

1. Anand, A., Srivastava, P. K., Pandey, P. C., Khan, M. L., & Behera, M. D. (2022). Assessing the niche of *Rhododendron arboreum* using entropy and machine learning algorithms: role of atmospheric, ecological, and hydrological variables. *Journal of Applied Remote Sensing*, 16(04). <https://doi.org/10.1117/1.JRS.16.042402>
2. Anderson, M. C., Yang, Y. Y., Xue, J., Knipper, K. R., Yang, Y. Y., Gao, F., Hain, C. R., Kustas, W. P., Cawse-Nicholson, K., Hulley, G., Fisher, J. B., Alfieri, J. G., Meyers, T. P., Prueger, J., Baldocchi, D. D., & Rey-Sanchez, C. (2021). Interoperability of ECOSTRESS and Landsat for mapping evapotranspiration time series at sub-field scales. *Remote Sensing of Environment*, 252, 112189. <https://doi.org/10.1016/j.rse.2020.112189>
3. Baldocchi, D. D., Keeney, N., Rey-Sanchez, C., & Fisher, J. B. (2021). Atmospheric Humidity Deficits Tell Us How Soil Moisture Deficits Down-Regulate Ecosystem Evaporation. *Advances in Water Resources*, 104100. <https://doi.org/10.1016/j.advwatres.2021.104100>
4. Boser, A., Sousa, D., Larsen, A., & MacDonald, A. (2021). Micro-climate to macro-risk: mapping fine scale differences in mosquito-borne disease risk using remote sensing. *Environmental Research Letters*, 16(12), 124014. <https://doi.org/10.1088/1748-9326/ac3589>
5. Braun, R. A., & Fraser, M. P. (2022). Extreme Heat Impacts on the Viability of Alternative Transportation for Reducing Ozone Pollution: A Case Study from Maricopa County, Arizona, USA. *Weather, Climate, and Society*. <https://doi.org/10.1175/WCAS-D-21-0158.1>
6. Cawse-Nicholson, K., Anderson, M. C., Yang, Y., Yang, Y., Hook, S. J., Fisher, J. B., Halverson, G., Hulley, G. C., Hain, C., Baldocchi, D. D., Brunsell, N. A., Desai, A. R., Griffis, T. J., & Novick, K. A. (2021). Evaluation of a CONUS-Wide ECOSTRESS DisALEXI Evapotranspiration Product. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 14, 10117–10133. <https://doi.org/10.1109/JSTARS.2021.3111867>
7. Cawse-Nicholson, K., Braverman, A., Kang, E. L., Li, M., Johnson, M., Halverson, G., Anderson, M., Hain, C., Gunson, M., & Hook, S. (2020). Sensitivity and uncertainty quantification for the ECOSTRESS evapotranspiration algorithm – DisALEXI. *International Journal of Applied Earth Observation and Geoinformation*, 89, 102088. <https://doi.org/10.1016/j.jag.2020.102088>
8. Chaney, N. W., Torres-Rojas, L., Vergopolan, N., & Fisher, C. K. (2021). HydroBlocks v0.2: Enabling a field-scale two-way coupling between the land surface and river networks in Earth system models. *Geoscientific Model Development*, 14(11), 6813–6832. <https://doi.org/10.5194/gmd-14-6813-2021>
9. Chang, Y., Xiao, J., Li, X., Middel, A., Zhang, Y., Gu, Z., Wu, Y., & He, S. (2021). Exploring diurnal thermal variations in urban local climate zones with ECOSTRESS land surface temperature data. *Remote Sensing of Environment*, 263, 112544. <https://doi.org/10.1016/j.rse.2021.112544>
10. Chang, Y., Xiao, J., Li, X., Zhou, D., & Wu, Y. (2022). Combining GOES-R and ECOSTRESS land surface temperature data to investigate diurnal variations of surface urban heat island. *Science of The Total Environment*, 823, 153652. <https://doi.org/10.1016/j.scitotenv.2022.153652>
11. Chen, H., Huang, J. J., Dash, S. S., Lan, Z., Gao, J., McBean, E., & Singh, V. P. (2022). Development of a three-source remote sensing model for estimation of urban

- evapotranspiration. *Advances in Water Resources*, 161, 104126.
<https://doi.org/10.1016/j.advwatres.2022.104126>
12. Chen, X., Lee, R. M., Dwivedi, D., Son, K., Fang, Y., Zhang, X., Graham, E., Stegen, J., Fisher, J. B., Moulton, D., & Scheibe, T. D. (2021). Integrating field observations and process-based modeling to predict watershed water quality under environmental perturbations. *Journal of Hydrology*, 602, 125762.
<https://doi.org/10.1016/j.jhydrol.2020.125762>
 13. Choi, K.-K., Jhabvala, M., Jennings, D., Turck, K., La, A., Wu, D., Hewagama, T., Holmes, T., Flatley, T., Cillis, A., Fitts, Y., & Morton, D. (2021). Remote temperature sensing by the compact thermal imager from the International Space Station. *Applied Optics*, 60(33), 10390. <https://doi.org/10.1364/AO.440611>
 14. Coleman, R. W., Stavros, N., Hulley, G., & Parazoo, N. (2020). Comparison of thermal infrared-derived maps of irrigated and non-irrigated vegetation in urban and non-urban areas of southern California. *Remote Sensing*, 12(24), 1–19.
<https://doi.org/10.3390/rs12244102>
 15. Desai, A. R., Khan, A. M., Zheng, T., Paleri, S., Butterworth, B., Lee, T. R., Fisher, J. B., Hulley, G., Kleynhans, T., Gerace, A., Townsend, P. A., Stoy, P., & Metzger, S. (2021). Multi-sensor approach for high space and time resolution land surface temperature. *Earth and Space Science*, e2021EA001842.
<https://onlinelibrary.wiley.com/doi/10.1029/2021EA001842>
 16. Feldman, D. R., Worden, M., Falco, N., Denny-Frank, P. J., Chen, J., Dafflon, B., & Wainwright, H. (2022). Three-dimensional Surface Downwelling Longwave Radiation Clear-Sky Effects in the Upper Colorado River Basin. *Geophysical Research Letters*.
<https://doi.org/10.1029/2021GL094605>
 17. Fisher, J. B., Lee, B., Purdy, A. J., Halverson, G. H., Dohlen, M. B., Cawse-Nicholson, K., Wang, A., Anderson, R. G., Aragon, B., Arain, M. A., Baldocchi, D. D., Baker, J. M., Barral, H., Bernacchi, C. J., Bernhofer, C., Biraud, S. C., Bohrer, G., Brunzell, N., Cappelaere, B., ... Hook, S. (2020). ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. *Water Resources Research*, 56(4), e2019WR026058. <https://doi.org/10.1029/2019WR026058>
 18. Gustine, R. N., Lee, C. M., Halverson, G. H., Acuna, S. C., Cawse-Nicholson, K. A., Hulley, G. C., & Hestir, E. L. (2022). Using ECOSTRESS to Observe and Model Diurnal Variability in Water Temperature Conditions in the San Francisco Estuary. *IEEE Transactions on Geoscience and Remote Sensing*, 60, 1–10.
<https://doi.org/10.1109/TGRS.2021.3133411>
 19. Hamberg, L. J., Fraser, R. A., Robinson, D. T., Trant, A. J., & Murphy, S. D. (2020). Surface temperature as an indicator of plant species diversity and restoration in oak woodland. *Ecological Indicators*, 113, 106249.
<https://doi.org/10.1016/j.ecolind.2020.106249>
 20. Hook, S. J., Cawse-Nicholson, K., Barsi, J., Radocinski, R., Hulley, G. C., Johnson, W. R., Rivera, G., & Markham, B. (2020). In-Flight Validation of the ECOSTRESS, Landsats 7 and 8 Thermal Infrared Spectral Channels Using the Lake Tahoe CA/NV and Salton Sea CA Automated Validation Sites. *IEEE Transactions on Geoscience and Remote Sensing*, 58(2), 1294–1302. <https://doi.org/10.1109/TGRS.2019.2945701>
 21. Hubbard, B. E., Hooper, D. M., Solano, F., & Mars, J. C. (2018). Determining mineralogical variations of aeolian deposits using thermal infrared emissivity and linear

- deconvolution methods. *Aeolian Research*, 30, 54–96.
<https://doi.org/10.1016/j.aeolia.2017.12.001>
22. Hulley, G. C., Gottsche, F. M., Rivera, G., Hook, S. J., Freepartner, R. J., Martin, M. A., Cawse-Nicholson, K., & Johnson, W. R. (2021). Validation and Quality Assessment of the ECOSTRESS Level-2 Land Surface Temperature and Emissivity Product. *IEEE Transactions on Geoscience and Remote Sensing*.
<https://doi.org/10.1109/TGRS.2021.3079879>
 23. Hulley, G., Shivers, S., Wetherley, E., & Cudd, R. (2019). New ECOSTRESS and MODIS land surface temperature data reveal fine-scale heat vulnerability in cities: A case study for Los Angeles County, California. *Remote Sensing*, 11(18), 2136.
<https://doi.org/10.3390/rs11182136>
 24. Jaafar, H., Mourad, R., & Schull, M. (2022). A global 30-m ET model (HSEB) using harmonized Landsat and Sentinel-2, MODIS and VIIRS: Comparison to ECOSTRESS ET and LST. *Remote Sensing of Environment*, 274, 112995.
<https://doi.org/10.1016/j.rse.2022.112995>
 25. Jagdhuber, T., Jonard, F., Fluhner, A., Chaparro, D., Baur, M. J., Meyer, T., & Piles, M. (2022). Toward estimation of seasonal water dynamics of winter wheat from ground-based L-band radiometry: a concept study. *Biogeosciences*, 19(8), 2273–2294.
<https://doi.org/10.5194/bg-19-2273-2022>
 26. Javadian, M., Smith, W. K., Lee, K., Knowles, J. F., Scott, R. L., Fisher, J. B., Moore, D. J. P., Leeuwen, W. J. D., Barron-Gafford, G., & Behrangi, A. (2022). Canopy Temperature Is Regulated by Ecosystem Structural Traits and Captures the Ecohydrologic Dynamics of a Semiarid Mixed Conifer Forest Site. *Journal of Geophysical Research: Biogeosciences*, 127(2). <https://doi.org/10.1029/2021JG006617>
 27. Jennings, D. E., Jhabvala, M. D., Tucker, C. J., Lunsford, A. W., La, A. T., Flatley, T. P., Choi, K. K., Wu, D. L., Morton, D. C., Holmes, T. R., Fitts, Y., Cappelaere, P. G., Cillis, A. N., Turck, K. A., & Hewagama, T. (2022). Compact thermal imager: a flight demonstration of infrared technology for Earth observations. *Applied Optics*, 61(14), 4215. <https://doi.org/10.1364/AO.450442>
 28. Johnston, M. R., Andreu, A., Verfaillie, J., Baldocchi, D., & Moorcroft, P. R. (2022). What lies beneath: Vertical temperature heterogeneity in a Mediterranean woodland savanna. *Remote Sensing of Environment*, 274, 112950.
<https://doi.org/10.1016/j.rse.2022.112950>
 29. Kamaraj, N. P., Shekhar, S., Sivashankari, V., Balasubramani, K., & Prasad, K. A. (2021). Detecting heat-inducing urban built-up surface material with multi remote sensing datasets using reflectance and emission spectroscopy. *Remote Sensing of Environment*, 264, 112591. <https://doi.org/10.1016/j.rse.2021.112591>
 30. Kohli, G., Lee, C. M., Fisher, J. B., Halverson, G., Variano, E., Jin, Y., Carney, D., Wilder, B. A., & Kinoshita, A. M. (2020). Ecostream and cimis: A comparison of potential and reference evapotranspiration in Riverside County, California. *Remote Sensing*, 12(24), 1–12. <https://doi.org/10.3390/rs12244126>
 31. Krishnamurthy R, P. K., Fisher, J. B., Schimel, D. S., & Kareiva, P. M. (2020). Applying Tipping Point Theory to Remote Sensing Science to Improve Early Warning Drought Signals for Food Security. *Earth's Future*, 8(3), 1–14.
<https://doi.org/10.1029/2019EF001456>

32. Li, K., Guan, K., Jiang, C., Wang, S., Peng, B., & Cai, Y. (2021). Evaluation of four new land surface temperature (LST) products in the U.S. Corn Belt: ECOSTRESS, GOES-R, Landsat, and Sentinel-3. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–1. <https://doi.org/10.1109/JSTARS.2021.3114613>
33. Li, X., Xiao, J., Fisher, J. B., & Baldocchi, D. D. (2021). ECOSTRESS estimates gross primary production with fine spatial resolution for different times of day from the International Space Station. *Remote Sensing of Environment*, 258, 112360. <https://doi.org/10.1016/j.rse.2021.112360>
34. Liu, N., Oishi, A. C., Miniati, C. F., & Bolstad, P. (2021). An evaluation of ECOSTRESS products of a temperate montane humid forest in a complex terrain environment. *Remote Sensing of Environment*, 265, 112662. <https://doi.org/10.1016/j.rse.2021.112662>
35. Loveless, M., Borbas, E. E., Knuteson, R., Cawse-Nicholson, K., Hulley, G., & Hook, S. (2021). Climatology of the combined aster modis emissivity over land (Camel) version 2. *Remote Sensing*, 13(1), 1–21. <https://doi.org/10.3390/rs13010111>
36. Maillard, A., Chien, S., & Wells, C. (2021). Planning the Coverage of Solar System Bodies Under Geometric Constraints. *Journal of Aerospace Information Systems*, 18(5), 289–306. <https://doi.org/10.2514/1.1010896>
37. Meng, X., Cheng, J., Yao, B., & Guo, Y. (2021). Validation of the ECOSTRESS land surface temperature product using ground measurements. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2021.3123816>
38. Parazoo, N. C., Coleman, R. W., Yadav, V., Stavros, E. N., Hulley, G., & Hutyra, L. (2021). Diverse biosphere influence on carbon and heat in mixed urban Mediterranean landscape revealed by high resolution thermal and optical remote sensing. *Science of The Total Environment*, 151335. <https://doi.org/10.1016/j.scitotenv.2021.151335>
39. Pascolini-Campbell, M., Fisher, J. B., & Reager, J. T. (2021). GRACE-FO and ECOSTRESS Synergies Constrain Fine-Scale Impacts on the Water Balance. *Geophysical Research Letters*, 48(15), e2021GL093984. <https://doi.org/10.1029/2021GL093984>
40. Pascolini-Campbell, M., Lee, C., Stavros, N., & Fisher, J. B. (2022). ECOSTRESS reveals pre-fire vegetation controls on burn severity for Southern California wildfires of 2020. *Global Ecology and Biogeography*. <https://doi.org/10.1111/geb.13526>
41. Poulos, H. M., Barton, A. M., Koch, G. W., Kolb, T. E., & Thode, A. E. (2021). Wildfire severity and vegetation recovery drive post-fire evapotranspiration in a southwestern pine-oak forest, Arizona, USA. *Remote Sensing in Ecology and Conservation*, rse2.210. <https://doi.org/10.1002/rse2.210>
42. Purdy, A. J., Fisher, J. B., Goulden, M. L., Colliander, A., Halverson, G., Tu, K., & Famiglietti, J. S. (2018). SMAP soil moisture improves global evapotranspiration. *Remote Sensing of Environment*, 219, 1–14. <https://doi.org/10.1016/j.rse.2018.09.023>
43. Rosas-Chavoya, M., López-Serrano, P. M., Hernández-Díaz, J. C., Wehenkel, C., & Vega-Nieva, D. J. (2021). Analysis of Near-Surface Temperature Lapse Rates in Mountain Ecosystems of Northern Mexico Using Landsat-8 Satellite Images and ECOSTRESS. *Remote Sensing*, 14(1), 162. <https://doi.org/10.3390/rs14010162>
44. Shi, J., & Hu, C. (2021). Evaluation of ECOSTRESS Thermal Data over South Florida Estuaries. *Sensors*, 21(13), 4341. <https://doi.org/10.3390/s21134341>
45. Silvestri, M., Romaniello, V., Hook, S., Musacchio, M., Teggi, S., & Buongiorno, M. F. (2020). First comparisons of surface temperature estimations between ECOSTRESS,

- ASTER and landsat 8 over Italian volcanic and geothermal areas. *Remote Sensing*, *12*(1), 1–11. <https://doi.org/10.3390/RS12010184>
46. Tetali, S., Baird, N., & Klima, K. (2022). A multicity analysis of daytime Surface Urban Heat Islands in India and the US. *Sustainable Cities and Society*, *77*, 103568. <https://doi.org/10.1016/j.scs.2021.103568>
47. Ustin, S. L., & Middleton, E. M. (2021). Current and near-term advances in Earth observation for ecological applications. *Ecological Processes*, *10*(1), 1–57. <https://doi.org/10.1186/s13717-020-00255-4>
48. Vo, T. T., & Hu, L. (2021). Diurnal evolution of urban tree temperature at a city scale. *Scientific Reports*, *11*(1), 1–13. <https://doi.org/10.1038/s41598-021-89972-0>
49. Wang, B., Wang, H., Yan, Z., Liu, X., Kang, W., & Ning, Q. (2021). A daytime sky analytical model of the degree of polarization for JHKs bands. *Infrared Physics & Technology*, *119*, 103960. <https://doi.org/10.1016/j.infrared.2021.103960>
50. Weidberg, N., Wethey, D. S., & Woodin, S. A. (2021). Global Intercomparison of Hyper-Resolution ECOSTRESS Coastal Sea Surface Temperature Measurements from the Space Station with VIIRS-N20. *Remote Sensing*, *13*(24), 5021. <https://doi.org/10.3390/rs13245021>
51. Wilder, B. A., & Kinoshita, A. M. (2022). Incorporating ECOSTRESS evapotranspiration in a paired catchment water balance analysis after the 2018 Holy Fire in California. *CATENA*, *215*, 106300. <https://doi.org/10.1016/j.catena.2022.106300>
52. Xue, J., Anderson, M. C., Gao, F., Hain, C., Sun, L., Yang, Y., Knipper, K. R., Kustas, W. P., Torres-Rua, A., & Schull, M. (2020). Sharpening ECOSTRESS and VIIRS land surface temperature using harmonized Landsat-Sentinel surface reflectances. *Remote Sensing of Environment*, *251*, 112055. <https://doi.org/10.1016/j.rse.2020.112055>
53. Zhang, J., Bai, Y., Yan, H., Guo, H., Yang, S., & Wang, J. (2020). Linking observation, modelling and satellite-based estimation of global land evapotranspiration. *Big Earth Data*, *4*(2), 94–127. <https://doi.org/10.1080/20964471.2020.1743612>
54. Zhu, Y., Myint, S. W., Schaffer-Smith, D., Muenich, R. L., Tong, D., & Li, Y. (2022). Formulating Operational Mitigation Options and Examining Intra-Urban Social Inequality Using Evidence-Based Urban Warming Effects. *Frontiers in Environmental Science*, *9*. <https://doi.org/10.3389/fenvs.2021.795474>