

Schedule

26 October

Centennial Hall, Hokkaido University

27 October

Conference Hall, Hokkaido University

28 October

Conference Hall, Hokkaido University

08:30	Registration: (08:30-09:00)	08:30	
09:00	Opening Session (09:00-10:50)	09:00	Oral Session III: Barriers in flux measurements (08:45-10:25)
10:00		10:00	
11:00	Break	11:00	Break
12:00	Oral Session I: CarboEastAsia (11:10-12:40)	12:00	Oral Session IV: Global biogeochemical cycles (10:40-12:10)
13:00	Lunch (12:40-14:00)	13:00	Lunch (12:10-13:30)
14:00	Oral Session II: Bridges between ecosystem observation and remote sensing (14:00-16:05)	14:00	Oral Session V: Regular Session (13:30-15:00)
15:00		15:00	Poster Session II: · Barriers in flux measurements · Regular session · Interfaces between carbon science and society (15:00-16:30)
16:00	Poster Session I: · CarboEastAsia · Bridges between ecosystem observation and remote sensing · Global biogeochemical cycles (16:10-17:40)	16:00	Oral Session VI: Interfaces between carbon science and society (16:30-18:00)
17:00		17:00	
18:00		18:00	
19:00	Banquet (18:30-20:30) Aspen Hotel (2F)	19:00	AsiaFlux Steering Committee A3 P.I. Meeting Room No. 5 (18:30-)
20:00		20:00	Young Scientist Meeting Room No. 3 (18:30-)

Ice Breaker: Centennial Hall (1F), Hokkaido University

Banquet: Sapporo Aspen Hotel (2F)

Reception, Poster Session, Business Displays: Entrance Hall, Conference Hall, Hokkaido University

Oral Sessions: Lecture Hall (1F), Conference Hall, Hokkaido University

AsiaFlux Steering Committee, A3 P.I. Meeting: Room No. 5 (1F), Conference Hall, Hokkaido University

Young Scientist Meeting: Room No. 3 (1F), Conference Hall, Hokkaido University

AsiaFlux Workshop 2009 Program

October 27, 2009 (Tuesday)

Opening Session

October 27 09:00-10:50

Moderator: Takashi Hirano

Welcome Addresses

09:00-09:03	From the chair of local organizing committee	T. Hirano
09:03-09:17	From the chair of AsiaFlux	J. Kim
09:17-09:20	From sponsors	

Reports from Regional Flux Networks

09:20-09:35	O11	THAIFLUX	P. Kasemsap
09:35-09:50	O12	PROGRESS OF FLUX MEASUREMENT OF FOREST ECOSYSTEM IN TAIWAN	Y.-J. Hsia
09:50-10:05	O13	FLUX MEASUREMENTS: ROLE IN EMERGING CLIMATE CHANGE PARADIGM	S. Tripathi
10:05-10:20	O14	OZFLUX	R. Leuning
10:20-10:30	O15	BRIEF INTRODUCTION AND FUTURE DIRECTIONS OF CHINAFLUX	G. Yu
10:30-10:40	O16	CURRENT ACTIVITIES OF JAPANFLUX	T. Hirano
10:40-10:50	O17	KOFLUX REPORT 2009: IN RETROSPECT	H. Kwon

Oral Session I: CarboEastAsia

October 27 11:10-12:40

Chair: Naishen Liang and Jinkyu Hong

11:10-11:15		INTRODUCTION OF A3 CARBOEASTASIA PROGRAM	N. Liang
11:15-11:45	O21	<i>Invited</i> : SYNTHESIS ACTIVITIES WITHIN FLUXNET: FROM POINT TO GLOBE	M. Reichstein
11:45-12:00	O22	AN ASSESSMENT OF THE REGIONAL SCALE CARBON UPTAKE CAPACITY BASED ON CATCHMENT WATER BUDGET AND ECOSYSTEM SCALE WATER USE EFFICIENCY	D. Lee
12:00-12:15	O23	PARTITIONING OF EVAPOTRANSPIRATION WITH A TWO-SOURCE MODEL: FROM SITE SCALE TO REGIONAL SCALE	Z.M. Hu
12:15-12:30	O24	MULTI MODEL AND DATA ANALYSIS OF TERRESTRIAL CARBON CYCLE IN MONSOON ASIA: FROM 2001 TO 2006	K. Ichii
12:30-12:40		Discussion	

Oral Session II: Bridges between Ecosystem Observation and Remote Sensing October 27 14:00-16:05

Chair: Kenlo Nishida Nasahara and Sinkyu Kang

14:00-14:15	O31	<i>Invited</i> : " J-INTER-COMMUNITY" FOR ECOSYSTEM STUDY BINDING FIELD WORK, MODEL, AND REMOTE-SENSING	K.N. Nasahara
14:15-14:30	O32	<i>JAXA Award</i> : ESTABLISHMENT OF BASELINE OF CARBON STOCK AND FLUXES ON TROPICAL PEATSWAMP FOREST AREA IN KAMPAR PENINSULA, RIAU, INDONESIA	O. Karyanto
14:30-14:45	O33	<i>JAXA Award</i> : MODELING ENERGY AND WATER FLUXES OVER INDIAN AGROECOSYSTEMS – BRIDGING GAP FROM CANOPY TO REGIONAL SCALES WITH SATELLITE BASED THERMAL REMOTE SENSING	B.K. Bhattacharya
14:45-15:00	O34	SPATIAL-TEMPORAL VARIATIONS AND ENVIRONMENTAL CONTROL FACTORS OF ECOSYSTEM LIGHT USE EFFICIENCY AMONG TYPICAL FORESTS IN EAST ASIA	W.X. Wu
15:00-15:15	O35	RELATIONS OF SPRINGTIME CANOPY DEVELOPMENT WITH CARBON AND WATER FLUXES IN A DECIDUOUS BROADLEAF FOREST	S. Kang
15:15-15:30	O36	NET PRIMARY PRODUCTION OF TROPICAL RAIN FOREST USING GLOBAL PRODUCTION EFFICIENCY MODEL AND ASTER SATELLITE DATA	M.A. Faidi
15:30-15:50	O37	<i>Invited</i> : KEEPING AN EYE ON THE CARBON BALANCE: LINKING CANOPY DEVELOPMENT AND NET ECOSYSTEM EXCHANGE USING AN INTERNATIONAL WEBCAM NETWORK	L. Wingate
15:50-16:05		Discussion	

Oral Session III: Barriers in Flux Measurements

October 28 08:45-10:25

Chair: Akira Miyata and Ray Leuning

08:45-09:15	O41	<i>Invited</i> : INSTRUMENT SURFACE HEAT EXCHANGE AND OPEN-PATH CO ₂ FLUX	G. Burba
09:15-09:35	O42	<i>Invited</i> : EDDY COVARIANCE MEASUREMENTS OVER A PASTURE: COMPARISON OF OPEN- AND CLOSED- PATH GAS ANALYSERS AND THE ENERGY BALANCE CLOSURE PROBLEM	R. Leuning
09:35-09:55	O43	<i>Invited</i> : THREE ISSUES CONCERNING OPEN- AND CLOSED-PATH SENSORS: SELF-HEATING, PRESSURE EFFECTS, AND TUBE WALL ADSORPTION	W.J. Massman
09:55-10:10	O44	CARBON SINK BY FOREST ECOSYSTEMS MAY BE OVERESTIMATED: ANALYSIS OF ONE-YEAR MEASUREMENT OF PRESSURE ITEM	J. Zhang
10:10-10:25		Discussion	

Oral Session IV: Global Biogeochemical Cycles

October 28 10:40-12:10

Chair: Nobuko Saigusa and Markus Reichstein

10:40-11:10	O51	<i>Invited</i> : NITROGEN DEPOSITION AND FOREST CARBON SINKS	J. Grace
11:10-11:25	O52	LONG-TERM OBSERVATION OF ATMOSPHERE-LAND EXCHANGE OF AMMONIA IN A JAPANESE PADDY FIELD	K. Hayashi
11:25-11:40	O53	SPATIAL PATTERNS FOR LEAF NITROGEN AND PHOSPHORUS STOICHIOMETRY OF TEMPERATE FOREST ECOSYSTEMS IN NORTHEASTERN CHINA	S. Ren
11:40-11:55	O54	CAN INTRA-ANNUAL STABLE ISOTOPE SIGNALS IN TREE-RING CELLULOSE BE USED TO EXTEND FLUXNET DATA-MODEL ANALYSIS TO LARGER TEMPORAL AND SPATIAL SCALES?	J. Ogée
11:55-12:10	O55	PHENOLOGY AND GROWTH OF DIFFERENT VEGETATION TYPES IN THE ENT DYNAMIC GLOBAL TERRESTRIAL ECOSYSTEM MODEL (DGTEM) EVALUATED AT FLUXNET SITES	Y. Kim

Oral Session V: Regular Session

October 28 13:30-15:00

Chair: Masahito Ueyama and Ke-Sheng Cheng

13:30-13:45	O61	CHARACTERISTICS OF HEAT, WATER VAPOR AND CO ₂ FLUXES ABOVE A MOUNTAINOUS CRYPTOMERIA FOREST	C.I. Hsieh
13:45-14:00	O62	EXPLORING SOIL CO ₂ FLUX OF TROPICAL FOREST IN THE 52-HA LAMBIR HILLS FOREST DYNAMICS PLOT	L.K. Kho
14:00-14:15	O63	ESTIMATION OF THE REGIONAL EVAPORATION WITH COMPLEMENTARY RELATIONSHIP AND CONVECTIVE BOUNDARY LAYER MODEL IN THE SOUTH OF LOESS PLATEAU, CHINA	Y. Iijima
14:15-14:30	O64	IMPACT OF TEMPORAL VARIATION OF k_B^{-1} ON THE SIMULATION OF CARBON EXCHANGE IN A FOREST CANOPY	J. Hong
14:30-14:45	O65	DATA-MODEL FUSION FOR IMPROVING LAI MAPPING: A CASE STUDY OVER CHINA'S LANDMASS	M. Huang
14:45-15:00	O66	THE POTENTIAL OF CARBON SINK/SOURCE OF JAPANESE FOREST SOILS	N. Liang

Oral Session VI: Interfaces Between Carbon Science and Society

October 28 16:30-18:00

Chair: Joon Kim

16:30-16:45	O71	ASIAFLUX – SCIENCE COMMUNITY SUSTAINING ECOSYSTEMS AND PEOPLE THROUGH RESILIENCE THINKING	J. Kim
16:45-17:15	O72	<i>Invited</i> : CLIMATE CHANGE AND ACTIONS FOR A TRANSITION TO LOW-CARBON ECONOMIES	H. Hamanaka
17:15-17:45	O73	<i>Invited</i> : CARBON FLUX ASSOCIATED WITH LAND USE, MANAGEMENT AND DISTURBANCE ALONG AN URBAN TO RURAL GRADIENT	J. Hom
17:45-18:00		Synthesis & discussion	

October 27, 2009 (Tuesday)

Poster Session I

October 27

16:10-17:40

CarboEastAsia

- P101 IMPACT OF METEOROLOGICAL ANOMALIES IN THE 2003 SUMMER ON GROSS PRIMARY PRODUCTIVITY IN EAST ASIA *N. Saigusa*
- P102 REPRODUCING LONG TERM ECOSYSTEM CARBON BALANCE OF EAST SIBERIAN LARCH FOREST BY INTERPRETING BIOMASS, DENDROCHRONOLOGY, SOIL CARBON AND CLIMATE RECORDS
T. Machimura
- P103 SIMULATING CARBON BALANCE OF LARCH FORESTS IN EAST ASIA FROM STAND TO REGIONAL SCALE
M. Ueyama
- P104 THE IMPROVEMENT OF PHENOLOGY MODULE FOR SUMMER GREEN TREE IN CLM3.5-DGVM USING MODIS LAI *Y.-H. Lee*
- P105 ESTIMATING PARAMETERS IN AN TERRESTRIAL ECOSYSTEM MODEL WITH EDDY COVARIANCE FLUX MEASUREMENTS *L. Zhang*
- P106 FOLIAR AND SOIL NATURAL ABUNDANCE OF ¹⁵N PROVIDES FIELD EVIDENCE ON NITROGEN UPTAKE AND NITROGEN TRANSFORMATION IN TEMPERATE FOREST ECOSYSTEMS *H. Fang*
- P107 PRECIPITATION PATTERN DRIVES INTERANNUAL VARIATION IN SOIL RESPIRATION IN A SUBTROPICAL CONIFEROUS PLANTATION *Y. Wang*
- P108 DRIVERS OF NITROUS OXIDE FLUXES FROM THE SEMI-ARID STIPA GRANDIS GRASSLAND IN INNER MONGOLIA, CHINA *X. Liu*
- P109 SEASONAL VARIATIONS IN CARBON DIOXIDE EXCHANGE IN AN ALPINE WETLAND MEADOW ON THE QINGHAI-TIBETAN PLATEAU *L. Zhao*
- P110 SIMULATION OF NET PRIMARY PRODUCTIVITY AND EVAPOTRANSPIRATION IN EAST ASIA WITH THE REMOTE SENSING DRIVEN BEPS MODEL CALIBRATED USING EDDY FLUX OBSERVATIONS *W.M. Ju*
- P111 DEVELOPMENT OF EDDY FLUX DATA PROCESSING TECHNIQUE IN CHINA *H. He*
- P112 INFLUENCE OF ASIAN MONSOON ON INTERANNUAL VARIABILITY OF NET ECOSYSTEM CARBON EXCHANGE IN TWO MAJOR PLANT FUNCTIONAL TYPES IN KOREA *H. Kwon*
- P113 ESTIMATION OF SCALAR FLUXES USING AN AERODYNAMIC VARIANCE METHOD AT A CONIFEROUS FOREST IN GWANGNEUNG, KOREA *J. Yoo*
- P114 COMPARISON OF RELATION BETWEEN TEMPERATURE, MOISTURE AND SOIL RESPIRATION IN SOME SITES *K. Tamai*
- P115 DAILY GROSS PRIMARY PRODUCTIVITY AND EVAPOTRANSPIRATION USING SATELLITE REMOTE SENSING *S. Kang*
- P116 EVALUATION OF SATELLITE DATA BASED VEGETATION ANOMALIES WITH ECOSYSTEM MODELS IN ASIA *K. Takahashi*
- P117 ANALYSIS OF CLIMATE CONTROLLING FACTORS ON TERRESTRIAL GROSS PRIMARY PRODUCTIVITY: IMPLICATION FROM SATELLITE DATA AND ECOSYSTEM MODEL *E. Zigami*
- P118 ASSESSMENT OF A TERRESTRIAL ECOSYSTEM MODEL USING FLUXNET OBSERVATIONS: TOWARD AN OBJECTIVE REFINEMENT PROCEDURE *T. Suzuki*
- P119 ESTIMATION OF NET PRIMARY PRODUCTION IN BAMBOO ECOSYSTEM USING THE HARVEST METHOD
S. Goto
- P120 A SENSITIVITY ANALYSIS OF A TRIFFID-MOSES COUPLED DGVM TO BIOPHYSICAL CHARACTERISTICS IN A DECIDUOUS FOREST *J. Jang*
- P121 ESTIMATION OF UNDERSTORY EVAPOTRANSPIRATION BY EDDY-COVARIANCE IN DECIDUOUS AND CONIFEROUS FORESTS *M. Kang*
- P122 MEASUREMENT OF SOIL CO₂ EFFLUX IN TEMPERATE DECIDUOUS FOREST WITH AUTOMATIC OPEN/CLOSING CHAMBER SYSTEM *E.-H. Lee*

- P123 CARBON DIOXIDE EXCHANGE AT FOUR GRASSLAND SITES ACROSS JAPAN AND INFLUENCE OF MANURE APPLICATION ON ECOSYSTEM CARBON BUDGET *R. Hirata*
- P124 APPLICATION OF AUTOMATIC SLIDING CHAMBER FOR CONTINUOUS MEASUREMENT OF NET ECOSYSTEM PRODUCTIVITY IN GRASSLAND ECOSYSTEM *J. Lee*

Bridges between Ecosystem Observation and Remote Sensing

- P125 SOIL RESPIRATION IN NON-GROWING SEASON AND ITS RESPONSE TO ENVIRONMENT FACTORS BASED MAIZE AGRO-ECOSYSTEM *L. -R. Ping*
- P126 CHARACTERISTICS OF CO₂ FLUX BEFORE AND IN THE HEATING PERIOD AT URBAN COMPLEX UNDERLYING SURFACE AREA *Q. Y. Jia*
- P127 THE OPTIMAL COLOR INDEX FOR THE PHENOLOGICAL RECORDING OF LEAF CANOPIES *T. Mizunuma*
- P128 INFLUENCE OF THINNING ON MICROWAVE BACKSCATTERING USING THE AIRBORNE SYNTHETIC APERTURE RADAR AT A LARCH FOREST IN TOMAKOMAI, JAPAN *A. Takahashi*
- P129 WET CANOPY EVAPOTRANSPIRATION IN A MOUNTAIN CLOUD FOREST *H.-S. Chu*
- P130 INTEGRATED SYSTEM OF SATELLITE AND FIELD DATA FOR MAPPING OF GROSS PRIMARY PRODUCTION *A. Kamei*
- P131 PHENOLOGY OF LEAF PHOTOSYNTHETIC PROPERTIES IN A COOL-TEMPERATE DECIDUOUS BROADLEAF FOREST IN TAKAYAMA, JAPAN *H. Noda*
- P132 EFFECTS OF SEASONAL AND INTERANNUAL VARIATION IN LEAF PHOTOSYNTHESIS AND CANOPY LEAF AREA INDEX ON CANOPY PHOTOSYNTHESIS IN A COOL-TEMPERATE DECIDUOUS BROADLEAF FOREST IN TAKAYAMA, JAPAN *H. Muraoka*
- P133 NEW METHOD FOR DETECTION OF VEGETATION PHENOLOGY WITH SATELLITE REMOTE SENSING: GRVI-METHOD *T. Motohka*
- P134 ESTIMATION OF CARBON BUDGET OVER BLACK SPRUCE FORESTS IN THE NORTH AMERICA USING TERRA/MODIS DATA *Y. Ota*
- P135 USE OF DIGITAL CAMERAS FOR OBSERVATION OF VEGETATION PHENOLOGY *R. Ide*
- P136 EVALUATION OF MODIS EVAPOTRANSPIRATION ALGORITHM AT THE EAST ASIA *S. -T. Jung*
- P137 MONITORING OF THE GROSS AND NET PRIMARY PRODUCTIVITY IN EAST ASIA USING THE MODIS IMAGERY *J. Lee*
- P138 SPRING CANOPY PHENOLOGY OBSERVED BY PHENOLOGICAL EYES NETWORK (PEN) SYSTEM AT A DECIDUOUS BROADLEAF FOREST, KOREA *J. Choi*
- P139 EVALUATION OF METHANE FLUX IN A TEMPERATE LARCH FOREST BASED ON THE FLUX MEASUREMENTS AND INVERSE METHOD *W. Nishimura*
- P140 INTERSPECIFIC VARIATION IN EARLY SPRING SAP FLUX *J. Park*
- P141 PARTITIONING SOIL RESPIRATION IN A RUBBER PLANTATION ECOSYSTEM *D. Satakhun*
- P142 THE CAFNET/COFFEE-FLUX PROJECT: EVALUATING WATER, SEDIMENT AND CARBON ECOSYSTEM SERVICES IN AN AGROFORESTRY COFFEE WATERSHED (COSTA RICA) *O. Roupsard*
- P143 GEOGRAPHICAL AND YEAR-TO-YEAR VARIATIONS IN THE TIMING OF LEAF FLUSHING OF WINTER-DECIDUOUS FORESTS IN THE NORTHERN HEMISPHERE *M. Gamo*
- P144 AN ANALYSIS OF LEAF PHENOLOGY USING A TIME SERIES OF FIXED VIEW CAMERA IMAGES - A CASE OF TROPICAL MONSOONAL EVERGREEN FOREST AT SAKAERAT, THAILAND - *T. Maeda*

Global Biogeochemical Cycles

- P145 WATER VAPOR AND PRECIPITATION ISOTOPE RATIOS IN BEIJING, CHINA X. Wen
- P146 ATMOSPHERIC NITROGEN DEPOSITION OF NSTEC FOREST ECOSYSTEM W. Sheng
- P147 SEASONAL CONTRIBUTIONS OF CARBON DIOXIDE AND WATER FLUXES OVER A REED MARSH IN NORTHEAST CHINA L. Zhou
- P148 DYNAMICS OF EVAPOTRANSPIRATION OVER GRASSLAND, MAIZE FARMLAND AND REED MARSH IN NORTHERN CHINA AND ITS SIMULATION G. Zhou
- P149 DEVELOPING AN INTEGRATED TERRESTRIAL MODEL OF VEGETATION DYNAMICS, ENERGY AND CARBON EXCHANGES AND BIOGEOCHEMICAL CYCLES IN COOL-TEMPERATE FOREST ECOSYSTEMS M. Toda
- P150 SOIL CO₂ FLUXES IN SOUTHERN VIETNAM DURING DRY SEASON J. Kurbatova
- P151 EFFECT OF LAND USE CHANGE ON SOIL CARBON DYNAMICS IN TROPICAL REGION M. Adachi

October 28, 2009 (Wednesday)

Poster Session II

October 28
15:00-16:30

Barriers in Flux Measurements

- P201 BIOMASS CARBON STOCKS AND ITS POTENTIAL IN RUBBER PLANTATION IN XISHUANGBANNA, SOUTHWEST CHINA Q. -H. Song
- P202 THE CARBON BALANCE OF A PRIMARY TROPICAL SEASONAL RAIN FOREST Z. -H. Tan
- P203 CARBON STORAGE AND SOIL CO₂ EFFLUX OF TROPICAL SEASONAL RAIN FOREST, RUBBER TREE PLANTATION AND PADDY SOIL IN XISHUANGBANNA, SOUTHWEST CHINA L. Sha
- P204 A VALIDATION STUDY OF THE PRACTICAL CORRECTIONS FOR SENSOR HEATING AT OPEN-PATH IRGA SURFACES USING COMPUTATIONAL FLUID DYNAMICS K. Ono
- P205 COMPARATIVE GAP-FILLING METHODS FOR EDDY COVARIANCE CARBON DIOXIDE FLUXES AT CHI-LAN MOUNTAIN FLUX TOWER SITE C.C. Wu
- P206 POOLING OF CO₂ AND ITS IMPLICATIONS ON NET ECOSYSTEM CARBON EXCHANGE MEASUREMENT IN A PRIMARY TROPICAL SEASONAL RAIN FOREST Y. Zhang
- P207 NEW CO₂/H₂O GAS ANALYZER COMBINES THE ADVANTAGES OF OPEN-PATH AND CLOSED-PATH SOLUTIONS G. Burba
- P208 OPEN-PATH EDDY COVARIANCE MEASUREMENTS OF METHANE FLUX G. Burba

Interfaces between Carbon Science and Society

- P209 CARBON BUDGET OF TEMPERATE GRASSLAND IN CHINA AND ITS TREND IN THE FUTURE X. Sui
- P210 SEASONAL CHANGES IN NET ECOSYSTEM EXCHANGE OF CO₂ AND RESPIRATION OF *CENCHRUS CILIARIS* L. GRASSLAND ECOSYSTEM IN SEMI-ARID TROPICS: AN EDDY COVARIANCE MEASUREMENT C. Lalrammawia
- P211 CARBON DIOXIDE RESPIRATION CHARACTERISTICS WITH PHYSICO-CHEMICAL PROPERTIES OF SOILS AT THE COASTAL ECOSYSTEM IN SUNGHEON BAY P. -S. Kim
- P212 SPATIAL AND TEMPORAL PATTERNS OF SOIL RESPIRATION OVER THE JAPANESE ARCHIPELAGO: A MODEL-INTERCOMPARISON STUDY A. Ito

Regular Session

- P213 CHANGES IN CARBON DIOXIDE SEASONS IN THE WARMER CLIMATE *G. Choi*
- P214 MODELING SLASH PINE PLANTATION NPP BASED ON STEM-ANALYSIS DATA AND ALLOMETRIC EQUATIONS *X. Li*
- P215 ESTIMATING LARIX FOREST BIOMASS OF 12 PROVINCES IN NORTH CHINA FROM FORESTRY INVENTORY DATA *G. Yu*
- P216 STEM RESPIRATION IN A SUBTROPICAL MONTANE CLOUD FOREST *S. -C. Chang*
- P217 EVALUATIONS OF NIGHTTIME ECOSYSTEM RESPIRATION OVER A CHINESE PADDY FIELD USING TIME SERIES OF CO₂ DENSITIES AS WELL AS EDDY CORRELATION METHOD *H. Md. Shahadat*
- P218 ESTIMATING THE SCALAR TRANSFERS WITHIN AND ABOVE A DEEP FOREST CANOPY BY USING A MULTILAYER FORWARD CLOSURE MODEL IN CHI-LAN MOUNTAIN STUDY SITE IN TAIWAN
J. -Y. Juang
- P219 ETP – A NETWORK OF FLUX STUDY SITES IN TREE-BASED CROPPING ECOSYSTEMS IN TROPICAL ASIA, OCEANIA, AMERICA AND AFRICA *P. Thaler*
- P220 FOLIAR NITROGEN AND CARBON STOICHIOMETRY OF THREE CONIFEROUS SPECIES IN NORTH CHINA
Y. Wei
- P221 MEASUREMENTS OF TURBULENCE, HEAT FLUXES AND GREENHOUSE GAS FLUXES ABOVE TROPICAL RAIN FOREST AND OIL PALM IN SABAH, MALAYSIAN BORNEO *C. Helfter*
- P222 A DECADAL STUDY ON CARBON BUDGET IN RICE PADDY FIELDS *A. Miyata*
- P223 EXPERIMENTAL VALIDATION OF WPL CORRECTION FOR CO₂ FLUX BY EDDY COVARIANCE TECHNIQUE OVER ASPHALT SURFACE *F. Kondo*
- P224 OBSERVATION AND MODELING OF THE SENSITIVITY OF CARBON SEQUESTRATION TO HARVESTING AND CLIMATE IN A TEMPERATE CYPRESS FOREST *M. Ueyama*
- P225 EFFECTS OF SNOW AND SOIL-FROST DEPTH ON CO₂ DYNAMICS OVER AND IN AGRICULTURAL SOIL IN HOKKAIDO, NORTHERN JAPAN *S. Ohkubo*
- P226 SPATIAL VARIATION OF CO₂ AND CH₄ FLUX IN RIPARIAN ZONE OF WARM-TEMPERATE BROADLEAF FOREST IN JAPAN *T. Miyama*
- P227 CO₂ FLUX OBSERVATION IN THE FOOTHILLS OF A HIGH MOUNTAIN *Y. Takahashi*
- P228 SEASONAL VARIATION OF CARBON DIOXIDE EXCHANGE AND ANNUAL CARBON BUDGET AT FUJIYOSHIDA FOREST SITE (FJY) *Y. Mizoguchi*
- P229 A BIOGEOCHEMICAL FOREST MODEL FOR EVALUATION OF ECOSYSTEM SERVICES (BGC-ES) AND ITS APPLICATIONS *M. Ooba*
- P230 LEAF NUTRIENT CONCENTRATION AND RESORPTION OF 18 SPECIES IN AN ALPINE MEADOW ON QINGHAI-TIBETAN PLATEAU, CHINA *C. Jiang*
- P231 CHANGES OF CARBON FLUX IN A BROADLEAF DECIDUOUS FOREST BEFORE AND AFTER WINDTHROW DISTURBANCE *K. Yamanoi*
- P232 WATER AND ENERGY EXCHANGE IN A BLACK SPRUCE FOREST IN INTERIOR ALASKA *H. Iwata*
- P233 TRANSPIRATION ACTIVITIES OF EVERGREEN TREES IN CENTRAL CAMBODIA: ABRUPT CHANGES REVEALED BY SAP FLOW MEASUREMENT *S. Iida*
- P234 CARBON BALANCE OF REGROWING VEGETATION IN A LARCH FOREST AFTER A CATASTROPHIC TYPHOON DAMAGE *T. Sano*
- P235 SEASONAL COURSE OF HEAT AND WATER VAPOR FLUXES MEASURED OVER A LOWLAND EVERGREEN FOREST IN CAMBODIA *T. Shimizu*

- P236 UP AND DOWN FLOWS IN THE CANOPY ON THE SLOPE AND VARIATION OF CO₂ CONCENTRATION AT TKY *H. Kondo*
- P237 DETECTING A DIFFERENCE IN PHENOLOGICAL STATUS USING SCALAR DISSIMILARITY OBSERVED ABOVE THE FOREST CANOPY *A. Kotani*
- P238 SENSITIVITY ANALYSIS FOR EPPML MODEL *Y. Wang*
- P239 SEASONAL AND ANNUAL VARIATION OF CH₄ FLUX FROM A RICE PADDY FIELD IN JAPAN *M. Mano*
- P240 TRANSPORTATION OF CO₂ AT TKY SITE OVER A MOUNTAINOUS COMPLEX TERRAIN ESTIMATED FROM ATMOSPHERIC ²²²Rn MEASUREMENT *S. Murayama*
- P241 A STUDY OF CO₂ VARIATIONS RELATE WITH TEMPERATURE AND VAPOR AT DIFFERENT TIME SCALES DURING MAIZE GROWTH SEASON IN NORTH CHINA PLAIN *G. Jianxia*
- P242 TRACING THE TRANSFER OF RECENTLY ASSIMILATED CARBON INTO THE SOIL AFTER IN SITU ¹³CO₂ PULSE LABELLING OF TREES *D. Epron*
- P243 THE δ¹³C COMPOSITION OF RESPIRED CO₂ FROM ROOTS AFTER ¹³CO₂ PULSE LABELLING *M. Dannoura*
- P244 A LAND SURFACE MODEL VALIDATION AT A SITE IN TROPICAL CLIMATE WITH REMARKABLE DRY AND RAINY SEASONS *S. Miyazaki*
- P245 SIMULATIONS OF CARBON-ISOTOPE DISCRIMINATION ABOVE AND WITHIN A FOREST CANOPY *S. Takanashi*
- P246 ISOPRENE FLUX MEASUREMENT USING RELAXED EDDY ACCUMULATION METHOD IN WARM-TEMPERATE MIXED FOREST IN JAPAN *M. Okumura*
- P247 SEASONAL VARIATIONS OF CARBON DIOXIDE EXCHANGE AT A TRELLIS TRAINING JAPANESE PEAR ORCHARD *H. Sugiura*
- P248 CHARACTERISTICS OF CO₂ CONCENTRATION CHANGE AT WARM TEMPERATE FOREST SITUATED IN COMPLEX TERRAIN. *Y. Kominami*
- P249 LONG-TERM MEASUREMENTS OF THE CO₂ FLUX FROM LEAF LITTER USING AN AUTOMATED CHAMBER SYSTEM *M. Jomura*
- P250 SEASONAL ACCLIMATION OF THE RESPIRATION TO TEMPERATURE IN A BROAD-LEAVED FOREST IN JAPAN *N. Makita*
- P251 EVALUATION OF CO₂ FLUX FROM LEAF LITTER: EFFECTS OF FRAGMENTATION AND SPATIAL VARIATION IN EARLY DECOMPOSITION STAGE *M. Ataka*