

Temple R. Lee, Ph.D.

Selected Publications

Buban, M. S., T. R. Lee, E. J. Dumas, C. B. Baker, and M. Heuer, 2019: **Observations of the effects of a total solar eclipse on surface and atmospheric boundary layer evolution.** *Boundary-Layer Meteorology*, 2019, 1-14, doi:10.1007/s10546-018-00421-4.

Lee, T. R. M. Buban, E. Dumas, and C. B. Baker, 2019: **On the use of rotary-wing aircraft to sample near-surface thermodynamic fields: results from recent field campaigns.** *Sensors*, 19 (1), 10, doi:10.3390/s19010010.

Grant, E. H., A. Brand, S. F. J. De Wekker, T. R. Lee, and J. E. B. Wofford, 2018: **Evidence that climate sets the lower elevation range limit in a high-elevation endemic salamander.** *Ecology and Evolution*, 8, 7553-7562, doi:10.1002/ece3.4198.

Lee, T.R., De Wekker, S.F.J. & Pal, S. (2018). **The Impact of the Afternoon Planetary Boundary-Layer Height on the Diurnal Cycle of CO and CO₂ Mixing Ratios at a Low-Altitude Mountaintop.** *Boundary-Layer Meteorol*, 168: 81. <https://doi.org/10.1007/s10546-018-0343-9>

Wulfmeyer, V., D.D. Turner, B. Baker, R. Banta, A. Behrendt, T. Bonin, W. Brewer, M. Buban, A. Choukulkar, E. Dumas, R. Hardesty, T. Heus, J. Ingwersen, D. Lange, T. Lee, S. Metzendorf, S. Muppa, T. Meyers, R. Newsom, M. Osman, S. Raasch, J. Santanello, C. Senff, F. Späth, T. Wagner, and T. Weckwerth (2018). **A New Research Approach for Observing and Characterizing Land-Atmosphere Feedback.** *Bull. Amer. Meteor. Soc.* <https://doi.org/10.1175/BAMS-D-17-0009.1>

Lee, T. R., M. Buban, M. A. Palecki, R. D. Leeper, H. J. Diamond, E. Dumas, T. P. Meyers, and C. B. Baker (2018), **Great American Eclipse data may fine-tune weather forecasts**, *Eos*, 99, <https://doi.org/10.1029/2018EO103931>. Published on 16 August 2018 <https://eos.org/project-updates/great-american-eclipse-data-may-fine-tune-weather-forecasts>

Dumas, E. J., T. R. Lee, M. Buban, and B. Baker, 2017: **Small Unmanned Aircraft System (sUAS) measurements during the 2017 Land-Atmosphere Feedback Experiment (LAFE).** *NOAA Technical Memorandum OAR ARL-277*.

Dumas, E. J., T. R. Lee, M. Buban, and B. Baker, 2017: **Small Unmanned Aircraft System (sUAS) measurements during the 2017 Verifications of the Origins of Rotation in Tornadoes Experiment Southeast (VORTEX-SE).** *NOAA Technical Memorandum OAR ARL-274*.

Lee, T. R., M. Buban, E. Dumas, and C. B. Baker, 2017: **A New Technique To Estimate Sensible Heat Fluxes Around Micrometeorological Towers Using Small Unmanned Aircraft Systems.** *Journal of Atmospheric and Oceanic Technology* 34 (9), 2103-2112, doi:10.1175/JTECH-D-17-0065.1.

Pal, S., T. R. Lee, and S. F. J. De Wekker, 2017: **A study of the combined impact of boundary layer height and near-surface meteorology to the CO diurnal cycle at a low mountaintop site using simultaneous lidar and in-situ observations.** *Atmospheric Environment* 164, 165-179, doi:<https://doi.org/10.1016/j.atmosenv.2017.05.041>.

Lee, T. R. and S. Pal, 2017: **On the potential of 25 years (1991-2015) of regular rawinsonde measurements for elucidating key climatological and spatiotemporal patterns of afternoon boundary layer depths over the contiguous US.** *Advances in Meteorology 2017*, 6841239, doi:10.1155/2017/6841239.

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Lee, T. R., S. F. J. De Wekker, and J. E. B. Wofford, 2014: **Downscaling maximum temperature projections to subkilometer resolutions in the Shenandoah National Park of Virginia, USA.** *Advances in Meteorology* 2014, 594965, doi:10.1155/2014/594965.

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