

## Publications and Reports

- Freedman, J. M. and K. E. Moore, 2012. "Wind Shear and Why It Matters". White paper published in North American Windpower. With AMS Renewables Committee. June 2012.
- Moore, K.E. and D. J. Capuano, 2008. Environmental Assessment for the Helderberg Community Wind Project, Town of Knox, Albany County, NY. Report prepared for NYSERDA.
- Perez, R., Wilcox, S.; Renné, D.; Moore, K.; Zelenka, A. (2007). "Forecasting Solar Radiation - Preliminary Evaluation of an Approach Based Upon the National Forecast Database." *Solar Energy* 81(6):809–812.
- Perez R., P. Ineichen, K. Moore, M. Kmieciak, C. Chain, R. George and F. Vignola, (2002): A New Operational Satellite-to-Irradiance Model. *Solar Energy* 73, 5, pp. 307-317.
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- Sakai, R.K., D.R. Fitzjarrald, and K. E. Moore, 2001. Importance of low-frequency contributions to eddy fluxes observed over rough surfaces. *J. Appl. Met.* 40: 2178-2192.
- Freedman, J. M., D. R. Fitzjarrald, K. E. Moore, and R. K. Sakai, 2001. Boundary layer clouds and vegetation-atmosphere feedbacks. *J. Climate* 14:180-197.
- Fitzjarrald, D. R., O. C. Acevedo, and K. E. Moore, 2001. Climatic consequences of leaf presence

in the Eastern United States. *J. Climate* 14:598-614.

Moore, K. E., and B. H. Bailey, 2002. SODAR for Wind Resource Assessment, Presented to American Wind Energy Association, June, 2002.

Moore, K. E., and D. R. Fitzjarrald, 2000. Effect of diffuse light on forest canopy CO<sub>2</sub> uptake. American Geophysical Union Spring 2000 meeting. EOS supplement S87(abstr.)

### **Presentations**

Moore, K. E. 2010. Recommended practices to achieve bankable data from SoDAR (invited) 2010 Wind Resource Assessment Workshop, American Wind Energy Association, Oklahoma City, OK.

Moore, K.E., 2010, Annualizing wind statistics from ground-based remote sensing. 19<sup>th</sup> Boundary Layers and Turbulence Meeting, American Meteorological Society, Keystone Colorado.

Moore, K. E., and L. W. Pruskowski, 2010. A Role for Remote Sensing in Community Wind Projects. Presented at Windpower 2010, American Wind Energy Association, Dallas, TX.

Moore, K..E., J.A. Henningson, and D. J. Capuano, 2009. Avian Risk Assessment for a Community Wind Project in Albany County: Empowering "Citizen Scientists" (poster). Presented at NYSERDA's Environmental Monitoring and Evaluation Program, Albany, NY October 2009.

Moore, K.E., J. A. Henningson and D. J. Capuano, 2010. Integration of NexRAD, Marine Radar, SoDAR and Conventional Anemometry for Avian Risk Assessment. Paper 7.6 in American Meteorological Society 90<sup>th</sup> Annual Meeting, Atlanta, January 2010.

Moore, K. E. and L. W. Pruskowski, 2010. A Community Wind Project in Rural Albany County, NYS. Paper J10.1 in American Meteorological Society 90<sup>th</sup> Annual Meeting, Atlanta, January 2010.

Moore, K.E. and B. H. Bailey, 2009. Sodar Measurements to Reduce Shear Extrapolation Uncertainty (poster). AWEA Wind Power 2009, Chicago, IL.

Moore, K. E. and B. H. Bailey, 2008. Turbulence, shear and stability influences on lower boundary-layer profiles. Paper 7B.4 in 18<sup>th</sup> Symposium on Boundary Layer Meteorology, Stockholm. American Meteorological Society.

Moore, K. E. and B. H. Bailey, 2007. Better Understanding of Rotor Plane Wind Profiles Using Sodar (invited). AWEA Fall Symposium, Carlsbad, CA. November, 2007.

Moore, K.E. and B. H. Bailey, 2007. Classifying Rotor Span Shear Profile Variability and Improving Wind Turbine Production Prediction. Proceedings of the American Wind Energy Association, Los Angeles, CA, June 2007.

Moore, K. E., 2007. Wind resource assessment with sodar in North America. International Energy Agency Topical Expert Meeting on State of the Art of Remote Wind Speed Sensing Techniques Using Sodar, Lidar and Satellites. Riso, Denmark.

Moore, K. E., 2006. Managing Uncertainty in Shear Estimation. (invited). AWEA Fall Symposium, December, 2006.

Moore, K. E., B. H. Bailey and D. Bernadett, 2006. Observed rotor-plane wind profiles derived from sodar measurements: potential impact on turbine power performance. Proceedings of the American Wind Energy Association, Pittsburgh, PA, June 2006.

Moore, K.E. 2005. Sodar in wind energy resource assessment: issues and answers. (invited) AWEA Fall Symposium, September, 2005.

Moore, K. E. and B. H. Bailey, 2005. Maximizing the accuracy of sodar for wind energy resource assessment. Proceedings of the American Wind Energy Association, Denver, CO. May 2005.

Moore, K. E. and B. H. Bailey, 2004. Roughness lengths in complex terrain derived from SODAR wind profiles. 16<sup>th</sup> Conference on Boundary Layers and Turbulence, Portland, ME, American Meteorological Society, [www.ametsoc.org](http://www.ametsoc.org).

Moore, K. E. and B. H. Bailey, 2002. Sodar for Wind Energy Resource Assessment. Proceedings of the American Wind Energy Association, Portland, OR.

Seminar at ASRC, January, 1999, on the use of satellite AVHRR data to scale up the surface observation data from Harvard Forest to the Northeast Region.

Moore, K. E., D.R. Fitzjarrald, R.K. Sakai, J. M. Freedman, O. Acevedo. 1997. Soil moisture and evapotranspiration in a boreal jack pine forest. (poster) 12th Symposium on Boundary Layers and Turbulence Met. pg 425.

Moore, K. E. and D. R. Fitzjarrald, 1996. Partitioning latent heat flux between tree and understory components in temperate deciduous and boreal forests. Proc. Am. Met. Soc. 22nd Conference on Ag. And Forest Meteorology, pp 21-23.

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