

KEVIN P. TU

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RESEARCH INTERESTS

My research interests center on global plant physiology, on quantifying and understanding the spatial and temporal patterns of plant function that drives ecosystem metabolism, adaptations and responses to environmental conditions related to weather, soils, and biodiversity, and the role of plant-atmosphere interactions in the global cycles of carbon, water and energy. I focus on satellite remote sensing of photosynthesis and transpiration and methods of scaling from leaf to globe. This involves an interdisciplinary approach that combines physiology, meteorology, remote sensing, and modeling.

EDUCATION

Ph.D., University of New Hampshire, remote sensing of plant and ecosystem physiology (2000)

B.A., University of California, Santa Cruz, biology and oceanography (1992)

POSITIONS HELD

Independent Scientist, Theiss Research, 2013–present (remote sensing, evapotranspiration)

Research Scientist, DuPont-Pioneer, Johnston, Iowa, 2011–present (plant phenotyping, remote sensing, image analysis)

Program Coordinator, Biogeosphere-Atmosphere Stable Isotope Network, Department of Integrative Biology, University of California, Berkeley, 2005–2011 (collaboration and synthesis activities among ecologists, hydrologist and atmospheric scientists)

Associate Research Specialist, Department of Integrative Biology, University of California, Berkeley, 2005–2011 (stable isotopes, partitioning leaf and ecosystem fluxes)

Postdoctoral Researcher, Department of Integrative Biology, University of California, Berkeley, 2000–2005 (stable isotopes, canopy gas exchange, drought impacts)

Research Forester, Department of Natural Resources, University of New Hampshire, 1996–2000 (eddy covariance, ecosystem fluxes, AmeriFlux QA/QC)

Research Assistant, Complex Systems Research Center, University of New Hampshire, 1996 (remote sensing, GIS, land cover classification)

Research Assistant, Complex Systems Research Center, University of New Hampshire, 1995–1996 (canopy gas exchange, wetland trace gas fluxes)

Teaching Assistant, Department of Biological Sciences, University of New Hampshire, 1993–1995 (introductory biology laboratory courses)

PROFESSIONAL ACTIVITIES

Committees

Panel Member, National Science Foundation IGERT, San Francisco, CA, 2007.

Invited Participant, National Ecological Observatory Network RFI Workshop, EROS Data Center, Sioux Falls, SD, 2006.

Invited Participant, Consortium of Universities for the Advancement of Hydrologic Science, Synthesis Summer Institute, Vancouver, Canada, 2009.

Co-chair, Biogeosciences Program Committee, AGU Fall Meeting, San Francisco, CA, 2005–2007.

Conferences

Co-organizer, The Roles of Stable Isotopes in Water Cycle Research, Keystone, CO, 2011.

Co-organizer, ISOCOMPOUND 2009, Potsdam, Germany, 2009.

Co-organizer, ISOSCAPES: Mapping Stable Isotopes and Its Applications, Santa Barbara, CA, 2008.

Co-organizer, Optical Stable Isotope Measurements in BASIN, Berkeley, CA, 2008.

Special Sessions

Co-convenor, Stable Isotope Fluxes in Carbon and Water Cycles of Terrestrial Ecosystems, AGU Fall Meeting, 2010.

Co-convenor, Understanding Atmospheric and Terrestrial Hydrological Cycles with Isotopes in Water, AGU Fall Meeting, 2010.

Co-convenor, Adaptation of Vegetation to Global Change, AGU Fall Meeting, San Francisco, CA, 2010.

Co-convenor, Adaptation of Vegetation to Changes in Environmental Forcing, AGU Fall Meeting, SF, CA, 2009.

Co-convenor, Stable Isotopes in Terrestrial Biogeosciences, AGU Fall Meeting, San Francisco, CA, 2009

Co-convenor, Isotope Tracers of Biosphere-Atmosphere Interactions, AGU Fall Meeting, San Francisco, CA, 2008.

Co-convenor, Investigation of Carbon and Water Cycle Processes Using Isotopes, AGU Fall Meeting, San Francisco, CA, 2007.

Co-convenor, Stable Isotopes in Soil-Plant-Atmosphere Interactions, AGU Fall Meeting, San Francisco, CA, 2005.

GRANTS

Bridging the gap between MODIS and FLUXNET: Validation of new high spatial resolution satellite-based estimates of evapotranspiration using FLUXNET observations, Principal Investigator, with JB Fisher (Co-PI, Jet Propulsion Laboratory), NASA ROSES Terrestrial Hydrology Program, \$409,122, 2013-2016.

A synergistic approach of using fluxes, isotopes and models to partition plant and soil contributions to ecosystem exchange of CO₂ and H₂O, Author, with TE Dawson (PI, UC Berkeley), DD Baldocchi (Co-PI, UC Berkeley), National Science Foundation, Ecosystem Studies, \$586,090, 2003-2006.

The effects of rainfall variability on carbon sequestration and ecosystem-atmosphere CO₂ exchange in a California grassland, Author, with TE Dawson (PI, UC Berkeley), Department of Energy, National Institute of Global Environmental Change, \$270,000, 2003-2006.

Research and Engineering Apprenticeship Program (REAP), US Army Educational Outreach Program, Juneau Icefield Research Program (JIRP), 1987.

TEACHING EXPERIENCE

Guest Lecturer, Biometeorology, University of California, Berkeley, 2005.

Guest Lecturer, Methods in Ecology and Environmental Biology, University of California, Berkeley, 2003.

Graduate Student Instructor, Principles of Biology, University of New Hampshire, 1993-1995.

REVIEWER - JOURNALS

Agricultural and Forest Meteorology

Ecography

Ecology

Environmental Modelling and Software

Geoscientific Model Development

Global Biogeochemical Cycles

Global Change Biology

Geophysical Research Letters

Global Ecology and Biogeography

Hydrology and Earth System Sciences

Hydrological Sciences

Journal of Applied Meteorology and Climatology

Journal of Ecology

Journal of Geophysical Research-Biogeosciences

Journal of Hydrology

Journal of Hydrometeorology

Journal of the Meteorological Society of Japan

Plant and Soil

Rapid Communications in Mass Spectrometry

Remote Sensing

Remote Sensing of Environment

Surveys in Geophysics

Tree Physiology

Trends in Ecology and Evolution

REVIEWER - PROPOSALS

Centre for Environmental Research (CMF)-Sweden

Department of Energy (DOE)

National Institute of Water Resources (NIWR)

National Science Foundation (NSF)

PROFESSIONAL MEMBERSHIPS

American Geophysical Union (AGU)

Ecological Society of America (ESA)

European Geosciences Union (EGU)

PEER-REVIEWED PUBLICATIONS

Fisher JB, F Melton, E Middleton, C Hain, M Anderson, R Allen, MF McCabe, S Hook, D Baldocchi, PA Townsend, A Kilic, **K Tu**, DD Miralles, J Perret, J-P Lagouarde, D Waliser, AJ Purdy, A French, D Schimel, JS Famiglietti, G Stephens, EF Wood. (2017), *The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources*, Water Resour. Res., 53, 2618–2626, doi:10.1002/2016WR020175.

Badgley, G., Fisher, J.B., Jiménez, C., **Tu, K.P.**, Vinukollu, R., 2015. *On uncertainty in global terrestrial evapotranspiration estimates from choice of input forcing datasets*. Journal of Hydrometeorology 16(4): 1449-1455.

Mallick, K., Jarvis, A.J., Boegh, E., Fisher, J.B., Drewry, D.T., **Tu, K.P.**, Hook, S.J., Hulley, G., Ardö, J., Beringer, J., Arain, A., Niyogi, D., 2014. *A Surface Temperature Initiated Closure (STIC) for surface energy balance fluxes*. Remote Sensing of Environment 141: 243-261.

Mallick K, Jarvis A, Fisher JB, **Tu KP**, Boegh E, Niyogi D. 2013. *Latent heat flux and canopy conductance based on Penman-Monteith, Priestley-Taylor equation and Bouchet's complementary hypothesis: validation over multiple biomes*. Journal of Hydrometeorology.

- Marshall, M., **K. Tu**, C. Funk, J. Michaelsen, P. Williams, C. Williams, J. Ardö, B. Marie, B. Cappelaere, A. Grandcourt, A. Nickless, Y. Nouvellon, R. Scholes, and W. Kutsch. 2013. *Improving operational land surface model canopy evapotranspiration in Africa using a direct remote sensing approach*. Hydrology and Earth System Sciences, 17, 1079-1091, doi:10.5194/hess-17-1079-2013.
- Polhamus A, Fisher JB, **Tu KP**. 2013. *What controls the error structure in evapotranspiration models?* Agriculture and Forest Meteorology, 169: 12-24.
- Simonin KA, Roddy AB, Link P, Apodaca R, **Tu KP**, Hu J, Dawson TE, Barbour MM. 2013. *Isotopic composition of transpiration and rates of change in leaf water isotopologue storage in response to environmental variables*. Plant, Cell and Environment, 05/2013; DOI:10.1111/pce.1212.
- Jiménez, C., Prigent, C., Mueller, B., Seneviratne, S.I., McCabe, M.F., Wood, E.F., Rossow, W.B., Balsamo, G., Betts, A.K., Dirmeyer, P.A., Fisher, J.B., Jung, M., Kanamitsu, M., Reichle, R.H., Reichstein, M., Rodell, M., Sheffield, J., **Tu, K.**, Wang, K., 2011. *Global intercomparison of 12 land surface heat flux estimates*. Journal of Geophysical Research 116: D02102, doi:10.1029/2010JD014545.
- Kahmen A, Sachse D, Arndt SK, **Tu KP**, Farrington H, Vitousek PM, Dawson TE. 2011. *Cellulose $\delta^{18}O$ is an index of atmospheric demand for water in tropical plants*, Proceedings of the National Academy of Sciences, 108(5): 1981-1986.
- Kodama N, Cousins A, **Tu KP**, Barbour MM. 2011. *Spatial variation in photosynthetic carbon and isotope discrimination along leaves of Triticale (Triticum*Secale) is caused by mesophyll conductance, related to leaf anatomy*. Plant, Cell and Environment, 34(9): 1548-62
- Fisher, J.B., Malhi, Y., de Araújo, A.C., Bonal, D., Gamo, M., Goulden, M.L., Hirano, T., Huete, A.R., Kondo, H., Kumagai, T., Loescher, H., Miller, S., Nobre, A.D., Nouvellon, Y., Oberbauer, S.F., Panuthai, S., von Randow, C., da Rocha, H.R., Rouspard, O., Saleska, S., Tanaka, K., Tanaka, N., **Tu, K.P.**, 2009. *The land-atmosphere water flux in the tropics*. Global Change Biology 15: 2694-2714. (Cover article).
- Gu L, Pallardy SG, **Tu KP**, Law BE, Wullschleger SD. 2010. *Reliable estimation of biochemical parameters from C3 leaf photosynthesis-intercellular carbon dioxide response curves*, Plant, Cell and Environment 33, 1852-1874.
- Mullin LP, Sillett SC, Koch GW, **Tu KP**, Antoine ME. 2009. *Physiological consequences of height-related morphological variation in Sequoia sempervirens foliage*, Tree Physiology, 29(8): 999-1010.
- Kahmen A, Simonin K, **Tu K**, Goldsmith G, Dawson T. 2009. *The influence of species and growing conditions on the ^{18}O enrichment of leaf water and its impact on 'effective path length'*. New Phytologist, 184:619-630.
- Leuning R., Y. Q. Zhang, A. Rajaud, H. Cleugh, **K. Tu**. 2008. *A simple surface conductance model to estimate regional evaporation using MODIS leaf area index and the Penman-Monteith equation*, Water Resour. Res., 44, W10419, doi:10.1029/2007WR006562.
- Fisher JB and **Tu KP**, Baldocchi DD. 2008. *Global estimates of the land-atmosphere water flux based on monthly AVHRR and ISLSCP-II data, validated at 16 FLUXNET sites*. Remote Sensing of Environment, 112(3): 909-919.
- Kahmen A, Simonin K, **Tu KP**, Merchant A, Callister A, Siegwolf R, Dawson TE, Arndt SK. 2008. *Effects of environmental parameters, leaf physiological properties and leaf water relations on leaf water ^{18}O enrichment in different Eucalyptus species*, Plant, Cell and Environment, 31(6):738-751. (pdf).
- Dawson TE, Burgess SSO, **Tu KP**, Oliveira RS, Santiago LS, Fisher JB, Simonin KS, Ambrose AR. 2007. *Nighttime transpiration in woody plants from contrasting ecosystems*. Tree Physiology 27(4):561-575. (pdf)
- Misson L, **Tu KP**, and Goldstein AH. 2006. *Seasonality of photosynthetic parameters in a multi-specific and vertically complex forest ecosystem in the Sierra Nevada of California*, Tree Physiology, 26:729-741. (pdf)
- Tolle G, J Polastre, R Szweczyk, DE Culler, N Turner, **KP Tu**, S Burgess, TE Dawson, P Buonadonna, D Gay, W Hong. 2005. *A macroscope in the redwoods*. SenSys 2005: 51-63.
- Dawson TE, Mambelli S, Plamboeck AH, Templer PH, **Tu KP**. 2002. *Stable isotopes in plant ecology*. Annual Review of Ecology and Systematics. 3:507-59.

Falge E, Baldocchi D, Olson R, Anthoni P, Aubinet M, Bernhofer Ch, Burba G, Ceulemans R, Clement R, Dolman H, Granier A, Gross P, Grünwald T, Hollinger D, Jensen N-O, Katul G, Keronen P, Kowalski A, Lai CT, Law B, Meyers T, Moncrieff J, Moors EJ, Munger W, Pilegaard K, Rannik U, Rebmann C, Suyker A, Tenhunen J, **Tu K**, Verma S, Vesala T, Wilson K, Wofsy S. 2001a. *Gap filling strategies for defensible annual sums of net ecosystem exchange*. Agricultural and Forest Meteorology, 107: 43-69.

Falge E, Baldocchi DD, Olson RJ, Anthoni P, Aubinet M, Bernhofer Ch, Burba G, Ceulemans R, Clement R, Dolman H, Granier A, Gross P, Grünwald Th, Hollinger D, Jensen N-O, Katul G, Keronen P, Kowalski A, Lai CT, Law BE, Meyers T, Moncrieff J, Moors E, Munger JW, Pilegaard K, Rannik Ü, Rebmann C, Suyker A, Tenhunen J, **Tu K**, Verma S, Vesala T, Wilson K, Wofsy S. 2001b. *Gap filling strategies for long term energy flux data sets, a short communication*. Agricultural and Forest Meteorology. 107: 71-77.

Tu KP, Brooks PD, Dawson TE. 2001. *Using septum-capped vials with continuous-flow isotope ratio mass spectrometric analysis of atmospheric CO₂ for Keeling plot applications*. Rapid Communications in Mass Spectrometry, 15(12): 952-956.

Hollinger, DY, SM Goltz, EA Davidson, TJ Lee, **K Tu**, and HT Valentine. 1999. *Seasonal patterns and environmental control of carbon dioxide and water vapor in an ecotonal boreal forest*. Global Change Biology. 5(8):891-902.

Katul G, Hsieh C-I, Bowling D, Clark K, Shurpali N, Turnipseed A, Albertson J, **Tu K**, Hollinger D, Evans B, Offerle B, Anderson D, Ellsworth D, Vogel C, and Oren R. 1999. *Spatial variability of turbulent fluxes in the roughness sub-layer of an even-aged pine forest*. Boundary Layer Meteorology, 93:1-28.

BOOKS, CHAPTERS & REPORTS

Zeeman, M. J., **K. P. Tu**, and A. Knohl, 2011. Continuous operation of spectroscopy instruments for stable isotope analysis, Eos Trans. AGU, 92(25), 211.

West, JB, GJ Bowen, TE Dawson, **KP Tu** (editors). 2010. *Isoscapes: Understanding movement, pattern, and process on Earth through isotope mapping*, 487 pgs. Springer, Dordrecht. ISBN 978-90-481-3353-6.

Tu KP, Bowen G, Hemming D, Kahmen A, Knohl A, Lai C-T, and C Werner. 2007. Stable isotopes as indicators, tracers, and recorders of ecological change: Synthesis and outlook, In TE Dawson and R Siegwolf (eds.), *Stable Isotopes as Indicators of Ecological Change*, Elsevier Academic Press.

Tu KP and Dawson TE. 2005. Partitioning ecosystem respiration using stable isotope analyses of CO₂, In LB Flanagan, JR Ehleringer, DE Pataki (eds.), *Stable Isotopes and Biosphere-Atmosphere Interactions: Processes and Biological Controls*, Elsevier Academic Press, San Diego.

INVITED SEMINARS

Satellite Ecology: Linking Physiology and Remote Sensing For The Study Of Ecosystem Structure And Function, Sonoma State University Biology Colloquium, 2010.

On the Relationship Between Horton's Index, Priestley-Taylor's Model and Remote Sensing of Evapotranspiration, CUAHSI Synthesis Summer Institute Captstone Seminar, Vancouver, Canada, 2009.

Satellite Remote Sensing of Carbon Isotope Discrimination, ETH Zurich, Zurich, Switzerland, 2008.

Remote Sensing of Photosynthesis, Evapotranspiration and Water Use Efficiency, Max Planck Institute for Biogeochemistry, Jena, Germany, 2008.

Temporal Dynamics of Carbon Isotope Ratios in Ecosystem Respiration: From Diurnal Autotrophs to Seasonal Heterotrophs, Technical University of Munich, Freising, Germany, 2008.

Plants, Towers and Gas: Measurement and Modeling of Canopy CO₂ Exchange, University of Puget Sound Seminar Series, 2000.

CONFERENCE ABSTRACTS & PRESENTATIONS

Marshall, M.T., **Tu, K.P.**, Thenkabail, P.S. and Brown, J.F. (2016). Recent decline in crop water productivity in the United States: a call to grow "more crop per drop", American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Marshall, M.T. and **Tu, K.P.** (2016). Simulating macro-scale crop yield using an optimized light-use efficiency model, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Marshall M and **Tu K**, 2015. Light- and water-use efficiency model synergy: a revised look at crop yield estimation for agricultural decision-making, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Verma, M.; Fisher, J. B.; Mallick, K.; Ryu, Y.; **Tu, K. P.**; Kobayashi, H.; Guillaume, A.; Moore, G.; Ramakrishnan, L.; Hendrix, V. 2014. Evaluating ET and Its Components from the CMIP5 Models with New, Global Remote Sensing-Based Estimates, American

Geophysical Union, Fall Meeting, San Francisco, California, USA.

Marshall MT, **Tu K**, Funk C, Michaelsen J., 2010. A Historical Record of Actual Evapotranspiration in Sub-Saharan Africa using Climate Reanalysis and Remote Sensing Data, 24th Conference on Hydrology, American Meteorological Society.

Tu KP, 2010. An Ecophysiological Model for Remote Sensing of GPP, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Apodaca, R. L.; Simonin, K. A.; **Tu, K. P.**; Cohen, R. C.; Dawson, T. E. 2009. The evolution of capturing reliable isotopic water vapor signatures: An intercomparison of measurement techniques, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Dawson, T. E.; **Tu, K. P.**, 2009. Partitioning Respiration Between Plant and Microbial Sources Using Natural Abundance Stable Carbon Isotopes, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Fisher, J.B., Armanios, D., **Tu, K.P.**, 2009. Global evapotranspiration from remote sensing driven by SRB, AIRS and MODIS, validated at 36 FLUXNET sites, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Fisher, J.B., **Tu, K.**, Armanios, D., 2009. Global evapotranspiration from remote sensing. Joint 6th International GEWEX and 2nd iLEAPS Science Conference; iLEAPS ECSW Meeting; LandFlux Meeting. Melbourne, Australia.

Kahmen A., Sachse D., Arndt S. K., **Tu K. P.**, Vitousek P., Dawson T. E. 2009. The environmental signals that CAN and CANNOT be inferred from $\delta^{18}\text{O}$ signals in plant cellulose, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Marshall, M. T.; Funk, C.; **Tu, K. P.**; Michaelsen, J. 2009. Combining Remote Sensing and Climate Reanalysis Data to Estimate Evapotranspiration in sub-Saharan Africa, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

McDowell N, Baldocchi D, Barbour M, Bickford C, Cuntz M, Hanson D, Knohl A, Powers H, Rahn T, Randerson J, Riley W, Still C, **Tu KP**, Walcroft A. 2008. Understanding the stable isotope composition of biosphere-atmosphere CO₂ exchange, Eos Trans. AGU, 89, doi: 10.1029/2008EO100002.

Tu KP, 2009. Importance of Acclimation for Modeling Canopy Photosynthesis: LAI, Amax and Optimality, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Tu KP, Knohl A, Mambelli S, Ma S, Baldocchi D, Dawson T. 2008. Observations and scaling of water use efficiency from leaf to globe. European Geophysical Union Meeting, Geophysical Research Abstracts, Vol. 10, EGU2008-A-07012.

Tu KP. 2008. Remote sensing of photosynthesis, evapotranspiration and water use efficiency, presented, Max Planck Institute for Biogeochemistry, Jena, Germany.

Tu KP. 2008. Temporal dynamics of carbon isotope ratios in ecosystem respiration, presented, Technical University of Munich, Germany.

Tu KP. 2008. Satellite remote sensing of carbon isotope discrimination, presented, ETH Zurich, Switzerland.

Tu KP. 2008. Using Optimality Principles to Predict Spatio-Temporal Patterns of Vegetation-Atmosphere Fluxes at Leaf to Global Scales, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Tu K.P., Lai C., Ehleringer J., McDowell N., Alstad K., Griffis T., Bowling D., Wingate L., Ogee J., Burlett R., Mortazavi B., Knohl A., Yakir D., Dawson T., Members B., 2008. BASIN Synthesis and Spatial Mapping of Keeling Plot Data Using an Artificial Neural Network, American Geophysical Union, Fall Meeting, San Francisco, California, USA.

Fisher, J.B., Malhi, Y., de Araújo, A.C., Bonal, D., da Rocha, H.R., Goulden, M.L., Hirano, T., Kumagai, T., Loescher, H., Miller, S., Nobre, A.D., Oberbauer, S., Saleska, S., von Randow, C., **Tu, K.P.**, 2007. The tropical land-atmosphere water flux: Measurements, models and controls for evapotranspiration in the Amazon. LBA-ECO 11th Science Team Meeting, Salvador, Bahia, Brazil.

Knohl, A.; **Tu, K. P.**; Boukili, V.; Brooks, P. D.; Mambelli, S.; Riley, W. J.; Dawson, T. E.; MIBA-Us Site Participants. 2007. MIBA-

US: Temporal and Spatial Variation of Water Isotopes in Terrestrial Ecosystems Across the United States, American Geophysical Union, Fall Meeting.

Fisher, JB, **Tu KP**. 2007. Global trends in potential and actual evapotranspiration based on 20 years of satellite observations. Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract H34D-08.

Mambelli S, **Tu KP**, Knohl A, Ma S, Baldocchi DD, Dawson TE. 2007. Water use efficiency in a blue oak (*Quercus douglasii*) savanna – a combined analysis of stable isotopes and eddy covariance, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract B33D-1594.

Tu KP, Knohl A, Mambelli S, Ma S, Baldocchi D, Dawson T. 2007. Global remote sensing of water use efficiency: Initial test and application of a synergistic approach. Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract B33D-1597.

Tu KP and Dawson TE. 2006. BASIN - Biogeosphere-Atmosphere Stable Isotope Network. AmeriFlux Annual Meeting, Boulder, Colorado, USA.

Tu KP and Fisher JB. 2006. Remote sensing of the land-atmosphere water flux: Global validation using FLUXNET data. Proceedings of the 1st iLEAPS Science Conference, Boulder, Colorado, USA.

Tu KP, Massman WJ and Ham JM. 2006. Partitioning ET between plant and soil components using surface temperature and fractional vegetation cover. AmeriFlux Annual Meeting, Boulder, Colorado, USA.

Brenner RE, **Tu KP**, Dawson TE. 2005. Linking rainfall variability with the flux and ($\delta^{13}\text{C}$) isotopic signature of ecosystem respiration, Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract B11A-0992.

Fisher JB and **Tu KP**. 2005. New global estimates of the land-atmosphere water flux: A fully remote sensing driven, flux site-validated ecophysiological model of evapotranspiration, 9th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS), Beijing, China.

Tu KP. 2005. Towards global estimates of the $\delta^{18}\text{O}$ -evapotranspiration flux: Implications of non-steady state isotopic enrichment of leaf water, presented at the BASIN Workshop, San Francisco, CA, USA.

Wood EF, MF McCabe, H Su, **K Tu**. 2005. Globally Distributed Evapotranspiration using Remote Sensing and CEOP Data. CEOP Phase 1 Achievements – Presentations at CEOP/IGWCO Joint Meeting, Tokyo.

Dawson TE, Culler D, **Tu KP**, et al. 2004. Beyond the footprint: emerging technologies and FluxNetworks, FLUXNET 2004 Open Workshop, Firenze, Italy.

Dawson, T., **Tu, K.**, Fisher, J.B., Baldocchi, D., 2004. Partitioning Evaporation and Transpiration Using $\delta^{18}\text{O}$ of Water. Biosphere Atmosphere Stable Isotope Network Meeting, Point Reyes, California, USA.

Dawson TE, **Tu KP**, Fisher J and Baldocchi D. 2004. Partitioning evaporation and transpiration using $\delta^{18}\text{O}$ of water, BASIN Workshop, Point Reyes, CA.

Fisher, J.B., **Tu, KP.**, 2004. Validation of MODIS-Derived Parameters with FLUXNET Measurements: Surface Temperature, Air Temperature, Fraction of Photosynthetically Absorbed Radiation, and Albedo. MODIS Vegetation Workshop II, Missoula, Montana, USA.

Su H, Wood EF, McCabe M and **Tu KP**. 2004. Model intercomparison of evapotranspiration estimation based on CEOP dataset, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract H13C-0440.

Tu KP and Fisher JB. 2004. Remote sensing of plant transpiration and soil evaporation using MODIS data, MODIS Vegetation Workshop II, Missoula, Montana.

Dawson TE, Baldocchi D and **Tu KP**. 2003. Merging eddy flux, stable isotopes, and ecosystem modeling, presented at the Biosphere-Atmosphere Stable Isotope Network Workshop, Orvieto, Italy.

Tu KP and Dawson TE. 2003. Variation in $\delta^{13}\text{C}$ abundance in respiration from different ecosystem components: Implications for flux partitioning, Eos Trans. AGU, 84(46), Fall Meet. Suppl., AbstractB31E-0351.

Tu KP. 2003. On the use of relative humidity as an index of surface energy partitioning, Berkeley Atmospheric Sciences Symposium, Berkeley, California.

Tu KP. 2002. Assessing photosynthetic capacity from canopy biophysics: A test of a generalized model using eddy flux data, Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract B12B-0826.

Tu KP and Dawson TE. 2002. Partitioning ecosystem respiration using stable carbon isotopes: a comparative approach, BASIN Workshop, Banff, Canada.

Tu KP, Dawson TE and Ponti F. 2001. Partitioning ecosystem respiration using stable carbon isotopes in a mixed annual grassland, Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract B11A-04.

Tu KP. 2000. Plants, towers and gas: measurement and modeling of canopy CO₂ exchange, presented at the University of Puget Sound Seminar Series.

Tu KP and Munger B. 1997. AmeriFlux eddy covariance software intercomparison, AmeriFlux Annual Meeting, St. Louis, Missouri.