Tuesday, December 1

9:45-10:00  Welcome Address (Ryutaro Tateishi)
Large hall (1st floor)

10:00-10:15  Group photo
Large hall (1st floor)

10:30-12:15  Poster Session
Reception hall (3rd floor)

P1: Haireti Alifu and Ryutaro Tateishi, Estimation of glaciers change in the National Park and Preserve
P2: Hirokazu Ohmae, Toshiko Miyake and Josaphat Tetuko Sri Sumantyo, Development of volcanic gas sensing system mounted on the UAV
P3: Bai Xiulian, Ryutaro Tateishi, Assessment of the soil characteristics using Landsat 8 data in Horqin sandy land
P4: Takahiro Miyazaki, Josaphat Tetuko Sri Sumantyo, Takumi Abe, Tomoyuki Nakazono, Koh-Ichiro Oyama and Tetsuya Kodama, A potential control of microsatellite using an electron gun
P5: Ayisulitan Maimaitiai and Akihiko Kondoh, Monitoring and analysis of land use/cover change in Kashgar region based on Landsat and Spot Vegetation Data
P6: Nawo Eguchi and Naoko Saitoh, Study for dynamical process of atmospheric compositions in troposphere and stratosphere using satellite data- Part I: Seasonal and year-to-year variations of CO2 and CH4 from GOSAT FTS TIR -"
P7: K. Nakamura, J. T. Sri Sumantyo, Y. Osanai, H. Yang, and E. Santosa Cahya, Design and fabrication of X-band antenna for wideband synthetic aperture radar
P8: Chikako Ogasawara, Chiharu Hongo, Eisaku Tamura, Gunardi Sigit, A. A. Ayu Mirah Adi and I Gusti Agung Ayu Ambarawati, Relationship between regional characteristics of rice yield and water management in Indonesia
P9: Aminuddin Jamrud, Tomoaki Tsuneyoshi, Lagrosas Nofel, Naohiro Manago, Hiroaki Kuze, Derivation of aerosol distribution over Chiba area by combined analysis of satellite and PPI
lidar data

P10: Kazuhiro Aruga, Chunhui Liu, Ryo Uemura, Akira Kato, Analysis on economic balance of a clear cutting operation with terrestrial LiDAR at Funyu experiment forest of Utsunomiya University, Japan

P11: Risa Nozawa, Risa Fujimoto, Ryoko Funada, Makoto Kuji, Characteristics of aerosols with ground-based optical observation at Nara, Japan


P13: Ryoko Funada, Maya Nakamura, Makoto Kuji, Masataka Shiobara, Optical properties of marine aerosols from shipboard skyradiometer observation between Japan and Australia

P14: Kohtaro Iseki, Ryutaro Tateishi, A systematic classification of the patterns of drought stress occurred in agricultural lands

P15: Koji Asakuma, Yu SAWAFUJ, Akira HAMASAKI, Development of remote sensing method for ice algae in ice covered Lagoon Saroma-ko, Hokkaido

P16: Katsutoshi Kozai, Ryoutaro Abo, Teruo Ohsawa, Validation of wind speed profile models by using ASCAT and mesoscale model WRF in the North Sea

P17: I. Harada, Y. Horiuchi, Y. Miyabara, T. Idogawa, E. Jung, W. Nirei, K. Hara, A. Kondoh, Changes in levels of radioactive contamination in abandoned paddy soil, Minamisoma City

P18: Toru Terao, Taichi Hayashi, Fumie Murata, Masashi Kiguchi, Yusuke Yamane, Azusa Fukushima, Direct evaluation of the TRMM 2A25 surface rain using raingauge network in the northeastern Indian subcontinent

P19: Hiroyuki Wakabayashi, Microwave characteristics of ice on Lake Saroma observed by PALSAR-2 and PiSAR-2L (A study on microwave measurement of sea ice physical parameters)

P20: Nobuyuki Okada, Ippei Harada, Analysis of honeybee’s habitat using remote sensing data

P21: Munehisa K., Yamamoto, Shoichi Shige, Atsushi Higuchi, Development of GSMaP prototype in pre-TRMM era and satellite rainfall climate study

P22: Masaru Bunya, Kazuteru Namba, Josaphat Tetuko Sri Sumantyo, CP-SAR processing system on FPGA for multiple image size

P23: Hitoshi Saito, Hiroyuki Obanawa, Josaphat Tetuko Sri Sumantyo, Shoichiro Uchiyama, Yuichi S. Hayakawa, Application of high definition data for analysis of topographic and vegetation changes using UAVs and SfM photogrammetry -A case study of shallow landslides around Mt. Aso.-

P24: Kenji Masuda, Naohiro Manago, Hayato Saito, Koki Homma, Kanako Muramatsu, Kenichi Yoshimura, Yuji Kominami, Hiroaki Kuze, Spectral image measurement of chlorophyll fluorescence using the oxygen A band: application to rice field and forest
P25: Katsuyuki Noguchi, Hitoshi Irie, Hiroo Hayashi, A study on the Martian atmospheric environment using remote sensing data obtained by Mars orbiter missions
P26: Yosuke Niwa, Ryoichi Imasu, Naoko Saitoh, Yousuke Sawa, Kazuhiro Tsuboi, Hidekazu Matsueda, Masaki Satoh, Transport simulation of atmospheric CH4 for surface flux estimation
P27: Sonoko Yamada, Tatsuo Shiina, LED mini-lidar for UAV mount
P28: Sanekazu Igari, Junichi Kokubo, Hong Zhou, Yanqun Xue, A preliminary study of the indoor calibration for the sky radiometer
P29: Yura Kim, Masayuki Maki, Masato Iguchi, Dong-In Lee, Volcanic eruption detected by weather radar under rainfall conditions.
P30: Sung-Ho Suh, Masayuki Maki, Masato Iguchi, Dong-In Lee, Tatsuya Momotani, Akihiko Yamaji, Volcanic ash parameters required for quantitative ashfall estimation
P31: Yousuke Sato, Atsushi Higuchi, Akinobu Murakami, Yuji Masutomi, Kazuki Tsuchiya, Daisuke Goto, Akinori Takami, Teruyuki Nakajima, Regional variability of vegetation impact on maximum temperature in Kanto Area on summer
P32: Jonggeol Park, Younghyun Kim, Object-based analysis and change detection of paddy field at Hokkaido, Japan
P33: Tatsuaki Kobayashi, Terumasa Takahashi, Hiroyuki Suzuki, Akihiko Kondoh, Production of radioactive risk map for wild vegetable and mushroom in Yamakiya District, Kawamata-machi, Fukushima Prefecture
P34: S. Katagiri, T. Hayasaka, K. Yamada, Cloud optical thickness derived from the ground observations
P35: Kanako Muramatsu, Noriko Soyama, Motomasa Daigo, Fumio Ochiai, Koji Kajiwara, Yoshiaki Honda, Development of gross primary production algorithm based on plant's photosynthesis capacity and a canopy conductance index using flux and global observing satellite data
P36: Hiroyuki Nakata, Kazuto Takaboshi, Kouhei Yoshikawa, Jun-ichiro Hirabayashi, Aritsugu Chonan, Toshiaki Takano, Mitsuji Matsumura, Hiroyuki Shinagawa, Ionospheric disturbances associated with natural hazards
P37: Peng Han, Katsumi Hattori, On the preparation process of the 2011 off the Pacific Coast of Tohoku Earthquake (Mw 9.0): a perspective from GPS data
P38: Naohiro Manago, Katsuyuki Noguchi, Makoto Suzuki, George Hashimoto, Hiroaki Kuze, Masanori Kobayashi, Tatsuo Shiina, and Hiroki Senshu: New numerical model on the radiative field of Martian atmosphere and strategy of radiative field observation in Mars landing mission in the future
13:30-15:00  **Keynote speech** (Chair : Ryutaro Tateishi)

*Large hall (1st floor)*

Each oral presentation (15 minutes presentation and 5 minutes discussion).

**K-1**: Dimitar Ouzounov, Katsumi Hattori, Sergey Pulinets, Tiger Liu: Geospace Integration of Satellite and Ground Observations for Alerting of Large Earthquakes

**K-2**: Josaphat Tetuko Sri Sumantyo: Development of synthetic aperture radar onboard UAV, aircraft and microsatellite

**K-3**: Atsushi Higuchi: The third generation geostationary meteorological satellite—Himawari -8 and its application to environmental remote sensing

15:20-17:00  **General session** (Chair : Koji Kajiwara)

*Large hall (1st floor)*

Each oral presentation (15 minutes presentation and 5 minutes discussion).

**G-1**: Tiger J.Y. Liu: Atmospheric and ionospheric remote sensing by radio occultation of FORMOSAT-3 /COSMIC

**G-2**: Katsumi Hattori, Peng Han, J.Y. Tiger Liu, Dimitar Ouzounov, Verelio Tramutoli: Sensor WEB approach to understand earthquake preparation process at Kanto, Japan

**G-3**: Kazuma Aoki: Aerosol optical properties measured by sky radiometer network Skynet

**G-4**: Daniele Perissin: Infrastructure monitoring via Multi-Temporal In SAR

**G-5**: Puspita Triana Dewi, Ghozali Suhariyanto Hadi, Muhammad Ramadhan Kusnaedi, Aris Budiyarto, Agus Budiyono: Design and development of vertical takeoff and landing unmanned aerial vehicle for border surveillance

17:20-19:20  **Banquet**

*Restaurant COLZA (1st floor)*
Wednesday, December 2

9:00 – 10:40  **Session 2A : Third SOMIRES** (Chair : Josaphat T.S. Sumantyo)

*Reception hall (3rd floor)*

Each oral presentation (15 minutes presentation and 5 minutes discussion).

**2A-1**: Indra Riyanto, Ardiansyah, Yuniarto, Nazori AZ, Wendi Usino, Suparmoko: Mapping of Sunda Kelapa dredging material dispersion pattern

**2A-2**: Kyeong-Rok Kim, Hae-Won Jung, Tu-Hwan Kim, Heein Yang, and Jae-Hyun Kim: Development and implementation of the system parameter analysis simulator for L-band SAR

**2A-3**: Yuta Izumi, Mohd Zafri Bin Baharuddin, Josaphat Tetuko Sri Smantyo, Ghozali Suhariyanto Hadi, Yudi Isvara, Agus Hendra, Heein Yang: Experiment of L-band synthetic aperture radar system using ISAR method in anechoic chamber

**2A-4**: Mohd Zafri bin Baharuddin, Yuto Osanai, Josaphat Tetuko Sri Sumantyo: Suppressed side-lobe beam steered, C-band circularly polarized array antenna for synthetic aperture radar measurements

**2A-5**: Young-Deuk Kim, Tu-Hwan Kim, Min-Wook Heo Jinhong An and Jae-Hyun Kim: Hardware Implementation and Verification of parallelized direct digital synthesizer (PDDS) using FPGA

9:00 – 10:20  **Session 2B : Atmospheric Remote Sensing** (Chair : Hitoshi Irie)

*Conference room (3rd floor)*

Each oral presentation (15 minutes presentation and 5 minutes discussion)


**2B-2**: Masayuki Maki, Masato Iguchi, Takeshi Maesaka, Toshikazu Tanada, Tomofumi Kozono: Weather Radar Observations of Sakurajima Volcanic Smoke

**2B-3**: Kisei Kinoshita, Masayuki Maki, Satoshi Tsuchida, Naoko Iino, Chikara Kanagaki: Eruption clouds at volcanoes in Kyushu, Japan observed by web-camera, radar and satellite images

**2B-4**: Nofel Lagrosas, Hayato Saito, Naohiro Manago and Hiroaki Kuze: Modeling of scattering enhancement factor from ground-based instruments in Chiba, Japan

10:50-12:30  **Session 3A : Disaster and Anomaly** (Chair : Hiroaki Kuze)

*Reception hall (3rd floor)*

Each oral presentation (15 minutes presentation and 5 minutes discussion)

**3A-1**: Ilham Alimuddin, A.R. Rasyid, Purwanto, N.P. Bhandary, Ryuichi Yatabe, J.T.S. Sumantyo and H. Kuze: Landslide susceptibility mapping using DInSAR and statistic
model in Bawakaraeng mountain, Sulawesi, Indonesia

3A-2: Daijiro Kneko: Global Effects of SST Anomalies on Downwind Continental Crop Yields Using Satellite-Based Photosynthesis Models

3A-3: Hideomi Gokon, Wen Liu, Mariko Naruke, Fumio Yamazaki, Shunichi Koshimura, Kimiro Meguro: Toward an estimation of damage caused by a natural disaster using remote sensing technology

3A-4: Youngjoo Kwak, Yoichi Iwami, Akihiko Kondoh: Verification of Flood Damaged Rice Fields using Small UAV (Unmanned aerial vehicle)

3A-5: Kithsiri Perera, Ryutaro Tateishi, and Srikantha Herath: Assisting Mitigation of Bushfire Threat in Regional Australia through MODIS Imagery Based Media GIS

10:50-12:30 Session 3B: Food security & Agricultural Insurance (Chair: Chiharu Hongo)
Conference room (3rd floor)
Each oral presentation (15 minutes presentation and 5 minutes discussion)

3B-1: Gunardi Sigit: Current situation of agricultural insurance in Indonesia: Issues and future way forward

3B-2: Baba Barus, K Munibah, LS Iman, F Tonny, N Widiana, Setyardy, F: Development of Method for Agricultural Rice Field Protection in Indonesia

3B-3: Kazuhisa Tokui: The outline of Japan’s agricultural insurance scheme

3B-4: Koki Homma: Development of a rice simulation model for remote-sensing (SIMRIW-RS)

3B-5: Chiharu Hongo: Application of satellite data for agricultural insurance as adaptation to climate change to contribute the food stability

13:30-14:50 Session 4A: Atmosphere and SAR (Chair: Atsushi Higuchi)
Reception hall (3rd floor)
Each oral presentation (15 minutes presentation and 5 minutes discussion)

4A-1: Kenji Tanaka (Kyoto University):
TBD


4A-3: Kotaro Iizuka: Usage of SAR techniques for discriminating land cover classes

4A-4: Uyanga Khudulmur: Josaphat Tetuko Sri Sumantyo, Study on land subsidence in Tokyo using PS-InSAR technique

Conference room (3rd floor)
Each oral presentation (15 minutes presentation and 5 minutes discussion)
4B-1: Aikebaier Maitiniyazi, Ryutaro Tateishi, Alimujiang Kasimu: Glacier changes in the source region of Kaidu river and its impacts on Basin Hydrology in Bosten lake area, China


4B-3: Brian A. Johnson, Kotaro Iizuka, Isao Endo, Damasa B. Magcale-Macandog, Milben Bragais: Using Openstreetmap (OSM) crowdsourced data and Landsat imagery for land cover mapping in the Laguna de Bay area of the Philippines

4B-4: Husnul Kausarian, J. T. Sri Sumantyo, Hiroaki Kuze: Silica sand identification using ALOS/Palsar Full Polarimetry at Northern Coastline of Rupat Island, Indonesia

4B-5: Idris Mandang and Muhammad A. Fachrudy: The spatial analysis of water masses movement in the Halmahera and Banda sea using empirical orthogonal function (EOF) methods


4B-7: Heein Yang, Josaphat Tetuko Sri Sumantyo, Good Fried Panggabean, Agus Hendra, Babag Purbantoro, Cahya Edi Santosa, Kaihei Nakamura, and Kyeong-Rok Kim: Conceptual design of unmanned aerial vehicle (UAV) on-board X-band synthetic aperture radar (SAR)

15:10-17:10 Session 5A: Forest and Vegetation (Chair: Yoshiaki Honda, Akira Kato)

Reception hall (3rd floor)

Each oral presentation (15 minutes presentation and 5 minutes discussion)

5A-1: Kazuo Mabuchi, Masao Moriyama, Yoshiaki Honda, Koji Kajiwara: Validation of satellite product estimation algorithm using climate model simulation data

5A-2: Shin Nagai, Taku M Saitoh, Tomoharu Inoue, Rikie Suzuki, Yoshiaki Honda: Usability of phenological information published on web sites for ground-truthing of satellite remote-sensing observations

5A-3: Akira Kato, Andrew T. Hudak, L. Monika Moskal, Christopher Gomez, Hiroyuki Obanawa, Yuichi Hayakawa, Kazuhiro Aruga: Beyond point clouds in forest application using Airborne Laser, Terrestrial Laser, and Structure from Motion

5A-4: Andrew T. Hudak, Carlos A. Silva, Benjamin C. Bright, E. Louise Loudermilk, Akira Kato, Lidar tools and techniques for 3D vegetation structure characterization at multiple scales

Tatsuro Nakaji, Tomoko Akitsu, Hideki Kobayashi, Masato Hayashi, Nobuko Saigusa, Koji Kajiwara, Yoshiaki Honda, Kenlo Nasahara, Masahiro Nakamura, Toshiya Yoshida, Hideaki Shibata, Tsutom Hiura: Development of large-scale ecological monitoring sites for satellite validation in natural forests in Hokkaido, Japan

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