

PUBLICATIONS

Mutiibwa, D., Albright, P. T., and Vavrus, S. 2015. Recent spatiotemporal patterns in temperature extremes across conterminous United States. *Journal of Geophysical Research*. 120, DOI: 10.1002/2015JD023598

Mutiibwa, D., Albright, P. T., and Strachan, S. 2015. Land Surface Temperature and Surface Air Temperature in Complex Terrain. *IEEE J. Sel. Top. Appl. Earth Obs. Remote Sens.* DOI: 10.1109/JSTARS.2015.2468594.

Sharma, V., Irmak, S., Kilic, A., and **Mutiibwa, D.** 2015. Application of remote sensing for quantifying and mapping surface energy fluxes in South Central Nebraska, USA: Analyses with respect to field (*Accepted in, Transactions of the ASABE*).

Mutiibwa, D., Irmak, S., and Kilic, A. 2013. Identifying the effects of anthropogenic component of LULC changes on the regional climate of the USA High Plains. *Climate* 2(3): 153-167 doi:10.3390/cli2030153

Irmak, S., **Mutiibwa, D.**, Payero, J., Marek, T., and Porter, D. 2013. Modeling soybean canopy resistance from micrometeorological and plant variables for one-step estimation of actual evapotranspiration. *Journal of Hydrology*. Vol. 507: 1-18. dx.doi.org/10.1016/j.jhydrol.2013.10.008.

Mutiibwa, D., and Irmak, S. 2012. Estimation of crop coefficients from AVHRR-based NDVI for analyzing long-term trends in evapotranspiration in relation to changing climate in the USA High Plains. *Water Resources Research*. Vol. 49(1): 231-244. Doi 10.1029/2012WR012591

Mutiibwa, D., Irmak, S. 2012. Transferability of Jarvis-Type models developed/re-parameterized for specific crops to estimate stomatal resistance for other crops: Analyses on model calibration, validation, performance, sensitivity, and elasticity. *Transactions of the ASABE*. Vol. 56(2): 409-422.

Mutiibwa, D., and Irmak, S. 2011. On the scaling up soybean leaf level stomatal resistance to canopy resistance for one-step estimation of actual evapotranspiration. *Transactions of the ASABE*. Vol. 54(1): 141-154.

Irmak, S., Odhiambo, L., and **D. Mutiibwa**. 2011. Assessing the impact of daily net radiation models on grass and alfalfa-reference evapotranspiration estimated using Penman-Monteith equation in a sub-humid and arid climate. *Journal of Irrigation and Drainage Engineering*. Vol. 137(2): 59-72.

Irmak, S., I. Kabenge, K. Skaggs, and **D. Mutiibwa**. 2011. Trend and magnitude of changes in local climate variables and reference evapotranspiration over 116-year period in the Platte River Valley, central Nebraska-USA. *Journal of Hydrology* 420-421: 228-244.

Irmak, S., and **Mutiibwa, D.** 2010. On the dynamics of canopy resistance: Generalized-linear estimation of canopy resistance and relationships with primary micrometeorological variables. *Water Resources Research* Vol. 46. W08526, doi:10.1029/2009WR008484

Irmak, S., **Mutiibwa, D.**, and J. O. Payero. 2010. Net radiation dynamics: Performance of 20 daily net radiation models as related to model structure and intricacy in two climates. *Transactions of the ASABE*. Vol. 53(4): 1059-1076.

Irmak, S., and **Mutiibwa, D.** 2009. On the dynamics of evaporative losses from Penman-Monteith with fixed and variable canopy resistance during partial and complete canopy. *Transactions of the ASABE*. Vol. 52(4): 1139-1153.

Irmak, S., and **Mutiibwa, D.** 2009. On the dynamics of stomatal and canopy resistance: Relationships between stomatal behavior and micrometeorological variables and performance of Jarvis-type parameterization. *Transactions of the ASABE*. Vol. 52(6) 1923-1939.

Irmak, S., **Mutiibwa, D.**, Irmak, A., Arkebauer, T., Weiss, A., Martin, D., and Eisenhauer, D. 2008. On the scaling up leaf stomatal resistance to canopy resistance using photosynthetic photon flux density. *Agric. For. Meteorol.*, Vol. 148: 1034-1044, DOI: 10.1016/j.agrformet.2008.02.001.

Irmak, S., and **Mutiibwa, D.** 2008. On the dynamics of photosynthetic photon flux density and light extinction coefficient in relation to assessing some radiant energy interactions for maize canopy. *Transactions of the ASABE*. Vol. 51(5): 1663-1673.