

**The International Conference on Land Surface
Radiation and Energy Budgets:
Observations, Modeling and Analysis**

Final Program

18-20 March 2009

Beijing, China

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Dr. Kun Yang Institute of Tibetan Plateau Research, CAS, China

Dr. Mitsunori Yoshimura Remote Sensing Technology Center of Japan

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Program

On-site Registration: 14:00 - 22:00, March 17, Lobby at Jingshi Hotel

On-site Registration: 08:00 - 12:00, March 18, Lobby at Yingdong Hall

All meeting sessions will take place in Yingdong Hall, Beijing Normal University

March 18 (day 1)

9:00 -10:00 **Opening Ceremony & Picture Taking** (Chair: Dr. S. Liang)

10:00- 10:30 **Keynote speech by Prof. Robert Dickinson**

Challenges in Quantifying Coupling between Land and Atmosphere as Part of Climate Change

Jackson School of Geosciences, University of Texas, Austin, USA

10:30-12:30 **Estimation of Radiation Fluxes** (Chair: Dr. P. Muller)

10:30-10:45 Prof. Shunlin Liang

Mapping High-Resolution Land Surface Radiation Budget from MODIS: Algorithms and Preliminary Validation Results

Department of Geography, University of Maryland, USA

10:45-11:00 Dr. Jean-Luc Widlowski

RAMI4PILPS: Assessing Shortwave Radiation Fluxes in Land Surface Schemes

European Commission, DG. Joint Research Centre, Institute for Environment and Sustainability, Italy

11:00-11:15 Prof. Rong Fu

Observed Changes in Surface Solar Radiation and Cloudiness over the Tropical Rainforests, the Cause and Implication to the Tropical Ecosystem

Jackson School of Geosciences, the University of Texas at Austin, USA

11:15-11:30 Break

11:30-11:45 Xiaolei Niu

Impact of Improved Narrow-to-Broadband Transformations and Anisotropic Corrections on Satellite Estimates of Radiative Fluxes

Department of Atmospheric and Oceanic Science, University of Maryland, USA

11:45-12:00 Dr. Zhengming Wan

- Validation of the V5 MODIS Land-Surface Temperature Product Worldwide*
ICESSE, University of California, Santa Barbara, USA
- 12:00-12:15 Maofang Gao
Generation of Land Surface Temperature Maps for Entire China Using MODIS Data
Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, China
- 12:15-12:30 Dr. Juan M. Sánchez
Landsat 7 Thermal Band Calibration and Atmospheric Correction: Validation with Ground-Based Measurements
Department of Earth Physics and Thermodynamics, University of Valencia, Spain
- 12:30-14:00 Lunch (2nd floor, Lanhui Hotel)
- 14:00-15:45 Albedo special session (I)** (Chair: Dr. G. Schaepman)
- 14:00-14:30 Invited speech by Dr. Julienne Stroeve
Growing Non-Linearity in Arctic Sea Ice Loss
The National Snow and Ice Data Center (NSIDC), Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, USA
- 14:30-14:45 Invited speech by Prof. Robert Dickinson
Characterization of Albedos of Complex Land Systems from a Climate Modeler's Viewpoint and How their Measurement Can Be Used to Constrain Structural Details of a Model.
Jackson School of Geosciences, University of Texas Austin, USA
- 14:45-15:00 Dr. Yves Govaerts
Estimation of Surface Albedo Increase during the Eighties Sahel Drought from Meteosat Observations
EUMETSAT, Germany
- 15:00-15:15 Dr. Shusen Wang
Simulation of Canopy Radiation Transfer and Surface Albedo in the EALCO Model
Canada Centre for Remote Sensing, Canada
- 15:15-15:30 Dr. Fernando Camacho
Towards an Operational Production of Surface Albedo in the GMES Land Monitoring Core Service
EOLAB, Valencia, Spain
- 15:30-15:45 Dr. Jean-Louis Roujean
Validation of POLDER Surface BRDF and Albedo Products Based on a Review of other Satellites, Ground and Climate Databases
CNRM/Météo-France, France
- 15:45-16:00 Break
- 16:00-17:45 Albedo special session (II)** (Chair: Dr. C. Schaaf)

- 16:00-16:15 Dr. Crystal L. Schaaf
The MODIS Reflectance Anisotropy and Albedo Product: Applications and Enhancements
 Center for Remote Sensing, Department of Geography and Environment, Boston University, USA
- 16:15-16:30 Prof. Jan-Peter Muller
ALBEDOMAP: MERIS Land Surface Albedo Retrieval Using Data Fusion with MODIS BRDF and Its Validation Using Contemporaneous EO and in Situ Data Products
 Mullard Space Science Laboratory, Department of Space and Climate Physics, University College London, UK
- 16:30-16:45 Dr. Dominique Carrer
Land Surface Albedo from MSG Geostationary Satellite: Method for Retrieval, Validation, and Application for Weather Forecast
 Météo-France, CNRM/GAME, France
- 16:45-17:00 Dr. Fuqin Li
An Evaluation of the Use of Atmospheric and BRDF Correction to Standardise Landsat Data
 National Earth Observation Group, Geospatial and Earth Monitoring Division, Geoscience Australia, Australia
- 17:00-17:15 Dr. Philip Lewis
BRF/Albedo Inversion Constrained by Temporal Smoothness
 NCEO and Dept. Geography, University College London, UK
- 17:15-17:30 Sihan Liu
The New Angular & Spectral Kernel Model for BRDF and Albedo Retrieval
 State Key Laboratory of Remote Sensing Science, China
- 17:30-17:45 Dr. Yi Luo
An Approach for Developing Surface Albedo Product from Seven MODIS Land Bands at 250m Spatial Resolution over Canada and the Arctic Circumpolar Region
 Canada Centre for Remote Sensing, Natural Resources, Canada

18:30 Banquet (2nd floor, Jingshi Hotel)

March 19 (day 2)

8:30-9:45 Tibetan special session (I):

Observations, data analysis, and modeling (Chair: Dr. K. Yang)

- 8:30-8:45 Invited speech by Prof. Toshio Koike
A Satellite-Based Atmosphere-Land Coupled Data Assimilation System
Department of Civil Engineering, the University of Tokyo, Japan
- 8:45-9:00 Prof. Hirohiko Ishikawa
Land Surface-Atmosphere Interaction on the Tibetan Plateau Observation and Infrared Remote Sensing
Disaster Prevention Research Institute, Kyoto University, Japan
- 9:00-9:15 Dr. Shigenori Haginoya
A Climatological Estimate of Heat and Water Fluxes over the Tibetan Plateau
Meteorological Research Institute, Japan Meteorological Agency, Japan
- 9:15-9:30 Yingying Chen
Evaluating Three Land Surface Models against GAME/Tibet Dataset for the Tibetan Plateau
Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China
- 9:30-9:45 Dr. Xiaofeng Guo
Variability and Trend of Sensible Heat Exchange over the Tibetan Plateau Using an Updated Surface Flux Parameterization
Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China
- 9:45-10:00 Break

10:00-12:00 Tibetan special session (II):

Remote sensing and data assimilation (Chair: Dr. T. Koike)

- 10:00-10:15 Invited speech by Prof. Yaoming Ma
Recent Advances in Land-Atmospheric Interaction Observations on the Tibetan Plateau
Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China
- 10:15-10:30 Weiqiang Ma
Estimating Surface Fluxes over the North Tibetan Plateau Area with ASTER Imagery
Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China
- 10:30-10:45 Margaret Wonsick
The Radiation Climate of the Tibetan Plateau

- Department of Atmospheric and Oceanic Science, University of Maryland, USA
- 10:45-11:00 Lei Zhong
Estimation of Land Surface Parameters over the Tibetan Plateau Area Using MODIS and AVHRR Data
Institute of Tibetan Plateau Research, the Chinese Academy of Sciences, China
- 11:00-11:15 Dr. Hiroyuki Tsutsui
Application of the Land Data Assimilation System for a Frozen Soil in the Permafrost Region of Tibetan Plateau
Department of Civil Engineering, the University of Tokyo, Japan
- 11:15-11:30 Dr. Hui Lu
Simulating Surface Energy Flux and Soil Moisture at the Wenjiang PBL Site Using a Land Data Assimilation System
Dept. of Civil Eng., the Univ. of Tokyo, Japan
- 11:30-11:45 Dr. Katsunori Tamagawa
Estimation of the Soil Moisture and Land Surface Flux at the Tibet Gaize Station by Using Land Data Assimilation System Developed at the University of Tokyo
Earth Observation Data Integration & Fusion Research Initiative, The University of Tokyo, Japan
- 11:45-12:00 Dr. Kun Yang
A Dual-Pass Microwave Land Data Assimilation System for Estimating Soil Moisture and the Surface Energy Budget
Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China
- 12:00-14:15 Lunch (2nd floor, Lanhui Hotel)
- 12:15-14:00 Townhall meeting on LPV (Land Product Validation)** (Chair: Dr. F. Baret)
- 14:15-14:45 Keynote speech by Dr. Martin Wild**
Decadal Changes in Surface Radiative Fluxes
Institute for Atmospheric and Climate Science, Swiss Federal Institute of Technology, Switzerland
- 14:45- 15:45 Modeling and Inversion** (Chair: Dr. P. Lewis)
- 14:45-15:00 W.J. Timmermans
Surface Heterogeneity Influence on Land-Atmosphere Energy Exchanges
International Institute for Geo-information Sciences and Earth Observation,
Dept. of Water, Netherlands
- 15:00-15:15 Dr. Feng Zhao
Unified Optical-Thermal Modeling for Row-Planted Canopies
Key Laboratory of Precision Opto-Mechatronics Technology, Beijing University of Aeronautics and Astronautics, Beijing, China.
- 15:15-15:30 Dr. Jian Sun
Parameters Estimation of Coupled Water and Energy Balance Model Based on Stationary Constraints of Surface States

Boston University Department of Geography and Environment, USA
15:30-15:45 Dr. Sebastien Wagner
Optimal Estimation and Joint Retrieval of Aerosol Load and Surface Reflectance Using MSG/SEVIRI Observations: Analysis of the Radiative Coupling between the Surface and the Atmosphere and Evaluation against MODIS Products
Research & Development, consultant at EUMETSAT, Darmstadt, Germany

15:45-16:45 Poster session (I)

- 1.1 Estimation of shortwave radiation components**
- 1.2 Estimation of longwave radiation components**
- 1.3 Microwave remote sensing and soil moisture retrieval**

16:45-18:00 Measurements and analysis (Chair: Dr. M. Yoshimura)

16:45-17:00 Dr. Xin Li
Flux Observations in the Watershed Airborne Telemetry Experimental Research
Cold and Arid Regions Environmental and Engineering Research Institute,
Chinese Academy of Sciences, China

17:00-17:15 Dr. Jiemin Wang
Surface Energy Balance Closure and its Significance in the Validation of Evapotranspiration Retrieved by Remote Sensing Algorithms
Cold and Arid Regions Environmental and Engineering Research Institute,
Chinese Academy of Sciences, China

17:15-17:30 Ziwei Xu
Evapotranspiration Measurements over Different Surfaces in the Heihe River Basin
State key laboratory of Remote Sensing Science, Beijing Normal University, China

17:30-17:45 Dr. Yuri Knyazikhin
Remote Sensing of Species Composition with Multi-angle and Hyperspectral Data
Department of Geography and Environment, Boston University, USA

17:45-18:00 Dr. Mitsunori Yoshimura
Response of Tropical Rainforest to Daily Light Environmental Change
Remote Sensing Technology Center of Japan (RESTEC), Japan

18:15- 19:00 Dinner (2nd floor, Lanhui Hotel)

19:15 Bus to Laoshe Tea House at the Lanhui Hotel

March 20 (day 3)

8:30-9:00 Keynote speech by Prof. Eric Wood

Continental and Global-Scale Terrestrial Water and Energy Budgets Using Remote Sensing Observations
Princeton University, USA

9:00-10:15 ET & Drought monitoring special session (I) (Chair: Dr. Kustas)

9:00-9:15 Dr. William Kustas

A Physically-Based Drought Product Using Thermal Remote Sensing of Evapotranspiration

USDA-ARS, Hydrology and Remote Sensing Laboratory, USA

9:15-9:30 Dr. R. Fensholt

Potentials for Detecting Canopy Water Stress Using Geostationary MSG-SEVIRI Data

Dept. of Geography and Geology, University of Copenhagen, Denmark

9:30-9:45 Prof. Inge Sandholt

Combining Multi Resolution Satellite Data for Assessment of Surface Water Stress-the Triangle Method Applied to MODIS and Geostationary MSG-SEVIRI Data

Department of Geography and Geology, University of Copenhagen, Denmark

9:45-10:00 Lichun Wang

SEBS For ILWIS: A Multi-Stage Tool for Surface Energy Balance Estimates in an Open Source Operational RS/GIS Environment

International Institute for Geo-Information Science and Earth Observation (ITC), Netherlands

10:00-11:15 Poster session (II)

2.1 Estimation of evapotranspiration and energy budget components

2.2 Modeling, inversion and applications

11:15-12:30 ET & Drought monitoring special session (II) (Chair: Dr. B. Kustas)

11:15-11:30 Dr. Kaicun Wang

Simple Methods to Estimate Global Evapotranspiration from Satellite Visible and Thermal Infrared Observations and its Long-Term Trend from 1982-2002

Department of Geography, University of Maryland, USA

11:30-11:45 Prof. Assefa Mekonnen Melesse

Energy Flux and Surface Parameters in an Urban-Agriculture-Wetland Interfaced Area: the Case of South Florida

- Department of Environmental Studies, Florida International University, USA
- 11:45-12:00 Prof. Yuanbo Liu
An Alternative Approach to Estimating Heat Fluxes over Land Surface: Implications for Remote Sensing Applications
 Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, China
- 12:00-12:15 Dr. E. Rubio
Evapotranspiration in a Post-Fire Regenerated Mediterranean Holm Oak Forest
 Instituto de Desarrollo Regional (IDR), University of Castilla-La Mancha, Spain
- 12:15-12:30 Dr. John H Prueger
Long-term Eddy Covariance Monitoring of Evapotranspiration in a Semi-Arid Region over a Mesquite and Desert Grass Surface
 USDA-ARS National Soil Tilth Laboratory, USA
- 12:30-14:00 Lunch (2nd floor, Lanhui Hotel)
- 14:00– 15:30 Landflux Special Session (Chair: Dr. E. Wood)**
- 14:00-14:15 Dr. Bernard Pinty
Retrieving Essential Climate Variables over Land from Operational Surface Albedo Products
 Global Environment Monitoring Unit, IES, EC Joint Research Centre, Italy
- 14:15-14:30 Prof. Assefa Mekonnen Melesse
Energy Fluxes as Function of Topography, Land Management and Landscape Features Under Different Latitudes
 Department of Environmental Studies, Florida International University, USA
- 14:30-14:45 Dr. Andrew Nichols French
Estimation of Spatial and Temporal Changes in Land Surface Emissivity to Improve Modeling of Evapotranspiration
 USDA/ARS, Maricopa, Arizona, USA
- 14:45-15:00 Dr. Justin Sheffield
Development of a Long-Term Evapotranspiration Product for Mexico from Remote Sensing
 Dept. Civil and Environmental Engineering, Princeton University, USA.
- 15:00-15:15 Dr. Hongbo Su
Examination of the Spatio-Temporal Pattern of the Surface Heat Fluxes for China Based on the GSWP2 Dataset
 Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, China
- 15:15-15:30 Jun Xiong
Estimation and Validation of Land Surface Evaporation Using Remote Sensing in North China
 Institute of Remote Sensing Applications, Chinese Academy of Sciences, China

15:30-15:45 Break

15:45-16:15 Keynote speech by Dr. Wade Crow

Enhanced Surface Water and Energy Flux Calculation through the Integration of Thermal Remote Sensing Retrievals with Land Surface Models
USDAARS Hydrology and Remote Sensing Laboratory, USA

16:15-17:15 Data assimilation (Chair: Dr. B. Pinty)

16:15-16:30 Tongren Xu

Estimation of Sensible and Latent Heat Flux by Assimilating MODIS LST Products
State Key Laboratory of Remote Sensing Science, Beijing Normal University, China

16:30-16:45 Shihua Li

Assimilation of Flux Data into a Primary Production Model
Institute of Geo-spatial Information and Technology, University of Electronic Science and Technology of China, China

16:45-17:00 Shenglei Zhang

Experiments of Land Surface Soil Moisture Data Assimilation System Based on Ensemble Kalman Filter, the Microwave Complex Land Emissivity Model and the Community Land Model

State Key Laboratory of Remote Sensing Science, Institute of Remote Sensing Applications of Chinese Academy of Sciences and Beijing Normal University, China

17:00-17:15 Dr. Fausto Baroncini

Sub-Optimal Ensemble Filters and Distributed Hydrologic Modeling: A New Challenge in Flood Forecasting

Civil and Environmental Engineering Department, University of Florence, Italy

17:15-18:00 Closing Ceremony (Chair: Dr. S. Liang)

Distribution of photos

Distribution of CD with presentations

Discussion of action items

Discussion of the special issue publication

18:30 Dinner (2nd floor, Lanhui Hotel)

POSTER SESSION (1)

1.1 Estimation of shortwave radiation components

Guanghai Huang

Study on the Estimation of Net Surface Shortwave Radiation by MODIS Data

State key Laboratory of Remote Sensing Science, School of Geography Beijing Normal University, China

Li Wang

Distributed Modeling of Direct Solar Radiation of Rugged Terrain over Yangtze River Basin

School of Remote Sensing of Nanjing University of Information Science and Technology

La Qi

Effect of Canopy Structural Parameters on Vertical Photosynthetically Active Radiation (PAR) Distribution

National Engineering Research Center for Information Technology in Agriculture, Beijing, China

Ji Liang

Analysis and Reflectivity Inversion from Hyperion Hyperspectral Image

Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences

Dr. Ning Lu

Estimation of Downward Surface Shortwave Radiation over China from GMS 5 Visible Imagery

Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China

Dr. Ning Lu

The Influence of El Niño upon Surface Shortwave Radiation Forcing over China

Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China

Dr. Wenguang Liang

Analysis of Radiance Fluxes of Different Land Cover in Poyang Lake Wetland

College of Resources and Environment, Graduate University of Chinese Academy of Sciences, China

Jing Zheng

Study on Improvement of Sunshine Based Daily Global Radiation Model in China.

Guangdong Climate Centre, Guangzhou, China

S. R. Proud

Methods for the Correction of Bidirectional Reflectance Uncertainties Present in Meteosat

Second Generation Data

University of Copenhagen, Copenhagen, Denmark

Dr. Kaishan Song

Seasonal Net Radiation (Rn) Characterization and Its Response to Landuse/Cover in Northeast China

Northeast Institute of Geography and Agricultural Ecology, CAS, China

Xiaotong Zhang

A Climatological Analysis of MODIS Global Land Surface Shortwave Broadband Albedo

Department of Geography, University of Maryland, USA

Gaoli Su

A Solar Radiation Model with High Spatial and Temporal Resolution from Multi-Sensor Remote Sensing Data

State Key Laboratory of Remote Sensing Science, Institute of Remote Sensing Applications, Chinese Academy of Sciences, China

Ling Chen

A Geometric-Optical Bidirectional Reflectance Model of Row Crops to Analyze FOOTPRINT UNCERTAINTIES in Ground-based Measurements

State Key Laboratory of Remote Sensing Science, Beijing Normal University, China

Dr. Chunyan Zhou

Spectral Characteristic of Full Wave Band Measured by ASD Fieldspec Prospektoradiometers and D&P Model 102 Portable Field Spectrometer

State Key Laboratory of Remote Sensing Science, Jointly Sponsored by the Institute of Remote Sensing Applications of Chinese Academy of Sciences and Beijing Normal University, China

Sheng Gui

Validation of Three Satellite-Estimated Downward Shortwave Radiation Datasets over Land Surface

School of Resource and Environmental Science, Wuhan University, China

Prof. Suoquan Zhou

Investigating Long-Term Variations in Solar Irradiance in the Jiangxi Province, China

Key Laboratory of Meteorological Disaster of Jiangsu Province, Nanjing University of Information and Science Technology, China

Dr. Ronggao Liu

Estimation of Daily Land Surface Albedo Based on Historical Long-Term MODIS Data Record

Institute of Geographic Sciences and Natural Resources Research, CAS, China

1.2 Estimation of longwave radiation components

Dr. Guoyin Cai

Artificial Neural Network Based Atmospheric Temperature Determination from Remotely Sensed Data

Beijing University of Civil Engineering and Architecture, Beijing

Mads Olander Rasmussen

Modeling the Angular Dependency of Land Surface Temperatures Derived from the SEVIRI Instrument Onboard Meteosat Second Generation Satellites over the African Continent.

Department of Geography and Geology, University of Copenhagen, Denmark.

Dr. Huaguo Huang

Thermal Infrared Hot Spot Effect of Crop Canopy: A Realistic Simulation Approach

Key Laboratory for Silviculture and Conservation of Ministry of Education, Beijing Forestry University

Xiaoning Song

Scaling Effect Study on Land Surface Temperature Quantitative Inversion Using Remote Sensing

College of Resources and Environment, Graduate University of Chinese Academy of Sciences

Dr. Jie Cheng

Modeling Snow Thermal Infrared Spectral Emissivity with Modern Radiative Transfer Theory

State Key Laboratory of Remote Sensing Sciences, Jointly Sponsored by Chinese Academy of Sciences and Beijing Normal University

Dr. Yubao Qiu

The Land Emissivities Database at AMSR-E Window Frequencies

Laboratory of Digital Earth Sciences, Center for Earth Observation and Digital Earth, Chinese Academy of Sciences, China

Dr. Yuli Shi

The Relationship between Directional Brightness Temperatures and Hemispherical Thermal Emission at Top-of-Atmosphere

Remote Sensing School, Nanjing University of Information Science and Technology, China

Kai Wang

Estimating and Verifying of the Land Surface Temperature Retrieved from Modis Data in Heihe Area

State Key Laboratory of Remote Sensing Science, Jointly Sponsored by the Institute of Remote Sensing Applications of Chinese Academy of Sciences and Beijing Normal University, China

Dr. Hongmei Zhao

Retrieval of Land Surface Temperature from Landsat TM Images Based on V-I-S and V-W-S

Model in Poyang Lake Area

Key Laboratory of Wetland and Watershed Research, Ministry of Education, Jiangxi Normal University, China

Dr. Wenpeng Lin

Quantitative Analysis of Urban Thermal Environmental Effect with TM+ Data

Department of Geography, Tourism College, Shanghai Normal University, China

1.3 Microwave remote sensing and soil moisture retrieval

Zhenhua Liu

Research on Improved Thermal Inertia Model for Retrieving Soil Moisture

Information of college South China Agricultural University , Guangzhou, China

Fan Yu

Study on Extracting Soil Moisture Information by Fusion of Optical and Radar Data

Graduate School of Chinese Academy of Science. Beijing, China

Prof. Zhongjun Zhang

Single Scattering Albedo and Attenuation of Corn at Multiple Microwave Frequencies and Viewing Angles

College of Information Science and Technology, Beijing Normal University, China

Dr. Jinyang Du

Estimation of Soil Moisture Using FY-3 MWRI Observations

Institute of Remote Sensing Applications, Chinese Academy of Sciences

Linna Chai

Relationships between Single Scattering Albedo under Different Frequencies and Polarizations Based on Simulated Datasets

State Key Laboratory of Remote Sensing Science, Jointly Sponsored by Beijing Normal University and the Institute of Remote Sensing Applications, Chinese Academy of Science, China

Xinhui Li

Study on Methods of Monitoring Soil Moisture by Remote Sensing in Semi-Arid Areas

College of Resources and Environment, Graduate School of Chinese Academy of Sciences

Fu Wang

Inversion Changes of Terrestrial Water Storage of Yangzte River Upper Reaches Based on GRACE Data

Institute of Geo-Spatial Information Science and Technology, University of Electronic Science and Technology of China, China

Dr. Lingmei Jiang

A Parameterized Microwave Snow Emissivity Model

State Key Laboratory of Remote Sensing Science, Beijing Normal University, China

Hong Xia

Research on the Soil Moisture Multi-Scale Remote Sensing Monitoring

College of Resource Science and Technology, Beijing Normal University, China

Yuanyuan Qi

The Influence of AMSRE-Derived Soil Moisture on RAMS-Simulated Tibetan Plateau Climate

State Key Laboratory of Remote Sensing Science, Jointly Sponsored by the Institute of Remote Sensing Applications of Chinese Academy of Sciences and Beijing Normal University, China

POSTER SESSION (2)

2.1 Estimation of evapotranspiration and energy budget components

Alessio Lattanzio

Temporal Consistency Evaluation of a Long Term Surface Albedo Datasets Generated with Meteosat Archived Images

MakaluMedia, Darmstadt, Germany

Dr. Xiaosong Zhao

Surface Energy Imbalance: An Investigation Using the Flux Variance and Surface Renewal Methods

Division of Geography Information Science, Nanjing Institute of Geography and Limnology, CAS, China

Maoshan Li

The Turbulence Characteristics of Atmospheric Surface Layer on the North Slope of Mt. Everest Region in the Spring of 2005

Cold and Arid Region Environmental and Engineering Research Institute, Chinese Academy of Sciences, Lanzhou, China

Jing Tian

Estimation of Terrestrial Surface Heat Flux Using a Modified Two-Layer Model in the Heihe River Basin, Northwestern China

Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences

Wenzhong Wang

Comparison of Evapotranspiration Estimation with Hydrological and Meteorological Model in a Semi-Arid Region

Department of Geographical Information Science, Hohai University

Dr. Kaicun Wang

On the Effect of Water Vapor Deficit on Evapotranspiration

Department of Geography, University of Maryland, U.S.

Jia Du

Evapotranspiration Estimation Based on MODIS Products in Sanjiang Plain, Northeastern China
Northeast Institute of Geography and Agricultural Ecology, Chinese Academy of Sciences

Kaishan Song

Comparison Study on Mapping of ET in the Low Murrumbidgee Catchment with Remotely Sensed Satellite Data: Examples from National Airborne Field Experimentation

Northeast Institute of Geography and Agricultural Ecology, CAS, China

Dr. Lihong Zeng

Spatial Mapping of Actual Evapotranspiration with MODIS Products and Landsat TM Data in the Songnen Plain during the Growing Season

Northeast Institute of Geography and Agricultural Ecology, CAS, China

Bin Li

Modeling Evapotranspiration with Two Different Models Using Remote Sensing Data

Graduate School of the Chinese Academy of Sciences, China

Dr. Yani Liu

Study on Heterogeneity of Regional Evapotranspiration Retrieved by Satellite Sensors

State Key Laboratory of Remote Sensing Science, Institute of Remote Sensing Applications, Chinese Academy of Sciences, China

Prof. J. A. Sobrino

A Methodology to Estimate Daily Evapotranspiration from AHS Data: Application to the AGRISAR and CEFLES2 Campaigns

Global Change Unit, Imaging Processing Laboratory, University of Valencia, Spain

Bin Li

Estimates of Evapotranspiration Using Two-Source Energy Balance (TSEB) and a Distributed Hydrological Model

Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, China

Prof. Chenglin Liu

Crop Drought Monitoring Using MODIS Data in Poyang Lake Watershed

The Key Lab. of Poyang Lake Environment and Resource Utilization, China

Prof. Xiaozhou Xin

Estimation of Soil and Vegetation Heat Fluxes Using the Two-Layer Model and Radiometric Temperatures for Partial Canopy Cover

State key laboratory of Remote Sensing Science, Institute of Remote Sensing Applications, Chinese Academy of Sciences, China

Xufeng Wang

Characteristic of Maize Land Energy Balance during Maize Growing Period

Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China

Yunpeng Wang

Simple Models for Estimating Evapotranspiration Fraction by Interpreting Trapezoid Space of

NDVI/Albedo and Day-night LST Difference: A Comparison Study

State Key Laboratory of Organic Geochemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, China

Hongbo Su

A Land Information Sensor Web (LISW) Study in Support of Land Surface Studies

Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographical

2.2 Modeling, inversion and applications

Lei Wang

Coupling Relationship between Land Surface Temperature and Urban Green Space in Urban Heat Island Studies —A Case Study in Changchun City

Northeast Institute of Geography and Agriculture Ecology, CAS, China

La Qi

Global Sensitivity of Canopy Structure Parameters on Canopy Reflectance Model in Winter Wheat

National engineering research center for information technology in agriculture, Beijing, China

Bin Ma

Estimation of Leaf Optical Properties from Satellite Observations for the Common Land Model

School of Geography, Beijing Normal University, Beijing, China

Dr. Xia Zhou

An Improved Wetland Process Model Based on AVIM and its Sensitivity Analysis

Graduate University of Chinese Academy of Sciences, China

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On the Numerical Inversion Techniques for Quantitative Remote Sensing

Institute of Geology and Geophysics, Chinese Academy of Sciences

Dr. Xiaohua Zhu

Scale Transformation of Remote Sensing Image Based on Fractal Theory

Graduate School of Chinese Academy of Sciences

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Research on Estimation Wheat Leaf Area Index Based on Data Assimilation Using Ensemble Kalman Filter

National Engineering Research Center for Information Technology in Agriculture, Beijing, China

Marc-Etienne Ridler

General Purpose Land-Surface Data Assimilation Framework.

Department of Geography and Geology, University of Copenhagen, Denmark

Prof. Rong Liu

A New Method for Image Fusion Based on Multi-Resolution Wavelet Decomposition

East China Institute of Technology, China

Prof. Hua Yang

Error Analysis of SAIL Model and Application

Beijing Key Laboratory of Environmental Remote Sensing and Digital City, State Key Laboratory of Remote Sensing Science Jointly Sponsored by Beijing Normal University and the Institute of Remote Sensing Applications of CAS, China

Dr. Donghui Xie

Extending the Radiosity Method for Non-Lambertian Environment

State Key Laboratory of Remote Sensing Science, Jointly Sponsored by Beijing Normal University and the Institute of Remote Sensing Applications, CAS. China

Dr. Donghui Xie

Modeling the Polarized Reflectance of Leaf

State Key Laboratory of Remote Sensing Science, Jointly Sponsored by Beijing Normal University and the Institute of Remote Sensing Applications, CAS, China

Xin Tao

A Model for Instantaneous and Daily FAPAR Retrieval

Institute of Remote Sensing and GIS, Peking University, China

Arindam Samanta

Collection 5 MODIS LAI/FPAR Products

Boston University Department of Geography and Environment, USA

Sangram Ganguly

Long-term Earth System Data Record of Vegetation Leaf Area Index from Multiple Satellite-Borne Sensors: Evaluation and Validation

Department of Geography and Environment, Boston University, USA

Dr. Shenglei Zhang

Experiments of Satellite Data Simulation Based on the Community Land Model

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Peng Guo

Merging the SST Products Derived from Multiple Remote Sensors: A Bayesian Hierarchical Modeling Method

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Dr. Liangyun Liu

Detection of Vegetation LUE Based on Chlorophyll from Hyperspectral Data
Center for Earth Observation and Digital Earth, CAS, China

Qinghua Ye

Lake Ice Monitoring from Surface Reflection, Temperature and Emissivity by MODIS Data in Namco on the Tibetan Plateau

Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS), China

Yang Wang

Modeling the Land Surface Energy Balance Model of Heihe River Basin with STELLA and Applications in Spatial Modeling Environment

Cold and Arid Regions Environmental and Engineering Research Institute, China

Megumi Yamashita

Ground Based Observation of Sky Conditions for Understanding the Properties of the Direct And Diffuse Pars

Survey College of Kinki, Japan