## Date : September 25 - 27, 2017

Venue : Grand Ballroom A, Seoul Garden Hotel, Seoul, Korea

			GEMS Meeting Room	
Se	p. 25-27		Grand Ballroom A, Seoul Garden Hotel	
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	25 <sup>th</sup> (Mon.)		Provistration	Grand Pallroom A
8:00	9:00		Registration	Grand Ballroom A
0	pening	0.05	Opening Remark	Jin-won Park (NIER President
	9:00	9.05	Opening Remark	•
	9:05	9:10	Congratulatory Remark	Barry Lefer (NASA Headquarters)
51	tatus of GE		SAT-2 mission	neauqual ters)
5				Chu-Yong Chung (National
	9:10	9:25	AMI Mission Status	Meteorological Satellite Cent NMSC)
				Myung-Sook Park (Korea
	9:25	9:40	GOCI-2 Mission Status	Institute of Ocean Science &
				Technology, KIOST)
	9:40	9:55	GEMS Mission Status	Jhoon Kim (Yonsei University
	9:55	10:10	GEMS ground system and application	Jongmin Yoon (NIER)
	10:10	10:20	Group Photo	
10:20	10:40		Coffee Break	
St	tatus of Int	ernatio	nal mission	
				Jay Al-Saadi
	10:40	10:55	TEMPO Mission Status and CEOS Update	(NASA Langley Research Cen CEOS AC-VC Co-Chair)
	10:55	11:10	KORUS AQ results	Barry Lefer
	10.55	11.10		(NASA Headquarters)
	11:10	11:25	Imaging Fourier Transform Spectrometer; Development Update	Tom McElroy (York Universit
11:25	12:40		Lunch	
Pi	reflight Tes			
	12:40	13:00	GEMS pre-flight test and characterization	Dai Ho Ko (KARI)
	13:00	13:15	Status of GEMS - Calibration	Myoung-Hwan Ahn
				(Ewha Womans Univ.)
				David Flittner
	13:15	13:35	Straylight Correction	(NASA Langley Research
				Center)
	13:35	13:50	Polarization characteristics of the atmosphere : Sensitivity study and	Kwang-Mog Lee
			variable information	(Kyungpook National Univ.)
	40.50			Ukkyo Jeong
	13:50	14:10	Polarization Correction (via Webex)	(University of Maryland, NAS
6		dation D	New	GSFC)
G	round Vali		1d11	Alovandor Codo Dahart Cur
	14:10	14:30	Pandonia network update	Alexander Cede, Robert Swa (LuftBlick & NASA/GSFC)
	14:30	14:50	The observation of Pandora spectrometer in the Korean peninsula	Ja-Ho Koo and Heesung Chor (Yonsei Univ.)
14:50	15:10		Coffee Break	
				Maniah N-'-
	15.40	15-20	Natural of Observations to to the Casheline State	Manish Naja
	15:10	15:30	Network of Observations in India (via Webex)	(Aryabhatta Research Institu
				of Observational Sciences)
	45.00	45 50	A de la constal Martine d	Sang-Woo Kim
	15:30	15:50	Asia Aerosol Network	(Seoul National Univ.)

	15:50	16:10	A decade of MAX-DOAS observations in Asia & Russia: Progress in OMI Tropospheric NO2 validation and synthetic analysis	Yugo Kanaya (JAMSTEC)
	16:10	16:30	Remote sensing of trace gases from Chinses environmental satellite and MAX-DOAS network	Cheng Liu (University of Science and Technology of China)
	16:30	16:50	Intercalibration and harmonization of MAX-DOAS measurements as part of CINDI-2 and FRM4DOAS projects	Michel Van Roozendael (Belgian Institute For Space Aeronomy)
	16:50	17:10	Intercomparison of total column ozone data from the Pandora spectrophotometer with Dobson, Brewer, and OMI measurements over Seoul, Korea	Sangseo Park (Seoul National Univ.)
	17:10	17:25	Status of GEMS - Validation Plan	Myong-In Lee and Chang-Keun Song (UNIST)
	17:25	17:45	NASA Earth Exchange: High-end Capability Computing for Remote Sensing Applications	Ryan Spackman (NASA Ames Research Center)
18:00			Reception	Grand Ballroom C

8:50	9:00		Opening	Grand Ballroom A
Α	erosol, Clo	ud, and	· -	
	9:00	9:15	Status of GEMS Aerosol Algorithm	Mijin Kim, Sujung Go, and Jhoon Kim (Yonsei Univ.)
	9:15	9:30	Status of GEMS Surface Reflectance Algorithm	Kwonho Lee(GWNU) and Jung Moon Yoo (Ewha Womans Univ.)
	9:30	9:50	Aerosol type classification using AERONET sun/sky radiometer derived depolarization ratio	Youngmin Noh (Gwangju Institute of Science and Technology)
9:50	10:10		Coffee Break	
A	tmospheri	c compo	osition (I): NO2, SO2 and HCHO	
	10:10	10:25	Development of NO2 retrieval algorithm for the GEMS	Hanlim Lee (Pukyong Nat'l University)
	10:25	10:40	Development of SO2 retrieval algorithm for the GEMS	Hanlim Lee (Pukyong Nat'l University)
	10:40	11:00	Explicit and observation-based aerosol treatment in tropospheric retrieval of NO2, HCHO and other species	Mengyao Liu (Peking Universi & KNMI)
	11:00	11:20	NO2 Retrievals from Space: Separating the troposphere from the stratospheric background	Eric Bucsela (SRI International
	11:20	11:35	Status of GEMS Formaldehyde Algorithm	Rokjin Park (Seoul National Univ.)
	11:35	11:55	Impact of high-resolution a priori model information on satellite formaldehyde retrievals	Si-Wan Kim (NOAA/ESRL, CIRI Yonsei Univ.)
	11:55	12:10	Status of GEMS Cloud Algorithm	Yong-Sang Choi (Ewha Woma Univ.)
12:10	13:30		Lunch	
A	tmospheri	c compo	osition (II): Ozone	
	13:30	13:45	Status of GEMS Ozone Algorithm	Jae Hwan Kim (Busan National Univ.)
	13:45	14:05	Characterization and Correction of OMPS Nadir Mapper Measurements for Ozone Profile Retrievals	Juseon Bak (Harvard- Smithsonian Astrophysical Observatory)
	14:05	14:25	Seasonal clustering of lower tropospheric ozone over central China observed using an Ozone Monitoring Instrument (OMI)	Sachiko Hayashida (Nara Women's University)
C	hemistry, I	Modelin	g, Data Assimilation and Application	
	14:25	14:40	Monthly trends of tropospheric NO2 columns over remote region, Mongolia	Kyung Man Han and Chul Han Song (GIST)
	14:40	15:00	Modeling Analysis Using GOCI Data	Greg Carmichael (University c Iowa)
	15:00	15:20	Studies in joint assimilation of carbon monoxide and aerosol	David Edwards (NCAR)

15:20	15:40	Coffee Break	
	15:40	15:55 Status of GEMS Synthetic Data generation	Yebon Lee and Seon-Ki Park (Ewha Womans Univ.)
	15:55	16:15 Synthetic data generation for TEMPO and GEMS	Chrisopher Chan Miller (Harvard-Smithsonian Astrophysical Observatory)
	16:15	16:35 Estimation of ground PM concentrations using multi-sensor satellite data and machine learning	Jungho Im (UNIST)
	16:35	16:40 Introduction of GEMS UV Index	Hana Lee (Yonsei University)
16:40	18:00	Discussion	

September 27th (Wed.		
Tutorial		Grand Ballroom A
9:30	10:10 Improving Air Quality (and Weather) Predictions Through Close Integration of Observations and Models	Greg Carmichael (University of Iowa)
10:20	11:00 Introduction to Global Climate Change and Air Quality	Barry Lefer (NASA Headquarters)
11:10	Differential Absorption Spectroscopy MAESTRO* in its 15th year on 11:50 orbit (* Measurement of Aerosol Extinction in the Stratosphere and Troposphere Retrieved by Occultation)	Tom McElroy (York University)
12:00 13:30	Lunch	



- The closest exit of Gongdeok Station to the hotel is Exit 8.
- The closest exit of Gongdeok Station to the Jokbal zone is Exit 5.