PROGRAM TIMETABLE

Date Time	24 Oct. (Mon.) 2011					25 Oc	ct.(Tue	.) 2011		26 Oct.(Wed.) 2011	
09:00~10:00	Opening Ceremony (Nurimaru)				Opening Ceremony for KMS			Excursion (Planned)			
10:00~11:00	Plenary Session (Nurimaru)				(C205)			,			
11:00~12:00					Invited Lectures				Session for KMS		
12:00~14:00	Poster Session/Lunch Break (BEXCO)			Poster Session/Lunch Break (BEXCO)			Lunch Break				
14:00~15:40	C201	C202	C203	C204	C206	C201	C202	C203	C204	C206	Session for KMS
	NWP (1)	MON (1)	CLC (1)	TYP (1)	SAT (1)	BOL (1)	MON (3)	CLC (3)	AGR (2)	SAT (3)	
15:40~16:00	Poster Session/Break					Poster	Sessio	n/Brea	ık	Break	
	C201	C202	C203	C204	C206	C201	C202	C203	C204	C206	Session
16:00~18:00	AGR (1)	MON (2)	CLC (2)	TYP (2)	SAT (2)	BOL (2)	NWP (2)	TYP (3)	AGR (3)	OTH (1)	for KMS
18:00~	Reception for KJC Joint Conference @ Haeundae Grand Hotel					Recepti //S @ E	on BEXCC)			

Organized by

Korean Meteorological Society (KMS), Meteorological Society of Japan (MSJ), and Chinese Meteorological Society (CMS)

- @ The Opening Ceremony on the first day will be held at the Nurimaru APEC House
- @ Sessions: NWP (Numerical Weather Prediction), MON (Monsoon), AGR (Aerosol Gas and Radiation), CLC (Climate Change), TYP (Typhoon), SAT (Satellite), BOL (Boundary Layer), OTH (Others)

SCIENTIFIC SESSIONS(24 - 25 Oct. 2011)

Guidelines for presentation

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

ORAL PRESENTATION

Time allocation

The time allocated for each presentation is **15 minutes** (12 minutes presentation, 3 minutes for Q&A), except invited presentations (**20 minutes** 16 minutes presentation, 4 minutes Q&A).

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. Please **make sure that the presentation files are correctly displayed before the session begins**. If you use an **USB memory stick to bring your presentation file**, please also make sure that virus check is executed beforehand.

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 lounge. 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 lounge. Posters should be set up <u>between 8:00 and 12:00</u> <u>on 24 October</u> 2011, and <u>remain up to 14:00 on 25 October</u> 2011. 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 25 October 2011.

PROGRAM

Plenary Session (24 October 2011)

(Place: Nurimaru APEC House, Haeundae)

Registration
Opening Ceremony, MC: Jae-Cheol Nam (KMA)
Welcome remarks: President of KMS(Hi-Ryong Byun)
Congratulatory remarks: Representative of China, Japan
Group Photos

Keynote lectures, Chair: Jae-Hwan Kim (PNU)

10:00-10:20	Taichu Y. Tanaka: Numerical simulation of the seasonal variation of elevated dust aerosol from Taklimakan desert
10:20-10:40	B.J. Sohn and Sang-Wook Yeh: Observational evidences supporting increased
	Walker circulation over the recent three decades4
10:40-11:00	Kazuo Saito: Studies at MRI toward the cloud resolving NWP5
11:00-11:20	Riko Oki, Takuji Kubota, Misako Kachi: Cloud and precipitation
	observation by space borne Radar in Japan: The current and future missions 6
11:20-11:40	II-Ju Moon: Effect of salinity on tropical cyclone intensity7
11:40-12:00	Riyu Lu, Chaofan Li, and Buwen Dong: Predictability of the western North Pacific
	summer climate demonstrated by the coupled models of ENSEMBLES 8
12:10	Lunch Break @ BEXCO

Opening Session (25 October 2011)

(Place: Conference Room C205, BEXCO)

	(, 1800, 00, 10, 10, 10, 10, 10, 10, 10, 10,	, – ,
09:00- 10:00	Registration	
10:00- 10:30	Opening Ceremony, MC: II-Ung Chung (KWNU)	
	Opening remarks: President of KMS(Hi-Ryong Byun)	
	Congratulatory remarks: KMA Administrator (Seok-Joon Cho)	
	Invited lectures, Chair: Byung-Ju Sohn (SN	1U)
10:30-11:00	Seok-Joon Cho: A New Perspective on the	
	Weather and Climate Service 11	
	56	
	Administrator	
	Korea Meteorological Administration (KMA)	
11:00-11:30	Hiroyuki Murakami, Hiromasa Yoshimura,	_
11.00-11.30	•	
	Ryo Mizuta, and Akio Kitoh: Future changes in tropical	
	cyclone activity projected by The New 20-Km-Mesh	
	High-Resolution MRI-AGCM ······ 12	
	Project Researcher	
	Japan Agency for Marine-Earth Science & Technology(JAMSTEC)	
	Meteorological Research Institute (MRI)	
	Japan Meteorological Agency (JMA)	
	Sapari Meteorological Agency (SMA)	
11:30-12:00	John T. Snow: Urban meteorology: Challenges and	
	emerging opportunities ······· 13	
	Regents' Professor, School of Meteorology	
	Dean Emeritus, College of Atmospheric and Geographic Sciences	

University of Oklahoma

Oral Presentation Schedule

Session: Numerical Weather Prediction (NWP)
Session Conveners: Hyeong-Bin Cheong, Tadashi Tsuyuki, and Jing Chen

NWP-1 Chair: Xing YU and Tadashi Tsuyuki (24 Oct. 2011)

(Place: BEXCO Room C201)

14:00-14:20	Tadashi Tsuyuki: Data assimilation in a two-scale model with Kalman filters. (invited lecture, 20 mins)
14:20-14:35	Xing Yu, Seon Ki Park, Yong-Hee Lee, Kwang-Deuk Ahn, Sung-Ho Choo:
	The gridding of MOS for high resolution forecasting
14:35-14:50	SeHyun Kim and Hyun Mee Kim: Adjoint-based forecast sensitivity applied to three
	Asian dust events affecting the Korean peninsula 22
14:50-15:05	Ja-Rin Park, Hyeong-Bin Cheong, and Hyun-Gyu Kang: Limited-Area
	Domain Spectral Filter on Mercator Map Projection
15:05-15:20	Michiya Hayashi, and Hisanori Itoh: On the importance of the non-traditional
	coriolis terms in the interaction between cumulus convection and
	large-scale motions in the tropics
15:20-15:35	Ui-Yong Byun and Song-You Hong: Numerical simulation of
	heavy rainfall event over Gyunggi-Province of Korea in September 2010 25

NWP-2 Chair: Kazuo Saito and Hyeong-Bin Cheong (25 Oct. 2011)

(Place: BEXCO Room C202)

16:00-16:20	Seungbum Hong, Xing Yu, Seon K. Park, and Yong-Sang Choi:
	Finding the bestland surface model for local applications using
	Coupled NOAH-MP and MGA Model (invited lecture, 20 mins) 26
16:20-16:35	Hyun-Gyu Kang, Hyeong-Bin Cheong, and Ja-Rin Park:
	Track and intensity prediction of typhoons in 2010 with SABV method 21

16:35-16:50	Eun-Gyeong Claire Yang, and Hyun Mee Kim: Adaptive observations to improve
	numerical weather prediction for an Asian dust affecting Korea:
	An observation system simulation experiment
16:50-17:05	Daisaku Uesawa: Verification of cloud overlap parametarization schemes
	for satellite radiance assimilation by using CloudSat data
17:05-17:20	Byoung-Kwon Park, Song You Hong: Impacts of physical processes
	on medium- range forecasts in a Global Spectral Model ······ 30
17:20-17:35	Hiromu Seko, Tadashi Tsuyuki, and Kazuo Saito: Development of an
	Letkf Two-Way Nesting System for A Cloud Resolving Model

Session: Monsoon (MON) Session Conveners: Kyung-Ja Ha, Hiroaki Ueda, and Riyu Lu

MON-1 Chair: Riyu-Lu and Hyung-Jin Kim (24 Oct. 2011)

(Place: BEXCO Room C202)

14:00-14:20	Hiroaki Ueda: A comparison look at driving forces of the Asian Monsoon
	between colder and warmer climate (invited lecture, 20 mins) 35
14:20-14:35	Hyung-Jin Kim, Kumiko Takata, Bin Wang, Masahiro Watanabe,
	Masahide Kimoto, Tokuta Yokohata and Tetsuzo Yasunari: Global monsoon, El Niño,
	and Their interannual linkage simulated by MIROC5 and the CMIP3 CGCMs ······· 37
14:35-14:50	Woonseon Jung, Dong-In Lee, Sung-Hwa Park and Kyungsik Kim:
	Characteristics of distribution of sea surface temperature in three seas ······ 38
14:50-15:05	Wei Chen, Riyu Lu and Buwen Dong: Impacts of El Niño transition on the western
	North Pacific anticyclone anomalies in the decaying summer
15:05-15:20	Feng Xue and Tonghua Su: Two Northward Jumps of the Summertime Western
	Pacific Subtropical High and their associations with the Tropical SST Anomalies $\cdots\cdots\cdots 40$
15:20-15:35	W. Samad Daming, Jaiho-Oh: Seasonal variation of SST and Chlorophyll
	Distribution in Indonesian waters during East Monsoon 41

MON-2 Chair: Kyung-Ja Ha and Kunihiko Kodera (24 Oct. 2011)

(Place: BEXCO Room C202)

16:00-16:20	Kyung-Ja Ha and Ki-Young Heo: Impact analysis and quantitative prediction for	
	Monsoon and Climate with Global Warming (invited lecture, 20 mins)	42
16:20-16:40	Congwen Zhu: Recent weakening of East Asian Summer Monsoon: A possible	
	response to Global Warming (invited lecture, 20 mins)	43
16:40-16:55	B. Zhou: Study on anomalous activities of EASM and	
	Extreme Climate Events in 2010 ·····	44
16:55-17:10	Chi-Yung Tam, Ying Lut Tung, Soo-Jin Sohn and Jung-Lien Chu: Predicting the	
	station-scale summertime rainfall in South China-Comparison between	
	direct model outputs and statistical downscaling	45
17:10-17:25	Jung-Eun Chu, Sajin. Hameed, and Kyung-Ja Ha:	
	Non-Linear, Intraseasonal phases of The East Asian Summer Monsoon:	
	Extraction and analysis using Self-Organizing Map	46
17:25-17:40	Jie Song, HaiYan Shao, HongYun Ma: Sensitivity of the East Asian Summer	
	Monsoon precipitation to large-scale urban expansion in East Asia	47
17:40-17:55	Haruna Nakamura and Hisanori Itoh: An observational study of heavy rainfall	
	events associated with the bending of the Baiu Front ······	48

MON-3 Chair: Hiroaki Ueda and Congwen Zhu (25 Oct. 2011)

(Place: BEXCO Room C202)

14:00-14:20	Kunihiko Kodera, Hitoshi Mukougawa, Yuhji Kuroda, and Nawo Eguchi: Impact
	of stratospheric sudden warming event on the tropical circulation and convection
	(invited lecture, 20 mins) ————————————————49
14:20-14:35	Zhongda Lin: Two types of abrupt northward jumps of the East Asian upper-troposp
	heric jet stream in mid-summer: Impact and dynamics 50
14:35-14:50	Tadahiro Hayasaka: Air-Sea interaction in Monsoon Asia through cloud and
	radiation processes —————————————————————————————————

14:50-15:05	Xu Kang, Zhu CongWen, and He JinHai: The impact of the surface air	
	temperature warming around Lake Baikal on the trend of summer precipitation in	
	North China over the past 50 years ·····	52
15:05-15:20	Ki-Young Heo, Kyung-Ja Ha, and Sun-Seon Lee: Interdecadal change in pacific	
	storm track activity and its possible causes	53

Session: Aerosol Gas and Radiation (AGR) Session Conveners: Jhoon Kim, Teruo Aoki, and Xiao-Ye Zhang

AGR-1 Chair: Xiao-Ye Zhang and Sang-Woo Kim (24 Oct. 2011)

(Place: BEXCO Room C201)

16:00-16:15	Sihye Lee , Soon-Chang Yoon, Sang-woo Kim, Yong Pyo Kim and Young Sung Ghim: Spectral dependency of light scattering/absorption and hygroscopicity of pollution and dust aerosols in Northeast Asia
16:15-16:30	Ji-Hyoung Kim, Soon-Chang Yoon, Sang-Woo Kim: Comparison of aerosol
	absorption coefficient obtained from photoacoustic and
	filter-based optical measurements 58
16:30-16:45	A.S. Panicker, S. Park and Dong-In Lee, Dong-Chul Kim, Yu-Won Kim,
	Eun-Sil Kim and Harrison Jeong: Particulate matter characteristics over
	A Global Atmosphere Watch Supersite (Anmyeon) in South Korea 59
16:45-17:00	Eunha Kang, William H. Brune, Soon Chang Yoon, Sang Woo Kim, Sungho Woo
	and Meehye Lee: Secondary aerosol forming potential of air masses observed at
	Jeju, Korea: Experimental Potential Aerosol Mass (PAM) chamber study 60
17:00-17:15	Haeyoung Lee, Jeong Eun Kim, and Youngsin Chun: The water-soluble ionic
	composition and trace elements of coarse and fine particles during heavy
	Asian Dust Case in Seoul, Korea, 2008 61
17:15-17:30	Jihyun Han, Meehye Lee, and Xiaona Shang: Measurement of
	TOC(Total Orgamic Carbon) in PM1.0 uisng pils at Gosan ABC Superstation
17:30-17:45	Sumin Kim, Seung-Joo Song, and Youngsin Chun: Features of Aerosol
	observed in Seoul, Korea in the springtime 2009 ······· 63

AGR-2 Chair: Jhoon Kim and Rokjin Park (25 Oct. 2011)

(Place: BEXCO Room C204)

14:00-14:20	Sang-Woo Kim, Soon-Chang Yoon, Hae-Jung Lee, Ji-Hyoung Kim: Aerosol
	light absorption And Black Carbon In
	Asian Continental outflow (invited lecture, 20 mins) 64
14:20-14:35	In-Jin Choi, Sang-Woo Kim and Soon-Chang Yoon: Different responses of
	cloud microphysics by aerosol and meteorological conditions
14:35-14:50	J. H. Kim, S. S. Yum, S. Shim, SC. Yoon, J. G. Hudson, J. Park and SJ. Lee:
	On Aerosol Hygroscopicity, Cloud Condensation Nuclei (CCN) Spectra and Critical
	Supersaturation Measured at two remote Islands of Korea between 2006 and 2009 \cdots 66
14:50-15:05	Seung-Hee Eun, Byung-Gon Kim, Sang-Hee Chae and Ki-Ho Chang: Effect of
	urbanization on the light precipitation in The Mid-Korean Peninsula 67
15:05-15:20	Yoo-Jun Kim, Byung-Gon Kim, Mark Miller, Qilong Min and Chang-Keun Song:
	Enhanced aerosol-cloud relationships in more stable and adiabatic clouds 68
15:20-15:35	Yumi Kim, Sang-Woo Kim, Soon-Chang Yoon, Kwang-Yul Kim and Jegyu Ryu:
	New particle formation and growth events in Asian Continental outflow regions 69

AGR-3 Chair: Teruo Aoki and Youngsin CHUN (25 Oct. 2011)

(Place: BEXCO Room C204)

16:00-16:20	Rokjin Park: Effect of future climate changes on ozone and aerosol concentrations in
	East Asia (invited lecture, 20 mins) 70
16:20-16:35	Kyo-Sun Sunny Lim and Song-You Hong: Simulation of a
	flash-flood heavy rainfall event over Korea in clean and dirty atmosphere 71
16:35-16:50	Eun-Hee Lee, Sang-Sam Lee, Youngsin Chun: Evaluation of
	Asian Dust Forecasting Model UM-ADAM2 operated by KMA ···································
16:50-17:05	Man-Hae Kim, Sang-Woo Kim, and Soon-Chang Yoon: Comparison of
	aerosol optical thickness between CALIOP and MODIS 73
17:05-17:20	Hye-Ryun Oh, Chang-Hoi Ho, Yong-Sang Choi: Observational estimation of
	the direct effects of aerosols on clear- and all-sky radiation 74

17:20-17:35	Tae-Young Goo, Yeon-Jin Jung, Mi-Lim Ou, Chun-Ho Cho and Sang-Boom Ryoo:
	Characteristic of Spatio-Temporal Variation for Satellite-Based CO2 Retrieval and its
	Comparison with Carbon Tracker ····································

Session: Climate Change (CLC) Session Conveners: Won-Tae Kwon, Akio Kitoh, and Yong Luo

CLC-1 Chair: Won-Tae Kwon (24 Oct. 2011)

(Place: BEXCO Room C203)

14:00-14:15	WonMoo Kim , Sang-Wook Yeh, Joo-Hong Kim, Jong-Seoung Kug, and MinHo Kwor The unique 2009–2010 EL NIÑO Event: A fast phase transition of warm pool	1:
	EL NIÑO TOLA NIÑA ·····	79
14:15-14:30	Yue Yang and Kaoru Fukuyama: Spatial features of the precipitation pattern in	
	China over the Last Half Century ······	80
14:30-14:45	Sae-Rim Yeo and Kwang-Yul Kim: Decadal change in the relationship between	
	ENSO and North Pacific SST ······	81
14:45-15:00	Yoojin Kim, Kwang-Yul Kim, Baek-Min Kim: Interannual and long-term	
	variations of European winter snow cover and related physical mechanisms	82
15:00-15:15	Haruka Sakata and Kaoru Fukuyama: Glacial-interglacial cycles and	
	dust spikes found in East Antarctica dust records	83
15:15-15:30	Boksoon Myoung, Yong-Sang Choi and Seon Ki Park: Interannual variability of	
	vegetation phenology in the Northern Hemisphere ······	84

CLC-2 Chair: Hiroyuki Murakami (24 Oct. 2011)

(Place: BEXCO Room C203)

16:00-16:15 **Hirokazu Endo**, Akio Kitoh, Tomoaki Ose, Ryo Mizuta and Shoji Kusunoki: Future changes of Asian Monsoon Simulated by High-Resolution MRI-AGCM ·················· 86

October **24-26**, 2011 Busan, Korea

16:15-16:30	Hee-Jeong Baek, Johan Lee, Hyo-Shin Lee, ChunHo Cho, Sun-Yeong Gan, Min-Ji Kim,
	Kyoung-On Boo and Hyun-Suk Kang: Climate change projections using
	Representative Concentrations Pathways and Hadgem2-AO Climate Model 87
16:30-16:45	Sachie Kanada, Masuo Nakano and Teruyuki Kato: Projections of future changes
	in precipitation and the vertical structure of the frontal zone during the Baiu Season
	in the vicinity of Japan using A 5-Km-Mesh Regional Climate Model88
16:45-17:00	Suhee Park, In-Hye Lee, Hyun-Suk Kang, and ChunHo Cho:
	Regional climate projection for East Asia and Korea using the HadGEM3-RA89
17:00-17:15	Akihiko Murada, Masuo Nakano, Sachie Kanada, Kazuo Kurihara and Hidetaka Sasaki:
	Summertime temperature extremes over Japan projected by A High-Resolution
	Regional Climate Model ····································

CLC-3 Chair: Byung-Ju Sohn (25 Oct. 2011)

(Place: BEXCO Room C203)

14:00-14:15	Toshiki Iwasaki and Chihiro Kodama: How does the vertical Profile of
	baroclinicity affect the wave instability? 91
14:15-14:30	Yoon-Kyoung Lee, Sang-Wook Yeh, Boris Dewitte, Byung-Kwon Moon,
	Jong-Ghap Jhun, Chang-Hoi Ho: The influences of interannual stratification
	variability and wind stress forcing on ENSO before and after the 1976 climate shift \cdots 92
14:30-14:45	Mi-Jin Hong, Jai-Ho Oh, In-Won Kim, Morang Her, Su-Min Woo:
	Estimation of best Ensemble size for seasonal prediction with the use
	of high resolution Global Model93
14:45-15:00	Chang-Eui Park, Chang-Hoi Ho, Su-Jong Jeong, Jinwon Kim, Feng Song:
	Potential impact of vegetation feedback on alleviation of climate aridity over the
	United States in a 2CO2 climate condition94
15:00-15:15	Dong-Hoon Kim, Seung-Buhm Woo and Chae-Wook Lim: Investigation on steric
	and Nonsteric Effect on sea level rise projections of Northwestern Pacific Ocean 95

Session: Typhoon (TYP) Session Conveners: H. Joe Kwon, Kazuo Saito, and Xiaotu Lei

TYP-1 Chair: H. Joe Kwon and Qingqing Li (24 Oct. 2011)

(Place: BEXCO Room C204)

14:00-14:20	Kazuo Saito, Yoshinori Shoji, Seiji Origuchi, Hiromu Seko and Le Duc:
	GPS TPW assimilation with the JMA Nonhydrostatic 4DVAR and cloud resolving
	ensemble forecast for the 2008 August Tokyo metropolitan area local heavy rainfalls
	(invited lecture, 20 mins)99
14:20-14:35	Qingqing Li and Yuqing Wang: Formation and Quasi-Periodic Behavior of outer
	Spiral Rainbands in a Numerically Simulated Tropical Cyclone 100
14:35-14:50	Yoshiaki Miyamotoand Tetsuya Takemi: A transition mechanism for the Spontaneous
	Axisymmetric Intensification of Tropical Cyclones
14:50-15:05	Sung-A Jung, Masayuki Maki, Dong-In Lee, Dong-Soon Kim,
	and Shyuichi Tsuchiya: Retrieval of microphysical properties of localized
	convective precipitation using 2DVD and X-band polarimetric radar network 102

TYP-2 Chair: Xiaotu Lei and Masahiro Sawada (24 Oct. 2011)

(Place: BEXCO Room C204)

16:00-16:20	Kun-Young Byun and Tae-Young Lee: Numerical investigation of remote effects of Tropical Cyclones on heavy rainfall over the Korean Peninsula	
	(invited lecture, 20 mins)	103
16:20-16:35	Sho Yokoda, Hiroshi Niino and Wataru Yanase :	
	A numerical experiment on the Genesis of Tropical Cyclones due to	
	ITCZ breakdown mechanism ·····	104
16:35-16:50	H. Joe Kwon, Yunje Lee: A new concept on Consensus Typhoon	
	Track Forecasting ·····	105
16:50-17:05	Qian Wang, Qingqing Li and Gang Fu: Extratropical Transition Times of	
	Mindulle (2004) and Yagi (2006)	106

October 24 - 26, 2011 Busan, Korea

17:05-17:20	Masahiro Sawada , Toshiki Iwasaki : Mechanism for temporal variation of convective activity associated with Tropical Cyclone using a Cloud Resolving Simulation	
TYP-3 Ch	air: Kazuo Saito and Gyu-Won Lee (25 Oct. 2011) (Place: BEXCO Room C203)	
16:00-16:20	Jie Cao, Qin Xu, and Shouting Gao: What kind of metric should be used to study	
	the balanced flow in Typhoon? (invited lecture, 20 mins)	
16:20-16:35	Gyu-Won Lee : Stratiform Rain: Complexity of Microphysical Processes	
16:35-16:50	Tetsuya Takemi, SENSITIVITY OF THE EVOLUTION AND STRUCTURE OF	
	SIMULATED TROPICAL CYCLONES TO TURBULENCE MIXING PARAMETERIZATION	
16:50 17:05		
16:50-17:05	Kenji Tanaka: Origins of atmospheric disturbance resulted in Meteotsunami propagated to Kyushu, Japan	
17:05-17:20	JiHye Kim, JaiHo Oh, YooRim Jung and MoRang Her: Prediction of heavy rainfall	
17.05-17.20	using high resolution QPM over the River Basins of the Korea	
Sessi	Session: Satellite (SAT) on Conveners: Myoung-Seok Suh, Riko Oki, and Jun Yang	
SAT-1 Chair: Myoung-Seok Suh and Tadahiro Hayasaka (24 Oct. 2011) (Place: BEXCO Room C206)		
_		
14:00-14:20	Jun Wen, Rong Liu, Yue Kang: Land surface vapotranspiration estimated from	
	Chinese Meteorological Satellite Measurements (invited lecture, 20 mins) 117	
14:20-14:35	Nobuo Sugimoto, Tomoaki Nishizawa, and Hajime Okamoto: Aerosol	
	classification Retrieval Algorithm for Earthcare/Atlid	
14:35-14:50	Sang-Sam Lee and Byung-Ju Sohn: Artificial Neural Network approach for	
	retrieving nighttime AOT of Asian Dusts from MODIS IR measurements 119	

14:50-15:05	Seung-Woo Lee, Hosung Suh, Dohyeong Kim, Jeongrae Kim and Young Jae
	Lee: Real-Time Determination of precipitable water vaper using Global
	Navigation Satellites System
15:05-15:20	Tadahiro Hayasaka and Tetsuhiko Saito: Indirect and Semi-Direct effects of
	dust aerosols on the East Asian Clouds 121
15:20-15:35	Juseon Bak, Xiong Liu, Jennifer C. Wei, Laura L. Pan, Jae H. Kim, Kelly Chance,
	Christopher D. Barnet: Improvement of OMI ozone profile retrievals in the troposphere
	and lower stratosphere by use of a tropopause-based ozone profile climatology 122

SAT-2 Chair: Riko Oki and Jun Yang (24 Oct. 2011)

(Place: BEXCO Room C206)

16:00-16:20	Yukari N. Takayabu, Atsushi Hamada, Takuji Kubota, Misako Kachi, Shoichi Shiga and Riko Oki: What we have learned from TRMM and what we should	e,
	connect them to GPM? (invited lecture, 20 mins) ·····	123
16:20-16:35	Satoshi Kida, Takuji Kubota, Misako Kachi, Riko Oki: Near-Real-Time	
	Global Rainfall Map using Multi-Satellite Data by Jaxa and Development	
	of the Gsmap Sounder Algorithm.	124
16:35-16:50	Geun-Hyeok Ryu, Byung-Ju Sohn, Christian Kummerow, Eun-Kyoung Seo,	
	Gregory J. Tripoli: Rain rate characteristics over the Korean Peninsula	
	and improvement and of the Goddard Profiling (GPROF) database for	
	TMI Rainfall Retrievals ·····	125
16:50-17:05	Takuji Kubota, Naofumi Yoshida, Shuji Shimizu, Riko Oki, Shinta Seto, Hiroshi	
	Hanado, and Toshio Iguchi: Development of synthetic GPM/DPR data using the	
	TRMM/PR observations ·····	126
17:05-17:20	Tetsuya Kodama and Koh-Ichiro Oyama: The ELMOS Constellation:	
	GPS Occultation Measurements by Small Satellite Constellation	127
17:20-17:35	Nobuhiro Takahashi, Toshiyoshi Kimura, Yuichi Ohno, Hiroaki Horie, Hirotaka	
	Nakatsuka, Yoshihiro Seki, Kenji Sato, Kazuyuki Okada, Yasuo Sakaide and	
	Gaku Kadosaki: Development status ofCloud Profiling Radar (CPR)	
	Onboard Earthcare Satellite ·····	128

SAT-3 Chair: Jun Wen and Kyoung-Wook Jin (25 Oct. 2011)

(Place: BEXCO Room C206)

14:00-14:20	Kyoung-Wook Jin, Seok-Bae Seo, Bang-Yeop Kim: COMS Data calibrations
	and their applications for weather and climate sciences (invited lecture, 20 mins) 129
14:20-14:35	Teruo Aoki, Hiroki Motoyoshi, Katsuyuki Kuchiki, Masashi Niwano, Masahiro
	Hori, and Tomonori Tanikawa: Satellite remote sensing of snow physical
	parameters using two-snow layer model ······ 130
14:35-14:50	Youngmi Kim, Mi-Lim Ou, Sang-Boom Ryoo: Introduction to the sea ice
	monitoring system for the polar regions by remote sensing at NIMR 131
14:50-15:05	Sun Park: Cloud, cloud shadow, and data sampling issues of satellite-based
	vegetation index time series
15:05-15:20	Jeong-Hyun Park, Somyoung Kim, Mi-Lim Ou, and Sang-Boom Ryoo:
	Optimization of wind retrieval algorithm using geostationary satellite imagery 133
15:20-15:35	H. J. Choi and I. N. Sokolik: Impact of spheroid mixture selection on dust
	optical properties for use in lidar remote sensing

Session: Boundary Layer (BOL)

Session Conveners: Jae-Jin Kim, Hiroaki Kondo, and Chunsheng Zhao

BOL-1 Chair: Jae-Jin Kim and Chunsheng Zhao (25 Oct. 2011)

(Place: BEXCO Room C201)

14:00-14:20	Hiroaki Kondo, Akihiro Hori and Katsuhiko Mutou: Wind tunnel experiment for	
	scalar flux measurement on inclined surface (invited lecture, 20 mins)	137
14:20-14:35	Yasushi Fujiyoshi, Chusei Fujiwara and Masayuki Kawashima: Short	
	summary of two years field observations of winds over the ocean -WINPOD-L	
	(wind power observation by doppler-LIDAR)- ·····	138
14:35-14:50	Junshi Ito, Hiroshi Nino, and Mikio Nakanishi: Formation mechanism of	
	dust devils in idealized convective mixed layers ······	139

14:50-15:05	Chang Ki Kim and Seong Soo Yum: The formation mechanism of cold sea fog	
	over the yellow sea near The Korean peninsula ······	140
15:05-15:20	Chunsheng Zhao: Haze in China ·····	141

BOL-2 Chair: Hiroaki Kondo and Young-Hee Lee(25 Oct. 2011)

(Place: BEXCO Room C201)

16:00-16:20	Xueling Cheng, Fei Hu and Lei Liu: Stochastic modeling the effect of wind gust
	on dust entrainment during dust storm. (invited lecture, 20 mins) 142
16:20-16:35	Qun Dai, Ming Luo and Marc Aurel Schnabel: Modeling urban heat island by
	integrating environmental information with meteorological observations 143
16:35-16:50	Young-Hee Ryu and Jong-Jin Baik: Interactions between daytime local
	circulations in The Seoul metropolitan area ··································
16:50-17:05	Tetsuya Takemi and Hiromasa Nakayama: LARGE-EDDY simulations of
	turbulent boundary-layer flow over urban areas with complex roughness elements
	by coupling mesoscale meteorological and CFD models145
17:05-17:20	Young-Hee Lee: Influence of non-flat terrain and wind direction shear
	on canopy turbulence ······ 146

Session: Others (OTH)

OTH-1 Chair: Jing Xi and Dong-Kyun Kim (25 Oct. 2011)

(Place: BEXCO Room C206)

16:00-16:20	Ken Crawford, K. L. Kim, and B. H. Song: Ten founding principles of advanced
	climate data services by KMA. (invited lecture. 20 mins) 149
16:20-16:35	Jing Xi, Li Mingjuan, Li Qiang, Tu Nini: Research on flooding torrential rain
	caused by interaction of MCC and meso-b scale convective cell in China 150

October 24-26, 2011 Busan, Korea

16:35-16:50	Dong-Kyun Kim, Yeon-Hee Kim, and Yong-Hee Lee: Wind profiler	
	measurements of snowfall cases during the 2010 winter ·····	151
16:50-17:05	Ki-Hoon Kim and Hi-Ryong Byun: A study on the development of	
	blocking high over East Asia ·····	152

Poster Presentation List

Session: Numerical Weather Prediction (NWP)

Session Conveners: Hyeong-Bin Cheong, Tadashi Tsuyuki, and Jing Che

NWP-01	Qi Lin-lin, Wang Xaio-Dan: The application of the coupled model in the numerical
	simulation of the local radiation fog. ————————————————————————————————————
NWP-02	Yoon-Jeong Hwang, Yeon-Hee Kim, Dong-Eon Chang, and Hee-Choon Lee:
	Climatological ensemble-based sensitivity analysis for summer over South Korea. \cdots 156
NWP-03	Hee Choon Lee, Jong-Chul Ha and Yong Hee Lee : Development of a lightning
	probabilistic forecast system for very short-range forecast over
	the Korean Peninsula ······ 157
NWP-04	Jong-Im Park , Yeon-Hee Kim : Establishment and evaluation of real time
	adjoint-based targeting observation system
NWP-05	Uju Shin, Tae-Young Lee: A comparison of one-way and two-way grid
	nesting of mesoscale model in real-case 159
NWP-06	Seung-Sook Shin, Jong-Im Park, and Yeon-Hee Kim: Effects of the 2010
	summer special observation data on the rainfall predictability 160
NWP-07	Ji Won Yoon, Yong Hee Lee, Jong-Chul Ha, Dong-Eon Chang: Short-range
	ensemble probabilistic forecasts of precipitation using bayesian
	model averaging and logistic regresstion analysis
NWP-08	Jeong-Soon Lee, Jong-Chul Ha, Yong Hee Lee, Hee Choon Lee:
	Improvement of objective analysis using elevation-dependent weighting function ····· 162
NWP-09	Jong-Chul Ha, Jeong-Soon Lee, Yong Hee Lee, Hee-Choon Lee:
	The Korea localreanalysis: 2007-2010

NWP-10	Jonghun Jin, Hee Choon Lee, Jong-Chul Ha and Yong Hee Lee :
	Development of a nowcasting system combined variational echo tracking
	and radar-aws rainrate composition 164
NWP-11	Jihyeon Jang, Song-You Hong: Effects of a shallow convection
	parameterization in seasonal prediction of a global spectral model 165
NWP-12	Eun-Hee Kim, Kwang-Deuk Ahn, Yong-Hee Lee and Hee-Choon Lee :
	The case study of heavy rainfall occurred in metropolitan area using
	a cloud model and its adjoint: 27 July 2011 ······ 166
NWP-13	Sun-Hee Jung, Eun-Soon Im, Sora In and Sang-Ok Han: The effect of
	orography and sea surface temperature on the heavy snowfall for the
	Yeongdong region: A case study with high resolution Wrf Simulation 167
NWP-14	Ji-Eun Nam, Jong-Chul Ha, Yong-Hee Lee : Calculation of quantitative snowfall
	depth in Korea Local Analysis and Prediction System (KLAPS) 168
NWP-15	Kang-Deuk Ahn, Yo-Han Cho, Sung-Hwa Jung, Gyuwon Lee, Yong Hee Lee:
	Improvement of Korea Local Radar Processing System (KLRPS) for
	data assimilation and its impact on very short range forecast
NWP-16	Jina Hur, Joong-Bae Ahn, Kyo-Moon Shim, Deog-Bae Lee : Seasonal
	forecast over Northeast Africa using dynamical downscaling 170
NWP-17	Su-Bong Lee, Joong-Bae Ahn, Sang-Bum Ryu, Pil-Hun Chang:
	Comparative Analysis of Model climatologies of NEMO And MOM4 OGCMs 171
NWP-18	Juwon Lee, Yong Hee Lee : Optimization of mogreps parameters
	using genetic algorithm ····································

Session: Monsoon (MON)

Session Conveners: Kyung-Ja Ha, Hiroaki Ueda, and Riyu L

MON-01	Jie Cao, Ping Yao and Wei Huang: Simulation of the modern summer climate over	
	Greater Mekong Sub-region (GMS) By ECHAM5-REGCM3 ·····	175
MON-02	Ayumi Kibe, Hiroaki Ueda, Tomoshige Inoue: Detecting remote impact of	
	convective heating for wintertime snowfall in Japan	176
MON-03	Yuki Yuda, Hiroaki Ueda, Masamichi Ohba, Youichi Kamae : Double ITCZ in	
	an AGCM with piecewise constant SST experiments	177

October **24-26**, 2011 Busan, Korea

MON-04	Nawo Eguchi, Tadahiro Hayasaka, Masahiro Sawada: Characteristics of
	"YAMASE" Cloud : A case study of summer 2003 178
MON-05	Satomi Kazama, Hiroaki Ueda, Yoichi Kamae : Decrease in wintertime
	precipitation over the South Asia under global warmig 179
MON-06	Jung Ok, Kyong-Hwan Seo : An assessment of future climatic changes of
	the East Asian summer monsoon using AR4 coupled climate models 180
MON-07	Hirokazu Endo: Long-Term Changes Of Seasonal Progress In Baiu
	Rainfall Using 109 Years (1901–2009) Daily Station Data
MON-08	Takafumi Idenaga, Hiroshi G. Takahashi, Jun Matsumoto : Short term
	variation of sea surface temperature over the Japan Sea and snowfall over Japan $\cdots 182$
MON-09	Eun-Ji Song, Kyong-Hwan Seo: Initiation of Boreal Summer
	Intraseasonal Oscillation: dymamic control by potential vorticity 183
MON-10	Ju-Yeon Kim, Dong-In Lee, Masayuki Maki, Dong-Soon Kim:
	Statistical analysis of convective precipitations using one-minute X-band
	polarimetric radar rainfall data ······ 184
MON-11	Song Yan, Zhang J, Li Z.C: Effect of snow depth in winter over the
	Tibetan Plateauon summer precipitation in China ······ 185
MON-12	U. K. Singh, V. Singh, Joong-Bae Ahn: APCC set of model validation for
	seasonal prediction of Indian Monsoon 186

Session: Aerosol Gas and Radiation (AGR)

Session Conveners: Jhoon Kim, Teruo Aoki, and Xiao-Ye Zhang

AGR-01	Chun-Sang Hong, Sung-Hwa Park, Woon-Seon Jung, Dong-In Lee,
	Yasunobu lwasaka : Characteristics of atmospheric aerosol at
	Ulleungdo, Korea in 2009 189
AGR-02	Ewa Krajny, Leszek Osrodka, Marek Wojtylak: Attempt to identify the
	contribution of stratospheric ozone episodes in the
	ground layer of the atmosphere
AGR-03	Leszek Osrodka, Ewa Krajny, Marek Wojtylak: The temporal and spatial
	variation in concentrations of beryllium-7 in the surface layer of air in
	Poland and its relationship with meteorological conditions

AGR-04	Tsuyoshi Thomas Sekiyama, T. Y. Tanaka, T. Maki, and M. Mikami : Asian dust	
	emission estimated by ensemble data assimilation of	
	satellite-borne lidar observation ······	. 192
AGR-05	Sanghee Lee, Jhoon Kim, Hi-Ku Cho: Global and regional radiative forcing	
	distribution of carbon dioxide, methane, and black carbon from satellite	
	measurements: Analysis of the years from 2009 to 2011	. 193
AGR-06	Hyo-Jin Han , B.J. Sohn, Hung-Lung Huang, Elisabeth Weisz, Roger	
	Saunders : Improved radiative transfer modeling for the simulation of airs	
	brightness temperatures under Asian dust conditions	. 194
AGR-07	Woo-Seop Lee, Maeng-Ki Kim, Kyu-Myong Kim, William K. M. Lau :	
	Case study of observational evidence of EHP effects over the Tibetan Plateau ·······	195
AGR-08	Sung-hwa Park, Dong-in Lee, A.S Panicker, Woon-seon Jung,Sang-min Jang	
	Jong-hoon Jeong : The fluctuation of aerosol size distribution	
	at the Chujado in Korea ······	. 196
AGR-09	Woogyung Kim, Hanlim Lee, Jhoon Kim: Diurnal and seasonal variation of	
	estimated primary and secondary organic carbon based on highly time	
	resolved PM2.5 measurements ······	· 197
AGR-10	Ukkyo Joeng, Jhoon Kim, Hanlim Lee, Young J. Kim: Relationships bewteen	
	extinction coefficients measured from ground-based and satellite instruments	198
AGR-11	Hyo-Jung Lee, Cheol-Hee Kim: Characteristic of aerosols during the co-occurrence)
	day of Asian dust and haze days using the aerosol dynamic model simulations	· 199
AGR-12	Sin-Young Park, Hyun-Young Jo, Cheol-Hee Kim: Analysis of characteristics of air	
	pollutants identified from various long range	
	transport patterns over Northeast Asia ······	200
AGR-13	Yasuhito Igarashi, Yuji Zaizen, Hiroaki Naoe, Mizuo Kajino and Kouji Adachi:	
	Aerosol research using electron microscope and mountain platform	201
AGR-14	Xi Liu, Xiu-qing Hu: Ground-based measurements of the Aerosol Optical	
	Thickness at Xiamen Sea and Satellite remote sensingtest ······	· 202
AGR-15	Xiaole Pan, Yugo.Kanaya, ZifaWang: Correlation of black carbon aerosol and	
	carbon monoxide at mountain sites in eastern China ·····	· 203
AGR-16	LI Shanlan, Kim Jooil, KimKyung-Ryul, Mühle Jens, Kim Seung-Kyu, Park	
	Mi-Kyung, Park Sunyoung : Emission of halogenated compounds in East Asia	
	determined from measurements at Jeju Island, Korea ······	204

Session: Climate Change (CLC)

Session Conveners: Won-Tae Kwon, Akio Kitoh, and Yong Luo

CLC-01 CLC-02	J.S. Kim, K.Y. Kim, S.W. Yeh: Two types of El Nino statistics in recent decades ······ 207 JooWan Cha, JaeGyu Ryu, Young-Jean Choi, MyeongShin Lee, SungGu Kang, ByungHwa Lee: Characteristices of the number concentrations and new particle formation events observed at Anmyeon Korea Global Atmosphere Watch Center
01 0 00	during 2005 ~ 2010
CLC-03	Marumoto Miki, Hasegawa Naoko, Fukuoka Yoshitaka:
	Drought climate in western Japan (1st report) on the relation with
01.0.04	water-balance climate of Ancient Capital Nara
CLC-04	Seong-Joon Kim, Baek-Min Kim, Hyun-Ha Lee, Yoojin Kim, Sung-Ho Woo:
	Arctic Oscillation And Cold Surge Characteristics in the northern hemisphere At
	2009/2010 Winter
CLC-05	Xiaole Pan, Yugo.Kanaya, ZifaWang: Correlation of black carbon aerosol and
	carbon monoxide in the high-altitude environment of
	Mt.Huang in eastern China
CLC-06	Yuanhai Fu,Dabang Jiang : Climate change over China with a
	2°c global warming ······ 212
CLC-07	Jaehwa Lee, Jhoon Kim: Shortwave direct radiative effect of aerosol over
	the cloud-free global ocean derived from MODIS spectral reflectance data 213
CLC-08	Yasushi Suzuki, Yoshinobu Sato and Yuri Michihiro : Providing a quick way
	to get Climate Change Information at a Japanese regional level ······ 214
CLC-09	Young-Soon Jo, Pil-Hun Chang, Ki-Ryong Kang, Sang-Boom Ryoo:
	Analysis on the characteristics of ocean initial fields based on the GLOSEA4 215
CLC-10	Eun-Soon Im, So-Ra In, Sun-Hee Jung, and Sang-Ok Han:
	Higher hydroclimatic intensity over Korea due to global warming 216
CLC-11	Sang-Min Lee, Hi-Ryong Byun, Ki-Hoon Kim, Su-Bin Oh, Jin-Ah Kim,
	Ji-Sun Lee, Bo-Ra Lee, So-Ra Park and Su-Jung Kim: Quantitative
	diagnosis of water resources climate by precipitation

CLC-12	Yukimasa Adachi, Tamaki Yasuda, Hiroyuki Murakami, Ryo Mizuta, Hiromasa Yoshimura, Eiki Shindo, Seiji Yukimoto, Tomoaki Ose, Akio Kitoh:	
	Influence of air-sea interaction on tropical cyclone in a	
	super-high-resolution atmospheric model coupled with ocean model	218
CLC-13	Toshinori Aoyagi, Sachiho A. Adachi, Hiroyuki Kusaka, Kenji Tanaka	
	Naoko Seino: Near-term prediction of urban climate based on urban growth	
	scenarios in the Tokyo metropolitan area ·····	219
CLC-14	Suryun Ham, Suhee Park, Song-You Hong: Effects of the air-sea interaction on the	
	seasonal climate simulation in a general circulation model ·····	220
CLC-15	Sun-Yeong Gan, Hyo-Shin Lee, Johan Lee, Chunho Cho, Minji Kim, Kyoung-On	
	Boo and Hyun-Suk Kang: Evaluation of a present-day climate simulation with the	
	HadGEM2-AO climate model ·····	221
CLC-16	Sung-Bin Park, Kyung-On Boo, Kyung-Hee Seol, Johan Lee, ChunHo Cho, and	
	Young-Hwa Byun: Effects on land-cover change over Southeast China on the	
	East Asian climate simulation with the HadGEM2A ······	222
CLC-17	Ja-Young Hong, Joong-Bae Ahn: An Analysis on sea surface temperature	
	changes over the coastal waters of the Korean Peninsula based on	
	AR4 scenarios using statistical downscaling methods	223
CLC-18	Young-Kun Jeong: Cluster analysis of the 1000-hPa height field around the	
	Korean Peninsula ·····	224
CLC-19	H. Yang, Jie Song, Hong-Ming Yan, Chong-Yin Li: Cause of the severe drought	
	in Yunnan province during winter of 2009 to 2010 ·····	225
CLC-20	Ji-Won Kim: Changes in East Asian winter monsoon due to the effect of the	
	ENSO-PDO Interaction ·····	226
CLC-21	Min-Ji Kim, Da-hee Choi, Sun-Yeong Gan, Hyo-Shin Lee, Johan Lee, Hee-Jeong	
	Baek,Chunho Cho, Kyung-on Boo, Hyun-Suk Kang : Projections of climate	
	change in East Asian monsoon region with the HadGEM2-AO climate model ···········	227
CLC-22	Myong-In Lee, Dongmin Kim, Siegfried D. Schubert : Validation of climate	
	variability represented by the NASA MERRA reanalysis	228
CLC-23	Jong-Kil Park, Riyu Lu, Chafan Li, Eun Byul Kim : Interannual variation and	
020 20	synopticcharacteristics of tropical night occurrence in Beijing, China	229
CLC-24	In-Gyum Kim, Jeong-Yoon Kim, Se-Won Kim: Optimal probability threshold of	
020 27	rainfall forecasts and possibility of cost reducing	230
CLC-25	Yun-Hui Park, Myeong-Soo Han, Maeng-Ki Kim, Woo-Seop Lee, Yeon-Hee Kim,	230
GLG-25	Sung Kim: PRISM based estimation of high resolution climate data in Korea	221
	Sung Kim . FKISIVI Dased estimation of high resolution climate data in Korea	∠3 I

October **24-26**, 2011 Busan, Korea

E-Hyung Park, Hee-Jeong Baek, Chun-Ho Cho, Hyo-Shin Lee, Sun-Yeong Gan, Min-
Ji Kim, Young-Hwa Byun, Hyun-Suk Kang, Kyung-On Boo, Jo-Han Lee, Su-Hee Park,
Yu-Kyung Hyun: Climate change projections over East Asian water cycle using
HadGEM2-AO climate model ····································
Yoo Rim Jung, Jai Ho OH, R.H. Kripalani, Mo Rang HER: Climatological changes
in precipitation and runoff over the river basins of Korea during recent decades 233
Bo-Ra Lee, Hi-Ryong Byun: Definition and long-term variation of seasonal
peaks over South Koera using air temperature

Session: Typhoon (TYP)

Session Conveners: H. Joe Kwon, Kazuo Saito, and Xiaotu Lei

TYP-01	Hyun-Min Eom, KiRyong Kang, Sang Boom Ryoo, Yong Hee Lee : A numerical	
111-01		227
	simulation of coastal inundation under the future climate condition	231
TYP-02	Won-Su Kim, Tae-Young Lee : Structure and evolution of convection band	
	occurred over the Korean Peninsula ·····	238
TYP-03	Woo Jeong Lee, Hyun Min Eom, KiRyong Kang, Sang Boom Ryoo:	
	Development of Coastal Tide/Surge Model based on Roms ······	239
TYP-04	Do-Woo Kim, Yeon-Hee Kim, Ki-Hoon Kim, Seung-Sook Shin, Dong-Kyun Kim,	
	Yoon-Jeong Hwang, Jong-Im Park, Da-Young Choi, Yong-Hee Lee: Analysis of	
	heavy rainfall events during the intensive observation period	
	(14 Aug-3 Sep 2010) over Seoul metropolitan area ······	240
TYP-05	Kazutaka Takeda, Hiroshi Niino, Wataru Yanase : Numerical study on	
	factors that affect the horizontal scale of tropical cyclones ······	241
TYP-06	Dong-Kyun Kim, Yeon-Hee Kim, and Yong-Hee Lee : Characteristics of	
	thickness and temperature from microwave radiometer and radiosonde	
	observations during snowfall events in 2011 ·····	242
TYP-07	S.E. Lee, H.G. Ha, J.M. Sim, J.S. Bak: Analysis and comparison with	
	COMS and MTSAT : Typhoon NO.6 MA-ON ······	243
TYP-08	Sung-Hwa Jung, GyuWon Lee : Identification of convective cells in three	
	dimensional reflectivity fields and their objective tracking using fuzzy logic	244

TYP-09	Rochelle Coronel, Masahiro Sawada, and Toshiki Iwasaki : A study on the	
	sensitivity of the simulated intensification of Typhoon Megi (2010) to planetary	
	boundary layer schemes: An Energy Budget Analysis ······	245
TYP-10	Kwang Suk Kim, Il-Ju Moon, Seok Jae Kwon: Seasonal prediction of	
	tropical cyclone frequency during summer in the	
	typhoon emergency area of Korea ······	246
TYP-11	Min Yeong Kim, II-Ju Moon, Seok Jae Kwon: Enhancement of	
	air-sea interactions during tropical cyclone recurvacure ·····	247
TYP-12	Sung-Hun Kim, II-Ju Moon, Seok Jae Kwon: Interactions of typhoons with the	
	Changjiang diluted water ·····	248
TYP-13	Sang Myeong Oh, II-Ju Moon, Kwang Suk Kim, Seok Jae Kwon: Intensity	
	changes of typhoon and storm surge under the futuree	
	global warming environments ·····	249
TYP-14	Jong Suk Park, KiRyong Kang, Sang-Boom Ryoo : A Study of the water depth	
	change effect on the wave propagation in the Coastal Area	250

Session: Satellite (SAT)

Session Conveners: Myoung-Seok Suh, Riko Oki, and Jun Yang

SAT-01	Ara Cho , Ju hee Park and Myoung-Seok Suh: Temporal variations and trends of vegetation over East Asia using long term GIMMS NDVI Data	253
SAT-02	QI Dan, TIAN Fuyou, Zhao Xiaolin : Analyses of Quantitative Precipitation	
	Estimation (QPE) based on merging satellite and rain gauge	254
SAT-03	Eun-Han Kwon, Jun LI, Jinlong LI, B. J. Sohn, Elisabeth Weisz: Use of TPW	
	classification of a priori error and quality control in atmospheric temperature and	
	water vapor sounding retrieval ·····	259
SAT-04	Nishi Noriyuki, Hamada Atsushi, Ohigawa Masanori, Shige Shoichi:	
	Cloud-top height dataset by geostationary satellite split window	
	measurements trained with cloudsat data ······	260
SAT-05	Sang Seo Park, Jhoon Kim, Hanlim Lee : Simulation of aerosol height	
	retrieval using hyperspectral data in UV and Visible	261

October **24-26**, 2011 Busan, Korea

SAT-06	Mijin Kim, Jhoon Kim and Jaehwa Lee : Sensitivity of retrieved AOD to spatial
	resolution of satellite measurement: Preparatory study for aerosol retrieval from
	Geostationary Environmental Monitoring Spectrometer (GEMS)
SAT-07	Daeyun Shin, Aesook Suh, Jeongdeok Lee: Constructions of
	GNSS application system for meteorology and space weather

Session: Boundary Layer (BOL)

Session Conveners: Jae-Jin Kim, Hiroaki Kondo, and Chunsheng Zhao

BOL-01	Shohei Konno, Hideo Takahashi : Characteristics of wintertime nocturnal
	temperature inversion over Hilly Regions of the Western Kanto Plain, Japan 267
BOL-02	Shogo Shimizu, Hideo Takahashi: Seasonal variation in cool island effect of
	two urban green spaces
BOL-03	Jun Li, Fei Hu, Xueling Cheng, Rong Zhu: Application of CFD on the
	Simulation of the wind energy over complex terrain
BOL-04	Hyeyum Hailey Shin, Song-You Hong, and Jimy Dudhia: Turbulent Kinetic
	Energy analysis in a non-local K-Profile planetary
	boundary-layer parameterization
BOL-05	Yoshihito Seto, Hideo Takahashi: Analysis of the local wind circulation and
	divergence field in summer over the Kanto plain based on observed wind 271
BOL-06	Liu Yujue, Hu Fei, Zhu Rong: Comparison of five MCP algorithms in
	long-term wind speed prediction of wind power assessment in
	grassland of Inner Mongolia
BOL-07	Liu Xiaoman: Numerical simulation of H ₂ O/CO ₂ 's RESIDTRIBUTIOM and
	exchange between PBL and free atmosphere with thermals
BOL-08	Lei Liu, Fei Hu, Xue-ling Cheng: The most energetic modes of
	thermal structure in the convective boundary layer

Session: Others (OTH)

Jungsoo Yoon, Chulsang Yoo, Jungho Kim, Cheolsoon Park, Changyeol Park,	
Changhyun Jun : Use of the Kalman Filter for the correction of mean-field bias of	
radar rainfall ······	·· 277
Da-Young Choi, Yeon-Hee Kim, Dong-Kyun Kim, Do-Woo Kim:	
Comparisons of precipitable water using special observation data in	
winter at Incheon In Korea ·····	. 278
Dong-Kyun Kim, Yeon-Hee Kim, Yong-Hee Lee: Characteristics of thickness and	
temperature from microwave radiometer and radiosonde observations during	
snowfall events in 2011 ·····	. 279
Ji-Sun Lee, Ki-Hoon Kim, Hi-Ryong Byun : Climatological characteristics of local	
hot days in the South Korea ·····	. 280
Byunghwan Lim, Sang Boom Ryoo : Global visualization system at NIMR/KMA ·····	281
Jung-Yoon Kang, Masao Mikami, Yumi Kim, Soon-Chang Yoon,	
Taichu Y. Tanaka, Tsuyoshi T. Sekiyama: Model simulation of Asian Dust events	
with new dust emission scheme in WRF/CHEM ·····	. 282
Young-Ah Kim: The study on the characteristics of summer	
coastal fog occurrence near Yellow Sea ·····	. 283
Yeon-Hee Kim, Maeng-Ki Kim: Examination of the global Lorenz	
energy cycle using MERRA ·····	·· 284
last frost day in Korea ······	. 285
	Changhyun Jun : Use of the Kalman Filter for the correction of mean-field bias of radar rainfall Da-Young Choi, Yeon-Hee Kim, Dong-Kyun Kim, Do-Woo Kim : Comparisons of precipitable water using special observation data in winter at Incheon In Korea Dong-Kyun Kim, Yeon-Hee Kim, Yong-Hee Lee : Characteristics of thickness and temperature from microwave radiometer and radiosonde observations during snowfall events in 2011 Ji-Sun Lee, Ki-Hoon Kim, Hi-Ryong Byun : Climatological characteristics of local hot days in the South Korea Byunghwan Lim, Sang Boom Ryoo : Global visualization system at NIMR/KMA Jung-Yoon Kang, Masao Mikami, Yumi Kim, Soon-Chang Yoon, Taichu Y. Tanaka, Tsuyoshi T. Sekiyama : Model simulation of Asian Dust events with new dust emission scheme in WRF/CHEM Young-Ah Kim : The study on the characteristics of summer coastal fog occurrence near Yellow Sea Yeon-Hee Kim, Maeng-Ki Kim : Examination of the global Lorenz energy cycle using MERRA Jin-Ah Kim, Hi-Ryong Byun : The spatiotemporal variations of the