

LANDFLUX Assessment and Organization Workshop

Each day begins at 0930 and ends at 1800. Coffee breaks will be from 1100-1130 and 1600-1630. Lunch will be from 1300-1430.

- Day 1, Session 1A: Overviews of Key Land Science Issues
W. Rossow: “Key Land Science Issues for GEWEX”
J. Roads: “Budget Evaluations of GLDAS and Reanalysis Fluxes”
Y. Kerr: “Overview of SMOS Mission”
- Day 1, Session 1B: Overview of ISLSCP, GSWP and ILEAPS activities
F.Hall: “ISLSCP”
A. Pitman: “GLASS/GSWP2”
P. Kabat/A. Russell: “ILEAPS”
- Day 1, Session 2A: Methods for Determining Surface Turbulent Fluxes
E. Wood: “Comparison of ET Retrieval Algorithms over the Mississippi Basin and Implications for LANDFLUX”
B.Lin: “ET Flux Estimates Using Combined Satellite Measurements”
Discussion about Possible Flux Estimation Methodologies
- Day 1, Session 2B: In situ measurements of surface turbulent fluxes
P. de Rosnay: “AMMA Land Surface Flux Estimates over West Africa: From Field Measurement Networks to Integrated Land Surface Modeling Approaches”
T. Koike (Roads): “CEOP Datasets”
Discussion about Verification of Results
- Day 2, Session 3A: Interaction of the Land Surface and Atmosphere
A. Beljaars: “Surface Fluxes over Land in ERA-40”
S. Seneviratne: “Land-atmosphere coupling, climate change and extreme events”
Discussion about Atmospheric Processes and Land Hydrology
- Day 2, Session 3B: Land Hydrology, Vegetation and Latent Heat Fluxes
P. Houser: "Improving Modeled Land Fluxes through Observational Constraints"
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P. Viterbo
Discussion of Observational Needs of Various Research Communities
- Day 2, Session 4A: Land surface modeling issues
M. Rodell: “Land Fluxes Simulated by NASA’s Global Land Data Assimilation System”

D. Entekhabi: "Mapping of Surface Turbulent Flux, Evaporative Fraction and Flux Roughness Length Scale Using Sequential Assimilation of Thermal Remote Sensing Observations"

M. Bosilovich: "Land Surface Fluxes in Coupled Land/Atmosphere Analysis Systems"

Day 2, Session 4B: Land surface modeling issues

A. Boone: "AMMA Land Surface Model Intercomparison Project (ALMIP): Construction of Multi-Model Surface Flux Climatology"

F. Papa: "Multi-Satellite Remote Sensing of Global Inundated Surfaces over a Decade"

Y. Zhang: "Diurnal Variations of Skin-Air Temperature Differences"

Day 3, Session 5A: Land Skin-Air Temperatures, LW Radiative and Sensible Heat Fluxes

C. Prigent: "Surface Skin Temperatures Observed from Combined IR and Microwave Satellite Measurements"

X. Zeng: "Treatment of Land Skin Temperature, LW Radiative and Sensible Heat Fluxes in Land Models"

S. Gupta (Stackhouse): "Computation of Surface Longwave Fluxes – Effect of Skin-Air Temperature Differences"

Day 3, Session 5B: Soil Moisture, Vegetation and Latent Heat Fluxes

E. Njoku: "Long-term Passive Microwave Observations of Soil and Vegetation Water Variability"

Y. Kerr: "Soil Moisture Retrieval from Satellite Data"

C. Prigent: "Toward New Satellite Methodologies to Estimate Land Surface Variables: Soil Moisture as an Example"

Day 3, Session 6A: Land Albedo and SW Radiative Fluxes

G. Schaepman: "Standardizing Terminology and Description of Satellite-derived Land Surface Albedo Products"

J-L. Roujean: "Recent Advances in Albedo Generation from European Satellite Sensors (POLDER, Vegetation, MSG)"

Y. Zhang: "Factors Affecting the Direct/Diffuse SW Flux Ratio"

Day 3, Session 6B: Land Albedo and SW Radiative Fluxes

C. Schaaf: "MODIS Reflectance Anisotropy and Albedo"

E. Vermote (Schaaf): "Atmospheric Correction in the Reflective Domain of MODIS and AVHRR Data: Uncertainties Analysis and Evaluation of AERONET Sites"

B. Pinty: "Exploitation of MODIS and MISR Surface Albedos in Support of SVAT Models"

Day 4, Session 7A: What's Next? What Needs to be Done? How Should it be Done?
How do we Obtain a Land Surface Turbulent Flux Product?