Program

International Symposium on Agricultural Meteorology 2021 (ISAM2021)

[ISAM2021 Oral session]

IM01	Predicting the Future Dry Season Period for Irrigation Management in West Sumatra, Indonesia	Fadli Irsyad・Hiroki Oue(Ehime University)
IM02	Influences of meteorological and morphological factors on stemflow in Popa Mountain Park, Myanmar	Yadanar Zaw・Hiroki Oue(Ehime University)
IM03	Leaf-Convection Sensor for Measuring Leaf Boundary Layer Conductance in Low Airflow	Kensuke Hanada(Kyushu University)・Koichi Nomura(Kochi University)・Kensuke Kimura(National Agriculture and Food Research Organization)・Makito Mori(Kochi University)・Daisuke Yasutake・Tomoyoshi Hirota(Kyushu University)・Masaharu Kitano(Kochi University)
IM04	Impact on crops due to high temperature in Toyooka City, Hyogo Prefecture	Kakeru Kawaguchi・Yoshinori Shigeta(Tottori University of Environmental Studies)
IM05	Ground inversion layer that occurs in Hoki Daisen	Yoshiki Makizono・Yoshinori Shigeta(Tottori University of Environmental Studies)
IM06	Gap between potential and actual wheat yield associated with short-term humid event in a high yield cultivar	Seiji Shimoda・Yohei Terasawa(Hokkaido Agricultural Research Center, NARO)・Zenta Nishio(Tokyo University of Agriculture)
IM07	Development of a growth model of leaf lettuce in a plant factory: Estimation of photosynthetic rate per plant in a community condition	Kanna Tashiro・Yuki Sago(Yamaguchi University)
IM08	Seasonal wildfire susceptibility mapping using machine learning for assessing its threats to local ecosystem services in Daxinganling Region, China	Xianzhe Tang・Takashi Machimura(Osaka University)・Jiufeng Li(Nanjing University)・Huafei Yu(Wuhan University)・Liu Wei(South China Normal University)
IM09	Revision of impact assessment of climate change on rice yield and quality by considering the combined effects of temperature and CO2 concentration	Yasushi ISHIGOOKA(Hokkaido Agricultural Research Center, NARO)・Toshihiro HASEGAWA(Tohoku Agricultural Research Center, NARO)・Tsuneo KUWAGATA・Motoki NISHIMORI・Hitomi WAKATSUKI(Institute for Agro-Environmental Sciences, NARO)
IM10	Analysing meteorological factors associated with the occurrence of chalky rice grain using the nationwide Crop Survey database in Japan	Hitomi Wakatsuki(Institute for Agro-Environmental Sciences , NARO)・Toshihiro Hasegawa(Tohoku Agricultural research center , NARO)・Yasushi Ishigooka(Hokkaido Agricultural research center , NARO)・Tsuneo Kuwagata・Hiroki Ikawa・Takahiro Takemoto・Motohiko Kondo・Motoki Nishimori(Institute for Agro-Environmental Sciences, NARO)
IM11	Hybrid AI Model for Estimating Canopy Photosynthesis Ⅰ. Application to Fruit Vegetable Canopies	Koichi Nomura(Kochi University)・Takahiro Kaneko(Kyushu University)・Makito Mori・Masaharu Kitano(Kochi University)
IM12	Hybrid AI Model for Estimating Canopy Photosynthesis Ⅱ. Verification of Validity and Generalizability under Various Environmental Conditions	Takahiro Kaneko(Kyushu University)・Koichi Nomura(Kochi University)・Daisuke Yasutake・Tomoyoshi Hirota(Kyushu University)・Tadashigelwao(Kochi University), Takashi Okayasu・Yukio Ozaki(KyushuUniversity)・Masaharu Kitano(Kochi Univers
IM13	Application of SWAT Model on Napier Grass Yield and Bioenergy Potential Prediction in Thailand	Kotchakarn Nantasaksiri・Takashi Machimura(Osaka University)
IM14	The effects of SWC and mulch on the performance of soybean and soil nutrients availability	May Myat Mon・Hiroki Oue・Hideto Ueno(Ehime University)
IM15	Analysis of CO2 Enrichment Effects Based on the Spatial Distribution of CO2 Concentration and Leaf Photosynthetic Rate in Commercial Greenhouses	Yue Zhang・Daisuke Yasutake(Kyushu University)・Kota Hidaka(NARO Kyushu Okinawa Agricultural Research Center)・Kensuke Kimura(NARO Institute of Agro-Environmental Sciences)・Masaharu Kitano(Kochi University)・Tomoyoshi Hirota (Kyushu University)
IM16	Scaling a rice leaf physiology to the regional atmospheric boundary layer based on the Tsukuba Free Air CO2 Enrichment	Hiroki Ikawa・Tsuneo Kuwagata(Institute for Agro-Environmental Sciences, National Agriculture and Food Research Organization)・Tsutomu Watanabe(Water and Material Cycles Division, Institute of Low Temperature Science, Hokkaido University)・Charles P Chen(Department of Biology and Chemistry, Azusa Pacific University)・Toshihiro Hasegawa (Tohoku Agricultural Research Center, National Agriculture and Food Research Organization)

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IM17	Assessment of the PROSPECT-PRO model capabilities using hyperspectral reflectance of melon leaves	Rei Sonobe・Haruyuki Seki・Ryohei Kondo・Yudai Sugimoto・Yoshikazu Kiriiwa ・Katsumi Suzuki (Shizuoka University)
IM18	An Empirical Correction for Drone NDVI Images under Various Sunlight Conditions	Akira Hama(Chiba University)・Kei Tanaka(Japan Map Center)・Bin Chen(DJI Japan K.K.)・Akihiko Kondoh(Chiba University)
IM19	The effect of long-term elevated CO2 concentration on the carbon budget of apple population	Daiyu Ito(Faculty of Agriculture and Life Science, Hirosaki University)・Md Rakibul Hassan(UGAS, Iwate University)・Sachinobu Ishida(Graduate School of Science and Technology, Hirosaki University)・Yasuhiro Ishigami(Faculty of Agriculture, Takasaki University of Health and Welfare)
IM20	Method to calculate net CO2 exchange rate of whole plants under continuously increasing or decreasing CO2 concentrations in a greenhouse using a real-time photosynthesis and transpiration monitoring system	Naomichi Fujiuchi(Ehime University)・Kazue Inaba・Takeru Kanoh(Ehime University, PLANT DATA Co., Ltd.)・Yayu Romdhonah(Universitas Sultan Ageng Tirtayasa)・Seitaro Toda(Toyohashi University of Technology)・Kota Shimomoto(National Agriculture and Food Research Organization)・Yuri Isoyama(Kyowa Co. Ltd.)・Hiroshige Nishina(Ehime University)・Kotaro Takayama(Ehime University, Toyohashi University of Technology)
IM21	Accuracy Assessment of Phenological Reflectance Index derived from GCOM-C/SGLI with in situ data	Taiga Sasagawa(Graduate School of Science and Technology, University of Tsukuba)・Tomoko Kawaguchi Akitsu(Faculty of Life and Environmental Sciences, University of Tsukuba)・Kenlo Nishida Nasahara(Faculty of Life and Environmental Sciences University of Tsukuba)
IM22	Evaluation of Water Absorption Rate by Measuring the Volumetric Water Content in Cocopeat Medium for Eggplant Cultivation	Yuki SAGO・Kanna TASHIRO・Shuhei FUJIWARA・Yasuhiro TANAKA(Yamaguchi University)
IM23	On evaporative loss of snowmelt water in a black spruce forest in Alaska	Hiroki Ikawa(Institute for Agro-Environmental Sciences, National Agriculture and Food Research Organization)・Taro Nakai(School of Forestry and Resource Conservation, National Taiwan University)・Robert C. Busey(International Arctic Research Center, University of Alaska Fairbanks)・Hirohiko Nagano(Institute of Space-Earth and Environmental Research, Nagoya University)・Shin Nagai(Research and Development Center for Global Change, Japan Agency for Marine-Earth Science and Technology)・Kazuyuki Saito(Research Institute for Global Change Research Center for Environmental Modeling and Application, Japan Agency for Marine-Earth Science and Technology)・Hideki Kobayashi(Institute of Arctic Climate and Environment Change Research, Japan Agency for Marine-Earth Science and Technology)
IM24	Simulation of sun-induced chlorophyll fluorescence in spatially heterogeneous plant canopies	Hideki Kobayashi・Yuma Sakai(JAMSTEC)・Tomomichi Kato(Hokkaido University)
IM25	Incorporating non-structural carbon dynamics in individual-based vegetation model SEIB-DGVM	Hideki Ninomiya・Tomomichi Kato (Hokkaido University)
IM26	Soil warming effect on the heterotrophic respiration and soil CH4 flux in a cool-temperate forested peatland	Kentaro Takagi(Hokkaido University)・Lifei Sun(National Institute for Environmental Studies)・Munemasa Teramoto(Tottori University)・Toshiaki Kondo(Japan International Research Center for Agricultural Sciences)・Jun Koarashi・Mariko Atarashi-Andoh(Japan Atomic Energy Agency)・ Kazuhito Ichii(Chiba University)・ Naishen Liang (National Institute for Environmental Studies)

	[ISAM2021 Poster session]	
IP01	The Questionnaire Survey after Repairs of Shirakawa River in Jinnai District, Kumamoto City, damaged by Northen Kyushu Rain Storm Disaster in July 2012	Naoki Kanemitsu・Haruhiko Yamamoto・Yuka Watanabe(Graduate School of Agriculture, Yamaguchi University)
IP02	Using a multilayer model with eddy covariance to detect the leaf wetting and gas exchange of wet Japanese cypress canopy	Linjie Jiao・Yoshiko Kosugi(Graduate School of Agriculture, Kyoto University)・Yuichi Sempuku(Graduate School of Agriculture, Kyoto University; East Nippon Expressway Co., Ltd.)・Ayaka Sakabe・Ting-Wei Chang(Graduate School of Agriculture, Kyoto University)
IP03	Estimating chlorophyll content in leaves using UAV-mounted spectroscopic sensor	Tatsuya Shirai・Rei Sonobe・Haruyuki Seki・Akiyoshi Tominaga(Shizuoka University)・Kan-ichiro Mochizuki (PASCO Corporation)・Genya Saito (The University of Tokyo)
IP04	Photosynthesis down regulation of apple trees after long term exposure of elevated CO_2 concentration	Hassan Md Rakibul(UGAS, Iwate University)・Daiyu Ito(Faculty of Agriculture and Life Science, Hirosaki University)
IP05	Changes of photosynthesis, stomatal conductance and photochemical parameters from the heading to harvest stage of rice	Hiroki Oue・Yuanyuan Mao(Graduate School of Agriculture, Ehime University)・May Myat Mon・Yadanar Zaw・Fadli Irsyad(United Graduate School of Agricultural Sciences, Ehime University)
IP06	Local Light Irradiation to Inner Leaves for Improving Productivity of Butterhead Lettuce in Plant Factory	Kanna Tashiro・Yuki Sago(Yamaguchi University)
IP07	Spatiotemporal variation in biomass, production and respiration of fine roots in a young larch forest	Rui Cui・Takashi Hirano(Hokkaido University)・Lifei Sun(National Institute for Environmental Studies)・Munemasa Teramoto(Tottori University)・Naishen Liang (National Institute for Environmental Studies)
IP08	A new chamber deployment strategy with a high time-resolution measurement: toward a separate quantification of CH_4 emissions via plant and ebullition from rice paddies	Masako Kajiura(JSPS-RPD (NARO))・Takeshi Tokida(NARO)
IP09	Quantifying bubbling emission of methane from a rice paddy using high time-resolution concentration data during a closed chamber measurement	Masako Kajiura(JSPS (NARO))・Takeshi Tokida(NARO)
IP10	Seasonal carbon flux and ecosystem water use efficiency in a triple cropping rice paddy	Keisuke Ono(NARO)・Aung Zaw Oo(JIRCAS)・Akinori Yamamoto(Tokyo Gakugei University)・Chellappan Umamageswari(Tamil Nadu Agricultural University)・Masayoshi Mano(Chiba University)・Koothan Vanitha・Palanisamy Elayakumar・Marimuthu Raju(Tamil Nadu Agricultural University)・Kazuyuki Inubushi(Chiba University)・Shigeto Sudo(NARO)・Naoko Saitoh(Chiba University)・Sachiko Hayashida(Nara Women's University, Research Institute for Humanity and Nature)・Venkatachalam Ravi・Vellaisamy Ambethgar(Tamil Nadu Agricultural University)
IP11	Study on methane fluxes from stem of cypress in an upland temperate forest	Zhining Liu(Graduate school of agriculture, Kyoto university)・Ayaka Sakabe(Hakubi center, Kyoto university)・Yoshiko Kosugi(Graduate school of agriculture, Kyoto university)