International SKYNET Workshop 2013
(and the 19th CEReS International Symposium on Remote Sensing)

July 04 - 05, 2013

Multi-media Conference Room
Graduate School of Humanities and Social Sciences
Chiba University, 1-33 Yayoicho, Inage-ku, Chiba 263-8522, Japan

Day 1, July 04, 2013 (Thu)

09:00-09:30 Arrival, Registration

09:30 Opening/Welcome, H. Kuze (Chiba Univ.)
09:40 Logi, etc., H. Irie (Chiba Univ.)

(Group photo)

Administration Session 1 [Chair: K. Aoki (Univ. Toyama)]

10:00 Thoughts for Skynet system development – toward future- & Proposal on administration and strategy of the SKYNET as a GAW contributing network, T. Nakajima (Univ. of Tokyo)
10:20 About WMO/GAW, N. Sugimoto (NIES)
10:30 Status in Japan, Thai, and Mongolia, T. Takamura (Chiba Univ.), T. Boossarasiri (Chulalongkorn Univ.), and N. Tugjsuren (Mongolian Univ. of S&T)
10:50 Status in China, H. Che (CAMS/CMA)
11:00 Status in Korea, S.-W. Kim (SNU) (on behalf of B.-J. Sohn)
11:10 Current status and future of the European Skynet Radiometers network, V. Estellés (Univ. of València) (on behalf of M. Campanelli)
11:20 Skynet-India: Preliminary results from Skyradiometer network of India Meteorological Department, V. K. Soni (IMD)

11:30 Lunch break
(A meeting of country/region representatives)

Administration Session 2

13:00 Discussion about the proposal, led by T. Nakajima (Univ. of Tokyo)

14:45 Coffee break

15:15 Concluding remarks, T. Nakajima (Univ. of Tokyo)

Science Session – Algorithm 1 [Chair: T. Nishizawa (NIES)]

15:30 Aerosol optical properties retrieved by SKYRAD.pack Version5 based on skyradiometer measurements of Beijing, China, H. Che (CAMS/CMA)
15:45 An estimation of single scattering albedo retrieved from SKYNET sky radiometer data and development of a quality control algorithm for the SKYNET data analysis, M. Hashimoto (Univ. of Tokyo)
16:00 Use of 315nm channel of sky radiometer to retrieve columnar ozone amount, P. Khatri (Chiba Univ.)
16:15 Column water vapor retrievals from skyradiometer (POM-02) 940nm channel data, A. Uchiyama (MRI)

16:30 Retrieval of calibration parameters for ground based Sun-Sky radiometric measurements of columnar water vapor using operational surface meteorological measurements, V. Estellés (Univ. of València) (on behalf of M. Campanelli)

16:45 An improved cloud screening algorithm for skyradiometer measurement analysis and application to Asian dust detection, H.-J. Song (SNU) (on behalf of B.-J. Sohn)

17:00 Combined use of SKYNET observations for retrieving microphysical properties, S. Katagiri (Tohoku Univ.)

17:15 Development of a SKYNET based methodology for the CIMEL CE318 radiometer in the frame of the ESR network, V. Estellés (Univ. of València)

18:00 Party at Restaurant CORZA

Day 2, July 05, 2013 (Fri)

Science Session – Algorithm 2 [Chair: K. Aoki (Univ. Toyama)]
08:30 Ground-based lidar network observation of aerosols and clouds in AD-Net, T. Nishizawa (NIES)
08:45 Development of an algorithm to estimate the aerosol vertical profile from Sky radiometer and Lidar measurements, R. Kudo (MRI)

Science Session – Cal/Val/Comparison [Chair: K. Aoki (Univ. Toyama)]
09:00 Calibration and performance of Prede Skyradiometer, S. S. Ningombam (Indian Institute of Astrophysics)
09:15 Comparison of aerosol optical properties between CE 318-1 of AERONET and POM-02 of SKYNET, Y. Choi (Hankuk Univ. of Foreign Studies)
09:30 The validation and comparison of aerosol properties retrieved by CARSNET algorithm with the AERONET, H. Che (Institute of Atmospheric Composition, CAMS/CMA)
09:45 Comparison of CALIPSO aerosol optical depth retrievals to sky radiometer and space-based passive measurements, and characteristics of the lidar ratio, S.-W. Kim (SNU)

10:00 Coffee break

Science Session – General 1 [Chair: R. Kudo (MRI)]
10:15 Aerosol variations in urban atmosphere: case studies in Beijing and Dunhuang, B. Chen (IAP/CAS)
10:30 Ground-based remote sensing of aerosol seasonal character over Hefei in East China, Z. Wang (AIOFM/CAS)
10:45 Sun-sky radiometer study of monsoon activity over Pune, India, P.C.S. Devara (Indian Institute of Tropical Meteorology)
11:00 Identification of aerosol types over the Indo-Gangetic Basin using ground-based sunphotometer measurements, A. K. Srivastava (Indian Institute of Tropical Meteorology)
11:15 Optical and chemical properties of atmospheric aerosols at Phimai in Thailand by surface measurements, CALIOP data, and the SPRINTARS model, H. Tsuruta (Univ. of Tokyo)

11:30 Lunch break

Science Session – General 2 [Chair: M. Kuji (Nara Women's Univ.)]
13:00 Sky-radiometer measurements for monitoring the aerosol optical properties in the Arctic and Antarctica, M. Shiobara (NIPR)
13:15 One year of measurements with a POM02 sun-sky radiometer at an Alpine Euroskyrad station, H. Diémoz (ARPA Valle d’Aosta)
13:30 Continuous ground-based observation of aerosol optical properties in Tsukuba, Japan, A. Uchiyama (MRI)
13:45 Characterization of atmospheric phenomena with SKYNET aerosol properties at Fukue-jima and Amami-Oshima islands, S. Kitakoga (Nara Women's Univ.)
14:00 Optical and in-situ measurements of aerosol, nitrogen dioxide, and water vapor in relation to weather and sky radiation conditions in Chiba, H. Saito (Chiba Univ.)

14:15 Coffee break

Science Session – Climate 1 [Chair: P. Khatri (Chiba Univ.)]
14:45 A study of vertical profiles of aerosol radiative parameters and aerosol direct effects over the East China Sea region using a combination of aircraft and ground based observation data, P. Khatri (Chiba Univ.)
15:00 Investigate the single scattering albedo of dust aerosols and their impact on climate in Northwest China, J. Bi (Lanzhou Univ.)
15:15 Cirrus clouds measurement by a three-wavelength lidar over Hefei in China, D. Liu (AIOFM/CAS)

15:30 Coffee break

Science Session – Climate 2 [Chair: P. Khatri (Chiba Univ.)]
16:00 Surface aerosol radiative forcing at the Observatory for Atmospheric Research, Thailand during 2009-2011, T. Boossarasir (Chulalongkorn Univ.)
16:15 Climate change trends and desertification in Mongolia, N. Tugisuren (Mongolian Univ. of Science and Technology)
16:30 Cloud Radiative Effect on the Earth’s Surface, K. Yamada (Tohoku Univ.)
16:45 The research on global anthropogenic heat release, B. Chen (Institute of Remote Sensing and Digital Earth, CAS)

17:00 Closing remarks, T. Takamura (Chiba Univ.)