Hyeok CHOI* and Byung-Gon KIM: WEEKLY PERIODICITIES OF METEOROLOGICAL VARIABLES AND ITS RELATION TO AEROSOLS IN KOREA
- P-20 Nobuo SUGIMOTO*, Ichiro MATSUI, Atsushi SHIMIZU, Tomoaki NISHIZAWA, Yukari HARA, et al.: LIDAR NETWORK FOR OBSERVING TROPOSPHERIC AEROSOLS IN EAST ASIA

Fourth Japan-China-Korea Joint Conference on Meteorology

- P-21 Kazuo OSADA*, Hajime IIDA and Mizuka KIDO: INCREASING TREND ON VOLUME CONCENTRATION OF LOWER TROPOSOHERIC SUBMICRON AEROSOL PARTICLES AT MOUNT TATEYAMA, JAPAN
- P-22 Hiroshi TAKAHASHI*, Yasuhito IGARASHI, Hiroshi KOBAYASHI and Hiroaki NAOE: DIURNAL CHANGE OF WIND AND AEROSOL CONCENTRATION AT MT. FUJI, JAPAN
- P-23 Taichu Y. TANAKA*, Tomonori SAKAMI, Seiji YUKIMOTO and Makoto DEUSHI: DEVELOPMENT OF AN AEROSOL MODULE IN AN EARTH SYSTEM MODEL FOR GLOBAL WARMING PREDICTION
- P-24 Koichi WATANABE* and Hideharu HONOKI: CHEMICAL COMPOSITION OF FOG WATER AT MT. TATEYAMA
- P-25 Sunghee HAN*, Yutaka KONDO, Nobuyuki TAKEGAWA, Yuzo MIYAZAKI, Min HU, Peng LIN, et al.: TEMPORAL VARIATIONS OF ELEMENTAL CARBON IN BEIJING
- P-26 Sayako UEDA*, Kazuo OSADA and Kikuo OKADA: HYGROSCOPICITY AND MIXING STATE OF CLOUD INTERSTITIAL PARTICLES AT MT.TATEYAMA, JAPAN
- P-27 Masahide ISHIZUKA*, Masao MIKAMI, Yutaka YAMADA, John LEYS and FanJiang ZENG: THRESHOLD FRICTION VELOCITY FOR SAND PARTICLES AT A GOBI DESERT AND A FALLOW FEILD
- P-28 Liu YANG and Kenji KAI*: TEMPORAL AND SPATIAL DISTRIBUTIONS AND OCCURRENCE CAUSES OF DUST EVENTS IN GOBI DESERT DURING 1999-2007
- P-29 Keiya YUMIMOTO*, Itsushi UNO, Atsushi SHIMIZU and Nobuo SUGIMOTO: DUST TRANSPORT MODEL WITH 4D-VAR DATA ASSIMILATION METHOD: INVERSE MODELING USING GROUND-BASED LIDAR AND SATELLITE OBSERVATIONS
- P-30 Thomas T. SEKIYAMA*, Taichu Y. TANAKA, Atsushi SHIMIZU and Takemasa MIYOSHI: DATA ASSIMILATION OF CALIPSO AEROSOL OBSERVATIONS USING AN ENSEMBLE KALMAN FILTER
- P-31 Yumiko HONDA*, Sachiko HAYASHIDA, Makoto KUJI and Wataru TAKEUCHI: SPATIAL AND TEMPORAL VARIATIONS IN TRACE GASES AND AEROSOLS FROM BIOMASS BURNING IN SOUTHEAST ASIA AS MEASURED FROM SPACE
- P-32 Masayuki TAKIGAWA*, Masaaki TAKAHASHI, Hajime AKIMOTO and Kazuyuki KOBAYASHI: FUTURE PROJECTION OF SURFACE OZONE AND ITS IMPACT ON CROP YIELD LOSS OVER EAST ASIAN IN 2020
- P-33 Satomi ETO*, Yuko ARIYAMA, Katsuyuki NOGUCHI, Sachiko HAYASHIDA and Wataru TAKEUCHI: ANALYSIS OF METHANE CONCENTRATIONS OBSERVED BY SCIAMACHY CORRESPOND TO RICE PADDY EMISSIONS IN ASIA
- P-34 Heon-Sook KIM*, Shamil MAKSYUTOV, Tazu SAEKI and Gen INOUE: METHANE INVERSE MODELING USING NIES TRANSPORT MODEL: OPTIMIZATION OF THE SEASONAL FLUX BASED ON OBSERVATION DATA AND A PIROR FLUX
- P-35 Seung-Hee EUN*, Lim-Seok CHANG, Jin-Seok HAN and Byung-Gon KIM: METEROLOGICAL CHARACTERISTICS OF BOUNDARY LAYER SO₂ TRANSPORT USING 9-YEAR AIRCRAFT MEASUREMENTS OVER THE YELLOW SEA
- P-36 Wang MIAN*, Li WEI, Wang BAILIN, Tu MANHONG, Ma SHUQING, et al.: STUDY ON THE FITTING METHODS OF THE CALIBRATION OF ATMOSPHERIC VISIBILITY BY AEROSOL FORWARD-SCATTERING THEORY
- P-37 Hiroaki NAOE*, Shuichi HASEGAWA, Jost HEINTZENBERG, Kikuo OKADA, Akihiro UCHIYAMA, et al.: MIXING PROPERTIES OF BLACK CARBON PARTICLES AND ITS EFFECT ON PARTICULATE LIGHT ABSORPTION
- P-38 Jaehwa LEE*, Jhoon KIM, Chul Han SONG and Brent HOLBEN: CHARACTERISTICS OF AEROSOL TYPE INFERRED FROM AERONET SUNPHOTOMETER MEASUREMENTS
- P-39 You-Joon KIM*, Byung-Gon KIM and Chang-Hoi HO: SEASONAL AND SPATIAL COMPARISONS BETWEEN CLOUD AND AEROSOL OPTICAL PROPERTIES DERIVED FROM SATELLITE REMOTE SENSING IN NORTHEAST ASIA
- P-40 Jinsang JUNG*, Mylene G. CAYETANO, Tsatsral BATMUNKH, Dam Duy AN, Kwang Yul LEE, et al.: SEASONAL VARIATIONS OF OPTICAL PROPERTIES AND HYGROSCOPICITY OF ATMOSPHERIC AEROSOL IN SEOUL, KOREA
- P-41 Tomoki NAKAYAMA*, Rie HAGINO, Yutaka MATSUMI, Akihiro YAMASAKI, Rei KUDO, et al.: MEASUREMENTS OF OPTICAL PROPERTIES OF AEROSOLS BY CAVITY RING-DOWN SPECTROSCOPY IN CENTRAL TOKYO, JAPAN

- P-42 **Rei KUDO*, Akihiro UCHIYAMA, Akihiro YAMAZAKI and Eriko KOBAYASHI**: THE RECENT DECADE TENDENCIES OF AEROSOL OPTICAL PROPERTIES AND SURFACE RADIATIVE FORCING AT TSUKUBA, JAPAN
- P-43 Maeng-Ki KIM* and Woo-Seop LEE: A SENSITIVITY STUDY OF AEROSOL DIRECT RADIATIVE FORCING ON LARGE-SCALE CIRCULATION AND RAINFALL TREND IN ASIA DURING BOREAL SPRING
- P-44 Haeyoung LEE*, Seungbum KIM, Jeong Eun KIM, Seung Joo SONG, Changbum CHO, et al.: SEASONAL VARIATION OF AEROSOL SIZE DISTRIBUTION FROM MOUDI AND AEROSOL PARTICLE SPECTROMETER MEASUREMENT IN SEOUL, KOREA

S-4 Future Climate Projection and Impact

- P-45 **Da-Hee CHOI*, Won-Tae KWON, Hee-Jeong BAEK and Yu-Mi CHA**: CHANGES IN PRECIPITATION INTENSITY OVER THE EAST ASIA IN RESPONSE TO GLOBAL WARMING
- P-46 **Mio MATSUEDA*, Ryo MIZUTA and Shoji KUSUNOKI**: FUTURE CHANGE AND ITS UNCERTAINTY IN WINTERTIME ATMOSPHERIC BLOCKING
- P-47 **Eiki SHINDO***: FUTURE CHANGES OF THE MIDLATITUDE ACTIVITIES USING THE DYNAMIC STATE INDEX
- P-48 **Hiroyuki MURAKAMI* and Bin WANG**: FUTURE CHANGE IN TROPICAL-CYCLONE TRACKS AS DEMONSTRATED WITH A 20-KM-MESH ATMOSPHERIC GLOBAL CIRCULATION MODEL
- P-49 **Motoki NISHIMORI* and Toshichika IIZUMI**: A STATISTICAL DOWNSCALING FOR REGIONAL-SCALE SOLAR RADIATION CHANGE OVER JAPAN BY USING GLOBAL REANALYSIS METEOROLOGICAL DATASETS
- P-50 Masaomi NAKAMURA*, Masuo NAKANO, Sachie KANADA, Syugo HAYASHI, Teruyuki KATO, et al.: PROJECTION OF THE CHANGES IN THE FUTURE EXTREMES OVER JAPAN USING A CLOUD -RESOLVING MODEL (JMA-NHM)
- P-51 **Toshichika IIZUMI*, Motoki NISHIMORI and Masayuki YOKOZAWA**: QUANTIFYING CROP-MODEL BIAS IN REGIONAL YIELD IN JAPAN PROPAGATED FROM CLIMATE-MODEL BIASES IN SURFACE AIR TEMPERATURE AND INSOLATION
- P-52 Akio KITOH*, Kenji KAMIGUCHI, Osamu ARAKAWA and Shoji KUSUNOKI: PROJECTION OF PRECIPITATION EXTREMES IN THE ASIAN MONSOON REGION
- P-53 Jun YOSHIMURA*: GLOBAL WARMING PROJECTION WITH A SUPER-HIGH-RESOLUTION AGCM --TROPICAL CYCLONES AND PRECIPITATION --

S-5 Typhoon and Meso-scale Phenomenon

- P-54 **Ki-Seon CHOI*, Do-Woo KIM, Su-Bin OH, Ji-Sun LEE and Hi-Ryong BYUN**: SEASONAL PREDICTION OF THE WNP TROPICAL CYCONE GENESIS FREQUENCY USING TELECONNECTION PATTERNS
- P-55 Lina BAI*, Fumin REN, Jinjie SONG, Yuan WANG and Guoxiong WU: MECHANISM FOR THE ROLE OF LATENT HEAT FLUX VARIATION ON THE ACTIVITIES OF TROPICAL CYCLONES IN THE WESTERN NORTH PACIFIC
- P-56 Sung Min KIM* and Hyun Mee KIM: THE EFFECT OF ENVIRONMENTAL BAROCLINICITY ON STRUCTURE AND EVOLUTION OF SINGULAR VECTORS OF TROPICAL CYCLONES
- P-57 Yuan WANG* and Jin-Jie SONG: THE WIND-PRESSURE RELATIONS OF TROPICAL CYCLONES IN THE WESTERN NORTH PACIFIC AND ITS RELATED CLIMATIC CHARACTERISTICS
- P-58 **Min-Young KIM* and II-Ju MOON**: THE EFFECT OF THE WATER DEPTH AND STORM TRACK CURVATURE ON THE SEA SURFACE TEMPERATURE COOLING BY TYPHOONS
- P-59 Akiyoshi WADA*, Nadao KOHNO, Norihisa USUI and Yoshimi KAWAI: PRELIMINARY NUMERICAL PREDICTIONS FOR TYPHOON HAI-TANG IN 2005 BY TYPHOON-WAVE-OCEAN COUPLED MODEL
- P-60 **Sung-hun KIM* and II-Ju MOON**: THE EFFECT OF UPPER OCEAN THERMAL STRUCTURE ON TROPICAL CYCLONE INTENSITY FROM THE GFDL-POM COUPLED MODEL
- P-61 Akihiko MURATA*: A MECHANISM FOR HEAVY PRECIPITATION ASSOCIATED WITH TYPHOON MEARI (2004)
- P-62 **Won-Su KIM*, Tae-Young LEE and U-Ju SHIN**: FORMATION AND EVOLUTION OF HEAVY RAIN CELLS IN CONVECION BANDS WHICH ARE RELATED TO TOPOGRAPHY
- P-63 Mayu OKAZAKI*, Shusaku SUGIMOTO and Kimio HANAWA: LONG-TERM BEHAVIORS OF BOMB : NUMBER AND INTENSITY

P-64 Qiuzhen YANG* and Ming XU: TROPICAL CYCLONE DISASTER EVALUATION METHOD EXPLAINED BY TC CASES IMPACTING SHANGHAI

S-6 Satellite Remote Sensing

- P-65 Nobuyuki KIKUCHI*, Akiko HIGURASHI, Tatsuya YOKOTA, Satoru FUKUDA and Teruyuki NAKAJIMA: TENTATIVE PROPERTIES OF AEROSOLS DERIEVED FROM GOSAT TANSO-CAI DATA AND PLANS FOR VALIDATION
- P-66 **Tomoaki NISHIZAWA*, Nobuo SUGIMOTO, Ichiro MATSUI, Atsushi SHIMIZU, Boyan TATAROV, et al**.: DEVELOPMENT OF AEROSOL CLASSIFICATION AND RETRIEVAL ALGORITHM USING 1A+1B+1Γ DATA OF ATLID/EARTHCARE
- P-67 Jungbin MOK, Jhoon KIM and Jaehwa LEE*: CO-BC RELATIONS FROM SATELLITE REMOTE SENSING
- P-68 **Shinta SETO*, Toshio IGUCHI and Taikan OKI**: DEVELOPMENT OF A RETRIEVAL ALGORITHM FOR THE GPM DUAL-FREQUENCY PRECIPITAION RADAR (DPR)
- P-69 **Tomoo USHIO*, Kazumasa AONASHI, Kakuji KUBOTA, Shoichi SHIGE, Misako KACHI, Riko OKI, et al.**: GLOBAL SATELLITE MAPPING OF PRECIPITATION USING MOVING VECTOR AND KALMAN FILTER (GSMAP_MVK)
- P-70 Xingyu LI*, Xueliang GUO and Jiang ZHU: CLIMATIC CHARATCERS OF CLOUD WATER AND ITS RELATION WITH CLOUD AMOUNT IN THE SOUTHEASTERN CHINA DURING 1984-2004

S-7 Boundary Layer Meteorology

- P-71 Yunwu ZHAO* and Yuan WANG: THE DYNAMICAL CHARACTERISTICS OF TROPICAL CYCLONE BOUNDARY LAYER IN CYLINDRICAL COORDINATES
- P-72 Ryosaku IKEDA* and Hiroyuki KUSAKA: DEVELOPMENT OF THE SIMPLE MULTI-LAYER URBAN CANOPY MODELS
- P-73 Akihiro HORI, Kazuo KURIHARA* and Kosuke HASHIMOTO: WIND TUNNEL EXPERIMENT FOR DIFFUSION OF VOLCANIC GAS ERUPTED FROM MIYAKE ISLAND
- P-74 Hirofumi SUGAWARA*, Ken-ichi NARITA and Min Sik KIM: WIND PATH EFFECT OF RIVER IN URBAN HEAT ISLAND
- P-75 Yuko AKIMOTO* and Hiroyuki KUSAKA: SENSITIVITY OF WRF MODEL TO INPUT-DATASETS AND SURFACE PARAMETERS FOR HEAT ISLAND
- P-76 Junshi ITO*, Hiroshi NIINO, Mikio NAKANISHI and Ryo TANAKA: A NUMERICAL EXPERIMENT ON DUST DEVILS AND ASSOCIATED LIFTING OF DUST PARTICLES IN A DIURNALLY-EVOLVING CONVECTIVE MIXED LAYER

S-8 General Session and Other Topics

- P-77 Juejing HAN* and Yuan WANG: A COMPARISON OF CHINA AMDAR REPORTS AND SOUNDING DATA
- P-78 Sun-Hee SHIN*, Kyung-Ja HA, Masahide KIMOTO and Akio KITOH: IMPACT OF DIFFERENT DIFFUSION SCHEMES ON SIMULATED RAINFALL : LAND-OCEAN CONTRAST
- P-79 Kenji KAMIGUCHI*, Osamu ARAKAWA, Akiyo YATAGAI, Haruko KAWAMOTO and Masato NODZU: PRECIPITATION CHARACTERISTICS OF APHRO_PR, HIGH-RESOLUTION DAILY PRECIPITATION DATA
- P-80 Ling WANG*, Qiang ZHANG, Yu CHEN and Daoyi GONG: CHANGES OF WARMER WINTER AND WINTER TEMPERATURE OVER CHINA DURING 1956-2005
- P-81 **Su-Bin OH*, Do-Woo KIM, Ki-Seon CHOI, Ji-Sun LEE and Hi-Ryong BYUN**: INTRODUCTION OF EAST ASIAN DROUGHT MONITORING SYSTEM
- P-82 **Sung-Ho CHOO* and Hi-Ryong BYUN**: OBSERVATION AND ESTIMATION OF EVAPORATION USING EVAPORIMETER BYL-EV250
- P-83 Yuko SHIMO*, Kensuke KATO and Hiroshi L. TANAKA: NUMERICAL SIMULATION OF TROPICAL CYCLONES USING NICAM INSTALLED AT CCS, UNIVERISTY OF TSUKUBA
- P-84 Kensuke KATO*, Yuko SHIMO and Hiroshi L. TANAKA: NUMERICAL SIMULATION OF BLOCKING USING NICAM INSTALLED AT CCS, UNIVERISTY OF TSUKUBA
- P-85 **Shinji TAKAHASHI* and Hiroshi L. TANAKA**: DYNAMICS AND STATISTICS OF ARCTIC CYCLONES COMPARED WITH TROPICAL AND EXTRA-TROPICAL CYCLONES

P-86 Fuyuki FUJIWARA* and Hiroshi L. TANAKA: INTERACTION BETWEEN THE BAROCLINICALLY UNSTABLE WAVE AND THE SUBTROPICAL AND POLAR-FRONTAL JETS

P-87 Shingo KATO* and Hiroshi L. TANAKA: PREDICTABILITY OF THE ARCTIC OSCILLATION INDEX USING A BAROTROPIC GENERAL CIRCULATION MODEL

P-88 Masahiro OHASHI* and Hiroshi L. TANAKA: DATA ANALYSIS OF ARCTIC OSCILLATION SIMULATED BY GLOBAL WARMING PREDICTION MODELS

P-89 Koji TERASAKI* and Hiroshi L. TANAKA: CHARACTERISTICS OF THE NICAM IN THE ZONAL WAVENUMBER DOMAIN

P-90 Kazuyo MURAZAKI* and Kazuo KURIHARA: DYNAMICAL DOWNSCALING OF JRA-25 PRECIPITATION OVER JAPAN WITH THE MRI-REGIONAL CLIMATE MODEL

Application Form for Tsukuba Science Tour

28 May 2009

<u>Name:</u> Numbe	r of total participants:
	e check (X) one of the tours you would like to participate and return the o the secretariat (jckjc09@mri-jma.go.jp) by May 8 (Friday), 2009.
at the Japan	e keep in mind that the final participants will be determined by signing conference registration desk, until the seats will be filled up. The ese participants may get their seats if the seats are still available after ninese and Korean participants applied.
in the	nal participant lists for each Tour will be available in print and displayed morning of May 27 at the registration desk. We will notify that you are ed or not selected as the final participant via e-mail on May 26 [.]
🔲 Tour	1 (about 9 hours starting at 8 AM, including lunch)
	Visiting 3 institutions and Mt. Tsukuba Sightseeing
	Up to 50 participants
	Schedule>
8:00	Epochal
8:10	Meteorological Research Institute
	Watch Sonde Release at 8:30
10:00	National Institute of Advanced Industrial Science and Technology Lunch (11:30 – 12:30)
12:50	University of Tsukuba
14:20	Mt. Tsukuba
17:10	Epochal
Tour	2 (about 7 hours starting at 9 AM, including lunch) Visiting 4 institutions
	Up to 26 participants
<time s<="" td=""><td>chedule></td></time>	chedule>
9:10	Epochal
9:30	Geophysical Survey Institute
11:00	National Institute of Advanced Industrial Science and Technology Lunch (12:00 – 12:50)
13:00	JAXA
14:40	Meteorological Research Institute
16:00	Epochal