

Comprehensive ECOSTRESS Publication List

(ordered by year of publication, then alphabetical)

1. Bae, S., Son, B., Sung, T., Kim, Yejin, Kim, Youngseok, & Im, J. (2026). All-sky hourly estimation over East Asia using Himawari-8 AHI and multi-source data: investigating the main climatic drivers of afternoon depression and intraday variability in gross primary productivity. *GIScience & Remote Sensing*, 63(1). <https://doi.org/10.1080/15481603.2025.2609352>
2. Chen, N., Feng, Y., Wang, N., Yu, J., Alizadeh, M. R., Cui, Y., Ye, N., Jiao, W., Fisher, J. B., & Terrer, C. (2026). High spatiotemporal resolution monitoring of crop water stress across the contiguous United States using Harmonized Landsat and Sentinel-2 data. *Agricultural Water Management*, 323, 110094. <https://doi.org/10.1016/j.agwat.2025.110094>
3. Estey, E. W., Eitel, J. U. H., Vierling, L. A., Peven, G. L., Cawse-Nicholson, K. A., Hook, S. J., & Griffin, K. L. (2026). Spaceborne estimates of canopy temperature and soil moisture predict daily and annual subalpine tree growth. *Agricultural and Forest Meteorology*, 376, 110893. <https://doi.org/10.1016/j.agrformet.2025.110893>
4. Głowienka, E., & Kucza, M. (2026). Urban Park Vegetation Indices and Local Cooling in Krakow: A Linear Mixed Effects Model Analysis of Landsat Land Surface Temperature. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–15. <https://doi.org/10.1109/JSTARS.2026.3655138>
5. Hashimoto, H., Wang, W., Park, T., Khajehei, S., Ichii, K., Michaelis, A. R., Guzman, A., Nemani, R. R., Torn, M. S., Yi, K., & Brosnan, I. G. (2026). Subsets of geostationary satellite data over international observing network sites for studying the diurnal dynamics of energy, carbon, and water cycles. *Earth System Science Data*, 18(1), 397–410. <https://doi.org/10.5194/essd-18-397-2026>
3. Hossain, F., Lupin, J. H., Uddin, Md. M., Gazi, Md. Y., Rahman, Md. Z., & Kamal, A. S. M. M. (2026). Impact of elevated transportation infrastructure on urban thermal environment in Dhaka Megacity, Bangladesh. *Environmental Challenges*, 22, 101400. <https://doi.org/10.1016/j.envc.2025.101400>
7. Ju, Y., Shang, H., Liang, Y., Xu, J., Huang, Y., Song, J., Wang, Y., & Bakhtsiyarava, M. (2026). Neighborhood disparities in land surface temperature and the role of the built

environment: Evidence from a major Chinese City. *Urban Climate*, 65, 102805.
<https://doi.org/10.1016/j.uclim.2026.102805>

3. Kang, X., Yang, J., Zhang, Y., Li, Z., Feng, Y., Xiao, X., & Xia, J. (2026). Mitigating the thermal environment in built-up local climate zones: Expanding from internal to surrounding greenspace. *Building and Environment*, 287, 113841.
<https://doi.org/10.1016/j.buildenv.2025.113841>
9. Kremer, P., Weaver, D., & Stewart, J. D. (2026). Sensitivity of urban structure-temperature relationships to grid parameterization. *Ecological Informatics*, 93, 103587.
<https://doi.org/10.1016/j.ecoinf.2025.103587>
10. Li, N., Guo, F., Dou, J., Miao, S., & Zheng, C. (2026). Remote sensing-driven analysis of hourly urban heat storage and its effects on air temperature in China. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1.
<https://doi.org/10.1109/TGRS.2026.3653410>
11. Li, Y., Zhang, Y., Kong, Y., Wang, Y., Zhou, M., Chang, Y., & Li, J. (2026). Landscape patterns and diurnal thermal effects of golf courses in urban and suburban settings. *Urban Climate*, 65, 102763. <https://doi.org/10.1016/j.uclim.2025.102763>
12. Lin, J., Gan, W., Li, X., & Xu, X. (2026). Exploring the nonlinear and spatial effects of urban activity heterogeneity on the nighttime thermal environment using machine learning and GWR. *Building and Environment*, 288, 113928.
<https://doi.org/10.1016/j.buildenv.2025.113928>
13. Liu, C., Gao, H., Ou, W., Tan, H., & Lin, R. (2026). Light management in monolithic all-perovskite tandem solar cells. *Light: Science & Applications*, 15(1), 56.
<https://doi.org/10.1038/s41377-025-02120-5>
14. Lu, Y., Cheng, X., Yang, Y., & Wang, H. (2026). Thresholds and synergies: how 3D urban configurations shape thermal environment optimization in Chengdu's core—a multidimensional analysis with ECOSTRESS and Random Forest. *Energy and Buildings*, 352, 116815. <https://doi.org/10.1016/j.enbuild.2025.116815>
15. Luo, S., & Ren, P. (2026). A thermal diffusion-guided method for filling gaps in urban ECOSTRESS land surface temperature during summer. *Building and Environment*, 287, 113920. <https://doi.org/10.1016/j.buildenv.2025.113920>
16. McQuillan, K. A., Allen, G. H., Pearson, C., Holman, K. D., Huntington, J., Yadav, A., & Gao, H. (2026). Improving the Spatial Representation of Reservoir Evaporation Using

SAR-Based Wind Fields. *IEEE Geoscience and Remote Sensing Letters*, 23, 1–5.
<https://doi.org/10.1109/LGRS.2026.3652374>

17. Namaiti, A., Zeng, S., He, W., Liu, X., & Zeng, J. (2026). Exploring diurnal spatiotemporal heterogeneity in urban heat exposure: A novel perspective from urban form-function coupling. *Sustainable Cities and Society*, 138, 107161.
<https://doi.org/10.1016/j.scs.2026.107161>
18. Rahmati, M., Balenzano, A., Bechtold, M., Brocca, L., Fluhrer, A., Jagdhuber, T., Karamvavis, K., Mengen, D., Reichle, R. H., Kim, S., Taghizadeh-Mehrjardi, R., Walker, J., Zhu, L., & Montzka, C. (2026). Soil moisture retrieval from Sentinel-1: Lessons learned after more than a decade in orbit. *Remote Sensing of Environment*, 333, 115146. <https://doi.org/10.1016/j.rse.2025.115146>
19. Ram, Dr. R. L. (Ed.). (2022). *Current Research in Soil Fertility*. AkiNik Publications.
<https://doi.org/10.22271/ed.book.1726>
20. Sabut, A., & Mishra, A. (2026). A Century of Drought Research (1900–2023): Scientific Developments, Methodological Innovations, and Emerging Frontiers. *Water Resources Research*, 62(1). <https://doi.org/10.1029/2025WR041987>
21. Shakya, A., Landry, S., Bosman, M. M., Reader, S., & Culhane, T. H. (2026). Urban heat inequities in the United States: a scoping review. *Environmental Research Communications*, 8(1), 012002. <https://doi.org/10.1088/2515-7620/ae3a4f>
22. Wang, C., Tian, Q., Zhang, W., Tian, J., Chang, L., Zhang, R., & Li, Q. (2026). Spatiotemporal dynamics of non-photosynthetic vegetation across China and their implications for carbon fluxes along climate gradients. *Science China Earth Sciences*, 69(1), 151–168. <https://doi.org/10.1007/s11430-025-1711-8>
23. Wang, T., Xu, T., Wang, H., Kang, J., Qiu, L., Wang, Z., Xue, S., & Fang, Z. (2026). Depicting human mobility across functional zones to elevate urban heat exposure management—A case study of Shenzhen, China. *Cities*, 171, 106729.
<https://doi.org/10.1016/j.cities.2025.106729>
24. Yue, F., Hu, C., Chen, S., & Zeng, H. (2026). Identification and tracking of heat and cold cores in highly urbanized areas: spatiotemporal characteristics and evolutionary patterns. *International Journal of Digital Earth*, 19(1).
<https://doi.org/10.1080/17538947.2026.2616889>

25. Zeng, X., Luo, Q., Liu, M., Chu, Y., Rong, J., & Zhou, J. (2026). Revealing the nighttime warm effects of urban water bodies: Evidence from Wuhan, China. *Environmental Impact Assessment Review*, 118, 108303. <https://doi.org/10.1016/j.eiar.2025.108303>
26. Zhang, N., Rischmiller, F., & Mahmoud, W. H. (2026). *Hyperspectral Endmember Material Identification Using Spectral Library Matching* (pp. 535–546). https://doi.org/10.1007/978-981-95-1233-1_48
27. Zhao, R., Wu, Q., Ren, D., Wang, D., Hu, S., & Han, Y. (2026). Study on thermal and infrared characteristics of typical ground backgrounds under instantaneous change weather in hot and humid areas. *International Journal of Thermal Sciences*, 219, 110204. <https://doi.org/10.1016/j.ijthermalsci.2025.110204>
28. Zhou, Y., Yang, Y., & Wang, H. (2026). Impact of urban features on land surface temperature across the diurnal cycle under LCZ framework. *Urban Climate*, 65, 102760. <https://doi.org/10.1016/j.uclim.2025.102760>
29. Aban, J. L., Lucero-Prisno, D. E., Ogaya, J. B., & Usi, J. D. (2025). Adapting Multi-Index Remote Sensing for Drought Early Warning in Southeast Asia: Reflections on the Ethiopian Highland Study. *Air, Soil and Water Research*, 18. <https://doi.org/10.1177/11786221251374648>
30. Aghazadeh, F., Samadi, M., Cheval, S., & Moshiri, S. (2025). Impacts of land use, vegetation, and air pollution on surface urban heat island spatiotemporal dynamics: Tehran as a case study. *International Journal of Environmental Science and Technology*. <https://doi.org/10.1007/s13762-025-06561-8>
31. Alghamdi, A. S. (2025). An integrated ML-powered geospatial analysis of surface urban heat island and its mitigation in Riyadh City, Saudi Arabia. *Urban Climate*, 64, 102642. <https://doi.org/10.1016/j.uclim.2025.102642>
32. Alnajjar, S., García-Martínez, A., López-Cabeza, V. P., & Al-Azhari, W. (2025). A Multidimensional Approach to Mapping Urban Heat Vulnerability: Integrating Remote Sensing and Spatial Configuration. *Smart Cities*, 8(4), 137. <https://doi.org/10.3390/smartcities8040137>
33. AMILIN, N. S. S., & JAMRU, L. R. (2025). APLIKASI GIS DAN REMOTE SENSING DALAM PENENTUAN HOTSPOT BANDAR DI KOTA KINABALU. *Quantum Journal of Social Sciences and Humanities*, 6(6), 322–337. <https://doi.org/10.55197/qjssh.v6i6.944>
34. Anand, V., Lohani, B., Mishra, R., & Pandey, G. (2025a). Towards Realistic LiDAR Intensity Simulation in Snowy Weather Using Physics-Informed Learning. *2025 IEEE*

Intelligent Vehicles Symposium (IV), 2552–2557.
<https://doi.org/10.1109/IV64158.2025.11097501>

35. Anand, V., Lohani, B., Mishra, R., & Pandey, G. (2025b). Towards Realistic LiDAR Intensity Simulation in Snowy Weather Using Physics-Informed Learning. *2025 IEEE Intelligent Vehicles Symposium (IV)*, 2552–2557.
<https://doi.org/10.1109/IV64158.2025.11097501>
36. Athira, K. V., Rajasekaran, E., Boulet, G., Nigam, R., & Bhattacharya, B. K. (2025). Multiscale evaluation of three remote sensing-based evapotranspiration models across the humid to arid tropics: a study over India. *Hydrological Sciences Journal*.
<https://doi.org/10.1080/02626667.2025.2541749>
37. Athira, K. v., Rajasekaran, E., Sara, K., Boulet, G., Kustas, W. P., Nigam, R., Bhattacharya, B. K., Alfieri, J. G., Prueger, J. H., Alsina, M. M., Hipps, L. E., McKee, L. G., McElrone, A. J., Castro, S. J., & Bambach, N. (2025). Modelling the diurnal cycle of evapotranspiration using remote sensing models – are we there yet? *International Journal of Remote Sensing*, 1–34. <https://doi.org/10.1080/01431161.2025.2576598>
38. Bai, Y., Wang, M., Yan, Y., & Wang, H. (2025). Exploring the impact of 2D/3D urban morphology on land surface temperature within the diurnal cycle in Tianjin. *Scientific Reports*, 15(1), 39740. <https://doi.org/10.1038/s41598-025-17849-7>
39. Bautista, C. J. C., Gallegos, R. K. B., & Lampayan, R. M. (2025). Machine learning and digital twins in smart irrigation: optimising water use through agricultural data analytics. *Digital Twin*. <https://doi.org/10.1080/27525783.2025.2562418>
40. Bian, Z., Roujean, J. L., Irvine, M., Li, H., Mo, F., Chen, Y., Cao, B., Du, Y., Xiao, Q., & Liu, Q. (2025). Evaluation of three modelling frameworks of thermal infrared radiative transfer for directional anisotropies of temperatures. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2025.3530503>
41. Bilal, M. (2025). Spectral indices alone are not enough: A critical assessment of pre-fire wildfire risk mapping. *Ecological Informatics*, 91, 103435.
<https://doi.org/10.1016/j.ecoinf.2025.103435>
42. Camilo Fagua, J., Jantz, P., Burns, P., Jantz, S. M., Kilbride, J. B., & Goetz, S. J. (2025). Maps of forest vertical structure for Colombia, a megadiverse country. *Scientific Data*. <https://doi.org/10.1038/s41597-025-06297-7>
43. Cardoso, A. W., Hestir, E. L., Slingsby, J. A., Forbes, C. J., Moncrieff, G. R., Turner, W., Skowno, A. L., Nesslage, J., Brodrick, P. G., Gaddis, K. D., & Wilson, A. M. (2025). The

biodiversity survey of the Cape (BioSCape), integrating remote sensing with biodiversity science. *Npj Biodiversity*, 4(1), 2. <https://doi.org/10.1038/s44185-024-00071-5>

44. Chandel, A. S. (2025). Mapping drought risks in agriculture: a GIS and remote sensing study of Nagele Arsi district, Ethiopia. *Cogent Food & Agriculture*, 11(1). <https://doi.org/10.1080/23311932.2025.2525319>
45. Chandra, H., & Nidamanuri, R. R. (2025). Dynamic Spectral Similarity Method (DSSM) - A Novel Method for Automated Identification of Objects in Hyperspectral Imagery. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2025.3564386>
46. Chang, Y., Weng, Q., Voogt, J. A., & Xiao, J. (2025). Urban thermal anisotropies by local climate zones: An assessment using multi-angle land surface temperatures from ECOSTRESS. *Remote Sensing of Environment*, 322, 114705. <https://doi.org/10.1016/j.rse.2025.114705>
47. Chen, J., Zuo, Q., Shi, J., Zhang, J., Huang, L., & Chen, X. (2025). Quantifying methane point-source emissions with hyper-spectral imagery and the deep learning model. In N. Chrysoulakis, T. Erbertseder, & Y. Zhang (Eds.), *Remote Sensing Technologies and Applications in Urban Environments X* (p. 3). SPIE. <https://doi.org/10.1117/12.3069640>
48. Cho, M. S., & Qi, J. (2025). Remote sensing-based assessment of dam impacts on hydrology, geomorphology, ecosystems, and society – a review. *Environmental Earth Sciences*, 84(12), 344. <https://doi.org/10.1007/s12665-025-12345-7>
49. Colombano, D., Rudnick, J., Rowlands, N., Christman, M., Dahm, C., Thompson, J., & Windham-Myers, L. (2025). Five Perspectives to Advance Science, Management, and Governance in the Era of Climate Change and Extreme Events. *San Francisco Estuary and Watershed Science*, 23(3). <https://doi.org/10.15447/sfews.2025v23iss3art1>
50. Cooley, S. S., Keller, M., Longo, M., Csillik, O., Dias, A. P., Silgueiro, V., Carvalho, R., Anderson, D., Gilbreath, M., Duffy, P., Adami, M., Cawse-Nicholson, K., & Menge, D. N. L. (2025). Thermal stress in degraded forests in the Brazilian Amazon Arc of Deforestation. *Environmental Research Letters*, 20(8), 084069. <https://doi.org/10.1088/1748-9326/adea98>
51. Corbari, C., Hu, T., Paciolla, N., Schlerf, M., Mallick, K., Ronellenfitch, F. K., Ceppi, A., Crisafulli, V., Bossung, C., Feki, M., Llorens, R., Skokovic, D., al Bitar, A., Sobrino, J., & Mancini, M. (2025). High spatial resolution thermal infrared data from airborne acquisition reveal inconsistencies in evapotranspiration and crop water stress retrieval

from different models. *Remote Sensing Applications: Society and Environment*, 101563. <https://doi.org/10.1016/j.rsase.2025.101563>

52. Das, A., & Dorafshan, S. (2025). Feasibility of hyperspectral sensing for detection of early stages of corrosion in structural steel. *NDT & E International*, 154, 103399. <https://doi.org/10.1016/j.ndteint.2025.103399>
53. Dash, S. K., Sembhi, H., & Sinha, R. (2025). Integrating UAV thermal imagery and *in-situ* data for high-resolution crop water stress–soil moisture dynamics over India’s agricultural hotspot. *International Journal of Remote Sensing*, 1–26. <https://doi.org/10.1080/01431161.2025.2593684>
54. Dash, S. K., Sembhi, H., Langsdale, M., Wooster, M., Dodd, E., Ghent, D., & Sinha, R. (2025). Assessing the field-scale crop water condition over an intensive agricultural plain using UAV-based thermal and multispectral imagery. *Journal of Hydrology*, 655, 132966. <https://doi.org/10.1016/j.jhydrol.2025.132966>
55. Deng, H., Feng, J., Liu, K., Xiong, Y., & Cao, J. (2025). Local climate zone framework: seasonal dynamics of surface urban heat island and its influencing factors in three Chinese urban agglomerations. *GIScience & Remote Sensing*, 62(1). <https://doi.org/10.1080/15481603.2025.2490317>
56. Deng, Q., Xie, M., & Chen, Y. (2025). Combined effects of building and tree on the diurnal thermal environment in urban functional zones from 2D and 3D perspectives. *Ecological Frontiers*. <https://doi.org/10.1016/j.ecofro.2025.04.002>
57. Deng, Z., Li, T., Chen, J., Wang, S., Huang, K., Gu, P., Peng, H., & Chen, Z. (2025). *Global Retrieval of 24-hourly Solar-Induced Chlorophyll Fluorescence and Evapotranspiration from OCO-2, OCO-3 and ECOSTRESS over 1982–2022*. <https://doi.org/10.5194/essd-2025-99>
58. Dev Roy, S., Kuffer, M., & Wang, J. (2025). Exploring the influence of building morphology on surface temperatures: A multi-city analysis in Europe. *Building and Environment*, 282, 113274. <https://doi.org/10.1016/j.buildenv.2025.113274>
59. Diehl, J. L., Javadian, M., Koch, G. W., Still, C. J., & Richardson, A. D. (2025). Drivers of canopy temperature dynamics across diverse ecosystems. *Environmental Research Letters*, 20(10), 104038. <https://doi.org/10.1088/1748-9326/adfe7f>
30. Doughty, C. E., Wiebe, B. C., & Slot, M. (2025). Experimental Manipulations of Albedo and Mortality of Upper Canopy Leaves in a Tropical Forest Diverge From Earth System

Model Results. *Journal of Geophysical Research: Biogeosciences*, 130(11).
<https://doi.org/10.1029/2024JG008495>

31. Duan, S.-B., Ling, K., Min, X., Wei, R., & Guan, Y. (2025). Improving land surface temperature retrieval from MODIS data: Explicit correction for aerosol optical depth variability. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1.
<https://doi.org/10.1109/TGRS.2025.3626215>
32. Eken, R., Coşkun, O., & Yılmaz, G. (2025). Modeling and Estimating LIDAR Intensity for Automotive Surfaces Using Gaussian Process Regression: An Experimental and Case Study Approach. *Applied Sciences*, 15(6), 2884. <https://doi.org/10.3390/app15062884>
33. Esposito, A., Buccolieri, R., Santiago, J. L., & Pappaccogli, G. (2025). Intensification of SUHI During Extreme Heat Events: An Eight-Year Summer Analysis for Lecce (2018–2025). *Climate*, 14(1), 2. <https://doi.org/10.3390/cli14010002>
34. Fan, P., Wang, H., & Imbroglini, C. (2025). Hourly impact of urban forests on land surface temperature based on machine learning. *Results in Engineering*, 28, 107584. <https://doi.org/10.1016/j.rineng.2025.107584>
35. Felton, A. J., Fisher, J. B., Hufkens, K., Purdy, A. J., Spawn-Lee, S. A., Duloisy, L. F., & Goldsmith, G. R. (2025). Global estimates of the storage and transit time of water through vegetation. *Nature Water*, 3(1), 59–69. <https://doi.org/10.1038/s44221-024-00365-9>
36. Firozjaei, M. K., & Kiavarz, M. (2025). A Hybrid Framework for Satellite Urban Land Surface Temperature Correction: Combining Sensor, Spectral, Geometric, and Topographic Factors. *Advances in Space Research*.
<https://doi.org/10.1016/j.asr.2025.09.044>
37. Fu, L., Li, X.-X., Xin, R., Min, M., & Dong, L. (2025). Diurnal and seasonal variation of surface heat island of local climate zones using FengYun-4A land surface temperature data. *Urban Climate*, 59, 102317. <https://doi.org/10.1016/j.uclim.2025.102317>
38. Gavilan-Acuna, G., Coops, N. C., Tompalski, P., Roeser, D., & Varhola, A. (2025). The use and integration of airborne laser scanning and satellite time series data in precision forest management for plantations of fast-growing tree species. *Annals of Forest Science*, 82(1), 22. <https://doi.org/10.1186/s13595-025-01292-9>
39. Georgeot, A., Ceamanos, X., Attié, J.-L., Juncu, D., Gasteiger, J., & Compiègne, M. (2025). Towards improved retrieval of aerosol properties from the geostationary orbit

with the new Meteosat Third Generation-Imager satellite. *Atmospheric Measurement Techniques*, 18(18), 4665–4693. <https://doi.org/10.5194/amt-18-4665-2025>

70. Ghosh, A., Rai, S., P, A., Kotyal, K., B, S., Saran, S., Anjali, K.P.Sivakumar, Panotra, N., & Pandey, S. K. (2025). Data-Driven Decision Making in Agriculture with Sensors, Satellite Imagery and AI Analytics by Digital Farming. *Archives of Current Research International*, 25(5), 37–52. <https://doi.org/10.9734/acri/2025/v25i51186>
71. Głowienka, E., Malinverni, E. S., Kucza, M., Michałowska, K., & Sanità, M. (2025). Satellite and ground-based data to monitor urban heat islands. Cases of study: polish and italian cities. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XLVIII-G-2025, 521–527. <https://doi.org/10.5194/isprs-archives-XLVIII-G-2025-521-2025>
72. Gong, F.-Y., Yang, Z., & Deng, S. (2025). Fine-scale assessment of diurnal heat health risk based on satellite and street view images. *Cities*, 162, 105963. <https://doi.org/10.1016/j.cities.2025.105963>
73. Goodwell, A., Zahan, M., Cao, J., & URycki, D. R. (2025). Spatial heterogeneity of agricultural evapotranspiration as quantified by satellite and flux tower sources. *Agricultural and Forest Meteorology*, 372, 110608. <https://doi.org/10.1016/j.agrformet.2025.110608>
74. Guo, A., Yue, W., Yang, J., & Li, M. (2025). Assessing inequality in population exposure of urban heat across China's major cities. *Applied Geography*, 185, 103788. <https://doi.org/10.1016/j.apgeog.2025.103788>
75. Guo, E., & Yang, R. (2025). AI-Powered Satellite Analytics for Spatially Explicit Urban Heat Assessment. *2025 13th International Conference on Agro-Geoinformatics (Agro-Geoinformatics)*, 1–6. <https://doi.org/10.1109/Agro-Geoinformatics66479.2025.11136722>
76. Guo, Y., Zheng, X., Zhou, Z., Li, D., & Wang, Z. (2025). Determination of the Optimal Channel Configuration for Land Surface Temperature Retrieval Using Split Window Algorithm. *IEEE Geoscience and Remote Sensing Letters*, 22, 1–5. <https://doi.org/10.1109/LGRS.2025.3579608>
77. Guzinski, R., Nieto, H., Barrios, J. M., Ghariani, W., Gellens-Meulenberghs, F., de Pue, J., & Lacaze, R. (2025). *Towards a global actual evapotranspiration product for the Copernicus Land Monitoring Service*. <https://doi.org/10.5194/egusphere-2025-4342>

78. Han, M., Zhang, T., & Si, Z. (2025). Optimizing urban blue-green space in climate adaptive planning: a systematic review of threshold value of efficiency thresholds. *Landscape Ecology*, 40(1), 13. <https://doi.org/10.1007/s10980-024-02036-2>
79. Han, Z., Tian, Q., Tian, J., Zhao, T., Xu, C., & Zhou, Q. (2025). Estimation of fractional cover based on NDVI-VISI response space using visible-near infrared satellite imagery. *International Journal of Applied Earth Observation and Geoinformation*, 137, 104432. <https://doi.org/10.1016/j.jag.2025.104432>
30. Hao, P., Di, L., Guo, L., Chen, Z., & Montgomery, L. (2025). A practical method for deriving all-weather ET from remote sensing and meteorological data. *International Journal of Applied Earth Observation and Geoinformation*, 144, 104948. <https://doi.org/10.1016/j.jag.2025.104948>
31. Harish, Hayne, P. O., Emery, J. P., Bottke, W. F., Edwards, C. S., El-Maarry, M. R., & AlMazmi, H. (2025). Surface Composition of Asteroid 269 Justitia: Insights from Spectral Mixture Modeling. *The Astrophysical Journal*, 992(1), 125. <https://doi.org/10.3847/1538-4357/adff70>
32. Hayes, T. W., & Li, S. (2025). Insights for hydrated sulfuric acid on Europa's surface from a combined orbital – experimental approach. *Icarus*, 434, 116543. <https://doi.org/10.1016/j.icarus.2025.116543>
33. He, B.-J., Miao, C., Cheshmehzangi, A., & Mohaghegh, L. (2025). Advancement in urban climate change assessment and mitigation technologies. *International Journal of Environmental Science and Technology*. <https://doi.org/10.1007/s13762-025-06679-9>
34. He, B., Zhu, W., Zhao, C., Xie, Z., & Zhuang, H. (2025). A novel index for directly indicating fractional vegetation cover based on spectral differences between vegetation and soil. *Remote Sensing of Environment*, 331, 115056. <https://doi.org/10.1016/j.rse.2025.115056>
35. He, J., & Li, K. (2025). Estimation of the surface emission spectra from remotely sensed data based on the physics informed deep neural network. In Z. Qin, J. Chen, & H. Wu (Eds.), *Sixth International Conference on Geoscience and Remote Sensing Mapping (GRSM 2024)* (p. 122). SPIE. <https://doi.org/10.1117/12.3057645>
36. Huang, J., Sehgal, V., Alvarez, L. v., Brocca, L., Cai, S., Cheng, R., Cheng, X., Du, J., el Masri, B., Endsley, K. A., Fang, Y., Hu, J., Jampani, M., Kibria, M. G., Koren, G., Li, L., Liu, L., Mao, J., Moreno, H. A., ... Fisher, J. B. (2025). Remotely Sensed High-

Resolution Soil Moisture and Evapotranspiration: Bridging the Gap Between Science and Society. *Water Resources Research*, 61(5). <https://doi.org/10.1029/2024WR037929>

37. Huang, L., Tao, C., & Zhou, Z. (2025). A mid-infrared computational spectrometer enabled by a PCMs based thin-film spectral encoder. In Z. Zheng & J. Suo (Eds.), *Optoelectronic Imaging and Multimedia Technology XII* (p. 16). SPIE. <https://doi.org/10.1117/12.3074715>
38. Hui, J., Qing, C., Luo, L., Li, Z., & Ye, X. (2025). Landsat Emissivity Mapping From Multiple Bands Spectral Reflectance Using the CatBoost Model. *IEEE Geoscience and Remote Sensing Letters*, 22, 1–5. <https://doi.org/10.1109/LGRS.2025.3620411>
39. Ikuemonisan, F. E., Kayode, Y. O., Ogunjo, S. T., Odubote, O. B., & Okedeyi, S. A. (2025). Modeling heatwave trends from land cover dynamics using satellite observations and machine learning in Ibadan, Nigeria. *Discover Geoscience*, 3(1), 254. <https://doi.org/10.1007/s44288-025-00361-w>
30. Irani Rahaghi, A., Odermatt, D., & Naegeli, K. (2025). *Advancing Alpine lake monitoring and modelling through calibration, validation, and dissemination of high-resolution thermal remote sensing products*. <https://doi.org/10.5194/egusphere-egu25-18287>
31. Isik, M. S., Parente, L., Consoli, D., Sloat, L., Mesquita, V. V., Ferreira, L. G., Sabbatini, S., Stanimirova, R., Teles, N. M., Robinson, N., Costa Junior, C., & Hengl, T. (2025). Light use efficiency (LUE) based bimonthly gross primary productivity (GPP) for global grasslands at 30 m spatial resolution (2000–2022). *PeerJ*, 13, e19774. <https://doi.org/10.7717/peerj.19774>
32. Ivanov, M., Karadzhov, V., Patarchanova, E., & Dalgacheva, V. (2025). Remote Sensing Technique For Temporal and Spatial Mapping of the LST and Surface Urban Heat Island (SUHI) Development Between 1990–2025 in Plovdiv, Bulgaria. *International Journal of Digital Research*, 1(4), 125–142. <https://doi.org/10.63711/ijdr.net20250409>
33. Jahangir, Z., Shao, Z., Yu, Y., Fu, P., Yasir, Q. M., & Xiao, X. (2025). Generation of 100 m seamless land surface temperature from clear sky or partially cloudy MODIS data using Landsat-assisted stacked ensemble regression. *Environmental Earth Sciences*, 84(22), 653. <https://doi.org/10.1007/s12665-025-12624-3>
34. Jia, A., Mallick, K., Upadhyaya, D., Hu, T., Szantoi, Z., Bhattacharya, B., Sekhar, M., Skoković, D., Sobrino, J. A., Ruiz, L., & Boulet, G. (2025). Deriving a clear-sky soil moisture index from ECOSTRESS land surface temperature. *Remote Sensing of Environment*, 329, 114945. <https://doi.org/10.1016/j.rse.2025.114945>

95. Joshi, P., Lin, T.-S., He, C., & Lamer, K. (2025). *Urban Weather Modeling using WRF: Linking Physical Assumptions, Code Implementation, and Observational Needs*. <https://doi.org/10.5194/egusphere-2025-1751>
96. Kamaev, A. (2025). Analysis of Spectral Remote Sensing Data for Geological Mapping of Rare Earth Elements (Case Study of the Kola Peninsula). *Russian Journal of Earth Sciences*. <https://doi.org/10.2205/2025ES001077>
97. Kandpal, K. C., Anchal, S., Verma, A., & Kumar, A. (2025). Development of a spectral repository for the identification of western Himalayan medicinal plants using machine learning techniques. *Biosystems Engineering*, 249, 58–70. <https://doi.org/10.1016/j.biosystemseng.2024.11.014>
98. Kang, W., Song, H., & Kim, Y. (2025). Mapping the dynamic thermal recovery of urban landscapes to enhance post-extreme heat sensing. In O. Matoba, C. R. Valenta, & J. A. Shaw (Eds.), *SPIE Future Sensing Technologies 2025* (p. 29). SPIE. <https://doi.org/10.1117/12.3073343>
99. Kara, Y., Yavuz, V., & Lupo, A. R. (2025). Multi-Index Assessment of Surface Urban Heat Island (SUHI) Dynamics in Samsun Using Google Earth Engine. *Atmosphere*, 16(6), 712. <https://doi.org/10.3390/atmos16060712>
100. Kardani, D. B., Dave, J. A., Shah, D. B., Gujrati, A., Trivedi, H. J., & Pandya, M. R. (2025). Quantifying Land Surface Temperature Retrieval Errors for the GK2A TIR Sensor Using Radiative Transfer Simulations over Asia. *2025 IEEE International Conference on Next-Gen Technologies of Artificial Intelligence and Geoscience Remote Sensing (EarthSense)*, 1–5. <https://doi.org/10.1109/EarthSense66084.2025.11297362>
101. Kato, S., & Kouyama, T. (2025). Automated vicarious radiometric validation of spaceborne thermal infrared sensors at non-dedicated validation sites using deep learning-based cloud filtering. *International Journal of Applied Earth Observation and Geoinformation*, 141, 104617. <https://doi.org/10.1016/j.jag.2025.104617>
102. Khan, S., Huiliang, W., Nauman, U., Boota, M. W., & Wu, Z. (2025). Evaluating land use impact on evapotranspiration in Yellow River Basin China through a novel GSEBAL model: a remote sensing perspective. *Applied Water Science*, 15(1), 16. <https://doi.org/10.1007/s13201-024-02345-6>
103. Kim, S., Jang, Y., Kim, J., & Jeong, K. J. (2025). LSC-TES: Local spectral curvature-based accurate temperature-emissivity separation in indoor environments. *Infrared Physics & Technology*, 148, 105837. <https://doi.org/10.1016/j.infrared.2025.105837>

104. Kim, Y., Yoo, C., & Im, J. (2025). Nighttime satellite land surface temperature for urban applications: achievements, challenges, and future prospects. *GIScience & Remote Sensing*, 62(1). <https://doi.org/10.1080/15481603.2025.2527990>
105. Kirti, R., Valdés-Uribe, A., & Hölscher, D. (2025). Spatial prediction of evapotranspiration in a tropical mosaic landscape using remote sensing and explainable machine learning. *Landscape Ecology*, 40(8), 174. <https://doi.org/10.1007/s10980-025-02195-w>
106. Koßagk, M., Peiffer, L., Mohr, L., Tajmar, M., & Schmiel, T. (2025). First tests of a laser ice drill for the exploration of interplanetary ice and icy soils. *Acta Astronautica*, 237, 460–475. <https://doi.org/10.1016/j.actaastro.2025.08.049>
107. Kyriakidis, I., Pavlidis, V., Gkolemi, M., Mitraka, Z., Chrysoulakis, N., & Katragkou, E. (2025). Assessing the Sensitivity of WRF to Surface Urban Physics. *COMECAP 2025*, 67. <https://doi.org/10.3390/eesp2025035067>
108. Langsdale, M., Verhoelst, T., Povey, A., Schutgens, N., Dowling, T., Lambert, J.-C., Compennolle, S., & Kern, S. (2025). The Challenges and Limitations of Validating Satellite-Derived Datasets Using Independent Measurements: Lessons Learned from Essential Climate Variables. *Surveys in Geophysics*. <https://doi.org/10.1007/s10712-025-09898-4>
109. Leclerc, M., Ditmer, M. A., Stoner, D. C., Wang, P., Sexton, J. O., Hersey, K. R., & Carter, N. H. (2025). Acute drought desiccates highly used habitat and drives herbivores into irrigated croplands. *Ecological Applications*, 35(7). <https://doi.org/10.1002/eap.70126>
110. Lee, J. (2025). Estimating Near-Surface Air Temperature From Satellite-Derived Land Surface Temperature Using Temporal Deep Learning: A Comparative Analysis. *IEEE Access*, 13, 28935–28945. <https://doi.org/10.1109/ACCESS.2025.3539581>
111. Lewis, R., & Sankey, T. (2025). ECOSTRESS Evapotranspiration Estimates Across Temporal and Spatial Scales in Arid and Semi-Arid Southern Arizona, USA. *Journal of Geophysical Research: Biogeosciences*, 130(12). <https://doi.org/10.1029/2025JG009141>
112. Li, D., Zhang, Q., & Cui, Y. (2025). Composite Risk Assessment and Spatial Optimization Configuration Based on Remote Sensing Mapping Process. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 18, 21430–21444. <https://doi.org/10.1109/JSTARS.2025.3600491>

113. Li, M., Zhou, J., Ma, J., & Wang, Z. (2025a). A Method for Retrieving Land Surface Temperature from Ground-/UAV-based Longwave Infrared Data. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2025.3567350>
114. Li, M., Zhou, J., Ma, J., & Wang, Z. (2025b). A Method for Retrieving Land Surface Temperature from Ground-/UAV-based Longwave Infrared Data. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2025.3567350>
115. Li, N., Skaggs, T. H., & Scudiero, E. (2025). In-Season Estimation of Japanese Squash Using High-Spatial-Resolution Time-Series Satellite Imagery. *Sensors*, 25(7), 1999. <https://doi.org/10.3390/s25071999>
116. Li, S., Hu, G., Li, Shaoda, Liu, C., Wang, X., Yang, R., & Tan, J. (2025). Modelling forest canopy reflectance over sloping terrain with an extended GSV and PROSAIL Model. *International Journal of Digital Earth*, 18(1). <https://doi.org/10.1080/17538947.2025.2520026>
117. Li, T., Wang, S., Deng, Z., Chen, J., Chen, B., Liang, Z., Chen, X., Jiang, Y., Gu, P., & Sun, L. (2025). Advancing diurnal analysis of vegetation responses to drought events in the Yangtze River Basin using next-generation satellite data. *Science of The Total Environment*, 959, 178269. <https://doi.org/10.1016/j.scitotenv.2024.178269>
118. Liu, J., Tang, B.-H., He, Z., Fan, D., Zhu, X., Li, M., & Huang, L. (2025). Urban Land Surface Temperature Retrieval From Landsat-9 Satellite Data Using Nonlinear SplitWindow Algorithm. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2025.3562647>
119. Liu, W., & Cheng, J. (2025). Retrieval of 1 km Resolution Mid-Infrared Land Surface Emissivity Combining Nighttime MODIS Mid- and Thermal-Infrared Data. *Journal of Geophysical Research: Atmospheres*, 130(12). <https://doi.org/10.1029/2025JD043643>
120. Liu, W., Cheng, J., & Dong, L. (2025). Land surface temperature retrieval from FY-3E/MERSI using an optimized water vapor scaling method. *GIScience & Remote Sensing*, 62(1). <https://doi.org/10.1080/15481603.2025.2507439>
121. Liu, Yihui, Xu, J., Sun, S., Li, T., & Cao, J. (2025). Exploring Cooling Effects of Land Cover Type Local Climate Zones in Relation to Built-Up Areas: A County Perspective. *Atmosphere*, 16(2), 194. <https://doi.org/10.3390/atmos16020194>
122. Liu, Yong, Sun, Y., & Ming, Y. (2025). Nonlinear and interacting influence of 2D/3D factors on park cooling effect in China using Gradient Boosting Decision Tree and

Shapely. *Building and Environment*, 113066.
<https://doi.org/10.1016/j.buildenv.2025.113066>

123. Loizeau-Woollgar, L., Rapinel, S., Pellen, J., Clément, B., & Hubert-Moy, L. (2025). Contribution of ECOSTRESS thermal imagery to wetland mapping: Application to heathland ecosystems. *ISPRS Journal of Photogrammetry and Remote Sensing*, 220, 649–660. <https://doi.org/10.1016/j.isprsjprs.2025.01.014>
124. Longenecker, J., Benzoni, F., Dunn, N., Fox, H. E., Gleason, A., Otis, D., Chirayath, V., Oury, N., & Purkis, S. J. (2025). Coral reef thermal microclimates mapped from the International Space Station. *Coral Reefs*. <https://doi.org/10.1007/s00338-024-02607-4>
125. Lopez, A. M., Meshesha, T. W., Lee, C. M., Mohammed, I. N., Hestir, E. L., Harmon, T. C., & Avouris, D. M. (2025). Post-Wildfire Sediment Fluxes and Turbidity Plumes in a Coastal-Draining Watershed. *Earth and Space Science*, 12(12). <https://doi.org/10.1029/2024EA003843>
126. Lu, C. X., Mittal, T., Chen, C. H., Li, A. Y., Worthen, K., Sargent, B. A., Lisse, C. M., Sloan, G. C., Hines, D. C., Watson, D. M., Rebolledo, I., Ren, B. B., & Green, J. D. (2025). Sequencing Silicates in the Spitzer Infrared Spectrograph Debris Disk Catalog. I. Methodology for Unsupervised Clustering. *The Astrophysical Journal Supplement Series*, 276(2), 65. <https://doi.org/10.3847/1538-4365/ada0ba>
127. Lu, Y., Bian, Z., Pinnepalli, C., Roujean, J.-L., Irvine, M., Sang, X., Luo, X., Li, H., Du, Y., Cao, B., & Xiao, Q. (2025). A line-spread kernel function for angular anisotropy in row-dominated heterogeneous scenarios. *Remote Sensing of Environment*, 328, 114887. <https://doi.org/10.1016/j.rse.2025.114887>
128. Maccabiani, E., Usmani, M., Nanni, R., & Napolitano, M. (2025). Investigating Social Vulnerability to Extreme Heat: Heat Islands and Climate Shelters in Urban Contexts: The Case of Bologna. *ISPRS International Journal of Geo-Information*, 14(1), 17. <https://doi.org/10.3390/ijgi14010017>
129. Madingou, M. P. N., Dauby, G., Fayolle, A., & Gorel, A. (2025). Vulnerability to Climate Changes of Tropical Forests Across Africa. *Diversity and Distributions*, 31(10). <https://doi.org/10.1111/ddi.70104>
130. Mansour, A. el, Najih, A., Ouzemou, J.-E., Laamrani, A., Elghali, A., Hakkou, R., & Benzaazoua, M. (2025). Integrating VNIR–SWIR Spectroscopy and Handheld XRF for Enhanced Mineralogical Characterization of Phosphate Mine Waste Rocks in Benguerir, Morocco: Implications for Sustainable Mine Reclamation. *Sensors*, 26(1), 2. <https://doi.org/10.3390/s26010002>

131. Marin, S., Fröhlich, T., Augustin, S., Schalles, M., Krapf, G., & Beerel, J. (2025). Test bench for the investigation of road temperature measurement. *Measurement: Sensors*, 101630. <https://doi.org/10.1016/j.measen.2024.101630>
132. McCormick, E. L., Sanders, L. E., McColl, K. A., & Konings, A. G. (2025). *Triple collocation validates CONUS-wide evapotranspiration inferred from atmospheric conditions*. <https://doi.org/10.5194/egusphere-2025-4225>
133. Meng, Y., Luo, Q., Bai, B., Li, Y., Lu, J., & Ren, J. (2025). Analysis of spatial heterogeneity in Xi'an's urban heat island effect using multi-source data fusion. *PLOS One*, 20(10), e0332885. <https://doi.org/10.1371/journal.pone.0332885>
134. Mitraka, Z., Lantzanakis, G., Panagiotakis, E., Chrysoulakis, N., Somarakis, G., Marconcini, M., Feigenwinter, C., & Lauwaet, D. (2025). Prototypes for enhanced urban heat monitoring leveraging Copernicus services and satellite data. *Discover Cities*, 2(1), 14. <https://doi.org/10.1007/s44327-025-00059-1>
135. Muse, N., McNoldy, B. D., Clement, A., & Mach, K. J. (2025). Nighttime land surface temperature and thermal discomfort in a seasonally muggy climate. *Climatic Change*, 178(10), 176. <https://doi.org/10.1007/s10584-025-04030-2>
136. Mwangi, S., Oliosio, A., Etchanchu, J., Mallick, K., Jia, A., Demarty, J., Farhani, N., Sarrazin, E., Gamet, P., Roujean, J.-L., & Boulet, G. (2025). *Uncertainties in long-term ensemble estimates of contextual evapotranspiration over Southern France*. <https://doi.org/10.5194/egusphere-2025-4522>
137. Niroomand, M., Pahlavani, P., Bigdeli, B., & Ghorbanzadeh, O. (2025). Improving the Temporal Resolution of Land Surface Temperature Using Machine and Deep Learning Models. *Geomatics*, 5(4), 50. <https://doi.org/10.3390/geomatics5040050>
138. Orynassarova, E., Ahmadi, H., Pour, A. B., Yerzhankyzy, A., Zakariya, M., & Omirzhanova, Z. (2025). PRISMA hyperspectral satellite imagery for mapping alteration minerals and zones in Aktogay porphyry copper deposit, Kazakhstan: implications for new discoveries. *Geocarto International*, 40(1). <https://doi.org/10.1080/10106049.2025.2591763>
139. P, P., I, C., & Amirtham, L. R. (2025). Correlation between land surface temperature and spectral indices through assessment of UHI magnitude in Coimbatore, India. *Environmental Research Communications*, 7(10), 105009. <https://doi.org/10.1088/2515-7620/ae0c5d>

140. Pappaccogli, G., Esposito, A., & Buccolieri, R. (2025). Summer Diurnal LST Variability Across Local Climate Zones Using ECOSTRESS Data in Lecce and Milan. *Atmosphere*, 16(4), 377. <https://doi.org/10.3390/atmos16040377>
141. Pascolini-Campbell, M., Fisher, J. B., Cawse-Nicholson, K., Lee, C. M., & Stavros, N. (2025). Assessment of spatial autocorrelation and scalability in fine-scale wildfire random forest prediction models. *Scientific Reports*, 15(1), 21504. <https://doi.org/10.1038/s41598-025-06814-z>
142. Pawar, N. S., & Sharma, K. V. (2025). Comprehensive review of remote sensing integration with deep learning in landslide forecasting and future directions. *Natural Hazards*. <https://doi.org/10.1007/s11069-025-07171-w>
143. Pérez-Vega, A., & Mas, J.-F. (2025). Monitoring Irrigated Agriculture Using Remote Sensing and Census Data: A Case Study from Guanajuato, Mexico. *SN Computer Science*, 7(1), 44. <https://doi.org/10.1007/s42979-025-04591-0>
144. Pierrat, Z. A., Magney, T. S., Richardson, W. P., Runkle, B. R. K., Diehl, J. L., Yang, X., Woodgate, W., Smith, W. K., Johnston, M. R., Ginting, Y. R. S., Koren, G., Albert, L. P., Kibler, C. L., Morgan, B. E., Barnes, M., Uscanga, A., Devine, C., Javadian, M., Meza, K., ... Cawse-Nicholson, K. (2025). Proximal remote sensing: an essential tool for bridging the gap between high-resolution ecosystem monitoring and global ecology. *New Phytologist*. <https://doi.org/10.1111/nph.20405>
145. Piscini, A., & Fidani, C. (2025). A novel algorithm for thermal monitoring using ECOSTRESS time series: the case of Campi Flegrei, Naples, Italy. *Remote Sensing Letters*, 16(3), 326–338. <https://doi.org/10.1080/2150704X.2025.2459213>
146. Rabuffi, F., Musacchio, M., Silvestri, M., Cianfarra, P., Salvini, F., & Buongiorno, M. F. (2025). Integrating satellite remote sensing and proximal data to investigate the role of brittle tectonics in the distribution of geothermal surface manifestations. Insights from the Parco Naturalistico delle Biancane - Larderello geothermal field (Southern Tuscany, Italy). *Geothermics*, 132, 103428. <https://doi.org/10.1016/j.geothermics.2025.103428>
147. Rabuffi, Federico, Hulley, G., Hook, S. J., Cawse-Nicholson, K., Ramsey, M. S., Thompson, J. O., Freepartner, R. J., & La, T. T. (2025). Surface Mineralogy using Thermal InfraRed Spectroscopy Data from ECOSTRESS and ASTER. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2025.3625069>

148. Raj, S., Yerim, L., Yun, G. Y., & Santamouris, M. (2025). Contrasting urban heat disparities across income levels in Seoul and London. *Sustainable Cities and Society*, 121, 106215. <https://doi.org/10.1016/j.scs.2025.106215>
149. Richiardi, C., Caroscio, L., Crescini, E., de Marchi, M., de Pieri, G. M., Ceresi, C., Baldo, F., Francobaldi, M., & Pappalardo, S. E. (2025). A global downstream approach to mapping surface urban heat islands using open data and collaborative technology. *Sustainable Geosciences: People, Planet and Prosperity*, 100006. <https://doi.org/10.1016/j.susgeo.2025.100006>
150. Roccetti, G., Emde, C., Sterzik, M. F., Manev, M., Seidel, J. v., & Bagnulo, S. (2025). Planet Earth in reflected and polarized light. *Astronomy & Astrophysics*, 697, A170. <https://doi.org/10.1051/0004-6361/202554167>
151. Runkle, B. R. K., Barnes, M., Dannenberg, M., Gamon, J. A., Magney, T., Pierrat, Z., Southwick, C. D., Still, C., & Woodgate, W. (2025). Near-surface remote sensing applications for a robust, climate-smart measurement, monitoring, and information system (MMIS). *Carbon Management*, 16(1). <https://doi.org/10.1080/17583004.2025.2465361>
152. Saher, R., & Ott, T. (2025). Assessing the irrigation water requirement and irrigation water use at a house scale in Las Vegas Valley. *Agricultural Water Management*, 308, 109278. <https://doi.org/10.1016/j.agwat.2024.109278>
153. Sankey, T. T. (2025). UAV hyperspectral-thermal-lidar fusion in phenotyping: genetic trait differences among Fremont cottonwood populations. *Landscape Ecology*, 40(3), 45. <https://doi.org/10.1007/s10980-025-02048-6>
154. Sankey, T. T., Kyaw, T. Y., Tatum, J., Koch, G. W., Kolb, T., Lewis, R., Poulos, H. M., Barton, A. M., LaSala, B., & Thode, A. (2025). ECOSTRESS-derived semi-arid forest temperature and evapotranspiration estimates demonstrate drought and thinning impacts. *Remote Sensing in Ecology and Conservation*. <https://doi.org/10.1002/rse2.70026>
155. Sanna, A., Chamberlain, C., Prichard, S. J., Cansler, C. A., Hudak, A. T., Bienz, C., Moskal, L. M., & Kane, V. R. (2025). Assessing fuel treatments and burn severity using global and local analyses. *Fire Ecology*, 21(1), 44. <https://doi.org/10.1186/s42408-025-00387-y>
156. Sara, K., & Rajasekaran, E. (2025). High spatiotemporal resolution land surface temperature reveals fine-scale hotspots during heatwave events over India.

Environmental Research Communications, 7(3), 035027. <https://doi.org/10.1088/2515-7620/adc0f2>

157. Sarafova, E., Naydenov, K., Zhelev, D., Atanasova, A., & Ivanov, M. (2025). Urban Heat Islands in Bulgaria during the Heatwave of July 2024. *Coğrafya Dergisi / Journal of Geography*, 0(50), 15–26. <https://doi.org/10.26650/JGEOG2025-1558275>
158. Schwartz, E., Keppel-Aleks, G., & Steiner, A. L. (2025). Diffuse Fertilization or Lack Thereof: A Multisite Synthesis of Water and Carbon Fluxes. *Journal of Geophysical Research: Biogeosciences*, 130(6). <https://doi.org/10.1029/2025JG008757>
159. Shi, H., & Xian, G. (2025). Assessing gap-filled Landsat land surface temperature time-series data using different observational datasets. *International Journal of Remote Sensing*, 46(12), 4559–4582. <https://doi.org/10.1080/01431161.2025.2505254>
160. Shreevastava, A., Hulley, G., Prasanth, S., Chakraborty, T., Ramos Aguilera, D., Twomey Sanders, K., & Yin, Y. (2025). Contemporary income inequality outweighs historic redlining in shaping intra-urban heat disparities in Los Angeles. *Nature Communications*, 16(1), 4950. <https://doi.org/10.1038/s41467-025-59912-x>
161. Singha, C., Sahoo, S., & Govind, A. (2025). Hybrid Framework of Physics-Inspired Optimization and Explainable Ensemble Learning for Irrigation Classification Mapping in Morocco. *Environmental Research Communications*. <https://doi.org/10.1088/2515-7620/ae2449>
162. Sinha, S., & Banerjee, A. (2025). A systematic review of land use and land cover changes and their influence on urban heat island dynamics. *Discover Geoscience*, 3(1), 253. <https://doi.org/10.1007/s44288-025-00359-4>
163. Stefanidis, S., Ioannou, K., Proutsos, N., Karmiris, I., & Stefanidis, P. (2025). Comparative Analysis of Machine Learning Algorithms for Potential Evapotranspiration Estimation Using Limited Data at a High-Altitude Mediterranean Forest. *Atmosphere*, 16(7), 851. <https://doi.org/10.3390/atmos16070851>
164. Stewart, R. D., Flury, M., Ajami, H., Anderson, R. G., Green, T. R., Jin, Y., Patrignani, A., Shillito, R., Zhang, W., Najm, M. R. A., Babaeian, E., Berli, M., Brookshire, E. N. J., Daigh, A. L. M., Franklin, S., Giovando, J., Heinse, R., Heitman, J., Huang, J., ... Zhang, Z. F. (2025). Emerging issues and research opportunities in vadose zone processes. *Vadose Zone Journal*, 24(4). <https://doi.org/10.1002/vzj2.70030>
165. Sun, G., Dong, Z., Cai, M., Guo, Y., Chen, Y., & Chen, J. (2025). Differentiated Impacts of Urban Morphology on Land Surface Temperature across Local Climate Zones:

Interaction and Seasonality. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–19.
<https://doi.org/10.1109/JSTARS.2025.3615731>

166. Tesfamichael, S. G., Hermann, T., Shiferaw, Y. A., & Tóth, G. (2025). Primary productivity forecasting in the food-insecure eastern Sahel region using antecedent vegetation, climatic data and Random Forest. *Scientific African*, 29, e02829.
<https://doi.org/10.1016/j.sciaf.2025.e02829>
167. Thakkar, V., Srinivas, V., Marula Siddhappanavara, P., Madappa, T., Jeganathan, A., & Murthy, I. K. (2025). Heatwave health risk index for Karnataka, India. *The Journal of Climate Change and Health*, 22, 100428. <https://doi.org/10.1016/j.joclim.2025.100428>
168. Thakur, H., Raghav, P., Kumar, M., & Wolkeba, F. (2025). Surface Flux Equilibrium Theory-Derived Evapotranspiration Estimate Outperforms ECOSTRESS, MODIS, and SSEBop Products. *Geophysical Research Letters*, 52(10).
<https://doi.org/10.1029/2025GL114822>
169. Thompson, J. O., Williams, D. B., Realmuto, V. J., & Ramsey, M. S. (2025). Analysis of the 2022 HTHH eruption cycle using geostationary satellite thermal infrared spectroscopy. *Bulletin of Volcanology*, 87(12), 111. <https://doi.org/10.1007/s00445-025-01901-5>
170. Traub, M., Karlbauer, M., Hellwig, F. M., Jagdhuber, T., & Butz, M. v. (2025). *Land-Surface Temperature Super Resolution from Geostationary to Low Earth Orbit Satellite Products with a Masked Autoencoder*. <https://doi.org/10.5194/egusphere-egu25-18922>
171. Tusay, N., Wright, J. T., Beatty, T. G., Desch, S., Colón, K., Mittal, T., Osborn, H. P., Campos Estrada, B., Owen, J. E., Libby-Roberts, J., Gupta, A. F., Foley, B., Meier Valdés, E., Stevens, D. J., & Herbst, A. (2025). A Disintegrating Rocky World Shrouded in Dust and Gas: Mid-infrared Observations of K2-22 b Using JWST. *The Astrophysical Journal Letters*, 987(1), L6. <https://doi.org/10.3847/2041-8213/addfd0>
172. Usman, M., Nichol, J. E., Abdallah, A. M., & Bilal, M. (2025). Characterising the Urban Heat Island in a low-rise indigenous city using remote sensing. *Urban Climate*, 61, 102433. <https://doi.org/10.1016/j.uclim.2025.102433>
173. van Genuchten, E. (2025). How Climate Change Affects Plants in Urban Environments and Us. In *A Guide to a Healthier Planet 3* (pp. 13–20). Springer Nature Switzerland.
https://doi.org/10.1007/978-3-031-86965-5_2

174. Vidal, B., & Salgado-Cazorla, C. (2025). Leveraging PLOAM messaging for environmental temperature mapping in aerial-deployed time-division multiple access PONs. *Journal of Optical Communications and Networking*, 17(1), 1. <https://doi.org/10.1364/JOCN.530723>
175. Wang, D., Gao, L., Zhong, Y., & Cao, L. (2025). A Statistical Split Window Method Without Atmospheric Profile Input for Temperature and Emissivity Retrieval from Airborne Long-Wavelength Infrared Hyperspectral Imagery. *Recent Advances in Remote Sensing*, 1–4. <https://doi.org/10.62880/rars25001>
176. Wang, Jiaqi, Cui, X., Zhao, F., Huang, M., Guo, Y., Wang, Q., Shao, B., & Tong, Y. (2025). ECOSTRESS-Based Analysis of Diurnal Urban Heat Island Intensity and Thermal Dynamics Across LCZ in Six Chinese Cities with Diverse Terrain and Elevation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–14. <https://doi.org/10.1109/JSTARS.2025.3574573>
177. Wang, Jingjing, Wu, Y., Li, J., Zhu, Z., Fu, W., Ding, G., & Xu, X. (2025). Exploring the Diurnal Dynamics Mechanism of the Cold Island Effect in Urban Parks of Island Cities: A Three-Dimensional Spatial Morphology Perspective. *Atmosphere*, 16(10), 1202. <https://doi.org/10.3390/atmos16101202>
178. Wang, R., & Shi, C. (2025). The impact of fractional cover distribution in training samples on the accuracy of fractional cover estimation: a model-based evaluation. *Geo-Spatial Information Science*, 1–39. <https://doi.org/10.1080/10095020.2025.2514815>
179. Wang, Y., She, X., Zhu, C., Chen, J., Kong, D., Shi, W., Guan, X., Xie, Q., Gao, X., Li, W., & Li, Y. (2025). Unveiling the accuracy of global GPP products in data-scarce mountain ecosystems of Southwest China. *International Journal of Applied Earth Observation and Geoinformation*, 144, 104908. <https://doi.org/10.1016/j.jag.2025.104908>
180. Wang, Z., Zhou, R., & Yu, Y. (2025). The impact of urban morphology on land surface temperature under seasonal and diurnal variations: Marginal and interaction effects. *Building and Environment*, 272, 112673. <https://doi.org/10.1016/j.buildenv.2025.112673>
181. Wilkening, J. v., & Feng, X. (2025). Canopy Temperature Reveals Disparities in Urban Tree Benefits. *AGU Advances*, 6(1). <https://doi.org/10.1029/2024AV001438>
182. Wu, H., Zhang, G., Liu, Y., & Ming, Y. (2025). Addressing neighborhood effect averaging problem: Distinguishing mobility-based and residence-based heat exposure. *Building and Environment*, 280, 113139. <https://doi.org/10.1016/j.buildenv.2025.113139>

183. Xiao, J., Baldocchi, D., Ichii, K., Li, F., & Papale, D. (2025). Insights into terrestrial carbon and water cycling from the global eddy covariance network. *Nature Reviews Earth & Environment*. <https://doi.org/10.1038/s43017-025-00743-1>
184. Xu, H., Sun, F., Zeng, P., Bao, X., & Che, Y. (2025). Impact of diurnal variation in 3D urban landscape metrics on land surface temperature in Shanghai: A local climate zone perspective. *Energy and Buildings*, 336, 115624. <https://doi.org/10.1016/j.enbuild.2025.115624>
185. Xu, Y. (2025). Seasonal land surface temperature variations and their influencing factors in urban residential and urban village homestead blocks on Xiamen Island, China. *Geocarto International*, 40(1). <https://doi.org/10.1080/10106049.2025.2603038>
186. Xu, Y., Willis, S., Dallmann, A., Cai, H., Hu, L., Zou, L., Zhai, W., He, C., Alberston, J., Zhao, X., Schade, G. W., Gao, H., Eslami, E., Wang, Z.-H., Kumar, D., Li, Q., Fan, C., Mejia, J. F., Olonilua, O., ... Ye, X. (2025). Urban Climate Adaptation and REsilience (U-CARE) in Texas: Insights from Interdisciplinary Perspectives. *Applied Spatial Analysis and Policy*, 18(2), 53. <https://doi.org/10.1007/s12061-025-09655-5>
187. Yan, D., & Zhang, Y. (2025). Investigating snow cover duration changes based on a cloud-free snow cover product developed using a spatiotemporal cloud removal method for Northeast China. *International Journal of Digital Earth*, 18(1). <https://doi.org/10.1080/17538947.2025.2497520>
188. Yang, J., Ren, J., Creutzig, F., Zhao, B., Sun, W., Xiao, X., Xia, J., & Ge, Q. (2025). Continuous assessment of the factors driving the urban surface thermal environment in 1,469 cities worldwide. *Cell Reports Sustainability*, 100463. <https://doi.org/10.1016/j.crsus.2025.100463>
189. Yang, Z., & Peng, J. (2025). Efficiency-oriented phased urban green space planning framework to mitigate heat-stress exposure. *Npj Urban Sustainability*, 5(1), 57. <https://doi.org/10.1038/s42949-025-00247-3>
190. Yu, Z., Li, S., Yang, W., Chen, Jiquan, Rahman, M. A., Wang, C., Ma, W., Yao, X., Xiong, J., Xu, C., Zhou, Y., Chen, Jike, Huang, K., Gao, X., Fensholt, R., Weng, Q., & Zhou, W. (2025). Enhancing Climate-Driven Urban Tree Cooling with Targeted Nonclimatic Interventions. *Environmental Science & Technology*. <https://doi.org/10.1021/acs.est.4c14275>
191. Yuan, W., Hu, S., Zhan, C., Wang, G., & Luo, Y. (2025). Machine learning land surface temperature downscaling method based on Landsat 9 and Sentinel-2 satellite feature

interaction. *Geo-Spatial Information Science*, 1–22.
<https://doi.org/10.1080/10095020.2025.2598526>

192. Yun, M., & Park, Y. (2025). Understanding the spatial distribution and nonlinear drivers of the diurnal surface temperature range: Insights from ECOSTRESS and explainable machine learning. *Applied Geography*, 181, 103672.
<https://doi.org/10.1016/j.apgeog.2025.103672>
193. Zeng, K., Gao, F., Peng, Y., Liu, C., Chen, W., & Li, G. (2025). Riding through the heat: Assessing heat health risk of cycling based on diurnal temperature and shared-bike big data. *Applied Geography*, 184, 103764. <https://doi.org/10.1016/j.apgeog.2025.103764>
194. Zhang, H., Hu, T., Tang, B.-H., Oliso, A., Didry, Y., Mallick, K., Hitzelberger, P., Jiang, Y., Cheng, Y., & Szantoi, Z. (2025). Revisit of the Temperature and Emissivity Separation Algorithm (TES) towards Model Refinement. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2025.3540710>
195. Zhang, H., Mahmood, A. N., Hu, T., Mallick, K., Didry, Y., Hitzelberger, P., Szantoi, Z., Pérez-Planells, L., Götsche, F. M., Hulley, G. C., & Hook, S. J. (2025). Global evaluation of high-resolution ECOSTRESS land surface temperature and emissivity products: Collection 1 versus Collection 2. *Remote Sensing of Environment*, 326, 114799. <https://doi.org/10.1016/j.rse.2025.114799>
196. Zhang, N., & Mahmoud, W. H. (2025). Target Detection in Hyperspectral Imagery Using Spectral Signature Matching Algorithms. *2025 13th International Conference on Intelligent Control and Information Processing (ICICIP)*, 108–114.
<https://doi.org/10.1109/ICICIP64458.2025.10898116>
197. Zhang, N., Ding, Q., & Wang, H. (2025). Investigating the influence of urban green spaces on urban heat island mitigation – taking four districts in Shijiazhuang as an example. *Journal of Environmental Engineering and Landscape Management*, 33(1), 42–54. <https://doi.org/10.3846/jeelm.2025.22956>
198. Zhang, Q., Yang, J., Xin, J., Ren, J., Yu, W., Xiao, X., & Xia, J. (2025). Cooler urban spaces? Analysis and optimization of heat-exposed landscape morphology from the perspective of local climate zones. *Sustainable Cities and Society*, 130, 106630.
<https://doi.org/10.1016/j.scs.2025.106630>
199. Zhang, T., Tao, Q., Qin, X., Wu, Y., Xi, J., Liang, X., He, H., & Komarneni, S. (2025). Martian Smectites Formation Regulated by Environmental CO₂ and Si. *Journal of Geophysical Research: Planets*, 130(3). <https://doi.org/10.1029/2024JE008619>

200. Zhang, Y., & Huang, B. (2025). Influence of Urban Commercial Street Interface Morphology on Surrounding Wind Environment and Thermal Comfort. *Atmosphere*, 16(1), 53. <https://doi.org/10.3390/atmos16010053>
201. Zhang, Z., Dong, Y., Li, C., Wu, C., Wang, Q., & Liu, X. (2025). Impacts and Spatiotemporal Differentiation of Built Environments on the Urban Heat Island Effect in Cold-Climate Cities Based on Local Climate Zones. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–18. <https://doi.org/10.1109/JSTARS.2025.3530525>
202. Zhao, L., Fan, X., & Hong, T. (2025). Urban Heat Island Effect: Remote Sensing Monitoring and Assessment—Methods, Applications, and Future Directions. *Atmosphere*, 16(7), 791. <https://doi.org/10.3390/atmos16070791>
203. Zhu, L., Yang, J., Ouyang, X., Shi, Q., Xu, Y., Wong, M. S., & Menenti, M. (2025). An Improved TES Method to Retrieve Urban Surface Temperature. *IEEE Transactions on Geoscience and Remote Sensing*, 63, 1–13. <https://doi.org/10.1109/TGRS.2025.3642812>
204. Zhu, Y., Myint, S. W., Schaffer-Smith, D., Tong, D., Zhou, Y., Li, Y., & Muenich, R. L. (2025). Rising Environmental Inequalities and Their Relationship to Racial and Socioeconomic Disparities in the US Southwest. *Environmental Science & Technology*, 59(33), 17534–17544. <https://doi.org/10.1021/acs.est.4c14369>
205. Abera, N., & Yeshitela, K. (2024). Exploring the thermal characteristics of different local climate zones in Addis Ababa, Ethiopia. *Theoretical and Applied Climatology*. <https://doi.org/10.1007/s00704-024-04908-8>
206. Adeniran, I. A., Nazeer, M., Wong, M. S., Zhu, R., Yang, J., & Chan, P.-W. (2024). Improved fusion model for generating hourly fine scale land surface temperature data under all-weather condition. *International Journal of Applied Earth Observation and Geoinformation*, 131, 103981. <https://doi.org/10.1016/j.jag.2024.103981>
207. Ahechach, Y., Raji, O., Ouabid, M., Malainine, C.-E., Bodinier, J.-L., Parat, F., el Messbahi, H., Khadiri-Yazami, O., Jourani, E., & Dautria, J.-M. (2024). Syenite mapping and prediction of geochemical Na versus K signatures: A novel remote sensing approach and implications for mineral resources. *Journal of Geochemical Exploration*, 262, 107489. <https://doi.org/10.1016/j.gexplo.2024.107489>

208. Ahmad, J., Sajjad, M., & Eisma, J. (2024). Small unmanned aerial vehicle (UAV)-based detection of seasonal micro-urban heat islands for diverse land uses. *International Journal of Remote Sensing*, 1–29. <https://doi.org/10.1080/01431161.2024.2391582>
209. Anderson, M. C., Kustas, W. P., Norman, J. M., Diak, G. T., Hain, C. R., Gao, F., Yang, Yun, Knipper, K. R., Xue, J., Yang, Yang, Crow, W. T., Holmes, T. R. H., Nieto, H., Guzinski, R., Otkin, J. A., Mecikalski, J. R., Cammalleri, C., Torres-Rua, A. T., Zhan, X., ... Agam, N. (2024). A brief history of the thermal IR-based Two-Source Energy Balance (TSEB) model – diagnosing evapotranspiration from plant to global scales. *Agricultural and Forest Meteorology*, 350, 109951. <https://doi.org/10.1016/j.agrformet.2024.109951>
210. Añel, J. A., Pérez-Souto, C., Bayo-Besteiro, S., Prieto-Godino, L., Bloomfield, H., Troccoli, A., & Torre, L. de la. (2024). Extreme weather events and the energy sector in 2021. *Weather, Climate, and Society*. <https://doi.org/10.1175/WCAS-D-23-0115.1>
211. Asadzadeh, S., & de Souza Filho, C. R. (2024). REMOTE SENSING ANALYSIS AND NUMERICAL MODELLING OF SURFACE TEMPERATURE ANOMALIES OVER PETROLEUM ACCUMULATIONS: A CASE STUDY OF THE ALBORZ OILFIELD, CENTRAL IRAN. *Journal of Petroleum Geology*, 47(2), 215–230. <https://doi.org/10.1111/jpg.12857>
212. Awada, H., Sirca, C., Marras, S., Castellini, M., Spano, D., & Pirastru, M. (2024). Modelling soil moisture and daily actual evapotranspiration: Integrating remote sensing surface energy balance and 1D Richards equation. *International Journal of Applied Earth Observation and Geoinformation*, 128, 103744. <https://doi.org/10.1016/j.jag.2024.103744>
213. Bafti, A. G., Ahmadi, A., Abbasi, A., Kamangir, H., Jamali, S., & Hashemi, H. (2024). Automated actual evapotranspiration estimation: Hybrid model of a novel attention based U-Net and metaheuristic optimization algorithms. *Atmospheric Research*, 297, 107107. <https://doi.org/10.1016/j.atmosres.2023.107107>
214. Bai, X., Yu, Z., Wang, B., Zhang, Y., Zhou, S., Sha, X., Li, S., Yao, X., & Geng, X. (2024). Quantifying threshold and scale response of urban air and surface temperature to surrounding landscapes under extreme heat. *Building and Environment*, 247, 111029. <https://doi.org/10.1016/j.buildenv.2023.111029>
215. Bai, Yu, Liu, M., Wang, W., Xiong, X., & Li, S. (2024). Impact of urban greenspace on the urban thermal environment: A case study of Shenzhen, China. *Sustainable Cities and Society*, 112, 105591. <https://doi.org/10.1016/j.scs.2024.105591>

216. Bai, Yun, Mallick, K., Hu, T., Zhang, S., Yang, S., & Ahmadi, A. (2024). Integrating machine learning with thermal-driven analytical energy balance model improved terrestrial evapotranspiration estimation through enhanced surface conductance. *Remote Sensing of Environment*, 311, 114308. <https://doi.org/10.1016/j.rse.2024.114308>
217. Bartkowiak, P., Ventura, B., Jacob, A., & Castelli, M. (2024). A Copernicus-based evapotranspiration dataset at 100 m spatial resolution over four Mediterranean basins. *Earth System Science Data*, 16(10), 4709–4734. <https://doi.org/10.5194/essd-16-4709-2024>
218. Bathiany, S., Bastiaansen, R., Bastos, A., Blaschke, L., Lever, J., Loriani, S., de Keersmaecker, W., Dorigo, W., Milenković, M., Senf, C., Smith, T., Verbesselt, J., & Boers, N. (2024). Ecosystem Resilience Monitoring and Early Warning Using Earth Observation Data: Challenges and Outlook. *Surveys in Geophysics*. <https://doi.org/10.1007/s10712-024-09833-z>
219. Belov, M. L., Belov, A. M., Gorodnichev, V. A., Alkov, S. v., & Shkarupilo, A. A. (2024). The comparative analysis of different two-wavelength laser altimeter versions for forest monitoring. *Journal of Physics: Conference Series*, 2697(1), 012076. <https://doi.org/10.1088/1742-6596/2697/1/012076>
220. Bian, Z., Fan, T., Roujean, J.-L., Wang, D., Irvine, M., Wu, S., Cao, B., Li, H., Du, Y., Xiao, Q., & Liu, Q. (2024). An analytical urban temperature model with building heterogeneity using geometric optical theory. *Remote Sensing of Environment*, 301, 113948. <https://doi.org/10.1016/j.rse.2023.113948>
221. Bian, Z., Zhong, S., Roujean, J.-L., Liu, X., Duan, S., Li, H., Cao, B., Li, R., Du, Y., Xiao, Q., & Liu, Q. (2024). An integrated method for angular and temporal reconstruction of land surface temperatures. *Remote Sensing of Environment*, 313, 114357. <https://doi.org/10.1016/j.rse.2024.114357>
222. Bos, J. T., & Pinsky, M. L. (2024). *Fine resolution satellite sea surface temperatures capture the conditions experienced by corals at monthly but not daily time scales*. <https://doi.org/10.21203/rs.3.rs-5314629/v1>
223. Boser, A., Caylor, K., Larsen, A., Pascolini-Campbell, M., Reager, J. T., & Carleton, T. (2024). Field-scale crop water consumption estimates reveal potential water savings in California agriculture. *Nature Communications*, 15(1), 2366. <https://doi.org/10.1038/s41467-024-46031-2>

224. Budzik, G., Sylla, M., & Kowalczyk, T. (2024a). Understanding Urban Cooling of Blue–Green Infrastructure: A Review of Spatial Data and Sustainable Planning Optimization Methods for Mitigating Urban Heat Islands. *Sustainability*, 17(1), 142. <https://doi.org/10.3390/su17010142>
225. Budzik, G., Sylla, M., & Kowalczyk, T. (2024b). Understanding Urban Cooling of Blue–Green Infrastructure: A Review of Spatial Data and Sustainable Planning Optimization Methods for Mitigating Urban Heat Islands. *Sustainability*, 17(1), 142. <https://doi.org/10.3390/su17010142>
226. Buri, P., Fatichi, S., Shaw, T. E., Fyffe, C. L., Miles, E. S., McCarthy, M. J., Kneib, M., Ren, S., Jouberton, A., Fugger, S., Jia, L., Zhang, J., Shen, C., Zheng, C., Menenti, M., & Pellicciotti, F. (2024). Land surface modeling informed by earth observation data: toward understanding blue–green–white water fluxes in High Mountain Asia. *Geo-Spatial Information Science*, 1–25. <https://doi.org/10.1080/10095020.2024.2330546>
227. Bygate, M., & Ahmed, M. (2024). Monitoring Water Quality Indicators over Matagorda Bay, Texas, Using Landsat-8. *Remote Sensing*, 16(7), 1120. <https://doi.org/10.3390/rs16071120>
228. Celis, J., Xiao, X., Wagle, P., Basara, J., McCarthy, H., & Souza, L. (2024). A comparison of moderate and high spatial resolution satellite data for modeling gross primary production and transpiration of native prairie, alfalfa, and winter wheat. *Agricultural and Forest Meteorology*, 344, 109797. <https://doi.org/10.1016/j.agrformet.2023.109797>
229. Cervini, G., Jung, J., & Gkritza, K. (2024a). Temperature and electric vehicle adoption: A ZIP code-level analysis in the US. *Transportation Research Part D: Transport and Environment*, 136, 104435. <https://doi.org/10.1016/j.trd.2024.104435>
230. Cervini, G., Jung, J., & Gkritza, K. (2024b). Temperature as a Key Predictor of Electric Vehicle Adoption: Insights from California and New York. *2024 Forum for Innovative Sustainable Transportation Systems (FISTS)*, 1–6. <https://doi.org/10.1109/FISTS60717.2024.10485540>
231. Cetin, S., Ülker, B., Erten, E., & Cinbis, R. G. (2024). SAR2ET: End-to-end SAR-driven Multisource ET Imagery Estimation Over Croplands. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–17. <https://doi.org/10.1109/JSTARS.2024.3447033>

232. Chandel, A. (2024). Satellite-Based Remote Sensing Approaches for Estimating Evapotranspiration from Agricultural Systems. In *Digital Agriculture* (pp. 281–323). Springer International Publishing. https://doi.org/10.1007/978-3-031-43548-5_9
233. Chang, Y., Cao, Y., & Weng, Q. (2024). Generating Hourly 70-M Land Surface Temperature from GOES-R Observations: A Comparison of Statistical Downscaling and Deep Learning Methods. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 918–920. <https://doi.org/10.1109/IGARSS53475.2024.10640401>
234. Chao, J., Zhao, Z., Xu, S., Lai, Z., Liu, J., Zhao, F., Yang, H., & Chen, Q. (2024a). Geothermal target detection integrating multi-source and multi-temporal thermal infrared data. *Ore Geology Reviews*, 167, 105991. <https://doi.org/10.1016/j.oregeorev.2024.105991>
235. Chao, J., Zhao, Z., Xu, S., Lai, Z., Liu, J., Zhao, F., Yang, H., & Chen, Q. (2024b). Geothermal target detection integrating multi-source and multi-temporal thermal infrared data. *Ore Geology Reviews*, 167, 105991. <https://doi.org/10.1016/j.oregeorev.2024.105991>
236. Chen, A., Lv, Z., Zhang, J., Yu, G., & Wan, R. (2024). Review of the Accuracy of Satellite Remote Sensing Techniques in Identifying Coastal Aquaculture Facilities. *Fishes*, 9(2), 52. <https://doi.org/10.3390/fishes9020052>
237. Chen, J., Wang, K., Du, P., Zang, Y., Zhang, P., Xia, J., Chen, C., & Yu, Z. (2024). Quantifying the main and interactive effects of the dominant factors on the diurnal cycles of land surface temperature in typical urban functional zones. *Sustainable Cities and Society*, 105727. <https://doi.org/10.1016/j.scs.2024.105727>
238. Chen, R., Wang, C., Que, X., Liao, F. H., Ma, X., Wang, Z., Li, Z., Wen, K., Lai, Y., & Xu, X. (2024). Exploring Urban Heat Distribution and Thermal Comfort Exposure Using Spatiotemporal Weighted Regression (STWR). *Buildings*, 14(6), 1883. <https://doi.org/10.3390/buildings14061883>
239. Chen, S., Bruhn, S., & Seto, K. C. (2024). Trends in socioeconomic disparities in urban heat exposure and adaptation options in mid-sized U.S. cities. *Remote Sensing Applications: Society and Environment*, 36, 101313. <https://doi.org/10.1016/j.rsase.2024.101313>

240. Chen, W., DiPirro, M., McKinley, I., Cho, C., & Tseng, H. (2024). Active cryocooling needs for NASA space instruments and future technology development. *Cryogenics*, *141*, 103877. <https://doi.org/10.1016/j.cryogenics.2024.103877>
241. Cheval, S., Amihăesei, V.-A., Chitu, Z., Dumitrescu, A., Falcescu, V., Iraşoc, A., Micu, D. M., Mihulet, E., Ontel, I., Paraschiv, M.-G., & Tudose, N. C. (2024). A systematic review of urban heat island and heat waves research (1991–2022). *Climate Risk Management*, *44*, 100603. <https://doi.org/10.1016/j.crm.2024.100603>
242. Comini de Andrade, B., Laipelt, L., Fleischmann, A., Huntington, J., Morton, C., Melton, F., Erickson, T., Roberti, D. R., de Arruda Souza, V., Biudes, M., Gomes Machado, N., Antonio Costa dos Santos, C., Cosio, E. G., & Ruhoff, A. (2024). geeSEBAL-MODIS: Continental-scale evapotranspiration based on the surface energy balance for South America. *ISPRS Journal of Photogrammetry and Remote Sensing*, *207*, 141–163. <https://doi.org/10.1016/j.isprsjprs.2023.12.001>
243. Costanzo, A., Silvestri, M., Musacchio, M., Buongiorno, F., Giovinazzi, S., & Villani, M. L. (2024). Assessment of Population Health Risks Due to Heat Islands Using Thermal Satellite Images (The Case of Valencia). *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 2216–2221. <https://doi.org/10.1109/IGARSS53475.2024.10641574>
244. de Almeida, D. R. A., Vedovato, L. B., Fuza, M., Molin, P., Cassol, H., Resende, A. F., Krainovic, P. M., de Almeida, C. T., Amaral, C., Haneda, L., Albuquerque, R. W., Gorgens, E., Romanelli, J., Ferreira, M., Salk, C., Espinoza, N., Silva, C., Broadbent, E., & Brancalion, P. H. S. (2024). Remote sensing approaches to monitor tropical forest restoration: Current methods and future possibilities. *Journal of Applied Ecology*. <https://doi.org/10.1111/1365-2664.14830>
245. de MIRANDA, V. F. V. V., Jimenez, J. C., Dutra, E., & Trigo, I. F. (2024). Consistency assessment of latent heat flux and observational datasets over the Amazon basin. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ad40c3>
246. Dempsey, N., & Nam, J. (2024). Urban parks in crisis...again? A historical examination of the political, economic and social context of UK parks. *Landscape and Ecological Engineering*. <https://doi.org/10.1007/s11355-024-00597-7>
247. Deng, H., Liu, K., Feng, J., & Xiong, Y. (2024). Tackling the modifiable areal unit problem: Enhancing urban sustainability through improved land surface temperature and its influencing factors analysis. *Sustainable Cities and Society*, *114*, 105747. <https://doi.org/10.1016/j.scs.2024.105747>

248. Diem, P. K., Nguyen, C. T., Diem, N. K., Diep, N. T. H., Thao, P. T. B., Hong, T. G., & Phan, T. N. (2024). Remote sensing for urban heat island research: Progress, current issues, and perspectives. *Remote Sensing Applications: Society and Environment*, 33, 101081. <https://doi.org/10.1016/j.rsase.2023.101081>
249. Dimitrakos, A., Mito, C. O., Laneve, G., Lekakis, M., Ververis, M., Vanguri, R., Orsi, R., Saquella, S., & Oikonomopoulos, V. (2024). Satellite Data Fusion for Food Security Enhancement in Tropical Areas. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 1933–1936. <https://doi.org/10.1109/IGARSS53475.2024.10640992>
250. Ding, W., Liu, M., Wu, Y., & Chen, H. (2024). How to expand the cooling capacity of blue and green spaces in peri-urban areas throughout the entire diurnal cycle: Evidence from an inland multilake city. *Journal of Cleaner Production*, 141165. <https://doi.org/10.1016/j.jclepro.2024.141165>
251. Docter, N., Hünerbein, A., Donovan, D. P., Preusker, R., Fischer, J., Meirink, J. F., Stammes, P., & Eisinger, M. (2024). Assessment of the spectral misalignment effect (SMILE) on EarthCARE's Multi-Spectral Imager aerosol and cloud property retrievals. *Atmospheric Measurement Techniques*, 17(8), 2507–2519. <https://doi.org/10.5194/amt-17-2507-2024>
252. Dorken Gallastegi, U., Rueda-Chacón, H., Stevens, M. J., & Goyal, V. K. (2024). Absorption-based hyperspectral thermal ranging: performance analyses, optimization, and simulations. *Optics Express*, 32(1), 151. <https://doi.org/10.1364/OE.507927>
253. Du, M., Li, N., Hu, T., Yang, Q., Chakraborty, T., Venter, Z., & Yao, R. (2024). Daytime cooling efficiencies of urban trees derived from surface temperature are much higher than those for air temperature. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ad30a3>
254. Duethmann, D., Anderson, M., Maneta, M. P., & Tetzlaff, D. (2024). Improving process-consistency of an ecohydrological model through inclusion of spatial patterns of satellite-derived land surface temperature. *Journal of Hydrology*, 628, 130433. <https://doi.org/10.1016/j.jhydrol.2023.130433>
255. Ehrlich-Sommer, F., Hoenigsberger, F., Gollob, C., Nothdurft, A., Stampfer, K., & Holzinger, A. (2024). Sensors for Digital Transformation in Smart Forestry. *Sensors*, 24(3), 798. <https://doi.org/10.3390/s24030798>

256. Ellis, E. A., Allen, G. H., Riggs, R. M., Gao, H., Li, Y., & Carey, C. C. (2024). Bridging the divide between inland water quantity and quality with satellite remote sensing: An interdisciplinary review. *WIREs Water*. <https://doi.org/10.1002/wat2.1725>
257. Enterkine, J., Caughlin, T. T., Dashti, H., & Glenn, N. F. (2024). Applied soft classes and fuzzy confusion in a patchwork semi-arid ecosystem: Stitching together classification techniques to preserve ecologically-meaningful information. *Remote Sensing of Environment*, 300, 113853. <https://doi.org/10.1016/j.rse.2023.113853>
258. Ermida, S. L., Hulley, G., & Trigo, I. F. (2024). Introducing emissivity directionality to the temperature-emissivity separation algorithm. *Remote Sensing of Environment*, 311, 114280. <https://doi.org/10.1016/j.rse.2024.114280>
259. Esquivel, F. J., Romero-Béjar, J. L., & Esquivel, J. A. (2024). Preprocessing of spectroscopic data to highlight spectral features of materials. *Analytical Science Advances*. <https://doi.org/10.1002/ansa.202400018>
260. Faseyiku, O. O., Obiora-Okeke, O. A., Olowoselu, A. S., Olafusi, O. R., & Adewumi, J. R. (2024). Validation of selected gridded potential evapotranspiration datasets with ground-based observations over the Ogun-Osun River Basin, Nigeria. *Arabian Journal of Geosciences*, 17(5), 153. <https://doi.org/10.1007/s12517-024-11962-z>
261. Fayne, J. v. (2024). SWOT Phenomenology for Lakes and Wet-Lands. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 4338–4343. <https://doi.org/10.1109/IGARSS53475.2024.10641800>
262. Fayshal, Md. A., Uddin, Md. J., Haque, Md. N., & Niloy, Md. N. R. (2024). Unveiling the impact of rapid urbanization on human comfort: a remote sensing-based study in Rajshahi Division, Bangladesh. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-023-04354-y>
263. Feldman, A. F., Koster, R. D., Cawse-Nicholson, K., Crow, W. T., Holmes, T. R. H., & Poulter, B. (2024a). Soil Moisture Profiles of Ecosystem Water Use Revealed With ECOSTRESS. *Geophysical Research Letters*, 51(8). <https://doi.org/10.1029/2024GL108326>
264. Feldman, A. F., Koster, R. D., Cawse-Nicholson, K., Crow, W. T., Holmes, T. R. H., & Poulter, B. (2024b). Soil Moisture Profiles of Ecosystem Water Use Revealed With ECOSTRESS. *Geophysical Research Letters*, 51(8). <https://doi.org/10.1029/2024GL108326>

265. Feldman, A. F., Reed, S., Amaral, C., Babst-Kostecka, A., Babst, F., Biederman, J., Devine, C., Fu, Z., Green, J. K., Guo, J., Hanan, N. P., Kokaly, R., Litvak, M., MacBean, N., Moore, D., Ojima, D., Poulter, B., Scott, R. L., Smith, W. K., ... Zhang, W. (2024). Adaptation and Response in Drylands (ARID): Community Insights for Scoping a NASA Terrestrial Ecology Field Campaign in Drylands. *Earth's Future*, 12(9). <https://doi.org/10.1029/2024EF004811>
266. Felicioni, L., Lupíšek, A., & Gaspari, J. (2024). Implementing resilience in sustainable building design: Testing selected resilience criteria in a case study. *IOP Conference Series: Earth and Environmental Science*, 1402(1), 012014. <https://doi.org/10.1088/1755-1315/1402/1/012014>
267. Fernández-Guisuraga, J. M., & Fernandes, P. M. (2024). Prescribed burning mitigates the severity of subsequent wildfires in Mediterranean shrublands. *Fire Ecology*, 20(1), 4. <https://doi.org/10.1186/s42408-023-00233-z>
268. Fernández-Guisuraga, J. M., Fernández-Manso, A., Quintano, C., Fernández-García, V., Cerrillo, A., Marqués, G., Cascallana, G., & Calvo, L. (2024). FIREMAP: Cloud-based software to automate the estimation of wildfire-induced ecological impacts and recovery processes using remote sensing techniques. *Ecological Informatics*, 81, 102591. <https://doi.org/10.1016/j.ecoinf.2024.102591>
269. Fugger, S., Shaw, T. E., Jouberton, A., Miles, E. S., Buri, P., McCarthy, M. J., Fyffe, C., Fatichi, S., Kneib, M., Molnar, P., & Pellicciotti, F. (2024). Hydrological regimes and evaporative flux partitioning at the climatic ends of High Mountain Asia. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ad25a0>
270. Gao, C., Liu, J., Ma, H., Zhao, E., Wang, R., Han, Q., Xu, Z., Li, W., & Duan, S.-B. (2024). An Uncertainty-Based Validation Method for Surface Temperature Products Derived from Sentinel-3/SLSTR Using Ground Measurements. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2024.3386178>
271. Gao, J., Sun, H., Xu, Z., Zhang, T., Xu, H., Wu, D., & Zhao, X. (2024). CPMF: An integrated technology for generating 30-m, all-weather land surface temperature by Coupling Physical model, Machine learning and spatiotemporal Fusion model. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2024.3505933>
272. Gao, S., Zhang, X., Zhang, H. K., Shen, Y., Roy, D. P., Wang, W., & Schaaf, C. (2024). A new constant scattering angle solar geometry definition for normalization of GOES-R ABI reflectance times series to support land surface phenology studies. *Remote Sensing of Environment*, 315, 114407. <https://doi.org/10.1016/j.rse.2024.114407>

273. Garrido, F., & Granda, P. (2024). Risk Analysis of Soil Erosion Using Remote Sensing, GIS, and Machine Learning Models in Imbabura Province, Ecuador. *SN Computer Science*, 5(7), 824. <https://doi.org/10.1007/s42979-024-03150-3>
274. Goffin, B. D., Cortés-Monroy, C. C., Neira-Román, F., Gupta, D. D., & Lakshmi, V. (2024). At Which Overpass Time Do ECOSTRESS Observations Best Align with Crop Health and Water Rights? *Remote Sensing*, 16(17), 3174. <https://doi.org/10.3390/rs16173174>
275. Guo, Fei, Zheng, R., Zhao, J., Zhang, H., & Dong, J. (2024). Framework of street grid-based urban heat vulnerability assessment: Integrating entropy weight method and BPNN model. *Urban Climate*, 56, 102067. <https://doi.org/10.1016/j.uclim.2024.102067>
276. Guo, Fengxiang, Hertel, D., Schlink, U., Hu, D., Qian, J., & Wu, W. (2024). Remote Sensing-Based Attribution of Urban Heat Islands to the Drivers of Heat. *IEEE Transactions on Geoscience and Remote Sensing*, 62, 1–12. <https://doi.org/10.1109/TGRS.2024.3378287>
277. Guo, Fengxiang, Hu, D., & Schlink, U. (2024). A comprehensive metric scheme for characterizing the heterogeneity of urban thermal landscapes: A case study of 14-year evaluation in Beijing. *Ecological Indicators*, 166, 112268. <https://doi.org/10.1016/j.ecolind.2024.112268>
278. Guo, Q., Lin, Y., Zhong, S., & Zhang, X. (2024). Driving factors of summer diurnal surface thermal environment in subtropical coastal cities: a Shenzhen case study. *International Journal of Environmental Science and Technology*. <https://doi.org/10.1007/s13762-024-06112-7>
279. Guo, X., Yao, Y., Tang, Q., Liang, S., Shao, C., Fisher, J. B., Chen, J., Jia, K., Zhang, X., Shang, K., Yang, J., Yu, R., Xie, Z., Liu, L., Ning, J., & Zhang, L. (2024). Multimodel ensemble estimation of Landsat-like global terrestrial latent heat flux using a generalized deep CNN-LSTM integration algorithm. *Agricultural and Forest Meteorology*, 349, 109962. <https://doi.org/10.1016/j.agrformet.2024.109962>
280. Hamdi, I., Fawzy, M., Zelenakova, M., & Abbas, W. (2024). Heat Island dynamics and heat stress implications on the population of El-Mansourah conurbation, Egypt: temporal and proposed solutions using MODIS imagery and ENVI-met simulation. *Geomatics, Natural Hazards and Risk*, 15(1). <https://doi.org/10.1080/19475705.2023.2291328>
281. Han, D., Cai, H., Wang, F., Wang, M., Xu, X., Qiao, Z., An, H., Liu, Y., Jia, K., Sun, Z., & Wang, S. (2024). Understanding the role of urban features in land surface temperature

at the block scale: A diurnal cycle perspective. *Sustainable Cities and Society*, 111, 105588. <https://doi.org/10.1016/j.scs.2024.105588>

282. Han, J., Guzman, J. A., & Chu, M. L. (2024). Dynamic land cover evapotranspiration model algorithm: DyLEMa. *Computers and Electronics in Agriculture*, 220, 108875. <https://doi.org/10.1016/j.compag.2024.108875>
283. Han, P., Yang, G., Liu, Y., Chen, X., Wen, Z., Shi, H., Hu, E., Xue, T., & Zhao, Y. (2024). Vegetation Restoration Enhanced Canopy Interception and Soil Evaporation but Constrained Transpiration in Hekou–Longmen Section During 2000–2018. *Agronomy*, 14(11), 2606. <https://doi.org/10.3390/agronomy14112606>
284. Hazimeh, R., & Jaafar, H. (2024). Impact of ET and biomass model choices on economic irrigation water productivity in water-scarce basins. *Agricultural Water Management*, 292, 108651. <https://doi.org/10.1016/j.agwat.2023.108651>
285. He, T., Hu, Y., Guo, A., Chen, Y., Yang, J., Li, M., & Zhang, M. (2024). Quantifying the impact of urban trees on land surface temperature in global cities. *ISPRS Journal of Photogrammetry and Remote Sensing*, 210, 69–79. <https://doi.org/10.1016/j.isprsjprs.2024.03.007>
286. He, Y., Chen, H., Wang, S., Wang, Q., Zhang, C., Hao, Q., Li, R., Li, S., Liu, X., & Guo, X. (2024). Unveiling recombination in top cells: SCAPS-1D simulations for high-efficiency bifacial planar perovskite/silicon tandem solar cells. *Solar Energy*, 282, 112921. <https://doi.org/10.1016/j.solener.2024.112921>
287. He, Z., Tang, B., & Li, Z. (2024). Retrieval of high spatial resolution mountainous land surface temperature considering topographic and adjacency effects. *Science China Earth Sciences*. <https://doi.org/10.1007/s11430-023-1398-2>
288. Holmes, T. R. H., Poulter, B., McCorkel, J., Jennings, D. E., Wu, D. L., Efremova, B., Shiklomanov, A., Johnson, W. R., Jhabvala, M., & Hook, S. J. (2024). On-Orbit Spatial Performance Characterization for Thermal Infrared Imagers of Landsat 7, 8, and 9, ECOSTRESS and CTI. *Journal of Geophysical Research: Biogeosciences*, 129(2). <https://doi.org/10.1029/2023JG007506>
289. Hossain, M., Younis, M., Robinson, A., Wang, L., & Preza, C. (2024). Greedy Ensemble Hyperspectral Anomaly Detection. *Journal of Imaging*, 10(6), 131. <https://doi.org/10.3390/jimaging10060131>

290. Hu, L., & Uejio, C. (2024). Ground Urban Heat Island: Strengthening the Connection Between Spaceborne Thermal Observations and Urban Heat Risk Management. *GeoHealth*, 8(7). <https://doi.org/10.1029/2024GH001114>
291. Huang, X., Li, L., Yan, X., Ji, W., Zhao, K., & Zhao, X. (2024). Assessment of heat exposure risk for urban populations and spatio-temporal patterns: A perspective of urban functional zones in Xi'an, China. *Urban Climate*, 55, 101992. <https://doi.org/10.1016/j.uclim.2024.101992>
292. Hubbard, B. E., Gallegos, T. J., Stengel, V., Hoefen, T. M., Kokaly, R. F., & Elliott, B. (2024). Hyperspectral (VNIR-SWIR) analysis of roll front uranium host rocks and industrial minerals from Karnes and Live Oak Counties, Texas Coastal Plain. *Journal of Geochemical Exploration*, 257, 107370. <https://doi.org/10.1016/j.gexplo.2023.107370>
293. Hurduc, A., Ermida, S. L., Trigo, I. F., & DaCamara, C. C. (2024). Importance of temporal dimension and rural land cover when computing surface urban Heat Island intensity. *Urban Climate*, 56, 102013. <https://doi.org/10.1016/j.uclim.2024.102013>
294. Jain, K., John, R., Torbick, N., Kolluru, V., Saraf, S., Chandel, A., Henebry, G. M., & Jarchow, M. (2024). Monitoring the Spatial Distribution of Cover Crops and Tillage Practices Using Machine Learning and Environmental Drivers across Eastern South Dakota. *Environmental Management*. <https://doi.org/10.1007/s00267-024-02021-0>
295. Jamalnia, E., Dai, J., Vaughn, N. R., Martin, R. E., Hondula, K., König, M., Heckler, J., & Asner, G. P. (2024). Crop Canopy Nitrogen Estimation from Mixed Pixels in Agricultural Lands Using Imaging Spectroscopy. *Remote Sensing*, 16(8), 1382. <https://doi.org/10.3390/rs16081382>
296. Javadian, M., Aubrecht, D. M., Fisher, J. B., Scott, R. L., Burns, S. P., Diehl, J. L., Munger, J. W., & Richardson, A. D. (2024). Scaling Individual Tree Transpiration With Thermal Cameras Reveals Interspecies Differences to Drought Vulnerability. *Geophysical Research Letters*, 51(20). <https://doi.org/10.1029/2024GL111479>
297. Javadian, M., Scott, R. L., Woodgate, W., Richardson, A. D., Dannenberg, M. P., & Smith, W. K. (2024). Canopy temperature dynamics are closely aligned with ecosystem water availability across a water- to energy-limited gradient. *Agricultural and Forest Meteorology*, 357, 110206. <https://doi.org/10.1016/j.agrformet.2024.110206>
298. Jenkins, M., & Block, D. E. (2024). A Review of Methods for Data-Driven Irrigation in Modern Agricultural Systems. *Agronomy*, 14(7), 1355. <https://doi.org/10.3390/agronomy14071355>

299. Johnson, W. R. (2024). ECOSTRESS: current sensor performance and outlook (Conference Presentation). In T. S. Pagano, J. J. Puschell, & S. R. Babu (Eds.), *CubeSats, SmallSats, and Hosted Payloads for Remote Sensing VIII* (p. 6). SPIE. <https://doi.org/10.1117/12.3029249>
300. Jun, M.-J., Park, Y., Lee, J., Kang, S., Barquilla, C. A., Yun, M., Lee, J. H., & Gu, Y. (2024). Linkages between Urban Growth and Land Surface Temperature Variations in the Seoul Metropolitan Area: A Spatial First-Order Difference Approach. *Sustainable Cities and Society*, 105441. <https://doi.org/10.1016/j.scs.2024.105441>
301. Kangaslahti, A., Mason, J., Swope, J., Holzmann, T., Davies, A. G., Chien, S., Harrison, T., & Walter, J. J. (2024). Sensorweb Systems for Global High-Resolution Monitoring of Environmental Phenomena. *Journal of Aerospace Information Systems*, 1–12. <https://doi.org/10.2514/1.I011327>
302. Kim, Y., Lee, S., Cho, D., & Im, J. (2024). Impact of COVID-19 on the Urban Heat Island in Daegu Using Downscaled Land Surface Temperature. *Korean Journal of Remote Sensing*, 40(6), 1109–1125. <https://doi.org/10.7780/kjrs.2024.40.6.1.19>
303. Kirsch, B., Fisher, J. B., Piechota, T., Hassani, M., Suardiaz, D. C., Puri, R., Cahill, J., & Atamian, H. S. (2024). Satellite observations indicate that chia uses less water than other crops in warm climates. *Communications Biology*, 7(1), 1225. <https://doi.org/10.1038/s42003-024-06841-y>
304. Knipper, K., Anderson, M., Bambach, N., Melton, F., Ellis, Z., Yang, Y., Volk, J., McElrone, A. J., Kustas, W., Roby, M., Carrara, W., Castro, S., Kilic, A., Fisher, J. B., Ruhoff, A., Senay, G. B., Morton, C., Saa, S., & Allen, R. G. (2024). A comparative analysis of OpenET for evaluating evapotranspiration in California almond orchards. *Agricultural and Forest Meteorology*, 355, 110146. <https://doi.org/10.1016/j.agrformet.2024.110146>
305. Kong, R., Chu, Y., Hu, Y., Zhang, H., Wang, Q., & Li, C. (2024). Diurnal Variation Reveals the Characteristics and Influencing Factors of Cool Island Effects in Urban Blue-Green Spaces. *Forests*, 15(12), 2115. <https://doi.org/10.3390/f15122115>
306. Kuffer, M., Abascal, A., Engstrom, R., Thomson, D. R., Tregonning, G., Shonowo, A., Zhao, Q., de Albuquerque, J. P., Elias, P., Onyambu, F. C., & Kabaria, C. (2024). IDEAMAPS: Modelling Sub-Domains of Deprivation with EO and AI. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 1562–1566. <https://doi.org/10.1109/IGARSS53475.2024.10642494>

307. Kukal, M. (2024). The U.S. Midwest and High Plains aquifer-fed croplands are previously unrealized hotspots of extreme evaporative demand exposure. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ad49b8>
308. Kumar, S., Imen, S., Sridharan, V. K., Gupta, A., McDonald, W., Ramirez-Avila, J. J., Abdul-Aziz, O. I., Talchabhadel, R., Gao, H., Quinn, N. W. T., Weiss, W. J., Poulouse, T., Palmate, S. S., Lee, C. M., & Baskaran, L. (2024). Perceived barriers and advances in integrating earth observations with water resources modeling. *Remote Sensing Applications: Society and Environment*, 33, 101119. <https://doi.org/10.1016/j.rsase.2023.101119>
309. Květoňová, V., Pánek, J., Geletič, J., Šimáček, P., & Lehnert, M. (2024). Where is the heat threat in a city? Different perspectives on people-oriented and remote sensing methods: The case of Prague. *Heliyon*, 10(16), e36101. <https://doi.org/10.1016/j.heliyon.2024.e36101>
310. Lee, J., & Berkelhammer, M. (2024). Observational Constraints on the Spatial Effect of Greenness and Canopy Cover on Urban Heat in a Major Midlatitude City. *Geophysical Research Letters*, 51(21). <https://doi.org/10.1029/2024GL110847>
311. Lee, J., & Im, J. (2024a). Quantitative assessment of the scale conversion from instantaneous to daily GPP under various sky conditions based on MODIS local overpassing time. *GIScience & Remote Sensing*, 61(1). <https://doi.org/10.1080/15481603.2024.2319372>
312. Lee, J., & Im, J. (2024b). Quantitative assessment of the scale conversion from instantaneous to daily GPP under various sky conditions based on MODIS local overpassing time. *GIScience & Remote Sensing*, 61(1). <https://doi.org/10.1080/15481603.2024.2319372>
313. Leite, R. v., Amaral, C., Neigh, C. S. R., Cosenza, D. N., Klauberg, C., Hudak, A. T., Aragão, L., Morton, D. C., Coffield, S., McCabe, T., & Silva, C. A. (2024). Leveraging the next generation of spaceborne Earth observations for fuel monitoring and wildland fire management. *Remote Sensing in Ecology and Conservation*. <https://doi.org/10.1002/rse2.416>
314. Leng, S., Sun, R., Yan, M., He, H., & Chen, L. (2024). Interannual variability and spatial diversification of global urban tree cooling effects. *Environment International*, 192, 109044. <https://doi.org/10.1016/j.envint.2024.109044>
315. Li, D., Wang, T., Zheng, X., Zhang, P., Zheng, L., Leng, W., Du, Y., Chen, L., & Zhang, W. (2024). Multi-Dimensional matrix MAPPING (MDMAP): A new algorithm framework to

derive top-of-atmosphere outgoing longwave radiation from space. *Remote Sensing of Environment*, 304, 114031. <https://doi.org/10.1016/j.rse.2024.114031>

316. Li, N., Xu, J., Li, X., Qin, B., Wang, Y., Fu, D., Zhong, K., & Qin, Z. (2024). A novel land surface temperature retrieval algorithm for SDGSAT-1 images. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2024.3514359>
317. Li, W., Duveiller, G., Wieneke, S., Forkel, M., Gentine, P., Reichstein, M., Niu, S., Migliavacca, M., & Orth, R. (2024). Regulation of the global carbon and water cycles through vegetation structural and physiological dynamics. *Environmental Research Letters*, 19(7), 073008. <https://doi.org/10.1088/1748-9326/ad5858>
318. Li, X., Wu, H., & Sobrino, J. A. (2024). Hyperspectral Emissivity Estimation and Application Based on Machine Learning Method. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 9896–9899. <https://doi.org/10.1109/IGARSS53475.2024.10642870>
319. Liang, S., He, T., Huang, J., Jia, A., Zhang, Yuzhen, Cao, Y., Chen, Xiaona, Chen, Xidong, Cheng, J., Jiang, B., Jin, H., Li, A., Li, S., Li, X., Liu, L., Liu, X., Ma, H., Ma, Y., Song, D., ... Song, L. (2024). Advances in high-resolution land surface satellite products : A comprehensive review of inversion algorithms, products and challenges. *Science of Remote Sensing*, 100152. <https://doi.org/10.1016/j.srs.2024.100152>
320. Liang, T., Li, C., He, Y., Tan, J., Niu, W., Cui, Y., & Yang, H. (2024). PML_30: A high resolution (30 m) estimates of evapotranspiration based on remote sensing model with application in an arid region. *Journal of Hydrology*, 642, 131862. <https://doi.org/10.1016/j.jhydrol.2024.131862>
321. Lin, Z., Xu, H., Han, L., Zhang, H., Peng, J., & Yao, X. (2024). Day and night: Impact of 2D/3D urban features on land surface temperature and their spatiotemporal non-stationary relationships in urban building spaces. *Sustainable Cities and Society*, 108, 105507. <https://doi.org/10.1016/j.scs.2024.105507>
322. Lin, Z., Xu, H., Yao, X., Yang, C., & Ye, D. (2024). How does urban thermal environmental factors impact diurnal cycle of land surface temperature? A multi-dimensional and multi-granularity perspective. *Sustainable Cities and Society*, 101, 105190. <https://doi.org/10.1016/j.scs.2024.105190>
323. Liu, B., & Wu, Q. (2024). HyperCoast: A Python Package for Visualizing and Analyzing Hyperspectral Data in Coastal Environments. *Journal of Open Source Software*, 9(100), 7025. <https://doi.org/10.21105/joss.07025>

324. Liu, Jiachen, Wu, J., Yang, Y., Zhang, B., & Yin, L. (2024). Exploring the spatiotemporal impacts of urban green space patterns on the core area of urban heat island. *Ecological Indicators*, 166, 112254. <https://doi.org/10.1016/j.ecolind.2024.112254>
325. Liu, Jinping, Wang, A., Zhang, T., Pan, P., & Ren, Y. (2024). Projected Increase in Heatwaves under 1.5 and 2.0 °C Warming Levels Will Increase the Socio-Economic Exposure across China by the Late 21st Century. *Atmosphere*, 15(8), 900. <https://doi.org/10.3390/atmos15080900>
326. Liu, W., & Cheng, J. (2024). The First Result of Land Surface Temperature Retrieval From SDGSAT-1 Thermal Imager Spectrometer. *IEEE Geoscience and Remote Sensing Letters*, 21, 1–5. <https://doi.org/10.1109/LGRS.2024.3416526>
327. Liu, W., Zhang, L., Hu, X., Meng, Q., Qian, J., Gao, J., & Li, T. (2024). Nonlinear effects of urban multidimensional characteristics on daytime and nighttime land surface temperature in highly urbanized regions: A case study in Beijing, China. *International Journal of Applied Earth Observation and Geoinformation*, 132, 104067. <https://doi.org/10.1016/j.jag.2024.104067>
328. Logan, T. L., Smyth, M. M., & Calef, F. J. (2024). Planetary orbital mapping and mosaicking (POMM) integrated open source software environment. *Astronomy and Computing*, 46, 100788. <https://doi.org/10.1016/j.ascom.2024.100788>
329. Lou, S., Feng, C., Zhang, D., Zou, Y., & Huang, Y. (2024). Heat exposure inequalities in Hong Kong from 1981 to 2021. *Urban Climate*, 56, 102087. <https://doi.org/10.1016/j.uclim.2024.102087>
330. Lu, X., Guan, K., Jiang, C., Gao, L., Wang, S., & Zhang, J. (2024). Incorporating changes in land surface temperature improves BESS evapotranspiration estimates under water-deficit conditions: A case study for US Midwest and Great Plains grasslands. *Journal of Hydrology*, 132201. <https://doi.org/10.1016/j.jhydrol.2024.132201>
331. Lv, Y., Wang, S., Yang, E., & Ge, S. (2024). A near-infrared spectroscopy dataset of coal and coal-measure rock under diverse conditions. *Scientific Data*, 11(1), 628. <https://doi.org/10.1038/s41597-024-03422-w>
332. Ma, J., Shen, H., Jiang, M., Lin, L., Meng, C., Zeng, C., Li, H., & Wu, P. (2024). A mechanism-guided machine learning method for mapping gapless land surface temperature. *Remote Sensing of Environment*, 303, 114001. <https://doi.org/10.1016/j.rse.2024.114001>

333. Maake, R., Mutanga, O., Chirima, J. G., & Kganyago, M. (2024). Determining Optimal SAR Parameters for Quantifying Above-Ground Grass Carbon Stock in Savannah Ecosystems Using a Tree-Based Algorithm. *Remote Sensing in Earth Systems Sciences*. <https://doi.org/10.1007/s41976-024-00170-8>
334. MacDonald, A. J., Hyon, D., Sambado, S., Ring, K., & Boser, A. (2024). Remote sensing of temperature-dependent mosquito and viral traits predicts field surveillance-based disease risk. *Ecology*. <https://doi.org/10.1002/ecy.4420>
335. Magney, T. S., Pierrat, Z. A., & Wong, C. Y. (2024). *Scaling Forest Ecophysiology from the Leaf to the Globe*. <https://doi.org/10.22541/essoar.172978609.92915710/v1>
336. Mahanta, D. K., Bhoi, T. K., Komal, J., Samal, I., & Mastinu, A. (2024). Spatial, spectral and temporal insights: harnessing high-resolution satellite remote sensing and artificial intelligence for early monitoring of wood boring pests in forests. *Plant Stress*, *11*, 100381. <https://doi.org/10.1016/j.stress.2024.100381>
337. Majumdar, S., Smith, R. G., Hasan, M. F., Wilson, J. L., White, V. E., Bristow, E. L., Rigby, J. R., Kress, W. H., & Painter, J. A. (2024). Improving crop-specific groundwater use estimation in the Mississippi Alluvial Plain: Implications for integrated remote sensing and machine learning approaches in data-scarce regions. *Journal of Hydrology: Regional Studies*, *52*, 101674. <https://doi.org/10.1016/j.ejrh.2024.101674>
338. Marques, P., Pádua, L., Sousa, J. J., & Fernandes-Silva, A. (2024). Advancements in Remote Sensing Imagery Applications for Precision Management in Olive Growing: A Systematic Review. *Remote Sensing*, *16*(8), 1324. <https://doi.org/10.3390/rs16081324>
339. Mas, J.-F., & Pérez-Vega, A. (2024). Assessment of Census and Remote Sensing Data to Monitor Irrigated Agriculture in Mexico. *Proceedings of the 10th International Conference on Geographical Information Systems Theory, Applications and Management*, 181–186. <https://doi.org/10.5220/0012701500003696>
340. Mhaweji, M., Gao, X., Reilly, J. M., & Abunnasr, Y. (2024). Corn, soybeans and winter wheat water requirements over the contiguous United States between 2013 and 2021: The application of the SEBALIGEE v2 global model. *Journal of Hydrology*, *630*, 130782. <https://doi.org/10.1016/j.jhydrol.2024.130782>
341. Ming, Y., Liu, Y., Liu, X., & Tian, Z. (2024). Demographic disparity in diurnal surface urban Heat Island exposure across local climate zones: A case study of Chongqing, China. *Science of The Total Environment*, *923*, 171203. <https://doi.org/10.1016/j.scitotenv.2024.171203>

342. Mirmazloumi, S. M., Nouri, H., Abbasi, N., Chukalla, A. D., Kipkulei, H., & Ghazaryan, G. (2024). Enhancing Evapotranspiration Estimates by Integrating Sentinel-3 LST and Sentinel-2 Data Through Machine Learning-Based Downscaling. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 2464–2468. <https://doi.org/10.1109/IGARSS53475.2024.10642707>
343. Mirzaei, S., Tricomi, A., Bruno, R., Casa, R., Pascucci, S., Ungaro, R., Fratarcangeli, F., Pratola, C., & Pignatti, S. (2024). PRISMA4AFRICA: Leveraging Hyperspectral and Thermal Data Integration for Enhanced Food Security. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 2709–2712. <https://doi.org/10.1109/IGARSS53475.2024.10640917>
344. Moazzam, M. F. U., Kim, S., & Lee, B. G. (2024). Cities in the Heat: Unveiling the Urbanized Impacted Surface Urban Heat Island of South Korea's Metropolises. *Remote Sensing Applications: Society and Environment*, 101271. <https://doi.org/10.1016/j.rsase.2024.101271>
345. Morcillo, B., Báscones, D., González, C., Mendías, J. M., & Mozos, D. (2024). Parametric Pipelined k -Means Implementation for Hyperspectral Processing on Spacecraft Embedded FPGA. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–15. <https://doi.org/10.1109/JSTARS.2024.3400883>
346. Mosedale, J. R., Eyre, D., Korycinska, A., Everatt, M., Grant, S., Trew, B., Kaye, N., Hemming, D., & Maclean, I. M. D. (2024). Mechanistic microclimate models and plant pest risk modelling. *Journal of Pest Science*. <https://doi.org/10.1007/s10340-024-01777-y>
347. Mosleh, L., Yore, M., Wells, W., Eisenman, D. P., & Schwarz, K. (2024). A social network analysis of cross-organizational engagement for urban heat resilience in Los Angeles County, California. *Urban Climate*, 53, 101797. <https://doi.org/10.1016/j.uclim.2023.101797>
348. Mosteiro-Romero, M., Park, Y., & Miller, C. (2024a). Converging Smartwatch and Urban Datasets for Sustainable City Planning: A Case Study in Seoul, South Korea. *E3S Web of Conferences*, 562, 03004. <https://doi.org/10.1051/e3sconf/202456203004>
349. Mosteiro-Romero, M., Park, Y., & Miller, C. (2024b). Converging Smartwatch and Urban Datasets for Sustainable City Planning: A Case Study in Seoul, South Korea. *E3S Web of Conferences*, 562, 03004. <https://doi.org/10.1051/e3sconf/202456203004>

350. Mucalo, A., Matić, D., Morić-Španić, A., & Čagalj, M. (2024). Satellite Solutions for Precision Viticulture: Enhancing Sustainability and Efficiency in Vineyard Management. *Agronomy*, 14(8), 1862. <https://doi.org/10.3390/agronomy14081862>
351. Mwangi, S., Oliosio, A., Boulet, G., Farhani, N., Etchanchu, J., Demarty, J., Ollivier, C., Hu, T., Mallick, K., Jia, A., Sarrazin, E., Gamet, P., & Roujean, J.-L. (2024). Ensemble Estimation of Evapotranspiration Using EVASPA: a Multi-Data Multi-Method Analysis. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 2475–2478. <https://doi.org/10.1109/IGARSS53475.2024.10642831>
352. Nanesso, D. A. A. (2024). The application of satellite sensors, current state of utilization, and sources of remote sensing dataset in hydrology for water resource management. *Journal of Water and Health*. <https://doi.org/10.2166/wh.2024.102>
353. Ndlovu, H. S., Odindi, J., Sibanda, M., & Mutanga, O. (2024). A systematic review on the application of UAV-based thermal remote sensing for assessing and monitoring crop water status in crop farming systems. *International Journal of Remote Sensing*, 45(15), 4923–4960. <https://doi.org/10.1080/01431161.2024.2368933>
354. Notarnicola, C., Santos, B., Barella, R., Claus, M., Cremonese, E., de Gregorio, L., di Mauro, B., Schwaizer, G., & Nagler, T. (2024). Multisensor Validation of Snow Albedo and Grain Size Retrieval in Mountain Areas. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 619–622. <https://doi.org/10.1109/IGARSS53475.2024.10641957>
355. Ouyang, X., Sun, Z., Zhou, S., & Dou, Y. (2024). Urban land surface temperature retrieval with high-spatial resolution SDGSAT-1 thermal infrared data. *Remote Sensing of Environment*, 312, 114320. <https://doi.org/10.1016/j.rse.2024.114320>
356. Pascolini-Campbell, M., Hook, S., Mallick, K., Langsdale, M., Hulley, G., Cawse-Nicholson, K., Hu, T., Halverson, G., Freepartner, R., Rivera, G., Genesio, L., & Rabuffi, F. (2024). A first assessment of airborne HyTES-based land surface temperature and evapotranspiration. *Remote Sensing Applications: Society and Environment*, 36, 101344. <https://doi.org/10.1016/j.rsase.2024.101344>
357. Patil, J., Maithani, S., & Sharma, S. K. (2024). Exploring effect of scale dependency in LST downscaling – using convolution neural network-extreme learning machine (CNN-ELM). *Earth Science Informatics*. <https://doi.org/10.1007/s12145-024-01247-0>
358. Peñas-Torramilans, R., Outeiral, R., Santiago, J., Vázquez, E., & Weidberg, N. (2024). Influence of a changing wave climate on the quality and morphometry of the stalked

barnacle *Pollicipes pollicipes* (Gmelin, 1789), along the coasts of NW Iberia. *Reviews in Fish Biology and Fisheries*. <https://doi.org/10.1007/s11160-024-09838-2>

359. Peng, J., Dan, Y., Yu, X., Xu, D., Yang, Z., & Wang, Q. (2024). Response of urban green space cooling effect to urbanization in the Three Ring Road area of Changsha City. *Sustainable Cities and Society*, 105534. <https://doi.org/10.1016/j.scs.2024.105534>
360. Pierrat, Z. A., Magney, T. S., Cheng, R., Maguire, A. J., Wong, C. Y. S., Nehemy, M. F., Rao, M., Nelson, S. E., Williams, A. F., Grosvenor, J. A. H., Smith, K. R., Reblin, J. S., Stutz, J., Richardson, A. D., Logan, B. A., & Bowling, D. R. (2024). The biological basis for using optical signals to track evergreen needleleaf photosynthesis. *BioScience*. <https://doi.org/10.1093/biosci/biad116>
361. Pierrat, Z. A., Magney, T., Maguire, A., Brissette, L., Doughty, R., Bowling, D. R., Logan, B., Parazoo, N., Frankenberg, C., & Stutz, J. (2024). Seasonal timing of fluorescence and photosynthetic yields at needle and canopy scales in evergreen needleleaf forests. *Ecology*. <https://doi.org/10.1002/ecy.4402>
362. Pirinen, A., Abid, N., Paszkowsky, N. A., Timoudas, T. O., Scheirer, R., Ceccobello, C., Kovács, G., & Persson, A. (2024). Creating and Leveraging a Synthetic Dataset of Cloud Optical Thickness Measures for Cloud Detection in MSI. *Remote Sensing*, 16(4), 694. <https://doi.org/10.3390/rs16040694>
363. Piscini, A., & Fidani, C. (2024). Satellite thermal monitoring of gas emission at Mefite D'ansanto Lake by ECOSTRESS time series analysis. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 3696–3699. <https://doi.org/10.1109/IGARSS53475.2024.10642354>
364. Pôças, I., Almeida, C. R. de, Arenas-Castro, S., Campos, J. C., Garcia, N., Alírio, J., Sillero, N., & Teodoro, A. C. (2024). Spectral Library of Plant Species from Montesinho Natural Park in Portugal. *Data*, 9(5), 65. <https://doi.org/10.3390/data9050065>
365. Quaglia, F. C., Muscari, G., Meloni, D., Bernardino, A. di, Iorio, T. di, Pace, G., Schmidt, S. K., & Sarra, A. di. (2024). On the retrieval of cloud optical thickness from spectral radiances - A sensitivity study with high albedo surfaces. *Journal of Quantitative Spectroscopy and Radiative Transfer*, 109108. <https://doi.org/10.1016/j.jqsrt.2024.109108>
366. Quintano, C., Fernández-Manso, A., Fernández-Guisuraga, J. M., & Roberts, D. A. (2024). Improving Fire Severity Analysis in Mediterranean Environments: A Comparative Study of eeMETRIC and SSEBop Landsat-Based Evapotranspiration Models. *Remote Sensing*, 16(2), 361. <https://doi.org/10.3390/rs16020361>

367. Radeloff, V. C., Roy, D. P., Wulder, M. A., Anderson, M., Cook, B., Crawford, C. J., Friedl, M., Gao, F., Gorelick, N., Hansen, M., Healey, S., Hostert, P., Hulley, G., Huntington, J. L., Johnson, D. M., Neigh, C., Lyapustin, A., Lymburner, L., Pahlevan, N., ... Zhu, Z. (2024). Need and vision for global medium-resolution Landsat and Sentinel-2 data products. *Remote Sensing of Environment*, 300, 113918. <https://doi.org/10.1016/j.rse.2023.113918>
368. Rahmani, N. R., Ahmadi, H., Rahimy, F., & Yousufi, A. (2024). Automated detection of granitic complexes in NW Parwan, NE Afghanistan using Sentinel-2B/MSI and ASTER data. *Discover Geoscience*, 2(1), 86. <https://doi.org/10.1007/s44288-024-00091-5>
369. Ranjan, A. K., Dash, J., & Gorai, A. K. (2024). A New Approach for Prediction of Foliar Dust in a Coal Mining Region and Its Impacts on Vegetation Physiological Processes Using Multi-Source Satellite Data Sets. *Journal of Geophysical Research: Biogeosciences*, 129(10). <https://doi.org/10.1029/2024JG008298>
370. Rashid, T., & Tian, D. (2024). Improved 30-m Evapotranspiration Estimates Over 145 Eddy Covariance Sites in the Contiguous United States: The Role of ECOSTRESS, Harmonized Landsat Sentinel-2 Imagery, Climate Reanalysis, and Deep Neural Network Postprocessing. *Water Resources Research*, 60(4). <https://doi.org/10.1029/2023WR036313>
371. Reavis, C. W., Reba, M. L., & Runkle, B. R. K. (2024). The effects of alternate wetting and drying irrigation on water use efficiency in Mid-South rice. *Agricultural and Forest Meteorology*, 353, 110069. <https://doi.org/10.1016/j.agrformet.2024.110069>
372. Reitze, M. P., Renggli, C., Morlok, A., Weber, I., Rodehorst, U., Berndt, J., Klemme, S., & Hiesinger, H. (2024). Crystallographic and Mid-Infrared Spectroscopic Properties of the CaS-MgS Solid Solution. *Journal of Geophysical Research: Planets*, 129(8). <https://doi.org/10.1029/2024JE008483>
373. Resende, R. T., Hickey, L., Amaral, C. H., Peixoto, L. L., Marcatti, G. E., & Xu, Y. (2024). Satellite-enabled Enviromics to Enhance Crop Improvement. *Molecular Plant*. <https://doi.org/10.1016/j.molp.2024.04.005>
374. Rivera, A., Moore, N., Kim, J. H., Grady, S. C., & Bornstein, R. D. (2024). *Evapotranspiration Impacts on Summer Surface Urban Heat Island Distributions and Trends in Santa Clara, California: Moderating Effects of the Human Environment* (pp. 235–259). https://doi.org/10.1007/978-3-031-77347-1_12
375. Román, M. O., Justice, C., Paynter, I., Boucher, P. B., Devadiga, S., Endsley, A., Erb, A., Friedl, M., Gao, H., Giglio, L., Gray, J. M., Hall, D., Hulley, G., Kimball, J.,

- Knyazikhin, Y., Lyapustin, A., Myneni, R. B., Noojipady, P., Pu, J., ... Wolfe, R. (2024). Continuity between NASA MODIS Collection 6.1 and VIIRS Collection 2 land products. *Remote Sensing of Environment*, 302, 113963. <https://doi.org/10.1016/j.rse.2023.113963>
376. Romero-Béjar, J. L., Esquivel, F. J., & Esquivel, J. A. (2024). Variables Selection from the Patterns of the Features Applied to Spectroscopic Data—An Application Case. *Mathematics*, 13(1), 99. <https://doi.org/10.3390/math13010099>
377. Rott, R., & Solmaz, S. (2024). Assessment of Lidar Point Cloud Simulation Using Phenomenological Range-Reflectivity Limits for Feature Validation. *IEEE Open Journal of Instrumentation and Measurement*, 1–1. <https://doi.org/10.1109/OJIM.2024.3390214>
378. Rott, R., Ritter, D. J., Ladstätter, S., Nikolić, O., & Hennecke, M. E. (2024). LiMOX—A Point Cloud Lidar Model Toolbox Based on NVIDIA OptiX Ray Tracing Engine. *Sensors*, 24(6), 1846. <https://doi.org/10.3390/s24061846>
379. Roy, A., Rajasekaran, E., Harod, R., & Gnanappazham, L. (2024). Land Surface Temperature Anomalies as Indicators of Urban Land Cover Change—A Study of Two Indian Cities. *Earth Science, Systems and Society*, 4. <https://doi.org/10.3389/esss.2024.10096>
380. Ryu, Y. (2024). Upscaling Land Surface Fluxes Through Hyper Resolution Remote Sensing in Space, Time, and the Spectrum. *Journal of Geophysical Research: Biogeosciences*, 129(10). <https://doi.org/10.1029/2023JG007678>
381. Safranek, E., & Hornbuckle, B. (2024). ECOSTRESS Captures the Daily But not Seasonal Behavior of Instantaneous Latent Heat Flux in the U.S. Corn Belt. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 2100–2104. <https://doi.org/10.1109/IGARSS53475.2024.10640667>
382. Sapino, F., Hazimeh, R., Dionisio Pérez-Blanco, C., & Jaafar, H. H. (2024a). Socioeconomic impact of agricultural water reallocation policies in the Upper Litani Basin (Lebanon): a remote sensing and microeconomic ensemble forecasting approach. *Agricultural Water Management*, 296, 108805. <https://doi.org/10.1016/j.agwat.2024.108805>
383. Sapino, F., Hazimeh, R., Dionisio Pérez-Blanco, C., & Jaafar, H. H. (2024b). Socioeconomic impact of agricultural water reallocation policies in the Upper Litani Basin (Lebanon): a remote sensing and microeconomic ensemble forecasting approach. *Agricultural Water Management*, 296, 108805. <https://doi.org/10.1016/j.agwat.2024.108805>

384. Sara, K., Rajasekaran, E., Nigam, R., Bhattacharya, B. K., Kustas, W. P., Alfieri, J. G., Prueger, J. H., Mar Alsina, M., Hipps, L. E., McKee, L. G., McElrone, A. J., Castro, S. J., & Bambach, N. (2024). Combining Spatial Downscaling Techniques and Diurnal Temperature Cycle Modelling to Estimate Diurnal Patterns of Land Surface Temperature at Field Scale. *PFG – Journal of Photogrammetry, Remote Sensing and Geoinformation Science*. <https://doi.org/10.1007/s41064-024-00291-1>
385. Schimel, D. S., & Carroll, D. (2024). Carbon Cycle–Climate Feedbacks in the Post-Paris World. *Annual Review of Earth and Planetary Sciences*, 52(1). <https://doi.org/10.1146/annurev-earth-031621-081700>
386. Schrader-Patton, C., Grulke, N. E., Anderson, P. D., Chaitman, J., & Webb, J. (2024). Assessing Tree Water Balance after Forest Thinning Treatments Using Thermal and Multispectral Imaging. *Remote Sensing*, 16(6), 1005. <https://doi.org/10.3390/rs16061005>
387. Sharma, A., Mehan, S., McDaniel, R., Arnold, J., Trooien, T., Sammons, N., & Amegbletor, L. (2024). Assessing SWAT+ performance in simulating drainage water management and parameter transferability for watershed-scale applications. *Journal of Hydrology*, 131338. <https://doi.org/10.1016/j.jhydrol.2024.131338>
388. Shi, H., Jacquemoud, S., Jiang, J., Zhou, M., Fabre, S., Richardson, A. D., Wang, S., Jiang, X., & Xiao, Z. (2024). The PROLIB leaf radiative transfer model: Simulation of the dorsiventrality of leaves from visible to mid-wave infrared. *Remote Sensing of Environment*, 306, 114140. <https://doi.org/10.1016/j.rse.2024.114140>
389. Shi, J., Hu, C., & Stabenau, E. (2024). Temperature Response of South Florida Estuaries to the 2023 Heatwave. *Estuaries and Coasts*, 47(6), 1388–1401. <https://doi.org/10.1007/s12237-024-01400-4>
390. Shumakova, V., & Heckl, O. H. (2024). A short guide to recent developments in laser-based gas phase spectroscopy, applications, and tools. *APL Photonics*, 9(1). <https://doi.org/10.1063/5.0167683>
391. Silvestri, M., Buongiorno, M. F., Laneve, G., Colombo, R., Notarnicola, C., Pignatti, S., Romaniello, V., & Venafrà, S. (2024). Theresa Project: Study of Algorithms for SGB-TIR Mission. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 3561–3563. <https://doi.org/10.1109/IGARSS53475.2024.10642352>

392. Small, C., & Sousa, D. (2024). Robust Cloud Suppression and Anomaly Detection in Time-Lapse Thermography. *Remote Sensing*, 16(2), 255. <https://doi.org/10.3390/rs16020255>
393. Soszynska, A., Groen, T., Bonyo, E., van der Werff, H., Hewson, R., Reeves, R., & Hecker, C. (2024). Detection of Land Surface Temperature anomalies using ECOSTRESS in Olkaria geothermal field. *Remote Sensing of Environment*, 305, 114103. <https://doi.org/10.1016/j.rse.2024.114103>
394. Stabbins, R. B., Grindrod, P. M., Motaghian, S., Allender, E. J., & Cousins, C. R. (2024). Optimizing ExoMars Rover Remote Sensing Multispectral Science II: Choosing and Using Multispectral Filters for Dynamic Planetary Surface Exploration With Linear Discriminant Analysis. *Earth and Space Science*, 11(10). <https://doi.org/10.1029/2023EA003398>
395. Sun, E., Wang, X., Wu, S., Ye, H., Shi, H., An, Y., Li, C., & Jiang, Y. (2024). Improving Methane Point Sources Detection Over Heterogeneous Land Surface for Satellite Hyperspectral Imagery. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–13. <https://doi.org/10.1109/JSTARS.2024.3482278>
396. Suthar, G., Kaul, N., Khandelwal, S., & Singh, S. (2024). Dynamics of land surface temperature: Insights into vegetation, elevation, and air pollution in Bengaluru. *Remote Sensing Applications: Society and Environment*, 33, 101145. <https://doi.org/10.1016/j.rsase.2024.101145>
397. Suthar, G., Singh, S., Kaul, N., & Khandelwal, S. (2024). Diurnal variation of air pollutants and their relationship with land surface temperature in Bengaluru and Hyderabad cities of India. *Remote Sensing Applications: Society and Environment*, 35, 101204. <https://doi.org/10.1016/j.rsase.2024.101204>
398. Taha, H. (2024). Micrometeorological effects and thermal-environmental benefits of cool pavements: Findings from a detailed observational field study in Pacoima, California. *Environmental Research Communications*. <https://doi.org/10.1088/2515-7620/ad2a8e>
399. Talib, A., Desai, A. R., Huang, J., Thom, J., Panuska, J. C., & Stoy, Paul. C. (2024). Improving parameterization of an evapotranspiration estimation model with eddy covariance measurements for a regional irrigation scheduling program. *Agricultural and Forest Meteorology*, 350, 109967. <https://doi.org/10.1016/j.agrformet.2024.109967>
400. Tang, R., Peng, Z., Liu, M., Li, Z.-L., Jiang, Y., Hu, Y., Huang, L., Wang, Y., Wang, J., Jia, L., Zheng, C., Zhang, Y., Zhang, K., Yao, Y., Chen, X., Xiong, Y., Zeng, Z., & Fisher, J. B. (2024). Spatial-temporal patterns of land surface evapotranspiration from

global products. *Remote Sensing of Environment*, 304, 114066.
<https://doi.org/10.1016/j.rse.2024.114066>

401. Tang, W., Zhou, J., Ma, J., Wang, Z., Ding, L., Zhang, Xiaodong, & Zhang, Xu. (2024). TRIMS LST: a daily 1 km all-weather land surface temperature dataset for China's landmass and surrounding areas (2000–2022). *Earth System Science Data*, 16(1), 387–419. <https://doi.org/10.5194/essd-16-387-2024>
402. Torgerson, J. L., Cerf, V., DeBaun, S., & Suzuki, L. C. (2024). Space System Internetworking: The Foundational Role of Delay and Disruption-Tolerant Networking. *IEEE Journal on Selected Areas in Communications*, 1–1. <https://doi.org/10.1109/JSAC.2024.3365896>
403. Torres-Rojas, L., Waterman, T., Cai, J., Zorzetto, E., Wainwright, H. M., & Chaney, N. W. (2024). A Geostatistics-Based Tool to Characterize Spatio-Temporal Patterns of Remotely Sensed Land Surface Temperature Fields Over the Contiguous United States. *Journal of Geophysical Research: Atmospheres*, 129(18). <https://doi.org/10.1029/2023JD040679>
404. Tratt, D. M., Buckland, K. N., & Keim, E. R. (2024). Detection of Photovoltaic Solar Panels With Longwave-Infrared Spectral Imaging. *IEEE Transactions on Geoscience and Remote Sensing*, 62, 1–9. <https://doi.org/10.1109/TGRS.2024.3416113>
405. Uchimiya, M. (2024). Big data-driven water research towards metaverse. *Water Science and Engineering*. <https://doi.org/10.1016/j.wse.2024.02.001>
406. van Cleemput, E., Adler, P. B., Suding, K. N., Rebelo, A. J., Poulter, B., & Dee, L. E. (2024). Scaling-up ecological understanding with remote sensing and causal inference. *Trends in Ecology & Evolution*. <https://doi.org/10.1016/j.tree.2024.09.006>
407. Vanhuyse, S., Abascal, A., Georganos, S., Wang, J., & Kuffer, M. (2024). ONEKANA: Modelling Thermal Inequalities in African Cities. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 1571–1575. <https://doi.org/10.1109/IGARSS53475.2024.10641265>
408. Volk, J. M., Huntington, J. L., Melton, F. S., Allen, R., Anderson, M., Fisher, J. B., Kilic, A., Ruhoff, A., Senay, G. B., Minor, B., Morton, C., Ott, T., Johnson, L., Comini de Andrade, B., Carrara, W., Doherty, C. T., Dunkerly, C., Friedrichs, M., Guzman, A., ... Yang, Y. (2024). Assessing the accuracy of OpenET satellite-based evapotranspiration data to support water resource and land management applications. *Nature Water*. <https://doi.org/10.1038/s44221-023-00181-7>

409. Wang, D., & Zeng, Z. (2024). Urgent need to improve modelled sensitivity of evaporation to vegetation change. *Nature Water*. <https://doi.org/10.1038/s44221-024-00203-y>
410. Wang, Du, Cao, L.-Q., Gao, L.-Z., & Zhong, Y.-F. (2024). Airborne thermal infrared hyperspectral image temperature and emissivity retrieval based on inter-channel correlated automatic atmospheric compensation and TES. *Remote Sensing of Environment*, *315*, 114410. <https://doi.org/10.1016/j.rse.2024.114410>
411. Wang, Ke, Zhong, L., Zheng, J., Zhang, S., Li, F., Deng, C., Cao, J., & Su, D. (2024). Robust Multiscale Spectral–Spatial Regularized Sparse Unmixing for Hyperspectral Imagery. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, *17*, 1269–1285. <https://doi.org/10.1109/JSTARS.2023.3337130>
412. Wang, Qi, Wang, H., Ren, L., Chen, J., & Wang, X. (2024). Hourly impact of urban features on the spatial distribution of land surface temperature: A study across 30 cities. *Sustainable Cities and Society*, *113*, 105701. <https://doi.org/10.1016/j.scs.2024.105701>
413. Wang, T., Alfieri, J., Mallick, K., Arias-Ortiz, A., Anderson, M., Fisher, J. B., Giroto, M., Szutu, D., Verfaillie, J., & Baldocchi, D. (2024). How advection affects the surface energy balance and its closure at an irrigated alfalfa field. *Agricultural and Forest Meteorology*, *357*, 110196. <https://doi.org/10.1016/j.agrformet.2024.110196>
414. Wang, Ying-Ping, Zhang, L., Liang, X., & Yuan, W. (2024). Coupled models of water and carbon cycles from leaf to global: A retrospective and a prospective. *Agricultural and Forest Meteorology*, *358*, 110229. <https://doi.org/10.1016/j.agrformet.2024.110229>
415. Wang, Yingjie, Lauret, N., Regaieg, O., Yang, X., Guilleux, J., Chavanon, E., Kallel, A., Moulana, M., Colin, J., Hagolle, O., Ramon, D., & Gastellu-Etchegorry, J.-P. (2024). 3D Monte Carlo surface-atmosphere radiative transfer modelling with DART. *Remote Sensing of Environment*, *301*, 113946. <https://doi.org/10.1016/j.rse.2023.113946>
416. Wang, Yuhao, Tang, X., Huang, Y., Yang, J., & Lu, J. (2024). Identification and factor analysis of rocky desertification severity levels in large-scale karst areas based on deep learning image segmentation. *Ecological Indicators*, *167*, 112565. <https://doi.org/10.1016/j.ecolind.2024.112565>
417. Warwick, L., Murray, J. E., & Brindley, H. (2024). The Far-INfrarEd Spectrometer for Surface Emissivity (FINESSE) – Part 2: First measurements of the emissivity of water in the far-infrared. *Atmospheric Measurement Techniques*, *17*(16), 4777–4787. <https://doi.org/10.5194/amt-17-4777-2024>

418. Wei, L., & Sobrino, J. A. (2024). Surface urban heat island analysis based on local climate zones using ECOSTRESS and Landsat data: A case study of Valencia city (Spain). *International Journal of Applied Earth Observation and Geoinformation*, 130, 103875. <https://doi.org/10.1016/j.jag.2024.103875>
419. Wei, Z., Liu, J., Gao, X., Wu, Y., Liu, Z., & Yao, J. (2024). Diurnal variations in cooling effects of urban parks based on ECOSTRESS data: A case study of Beijing. *Urban Climate*, 58, 102229. <https://doi.org/10.1016/j.uclim.2024.102229>
420. Weng, Q. (2024). *Handbook of Geospatial Approaches to Sustainable Cities*. CRC Press. <https://doi.org/10.1201/9781003244561>
421. Wilder, B. A., Lee, C. M., Chlus, A., Marshall, H.-P., Brandt, J., Kinoshita, A. M., Enterkine, J., der Weide, T. van, & Glenn, N. F. (2024). Computationally efficient retrieval of snow surface properties from spaceborne imaging spectroscopy measurements through dimensionality reduction using k-means spectral clustering. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–16. <https://doi.org/10.1109/JSTARS.2024.3386834>
422. Wu, H., Ming, Y., & Liu, Y. (2024). Investigating the influence of morphological and functional polycentric structures on urban heat island: A case of Chongqing, China. *Sustainable Cities and Society*, 105790. <https://doi.org/10.1016/j.scs.2024.105790>
423. Wu, Q., Yang, J., Song, J., & Xing, L. (2024). Improvement in the blending the evaporation precipitation ratio with complementary principle function for daily evaporation estimation. *Journal of Hydrology*, 635, 131170. <https://doi.org/10.1016/j.jhydrol.2024.131170>
424. Xiao, J., Sun, F., Wang, T., & Wang, H. (2024). Estimation and validation of high-resolution evapotranspiration products for an arid river basin using multi-source remote sensing data. *Agricultural Water Management*, 298, 108864. <https://doi.org/10.1016/j.agwat.2024.108864>
425. Xie, Z., Yao, Y., Tang, Q., Liu, M., Fisher, J. B., Chen, J., Zhang, Xiaotong, Jia, K., Li, Y., Shang, K., Jiang, B., Yang, J., Yu, R., Zhang, Xueyi, Guo, X., Liu, L., Ning, J., Fan, J., & Zhang, L. (2024). Evaluation of seven satellite-based and two reanalysis global terrestrial evapotranspiration products. *Journal of Hydrology*, 630, 130649. <https://doi.org/10.1016/j.jhydrol.2024.130649>
426. Xing, X., Yu, B., Kang, C., Huang, B., Gong, J., & Liu, Y. (2024). The Synergy Between Remote Sensing and Social Sensing in Urban Studies: Review and perspectives. *IEEE*

Geoscience and Remote Sensing Magazine, 2–31.
<https://doi.org/10.1109/MGRS.2023.3343968>

427. Yan, Y., Jian, W., Wang, B., & Liu, Z. (2024). Multi-Scale Effects of LCZ and Urban Green Infrastructure on Diurnal Land Surface Temperature Dynamics. *Sustainable Cities and Society*, 105945. <https://doi.org/10.1016/j.scs.2024.105945>
428. Yang, Haiqing, Huang, G., Chen, C., & Chen, L. (2024). Hyperspectral imaging for mineral composition and weathering recognition of rock slope on the reservoir bank. *Bulletin of Engineering Geology and the Environment*, 83(5), 193. <https://doi.org/10.1007/s10064-024-03694-x>
429. Yang, Tian, Palattella, M. R., Chitu, C., Claudon, P., & Boukhebouze, M. (2024). Digital Twin as a Service for Sustainable Agriculture in Africa: A case study from the ESA DT4CMI project. *2024 IEEE International Humanitarian Technologies Conference (IHTC)*, 1–6. <https://doi.org/10.1109/IHTC61819.2024.10855079>
430. Yang, Xiali, Huang, X., Ma, Y., Li, Y., Feng, Q., & Liang, T. (2024). Development of long-term spatiotemporal continuous NDVI products for alpine grassland from 1982 to 2020 in the Qinghai–Tibet Plateau, China. *Grassland Research*. <https://doi.org/10.1002/glr2.12076>
431. Yang, Y., Anderson, M., Knipper, K., Gao, F., Hain, C., Duan, W., Melton, F., Morton, C., Volk, J., & Wang, Z. (2024). Decreased Latency in Landsat Derived Evapotranspiration Products Using Machine Learning on Google Earth Engine. *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, 3054–3057. <https://doi.org/10.1109/IGARSS53475.2024.10641995>
432. Yang, Zetian, Qin, T., & Wang, H. (2024). Progress of evapotranspiration research based on VOSviewer: A review. *Water Science & Technology*, 89(4), 1063–1081. <https://doi.org/10.2166/wst.2024.036>
433. Yang, Zhiwei, Peng, J., Jiang, S., Yu, X., & Hu, T. (2024). Optimizing building spatial morphology to alleviate human thermal stress. *Sustainable Cities and Society*, 106, 105386. <https://doi.org/10.1016/j.scs.2024.105386>
434. Yao, X., Ye, B., Lan, Y., Lin, Z., Zhu, Z., Yang, F., & Zeng, X. (2024). Diurnal contrast of urban park cooling effects in a “Furnace city” using multi-source geospatial data and optimal parameters-based geographical detector model. *Sustainable Cities and Society*, 105765. <https://doi.org/10.1016/j.scs.2024.105765>

435. Ye, X., Ren, H., Wang, P., Duan, Y., & Zhu, J. (2024). Urban LST Retrieval from the Ultra-High Spatial Resolution Remote Sensing Data. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2024.3356249>
436. Yi, K., Senay, G. B., Fisher, J. B., Wang, L., Suvočarev, K., Chu, H., Moore, G. W., Novick, K. A., Barnes, M. L., Keenan, T. F., Mallick, K., Luo, X., Missik, J. E. C., Delwiche, K. B., Nelson, J. A., Good, S. P., Xiao, X., Kannenberg, S. A., Ahmadi, A., ... Baldocchi, D. (2024). Challenges and Future Directions in Quantifying Terrestrial Evapotranspiration. *Water Resources Research*, 60(10). <https://doi.org/10.1029/2024WR037622>
437. Yu, Y., Renzullo, L. J., McVicar, T. R., van Niel, T. G., Cai, D., Tian, S., & Ma, Y. (2024). Solar zenith angle-based calibration of Himawari-8 land surface temperature for correcting diurnal retrieval error characteristics. *Remote Sensing of Environment*, 308, 114176. <https://doi.org/10.1016/j.rse.2024.114176>
438. Zhang, H., Tang, B.-H., & Li, Z.-L. (2024). A practical two-step framework for all-sky land surface temperature estimation. *Remote Sensing of Environment*, 303, 113991. <https://doi.org/10.1016/j.rse.2024.113991>
439. Zhang, Q., Yang, J., Ma, X., Xin, J., Ren, J., Yu, W., Xiao, X., & Xia, J. (2024). Influence of 2D/3D urban morphology on diurnal land surface temperature from the perspective of functional zones. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–18. <https://doi.org/10.1109/JSTARS.2024.3455791>
440. Zhang, W., Jia, Z., Li, B., Liu, Q., Zhu, X., Jia, C., Gu, X., & Yu, T. (2024). Research on Landsat 8 land surface temperature retrieval and spatial-temporal migration capabilities based on random forest model. *Advances in Space Research*. <https://doi.org/10.1016/j.asr.2024.04.007>
441. Zhang, Z., Luo, X., Friess, D. A., Wang, S., Li, Yi, & Li, Yangfan. (2024). Stronger increases but greater variability in global mangrove productivity compared to that of adjacent terrestrial forests. *Nature Ecology & Evolution*. <https://doi.org/10.1038/s41559-023-02264-w>
442. Zhao, C., Pan, Y., & Zhang, P. (2024). Development of a new indicator for identifying vegetation destruction events using remote sensing data. *Ecological Indicators*, 166, 112553. <https://doi.org/10.1016/j.ecolind.2024.112553>
443. Zhao, C., Pan, Y., Wu, H., Ren, S., Ma, G., Gao, Y., Zhu, Y., & Jing, G. (2024). A Novel Spectral Index for Vegetation Destruction Event Detection Based on Multispectral Remote Sensing Imagery. *IEEE Journal of Selected Topics in Applied Earth*

Observations and Remote Sensing, 1–20.
<https://doi.org/10.1109/JSTARS.2024.3412737>

444. Zhao, E., Qu, Nianxin, Wang, Y., Gao, C., Duan, S.-B., Zeng, J., & Zhang, Q. (2024). Thermal Infrared Hyperspectral Band Selection via Graph Neural Network for Land Surface Temperature Retrieval. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2024.3391008>
445. Zhao, K., Ning, Zekui, Xu, C., Zhao, X., & Huang, X. (2024). How do driving factors affect the diurnal variation of land surface temperature across different urban functional blocks? A case study of Xi'an, China. *Sustainable Cities and Society*, 114, 105738. <https://doi.org/10.1016/j.scs.2024.105738>
446. Zheng, X., Guo, Y., Zhou, Z., & Wang, T. (2024). Improvements in land surface temperature and emissivity retrieval from Landsat-9 thermal infrared data. *Remote Sensing of Environment*, 315, 114471. <https://doi.org/10.1016/j.rse.2024.114471>
447. Zhong, S., Li, H., Bian, Z., Liu, Q., Du, Y., Cao, B., & Xiao, Q. (2024). A consistency analysis of land surface temperatures retrieved from several polar-orbiting satellite observations. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2024.3398067>
448. Zhong, X., Zhao, L., Ren, P., Wang, J., Li, Y., Zhang, X., & Luo, C. (2024). Land surface emissivity retrieval from SDGSAT-1: comparison of LSE products with different spatial resolutions. *International Journal of Digital Earth*, 17(1). <https://doi.org/10.1080/17538947.2023.2297940>
449. Zhu, Q., Ran, L., Zhang, Y., & Guan, Q. (2024). Integrating geographic knowledge into deep learning for spatiotemporal local climate zone mapping derived thermal environment exploration across Chinese climate zones. *ISPRS Journal of Photogrammetry and Remote Sensing*, 217, 53–75. <https://doi.org/10.1016/j.isprsjprs.2024.08.004>
450. Zhu, Y., Murugesan, S. B., Masara, I. K., Myint, S. W., & Fisher, J. B. (2024). Examining wildfire dynamics using <sc>ECOSTRESS</sc> data with machine learning approaches: the case of South-Eastern Australia's black summer. *Remote Sensing in Ecology and Conservation*. <https://doi.org/10.1002/rse2.422>
451. Ziar, H. (2024). Protocol to simulate crystalline Si-based single- and multi-junction solar cells under standard test and real-world conditions via MATLAB scripts. *STAR Protocols*, 5(4), 103464. <https://doi.org/10.1016/j.xpro.2024.103464>

452. Zou, Y., Chen, J., & Zong, H. (2024). Is shading a better way to cool down? Evaluation and comparison of the cooling capacity of blue-green spaces and urban shade. *Ecological Indicators*, 167, 112688. <https://doi.org/10.1016/j.ecolind.2024.112688>
453. Abbasi, N., Nouri, H., Nagler, P., Didan, K., Chavoshi Borujeni, S., Barreto-Muñoz, A., Opp, C., & Siebert, S. (2023). Crop water use dynamics over arid and semi-arid croplands in the lower Colorado River Basin. *European Journal of Remote Sensing*, 56(1). <https://doi.org/10.1080/22797254.2023.2259244>
454. Aghazadeh, F., Bageri, S., Garajeh, M. K., Ghasemi, M., Mahmodi, S., Khodadadi, E., & Feizizadeh, B. (2023). Spatial-temporal analysis of day-night time SUHI and its relationship between urban land use, NDVI, and air pollutants in Tehran metropolis. *Applied Geomatics*. <https://doi.org/10.1007/s12518-023-00515-w>
455. Ahmadi, H., Hussaini, M. R., Yousufi, A., Bekbotayeva, A., Baisalova, A., Amralinova, B., Mataibayeva, I., Rahmani, A. B., Pekkan, E., & Sahak, N. (2023). Geospatial Insights into Ophiolitic Complexes in the Cimmerian Realm of the Afghan Central Block (Middle Afghanistan). *Minerals*, 13(11), 1453. <https://doi.org/10.3390/min13111453>
456. Anuradha, T., Sen, S. K., Tamilarasi, K. M., Haleem, S. L. A., Abdul-Samad, Z., & Anupong, W. (2023). Aquatic ecosystem-based water management in agriculture project by data analytics using classification by deep learning techniques. *Acta Geophysica*. <https://doi.org/10.1007/s11600-023-01104-6>
457. Aragon, B., Cawse-Nicholson, K., Hulley, G., Houborg, R., & Fisher, J. B. (2023). K-sharp: A segmented regression approach for image sharpening and normalization. *Science of Remote Sensing*, 8, 100095. <https://doi.org/10.1016/j.srs.2023.100095>
458. Bambach, N., Knipper, K., McElrone, A. J., Nocco, M., Torres-Rua, A., Kustas, W., Anderson, M., Castro, S., Edwards, E., Duran-Gomez, M., Gal, A., Tolentino, P., Wright, I., Roby, M., Gao, F., Alfieri, J., Prueger, J., Hipps, L., & Saa, S. (2023). The Tree-crop Remote sensing of Evapotranspiration eXperiment (T-REX): A science-based path for sustainable water management and climate resilience. *Bulletin of the American Meteorological Society*. <https://doi.org/10.1175/BAMS-D-22-0118.1>
459. Bao, F., Wang, X., Sureshbabu, S. H., Sreekumar, G., Yang, L., Aggarwal, V., Boddeti, V. N., & Jacob, Z. (2023). Heat-assisted detection and ranging. *Nature*, 619(7971), 743–748. <https://doi.org/10.1038/s41586-023-06174-6>
460. Barton, A. M., Poulos, H. M., Koch, G. W., Kolb, T. E., & Thode, A. E. (2023). Detecting patterns of post-fire pine regeneration in a Madrean Sky Island with field surveys and

remote sensing. *Science of The Total Environment*, 867, 161517.
<https://doi.org/10.1016/j.scitotenv.2023.161517>

461. Barton, E. J., Taylor, C. M., Mitra, A. K., & Jayakumar, A. (2023). Systematic daytime increases in atmospheric biases linked to dry soils in irrigated areas in Indian operational forecasts. *Atmospheric Science Letters*. <https://doi.org/10.1002/asl.1172>
462. Basilio, R. R. (2023). The joint NASA/JPL-ASI surface biology and geology thermal infrared (SBG-TIR) project. In T. Kimura, S. R. Babu, & A. Hélière (Eds.), *Sensors, Systems, and Next-Generation Satellites XXVII* (p. 21). SPIE.
<https://doi.org/10.1117/12.2676730>
463. Bell, E., O'Dell, C. W., Taylor, T. E., Merrelli, A., Nelson, R. R., Kiel, M., Eldering, A., Rosenberg, R., & Fisher, B. (2023). Exploring bias in the OCO-3 snapshot area mapping mode via geometry, surface, and aerosol effects. *Atmospheric Measurement Techniques*, 16(1), 109–133. <https://doi.org/10.5194/amt-16-109-2023>
464. Belov, M. L., Belov, A., Gorodnichev, V., Alkov, S., & Shkarupilo, A. (2023). Evaluation of the hyperspectral monitoring method capabilities for forests areas. In O. A. Romanovskii (Ed.), *29th International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics* (p. 128). SPIE. <https://doi.org/10.1117/12.2690227>
465. Bernard, F., Bourgeois, G., Manolis, I., Barat, I., Bolea Alamanac, A., Such Taboada, M., Mingorance, P., Ciapponi, A., Cardone, T., Dutruel, E., Furano, G., Garcia, A., Hallibert, P., Hammar, A., Merodio Codinachs, D., Patti, S., Skrzypek, P., Tirolien, T., Chrovalli, V., ... Cabeza Vega, I. (2023). The LSTM instrument: design, technology and performance. In K. Minoglou, N. Karafolas, & B. Cugny (Eds.), *International Conference on Space Optics — ICSO 2022* (p. 144). SPIE. <https://doi.org/10.1117/12.2690632>
466. Bezerra, U. A., Cunha, J., Valente, F., Nóbrega, R. L. B., Andrade, J. M., Moura, M. S. B., Verhoef, A., Perez-Marin, A. M., & Galvão, C. O. (2023). STEEP: A remotely-sensed energy balance model for evapotranspiration estimation in seasonally dry tropical forests. *Agricultural and Forest Meteorology*, 333, 109408.
<https://doi.org/10.1016/j.agrformet.2023.109408>
467. Boulisset, V., Attié, J.-L., Tournier, R., Ceamanos, X., Andrey, J., Pequignot, E., Lauret, N., & Gastellu-Etchegorry, J.-P. (2023). Aerosol Optical Depth Measurements from a Simulated Low-Cost Multi-Wavelength Ground-Based Camera: A Clear Case over a Peri-Urban Area. *Remote Sensing*, 16(1), 140. <https://doi.org/10.3390/rs16010140>
468. Buri, P., Fatichi, S., Shaw, T. E., Miles, E. S., McCarthy, M. J., Fyffe, C. L., Fugger, S., Ren, S., Kneib, M., Jouberton, A., Steiner, J., Fujita, K., & Pellicciotti, F. (2023). Land Surface Modeling in the Himalayas: On the Importance of Evaporative Fluxes for the

Water Balance of a High-Elevation Catchment. *Water Resources Research*, 59(10).
<https://doi.org/10.1029/2022WR033841>

469. Cai, X., Yang, J., Zhang, Y., Xiao, X., & Xia, J. (2023). Cooling island effect in urban parks from the perspective of internal park landscape. *Humanities and Social Sciences Communications*, 10(1), 674. <https://doi.org/10.1057/s41599-023-02209-5>
470. Celik, B. (2023). QLSU (QGIS Linear Spectral Unmixing) Plugin: An open source linear spectral unmixing tool for hyperspectral & multispectral remote sensing imagery. *Environmental Modelling & Software*, 168, 105782.
<https://doi.org/10.1016/j.envsoft.2023.105782>
471. Celis, J., Xiao, X., Basara, J., Wagle, P., & McCarthy, H. (2023). *Simple and Innovative Methods to Estimate Gross Primary Production and Transpiration of Crops: A Review* (pp. 125–156). https://doi.org/10.1007/978-981-99-0577-5_7
472. Celis, J., Xiao, X., White, P. M., Cabral, O. M. R., & Freitas, H. C. (2023). Improved Modeling of Gross Primary Production and Transpiration of Sugarcane Plantations with Time-Series Landsat and Sentinel-2 Images. *Remote Sensing*, 16(1), 46.
<https://doi.org/10.3390/rs16010046>
473. Chambers, S. N., Brown, H. E., Keith, L., & Austhof, E. (2023a). Development of a geographic human heat balance equation to support public health analyses: An Arizona urban sun corridor application. *Remote Sensing Applications: Society and Environment*, 32, 101009. <https://doi.org/10.1016/j.rsase.2023.101009>
474. Chambers, S. N., Brown, H. E., Keith, L., & Austhof, E. (2023b). Development of a geographic human heat balance equation to support public health analyses: An Arizona urban sun corridor application. *Remote Sensing Applications: Society and Environment*, 32, 101009. <https://doi.org/10.1016/j.rsase.2023.101009>
475. Chanév, M., Kamenova, I., & Filchev, L. (2023). *Remote Sensing Monitoring of Water Productivity in Agricultural Crops: A Review* (pp. 17–26). https://doi.org/10.1007/978-981-99-2605-3_2
476. Chang, Y., Xiao, J., Li, X., & Weng, Q. (2023). Monitoring diurnal dynamics of surface urban heat island for urban agglomerations using ECOSTRESS land surface temperature observations. *Sustainable Cities and Society*, 98, 104833.
<https://doi.org/10.1016/j.scs.2023.104833>

477. Chen, C., Bagan, H., & Yoshida, T. (2023). Multiscale mapping of local climate zones in Tokyo using airborne LiDAR data, GIS vectors, and Sentinel-2 imagery. *GIScience & Remote Sensing*, 60(1). <https://doi.org/10.1080/15481603.2023.2209970>
478. Chen, H., Ghani Razaqpur, A., Wei, Y., Jeanne Huang, J., Li, H., & McBean, E. (2023). Estimation of global land surface evapotranspiration and its trend using a surface energy balance constrained deep learning model. *Journal of Hydrology*, 130224. <https://doi.org/10.1016/j.jhydrol.2023.130224>
479. Chen, H., Jeanne Huang, J., Li, H., Wei, Y., & Zhu, X. (2023). Revealing the response of urban heat island effect to water body evaporation from main urban and suburb areas. *Journal of Hydrology*, 129687. <https://doi.org/10.1016/j.jhydrol.2023.129687>
480. Chen, L., Zhang, N., Zhao, T., Zhang, H., Chang, J., Tao, J., & Chi, Y. (2023). Lithium-Bearing Pegmatite Identification, Based on Spectral Analysis and Machine Learning: A Case Study of the Dahongliutan Area, NW China. *Remote Sensing*, 15(2), 493. <https://doi.org/10.3390/rs15020493>
481. Cheng, Q., Zhang, Z., Liang, D., & Ye, F. (2023). Fine Spatial and Temporal Ice/Snow Surface Temperature Generation: Evaluation Spatiotemporal Fusion Methods in Greenland Ice Sheet. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–16. <https://doi.org/10.1109/JSTARS.2023.3323742>
482. Chu, H., Christianson, D. S., Cheah, Y.-W., Pastorello, G., O'Brien, F., Geden, J., Ngo, S.-T., Hollowgrass, R., Leibowitz, K., Beekwilder, N. F., Sandesh, M., Dengel, S., Chan, S. W., Santos, A., Delwiche, K., Yi, K., Buechner, C., Baldocchi, D., Papale, D., ... Torn, M. S. (2023). AmeriFlux BASE data pipeline to support network growth and data sharing. *Scientific Data*, 10(1), 614. <https://doi.org/10.1038/s41597-023-02531-2>
483. Corbari, C., Paciolla, N., Rossi, G., & Mancini, M. (2023). A double two-sources energy-water balance model for improving evapotranspiration estimates and irrigation management in fruit trees fields. *Agricultural Water Management*, 289, 108522. <https://doi.org/10.1016/j.agwat.2023.108522>
484. Cortés-Molino, Á., Valdés-Uribe, A., Ellsäßer, F., Bulusu, M., Ahongshangbam, J., Hendrayanto, Hölscher, D., & Röhl, A. (2023). Combining UAV thermography, point cloud analysis and machine learning for assessing small-scale evapotranspiration patterns in a tropical rainforest. *Ecohydrology*. <https://doi.org/10.1002/eco.2604>
485. Crawford, C. J., Roy, D. P., Arab, S., Barnes, C., Vermote, E., Hulley, G., Gerace, A., Choate, M., Engebretson, C., Micijevic, E., Schmidt, G., Anderson, C., Anderson, M., Bouchard, M., Cook, B., Dittmeier, R., Howard, D., Jenkerson, C., Kim, M., ... Zahn, S.

- (2023). The 50-year landsat collection 2 archive. *Science of Remote Sensing*, 100103. <https://doi.org/10.1016/j.srs.2023.100103>
486. Cui, M., Zhou, L., Wang, W., Sun, D., Yuan, B., & Wei, W. (2023). Spatial Heterogeneity and Hierarchy of Metropolitan Area Expansion and Land Surface Temperature Evolution: A Twin City Perspective. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–12. <https://doi.org/10.1109/JSTARS.2023.3325369>
487. DAVE, J. A., PANDYA, M. R., SHAH, D. B., VARCHAND, H. K., PARMAR, P. N., TRIVEDI, H. J., PATHAK, V. N., SINGH, M., & KARDANI, D. B. (2023). Comparative analysis of two parameter-dependent split window algorithms for the land surface temperature retrieval using MODIS TIR observations. *Journal of Agrometeorology*, 25(4), 510–516. <https://doi.org/10.54386/jam.v25i4.2286>
488. de Lange, N. (2023). *Remote Sensing and Digital Image Processing* (pp. 435–510). https://doi.org/10.1007/978-3-662-65758-4_10
489. de Souza, F. B., Laipelt, L., de Andrade, B. C., de Arruda Souza, V., Roberti, D. R., & Ruhoff, A. (2023). A MODIS–Landsat cloud-based spatiotemporal downscaling algorithm to estimate land surface temperature. *International Journal of Remote Sensing*, 44(15), 4775–4795. <https://doi.org/10.1080/01431161.2023.2238327>
490. Di, L., & Yu, E. (2023). *Remote Sensing Big Data*. Springer International Publishing. <https://doi.org/10.1007/978-3-031-33932-5>
491. Dickman, L. T., Jonko, A. K., Linn, R. R., Altintas, I., Atchley, A. L., Bär, A., Collins, A. D., Dupuy, J., Gallagher, M. R., Hiers, J. K., Hoffman, C. M., Hood, S. M., Hurteau, M. D., Jolly, W. M., Josephson, A., Loudermilk, E. L., Ma, W., Michaletz, S. T., Nolan, R. H., ... Younes, N. (2023). Integrating plant physiology into simulation of fire behavior and effects. *New Phytologist*. <https://doi.org/10.1111/nph.18770>
492. Djaman, K., Mohammed, A. T., & Koudahe, K. (2023). Accuracy of Estimated Crop Evapotranspiration Using Locally Developed Crop Coefficients against Satellite-Derived Crop Evapotranspiration in a Semiarid Climate. *Agronomy*, 13(7), 1937. <https://doi.org/10.3390/agronomy13071937>
493. Doughty, C. E., Keany, J. M., Wiebe, B. C., Rey-Sanchez, C., Carter, K. R., Middleby, K. B., Cheesman, A. W., Goulden, M. L., da Rocha, H. R., Miller, S. D., Malhi, Y., Fauset, S., Gloor, E., Slot, M., Oliveras Menor, I., Crous, K. Y., Goldsmith, G. R., & Fisher, J. B. (2023). Tropical forests are approaching critical temperature thresholds. *Nature*, 621(7977), 105–111. <https://doi.org/10.1038/s41586-023-06391-z>

494. Ermida, S. L., Hulley, G., Goettsche, F. M., & Trigo, I. F. (2023). A combined Vegetation cover and Temperature-Emissivity Separation (V-TES) method to estimate land surface emissivity. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2023.3301615>
495. Feinberg, A. (2023). Urbanization Heat Flux Modeling Confirms It Is a Likely Cause of Significant Global Warming: Urbanization Mitigation Requirements. *Land*, 12(6), 1222. <https://doi.org/10.3390/land12061222>
496. Fernandes, R., Nascimento, V., Freitas, M., & Ometto, J. (2023). Local Climate Zones to Identify Surface Urban Heat Islands: A Systematic Review. *Remote Sensing*, 15(4), 884. <https://doi.org/10.3390/rs15040884>
497. Fernández-Guisuraga, J. M., Calvo, L., Quintano, C., Fernández-Manso, A., & Fernandes, P. M. (2023). Fractional vegetation cover ratio estimated from radiative transfer modeling outperforms spectral indices to assess fire severity in several Mediterranean plant communities. *Remote Sensing of Environment*, 290, 113542. <https://doi.org/10.1016/j.rse.2023.113542>
498. Ficklin, D. L., Hannah, D. M., Wanders, N., Dugdale, S. J., England, J., Klaus, J., Kelleher, C., Khamis, K., & Charlton, M. B. (2023). Rethinking river water temperature in a changing, human-dominated world. *Nature Water*, 1(2), 125–128. <https://doi.org/10.1038/s44221-023-00027-2>
499. Fiorillo, E., Brillì, L., Carotenuto, F., Cremonini, L., Gioli, B., Giordano, T., & Nardino, M. (2023). Diurnal Outdoor Thermal Comfort Mapping through Envi-Met Simulations, Remotely Sensed and In Situ Measurements. *Atmosphere*, 14(4), 641. <https://doi.org/10.3390/atmos14040641>
500. Fisher, J. B., Dohlen, M. B., Halverson, G. H., Collison, J. W., Pearson, C., & Huntington, J. L. (2023). Remotely sensed terrestrial open water evaporation. *Scientific Reports*, 13(1), 8174. <https://doi.org/10.1038/s41598-023-34921-2>
501. Fonseca, G. S., de Sá, L. B., & Gomes, J. G. R. C. (2023). Design of non-Gaussian multispectral shortwave infrared filters assessed by surface spectral reflectances on the ECOSTRESS library. *Journal of the Optical Society of America A*, 40(5), 1006. <https://doi.org/10.1364/JOSAA.480571>
502. Gao, R., Torres-Rua, A. F., Nieto, H., Zahn, E., Hipps, L., Kustas, W. P., Alsina, M. M., Bambach, N., Castro, S. J., Prueger, J. H., Alfieri, J., McKee, L. G., White, W. A., Gao, F., McElrone, A. J., Anderson, M., Knipper, K., Coopmans, C., Gowing, I., ... Dokoozlian, N. (2023). ET Partitioning Assessment Using the TSEB Model and sUAS

Information across California Central Valley Vineyards. *Remote Sensing*, 15(3), 756.
<https://doi.org/10.3390/rs15030756>

503. Gao, Y., Zhu, S., Zhang, G., & Xu, Y. (2023). Accuracy Evaluation of the FY-4A AGRI Land Surface Temperature Product. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 16, 9967–9976.
<https://doi.org/10.1109/JSTARS.2023.3326956>
504. Gkolemi, M., Mitraka, Z., & Chrysoulakis, N. (2023). Local scale surface temperature estimation by downscaling satellite thermal infrared observations using neural networks. *2023 Joint Urban Remote Sensing Event (JURSE)*, 1–4.
<https://doi.org/10.1109/JURSE57346.2023.10144083>
505. Gordon, K. E., Karalidi, T., Bott, K. M., Miles-Páez, P. A., Mulder, W., & Stam, D. M. (2023). *Polarized Signatures of a Habitable World: Comparing Models of an Exoplanet Earth with Visible and Near-infrared Earthshine Spectra*.
506. Grimming, R., Fuxhi, O., Driggers, R., & Renshaw, K. (2023). Multiband longwave infrared reflectance removal using blackbody channel prior. *Optical Engineering*, 62(03).
<https://doi.org/10.1117/1.OE.62.3.033101>
507. Gross, G., Helder, D., & Leigh, L. (2023). Extended Cross-Calibration Analysis Using Data from the Landsat 8 and 9 Underfly Event. *Remote Sensing*, 15(7), 1788.
<https://doi.org/10.3390/rs15071788>
508. Gui, Y., Duan, S.-B., Li, Z.-L., Huang, C., Liu, M., Liu, X., & Gao, C. (2023). A physical-based method for pixel-by-pixel quantifying uncertainty of land surface temperature retrieval from satellite thermal infrared data using the generalized split-window algorithm. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1.
<https://doi.org/10.1109/TGRS.2023.3244858>
509. Guo, A., He, T., Yue, W., Xiao, W., Yang, J., Zhang, M., & Li, M. (2023). Contribution of urban trees in reducing land surface temperature: Evidence from china's major cities. *International Journal of Applied Earth Observation and Geoinformation*, 125, 103570.
<https://doi.org/10.1016/j.jag.2023.103570>
510. Guo, F., Schlink, U., Wu, W., Hu, D., & Sun, J. (2023). Scale-dependent and season-dependent impacts of 2D/3D building morphology on land surface temperature. *Sustainable Cities and Society*, 97, 104788. <https://doi.org/10.1016/j.scs.2023.104788>
511. Guzinski, R., Nieto, H., Ramo Sánchez, R., Sánchez, J. M., Jomaa, I., Zitouna-Chebbi, R., Rousard, O., & López-Urrea, R. (2023). Improving field-scale crop actual

evapotranspiration monitoring with Sentinel-3, Sentinel-2, and Landsat data fusion. *International Journal of Applied Earth Observation and Geoinformation*, 125, 103587. <https://doi.org/10.1016/j.jag.2023.103587>

512. Hamlington, B. D., Tripathi, A., Rounce, D. R., Weathers, M., Adams, K. H., Blackwood, C., Carter, J., Collini, R. C., Engeman, L., Haasnoot, M., & Kopp, R. E. (2023). Satellite Monitoring for Coastal Dynamic Adaptation Policy Pathways. *Climate Risk Management*, 100555. <https://doi.org/10.1016/j.crm.2023.100555>
513. Han, D., An, H., Cai, H., Wang, F., Xu, X., Qiao, Z., Jia, K., Sun, Z., & An, Y. (2023). How do 2D/3D urban landscapes impact diurnal land surface temperature: Insights from block scale and machine learning algorithms. *Sustainable Cities and Society*, 99, 104933. <https://doi.org/10.1016/j.scs.2023.104933>
514. Hassani, A., Santos, G. S., Schneider, P., & Castell, N. (2023). Interpolation, Satellite-Based Machine Learning, or Meteorological Simulation? A Comparison Analysis for Spatio-temporal Mapping of Mesoscale Urban Air Temperature. *Environmental Modeling & Assessment*. <https://doi.org/10.1007/s10666-023-09943-9>
515. He, Z.-W., & Tang, B.-H. (2023). Retrieval of Rugged Mountainous Areas Land Surface Temperature From High-spatial-resolution Thermal Infrared Remote Sensing Data. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2023.3316624>
516. Hernández-Clemente, R., Hornero, A., Gonzalez-Dugo, V., Berdugo, M., Quero, J. L., Jiménez, J. C., & Maestre, F. T. (2023). Global monitoring of soil multifunctionality in drylands using satellite imagery and field data. *Remote Sensing in Ecology and Conservation*. <https://doi.org/10.1002/rse2.340>
517. Herndon, K. E., Griffin, R., Schroder, W., Murtha, T., Golden, C., Contreras, D. A., Cherrington, E., Wang, L., Bazarsky, A., Kollias, G. van, & Alcover Firpi, O. (2023). Google Earth Engine for archaeologists: An updated look at the progress and promise of remotely sensed big data. *Journal of Archaeological Science: Reports*, 50, 104094. <https://doi.org/10.1016/j.jasrep.2023.104094>
518. Herrick, C., Steele, B. G., Brentrup, J. A., Cottingham, K. L., Ducey, M. J., Lutz, D. A., Palace, M. W., Thompson, M. C., Trout-Haney, J. v., & Weathers, K. C. (2023). <sc>lakeCoSTR</sc> : A tool to facilitate use of Landsat Collection 2 to estimate lake surface water temperatures. *Ecosphere*, 14(1). <https://doi.org/10.1002/ecs2.4357>
519. Hidalgo García, D. (2023a). Spatio-temporal analysis of the urban green infrastructure of the city of Granada (Spain) as a heat mitigation measure using high-resolution

images Sentinel 3. *Urban Forestry & Urban Greening*, 87, 128061.
<https://doi.org/10.1016/j.ufug.2023.128061>

520. Hidalgo García, D. (2023b). Spatio-temporal analysis of the urban green infrastructure of the city of Granada (Spain) as a heat mitigation measure using high-resolution images Sentinel 3. *Urban Forestry & Urban Greening*, 87, 128061.
<https://doi.org/10.1016/j.ufug.2023.128061>
521. Hochstaffl, P., Schreier, F., Köhler, C. H., Baumgartner, A., & Cerra, D. (2023). Methane retrievals from airborne HySpex observations in the shortwave infrared. *Atmospheric Measurement Techniques*, 16(18), 4195–4214. <https://doi.org/10.5194/amt-16-4195-2023>
522. Hoover, D. L., Abendroth, L. J., Browning, D. M., Saha, A., Snyder, K., Wagle, P., Witthaus, L., Baffaut, C., Biederman, J. A., Bosch, D. D., Bracho, R., Busch, D., Clark, P., Ellsworth, P., Fay, P. A., Flerchinger, G., Kearney, S., Levers, L., Saliendra, N., ... Scott, R. L. (2023). Indicators of water use efficiency across diverse agroecosystems and spatiotemporal scales. *Science of The Total Environment*, 864, 160992.
<https://doi.org/10.1016/j.scitotenv.2022.160992>
523. Hu, T., Hulley, G. C., Mallick, K., Szantoi, Z., & Hook, S. (2023). Comparison between the ASTER and ECOSTRESS global emissivity datasets. *International Journal of Applied Earth Observation and Geoinformation*, 118, 103227.
<https://doi.org/10.1016/j.jag.2023.103227>
524. Huang, W., Jiao, J., Zhao, L., Hu, Z., Peng, X., Yang, L., Li, X., & Chen, F. (2023). Thermal Discharge Temperature Retrieval and Monitoring of NPPs Based on SDGSAT-1 Images. *Remote Sensing*, 15(9), 2298. <https://doi.org/10.3390/rs15092298>
525. Hudiburg, T., Mathias, J., Bartowitz, K., Berardi, D. M., Bryant, K., Graham, E., Kolden, C. A., Betts, R. A., & Lynch, L. (2023). Terrestrial carbon dynamics in an era of increasing wildfire. *Nature Climate Change*, 13(12), 1306–1316.
<https://doi.org/10.1038/s41558-023-01881-4>
526. Hwang, K., Harpold, A. A., Tague, C. L., Lowman, L., Boisramé, G. F. S., Lininger, K. B., Sullivan, P. L., Manning, A., Graup, L., Litvak, M., Lewis, G., Miller, K., Brooks, P. D., & Barnard, H. R. (2023). Seeing the Disturbed Forest for the Trees: Remote Sensing Is Underutilized to Quantify Critical Zone Response to Unprecedented Disturbance. *Earth's Future*, 11(8). <https://doi.org/10.1029/2022EF003314>
527. Jiang, S., Wu, J., Wang, Z., He, Z., Wang, M., Yao, W., & Feng, Y. (2023). Spatiotemporal variations of cropland carbon sequestration and water loss across

China. *Agricultural Water Management*, 287, 108427.
<https://doi.org/10.1016/j.agwat.2023.108427>

528. Kamath, H. G., Martilli, A., Singh, M., Brooks, T., Lanza, K., Bixler, R. P., Coudert, M., Yang, Z.-L., & Niyogi, D. (2023). Human heat health index (H3I) for holistic assessment of heat hazard and mitigation strategies beyond urban heat islands. *Urban Climate*, 52, 101675. <https://doi.org/10.1016/j.uclim.2023.101675>
529. Khoshnood, S., Lotfata, A., Mombeni, M., Daneshi, A., Verrelst, J., & Ghorbani, K. (2023). A Spatial and Temporal Correlation between Remotely Sensing Evapotranspiration with Land Use and Land Cover. *Water*, 15(6), 1068. <https://doi.org/10.3390/w15061068>
530. Kloog, I., & Zhang, X. (2023). Methods to Advance Climate Science in Respiratory Health. *Immunology and Allergy Clinics of North America*. <https://doi.org/10.1016/j.iac.2023.07.002>
531. Knighton, J., & Berghuijs, W. R. (2023). Water Ages Explain Tradeoffs Between Long-Term Evapotranspiration and Ecosystem Drought Resilience. *Geophysical Research Letters*, 50(10). <https://doi.org/10.1029/2023GL103649>
532. Knipper, K., Yang, Y., Anderson, M., Bambach, N., Kustas, W., McElrone, A., Gao, F., & Alsina, M. M. (2023). Decreased latency in landsat-derived land surface temperature products: A case for near-real-time evapotranspiration estimation in California. *Agricultural Water Management*, 283, 108316. <https://doi.org/10.1016/j.agwat.2023.108316>
533. Kobayashi, T., Kobayashi, H., Yang, W., Murakami, H., Honda, Y., & Nishida Nasahara, K. (2023). The development of a global LAI and FAPAR product using GCOM-C/SGLI data. *ISPRS Journal of Photogrammetry and Remote Sensing*, 202, 479–498. <https://doi.org/10.1016/j.isprsjprs.2023.07.003>
534. Kowalski, K., Okujeni, A., & Hostert, P. (2023a). A generalized framework for drought monitoring across Central European grassland gradients with Sentinel-2 time series. *Remote Sensing of Environment*, 286, 113449. <https://doi.org/10.1016/j.rse.2022.113449>
535. Kowalski, K., Okujeni, A., & Hostert, P. (2023b). A generalized framework for drought monitoring across Central European grassland gradients with Sentinel-2 time series. *Remote Sensing of Environment*, 286, 113449. <https://doi.org/10.1016/j.rse.2022.113449>

536. Kozhoridze, G., Korolyova, N., & Jakuš, R. (2023). Norway spruce susceptibility to bark beetles is associated with increased canopy surface temperature in a year prior disturbance. *Forest Ecology and Management*, 547, 121400. <https://doi.org/10.1016/j.foreco.2023.121400>
537. Kumawat, R. K., Tiwari, G., Ramakrishnan, R. S., Bhayal, D., Debnath, S., Thakur, S., & Bhayal, L. (2023). Remote Sensing Related Tools and their Spectral Indices Applications for Crop Management in Precision Agriculture. *International Journal of Environment and Climate Change*, 171–188. <https://doi.org/10.9734/ijecc/2023/v13i11665>
538. LaDochy, S., & Witiw, M. (2023a). *Fire and Rain*. Springer Nature Switzerland. <https://doi.org/10.1007/978-3-031-32273-0>
539. LaDochy, S., & Witiw, M. (2023b). Temperature Variations: Heat and Cold. In *Fire and Rain* (pp. 33–56). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-32273-0_4
540. Lagos, L. O., Souto, C., Lillo-Saavedra, M., Pérez, A., Hirzel, J., Kuschel-Otárola, M., Holzapfel, E., & Scaff, L. (2023). Daily crop evapotranspiration and diurnal dynamics of the surface energy balance of a drip-irrigated blueberry (*Vaccinium corymbosum*) orchard. *Irrigation Science*. <https://doi.org/10.1007/s00271-023-00869-4>
541. Lantzanakis, G., Tsirantonakis, D., Chrysoulakis, N., Grimmond, S., Christen, A., & Birkmann, J. (2023). Initial development of the urbisphere urban hyperspectral library: Berlin, Germany. *2023 Joint Urban Remote Sensing Event (JURSE)*, 1–4. <https://doi.org/10.1109/JURSE57346.2023.10144154>
542. Lawford, R., Unninayar, S., Huffman, G. J., Grabs, W., Gutiérrez, A., Ishida-Watanabe, C., & Koike, T. (2023). Implementing the GEOSS water strategy: from observations to decisions. *International Journal of Digital Earth*, 16(1), 1439–1468. <https://doi.org/10.1080/17538947.2023.2202420>
543. Levin, S. B., Briggs, M. A., Foks, S. S., Goodling, P. J., Raffensperger, J. P., Rosenberry, D. O., Scholl, M. A., Tiedeman, C. R., & Webb, R. M. (2023). Uncertainties in measuring and estimating water-budget components: Current state of the science. *WIREs Water*. <https://doi.org/10.1002/wat2.1646>
544. Li, Changming, Liu, Z., Tu, Z., Shen, J., He, Y., & Yang, H. (2023). Assessment of global gridded transpiration products using the extended instrumental variable

technique (EIVD). *Journal of Hydrology*, 623, 129880.
<https://doi.org/10.1016/j.jhydrol.2023.129880>

545. Li, H., Li, R., Tu, H., Cao, B., Liu, F., Bian, Z., Hu, T., Du, Y., Sun, L., & Liu, Q. (2023). An Operational Split-Window Algorithm for Generating Long-Term Land Surface Temperature Products from Chinese Fengyun-3 Series Satellite Data. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1.
<https://doi.org/10.1109/TGRS.2023.3315968>
546. Li, Jiyan, Zhao, H., Gu, X., Yang, L., Bai, B., Jia, G., & Li, Z. (2023). Analysis of Space-Based Observed Infrared Characteristics of Aircraft in the Air. *Remote Sensing*, 15(2), 535. <https://doi.org/10.3390/rs15020535>
547. Li, Xiaojiang, Chakraborty, T., & Wang, G. (2023). Comparing land surface temperature and mean radiant temperature for urban heat mapping in Philadelphia. *Urban Climate*, 51, 101615. <https://doi.org/10.1016/j.uclim.2023.101615>
548. Li, Xing, Ryu, Y., Xiao, J., Dechant, B., Liu, J., Li, B., Jeong, S., & Gentine, P. (2023). New-generation geostationary satellite reveals widespread midday depression in dryland photosynthesis during 2020 western U.S. heatwave. *Science Advances*, 9(31). <https://doi.org/10.1126/sciadv.adi0775>
549. Li, Zhen, Wang, Z., Wen, D., & Wu, L. (2023). How urban parks and their surrounding buildings affect seasonal land surface temperature: A case study in Beijing, China. *Urban Forestry & Urban Greening*, 87, 128047.
<https://doi.org/10.1016/j.ufug.2023.128047>
550. Lodge, J. W., Dansie, A. P., & Johnson, F. (2023). A review of globally available data sources for modelling the Water-Energy-Food Nexus. *Earth-Science Reviews*, 243, 104485. <https://doi.org/10.1016/j.earscirev.2023.104485>
551. Lorente, A., Borsdorff, T., Martinez-Velarte, M. C., & Landgraf, J. (2023). Accounting for surface reflectance spectral features in TROPOMI methane retrievals. *Atmospheric Measurement Techniques*, 16(6), 1597–1608. <https://doi.org/10.5194/amt-16-1597-2023>
552. Loughlin, C., Manolakis, D. G., Pieper, M. L., Ingle, V., Bostick, R. L., & Weisner, A. J. (2023). Spectral variability modeling with variational auto-encoders for hyperspectral target analysis. In D. W. Messinger & M. Velez-Reyes (Eds.), *Algorithms, Technologies, and Applications for Multispectral and Hyperspectral Imaging XXIX* (p. 37). SPIE.
<https://doi.org/10.1117/12.2663195>

553. Malcoti, M. D., Zia, H., Kabre, C., Hang, H. T., Shahfahad, & Rahman, A. (2023). Analysis of urban streets and surface thermal characteristics using thermal imaging camera in residential streets of Gurugram City, India. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-023-28553-2>
554. Manohar Kumar, C. V. S. S., Nidamanuri, R. R., & Dadhwal, V. K. (2023a). Subpixel Level Discrimination of Vegetable Crops in a Complex Landscape Environment. *2023 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS)*, 1–4. <https://doi.org/10.1109/MIGARS57353.2023.10064602>
555. Manohar Kumar, C. V. S. S., Nidamanuri, R. R., & Dadhwal, V. K. (2023b). Subpixel Level Discrimination of Vegetable Crops in a Complex Landscape Environment. *2023 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS)*, 1–4. <https://doi.org/10.1109/MIGARS57353.2023.10064602>
556. Mao, X., Tang, G., Du, J., & Tian, X. (2023). Biophysical Effects of Land Cover Changes on Land Surface Temperature on the Sichuan Basin and Surrounding Regions. *Land*, 12(11), 1959. <https://doi.org/10.3390/land12111959>
557. Marconcini, M., Metz-Marconcini, A., Esch, T., Somarakis, G., Chrysoulakis, N., & Mitraka, Z. (2023). Exploiting Copernicus Core Services for Assessing the Surface Urban Heat Island Intensity. *2023 Joint Urban Remote Sensing Event (JURSE)*, 1–4. <https://doi.org/10.1109/JURSE57346.2023.10144085>
558. Marcq, S., Delogu, E., Chapelier, M., & Vidal, T. H. G. (2023). DirecTES: A Direct Method for Land and Sea Surface Temperature and Emissivity Separation for Thermal Infrared Sensors—Application to TRISHNA and ECOSTRESS. *Remote Sensing*, 15(2), 517. <https://doi.org/10.3390/rs15020517>
559. Massi, A., Ortolani, M., Vitulano, D., Bruni, V., & Mazzanti, P. (2023). Enhancing the Thermal Images of the Upper Scarp of the Poggio Baldi Landslide (Italy) by Physical Modeling and Image Analysis. *Remote Sensing*, 15(4), 907. <https://doi.org/10.3390/rs15040907>
560. Matoušková, E., Kovářová, K., Cihla, M., & Hodač, J. (2023). Monitoring biological degradation of historical stone using hyperspectral imaging. *European Journal of Remote Sensing*. <https://doi.org/10.1080/22797254.2023.2220565>
561. Mbabazi, D., Mohanty, B. P., & Gaur, N. (2023a). High spatio-temporal resolution evapotranspiration estimates within large agricultural fields by fusing eddy covariance

and Landsat based data. *Agricultural and Forest Meteorology*, 333, 109417. <https://doi.org/10.1016/j.agrformet.2023.109417>

562. Mbabazi, D., Mohanty, B. P., & Gaur, N. (2023b). High spatio-temporal resolution evapotranspiration estimates within large agricultural fields by fusing eddy covariance and Landsat based data. *Agricultural and Forest Meteorology*, 333, 109417. <https://doi.org/10.1016/j.agrformet.2023.109417>
563. McDermid, S., Nocco, M., Lawston-Parker, P., Keune, J., Pokhrel, Y., Jain, M., Jägermeyr, J., Brocca, L., Massari, C., Jones, A. D., Vahmani, P., Thiery, W., Yao, Y., Bell, A., Chen, L., Dorigo, W., Hanasaki, N., Jasechko, S., Lo, M.-H., ... Yokohata, T. (2023). Irrigation in the Earth system. *Nature Reviews Earth & Environment*. <https://doi.org/10.1038/s43017-023-00438-5>
564. Meng, Y., Zhou, J., Göttsche, F.-M., Tang, W., Martins, J., Perez-Planells, L., Ma, J., & Wang, Z. (2023). Investigation and validation of two all-weather land surface temperature products with in-situ measurements. *Geo-Spatial Information Science*, 1–13. <https://doi.org/10.1080/10095020.2023.2255037>
565. Mesa, A. N., Strager, M. P., Grushecky, S. T., & Kinder, P. (2023). Using Unmanned Aerial Vehicles to Evaluate Revegetation Success on Natural Gas Pipelines. *Environmental Management*. <https://doi.org/10.1007/s00267-023-01842-9>
566. Miller, D. L., Wolf, S., Fisher, J. B., Zaitchik, B. F., Xiao, J., & Keenan, T. F. (2023). Increased photosynthesis during spring drought in energy-limited ecosystems. *Nature Communications*, 14(1), 7828. <https://doi.org/10.1038/s41467-023-43430-9>
567. Mishra, V., Limaye, A. S., Doehnert, F., Policastro, R., Hassan, D., Ndiaye, M. T. Y., Abel, N. van, Johnson, K., Grange, J., Coffey, K., & Rashid, A. (2023). Assessing impact of agroecological interventions in Niger through remotely sensed changes in vegetation. *Scientific Reports*, 13(1), 360. <https://doi.org/10.1038/s41598-022-27242-3>
568. Mokhtari, A., Sadeghi, M., Afrasiabian, Y., & Yu, K. (2023). OPTRAM-ET: A novel approach to remote sensing of actual evapotranspiration applied to Sentinel-2 and Landsat-8 observations. *Remote Sensing of Environment*, 286, 113443. <https://doi.org/10.1016/j.rse.2022.113443>
569. Montaghi, A., Bregaglio, S., & Bajocco, S. (2023). An open-source cloud-based procedure for MODIS remote sensing products: The nasawebsevicepython package. *Ecological Informatics*, 102433. <https://doi.org/10.1016/j.ecoinf.2023.102433>

570. Moyers, K., Sabie, R., Waring, E., Preciado, J., Naughton, C. C., Harmon, T., Safeeq, M., Torres-Rua, A., Fernald, A., & Viers, J. H. (2023). A Decade of Data-Driven Water Budgets: Synthesis and Bibliometric Review. *Water Resources Research*, 59(11). <https://doi.org/10.1029/2022WR034310>
571. Mukherjee, R. (2023, October 23). Survey Of Select Recent In-Space Servicing Assembly and Manufacturing Related Robotics Projects at The Jet Propulsion Laboratory. *ASCEND 2023*. <https://doi.org/10.2514/6.2023-4700>
572. Munghemezulu, C., Mashaba-Munghemezulu, Z., Ratshiedana, P. E., Economon, E., Chirima, G., & Sibanda, S. (2023). Unmanned Aerial Vehicle (UAV) and Spectral Datasets in South Africa for Precision Agriculture. *Data*, 8(6), 98. <https://doi.org/10.3390/data8060098>
573. Niclòs, R., Perelló, M., Puchades, J., Coll, C., & Valor, E. (2023). Evaluating Landsat-9 TIRS-2 calibrations and land surface temperature retrievals against ground measurements using multi-instrument spatial and temporal sampling along transects. *International Journal of Applied Earth Observation and Geoinformation*, 125, 103576. <https://doi.org/10.1016/j.jag.2023.103576>
574. Novick, K. A., & Barnes, M. L. (2023). A practical exploration of land cover impacts on surface and air temperature when they are most consequential. *Environmental Research: Climate*. <https://doi.org/10.1088/2752-5295/accdf9>
575. Obrecht, L., Göttsche, F.-M., Senn, J. A., & Cermak, J. (2023). Mapping Changes in Fractional Vegetation Cover on the Namib Gravel Plains with Satellite-Retrieved Land Surface Emissivity Data. *Remote Sensing*, 16(1), 159. <https://doi.org/10.3390/rs16010159>
576. Park, J., Baik, J., & Choi, M. (2023). Triple collocation-based multi-source evaporation and transpiration merging. *Agricultural and Forest Meteorology*, 331, 109353. <https://doi.org/10.1016/j.agrformet.2023.109353>
577. Pereira, J., Pereira, A. J. S. C., Gil, A., & Mantas, V. M. (2023). Lithology mapping with satellite images, fieldwork-based spectral data, and machine learning algorithms: The case study of Beiras Group (Central Portugal). *CATENA*, 220, 106653. <https://doi.org/10.1016/j.catena.2022.106653>
578. Pérez-Planells, L., & Göttsche, F.-M. (2023). Combined modelling of annual and diurnal land surface temperature cycles. *Remote Sensing of Environment*, 299, 113892. <https://doi.org/10.1016/j.rse.2023.113892>

579. Phulpin, T., Renault, D., Roquet, H., & Camy-Peyret, C. (2023). *Satellites for Atmospheric Sciences 1: Meteorology, Climate and Atmospheric Composition* (T. Phulpin, D. Renault, H. Roquet, & C. Camy-Peyret, Eds.). John Wiley & Sons.
580. Pranuthi, G., & Srikanth, R. (2023). *Globally Scalable and Locally Adaptable Solutions for Agriculture* (pp. 89–108). https://doi.org/10.1007/978-981-99-0577-5_5
581. Purwadi, I., Erskine, P. D., & van der Ent, A. (2023). Reflectance spectroscopy as a promising tool for 'sensing' metals in hyperaccumulator plants. *Planta*, *258*(2), 41. <https://doi.org/10.1007/s00425-023-04167-3>
582. Quan, J., Guan, Y., Zhan, W., Ma, T., Wang, D., & Guo, Z. (2023). Generating 60–100 m, hourly, all-weather land surface temperatures based on the Landsat, ECOSTRESS, and reanalysis temperature combination (LERC). *ISPRS Journal of Photogrammetry and Remote Sensing*, *205*, 115–134. <https://doi.org/10.1016/j.isprsjprs.2023.10.004>
583. Rapach, S., Riccardi, A., Liu, B., & Bowden, J. (2023). A Taxonomy of Earth Observation Data for Sustainable Finance. *Journal of Climate Finance*, 100029. <https://doi.org/10.1016/j.jclimf.2023.100029>
584. Reiners, P., Sobrino, J., & Kuenzer, C. (2023). Satellite-Derived Land Surface Temperature Dynamics in the Context of Global Change—A Review. *Remote Sensing*, *15*(7), 1857. <https://doi.org/10.3390/rs15071857>
585. Ritter, D. J., Rott, R., Schlager, B., Muckenhuber, S., Genser, S., Kirchengast, M., & Hennecke, M. (2023). Angle-dependent spectral reflectance material dataset based on 945 nm time-of-flight camera measurements. *Data in Brief*, 109031. <https://doi.org/10.1016/j.dib.2023.109031>
586. Rogers, R., & Pracht, M. (2023). Hyperspectral Facies Analysis as a Lithological Interpretation Tool for Carbonate Rocks. *Geosciences*, *13*(12), 381. <https://doi.org/10.3390/geosciences13120381>
587. Román, S., Olabarria, C., Weidberg, N., Román, M., & Vázquez, E. (2023). Population structure and habitat assessment for two commercial clam species exploited in small-scale fisheries. *Reviews in Fish Biology and Fisheries*. <https://doi.org/10.1007/s11160-023-09791-6>
588. Roupioz, L., Briottet, X., Adeline, K., al Bitar, A., Barbon-Dubosc, D., Barda-Chatain, R., Barillot, P., Bridier, S., Carroll, E., Cassante, C., Cerbelaud, A., Déliot, P., Doublet, P., Dupouy, P. E., Gadal, S., Guernouti, S., de Guilhem De Lataillade, A., Lemonsu, A.,

- Llorens, R., ... Sobrino, J. (2023). Multi-source datasets acquired over Toulouse (France) in 2021 for urban microclimate studies during the CAMCATT/AI4GEO field campaign. *Data in Brief*, 48, 109109. <https://doi.org/10.1016/j.dib.2023.109109>
589. Ru, C., Duan, S.-B., Jiang, X.-G., Li, Z.-L., Huang, C., & Liu, M. (2023). An extended SW-TES algorithm for land surface temperature and emissivity retrieval from ECOSTRESS thermal infrared data over urban areas. *Remote Sensing of Environment*, 290, 113544. <https://doi.org/10.1016/j.rse.2023.113544>
590. Sahadevan, A. S., Lyngdoh, R. B., Nidhin, P., Rathore, P. S., & Putrevu, D. (2023a). SDAT: An Open Source Tool for Processing, Analysis and Simulation of Spectroradiometer Data. *2023 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS)*, 1–4. <https://doi.org/10.1109/MIGARS57353.2023.10064549>
591. Sahadevan, A. S., Lyngdoh, R. B., Nidhin, P., Rathore, P. S., & Putrevu, D. (2023b). SDAT: An Open Source Tool for Processing, Analysis and Simulation of Spectroradiometer Data. *2023 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS)*, 1–4. <https://doi.org/10.1109/MIGARS57353.2023.10064549>
592. Sánchez-Zapero, J., Camacho, F., Martínez-Sánchez, E., Gorroño, J., León-Tavares, J., Benhadj, I., Toté, C., Swinnen, E., & Muñoz-Sabater, J. (2023). Global estimates of surface albedo from Sentinel-3 OLCI and SLSTR data for Copernicus Climate Change Service: Algorithm and preliminary validation. *Remote Sensing of Environment*, 287, 113460. <https://doi.org/10.1016/j.rse.2023.113460>
593. Sarjonen, R., & Rätty, T. (2023). A new elbow estimation method for selecting the best solution in sparse unmixing. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 1–23. <https://doi.org/10.1109/JSTARS.2023.3267466>
594. Schiavon, E., Taramelli, A., Tornato, A., Lee, C. M., Luvall, J. C., Schollaert Uz, S., Townsend, P. A., Cima, V., Geraldini, S., Nguyen Xuan, A., Valentini, E., & Miller, C. E. (2023). Maximizing Societal Benefit Across Multiple Hyperspectral Earth Observation Missions: A User Needs Approach. *Journal of Geophysical Research: Biogeosciences*, 128(12). <https://doi.org/10.1029/2023JG007569>
595. Seaman, C. J., Line, W., Ziel, R., Jenkins, J., Dierking, C., & Hanson, G. (2023). Multispectral Satellite Imagery Products for Fire Weather Applications. *Journal of Atmospheric and Oceanic Technology*. <https://doi.org/10.1175/JTECH-D-22-0107.1>

596. Shang, K., Yao, Y., Di, Z., Jia, K., Zhang, X., Fisher, J. B., Chen, J., Guo, X., Yang, J., Yu, R., Xie, Z., Liu, L., Ning, J., & Zhang, L. (2023). Coupling physical constraints with machine learning for satellite-derived evapotranspiration of the Tibetan Plateau. *Remote Sensing of Environment*, 289, 113519. <https://doi.org/10.1016/j.rse.2023.113519>
597. Shao, R., Shao, W., & Wang, Y. (2023). Inferring the influence of urban vegetation on urban water storage capacity from evapotranspiration recession. *Journal of Hydrology*, 129355. <https://doi.org/10.1016/j.jhydrol.2023.129355>
598. Shinneman, D. J., Strand, E. K., Pellant, M., Abatzoglou, J. T., Brunson, M. W., Glenn, N. F., Heinrichs, J. A., Sadegh, M., & Vaillant, N. M. (2023). Future Direction of Fuels Management in Sagebrush Rangelands. *Rangeland Ecology & Management*, 86, 50–63. <https://doi.org/10.1016/j.rama.2022.10.009>
599. Shreevastava, A., Raymond, C., & Hulley, G. C. (2023). Contrasting intra-urban signatures of humid and dry heatwaves over Southern California. *Journal of Applied Meteorology and Climatology*. <https://doi.org/10.1175/JAMC-D-22-0149.1>
300. Siemenn, A. E., Ren, Z., Li, Q., & Buonassisi, T. (2023). Fast Bayesian optimization of Needle-in-a-Haystack problems using zooming memory-based initialization (ZoMBI). *Npj Computational Materials*, 9(1), 79. <https://doi.org/10.1038/s41524-023-01048-x>
301. Smigaj, M., Agarwal, A., Bartholomeus, H., Decuyper, M., Elsherif, A., de Jonge, A., & Kooistra, L. (2023). Thermal Infrared Remote Sensing of Stress Responses in Forest Environments: a Review of Developments, Challenges, and Opportunities. *Current Forestry Reports*. <https://doi.org/10.1007/s40725-023-00207-z>
302. Sree, Dr. R., Veda, Dr. D. J. S., YN, P. R., & Chauhan, G. (Eds.). (2023). *Food Security and Environmental Challenges in the Mid Twenty First Century*. Integrated Publications. <https://doi.org/10.22271/int.book.332>
303. Stocker, B. D., Tumber-Dávila, S. J., Konings, A. G., Anderson, M. C., Hain, C., & Jackson, R. B. (2023). Global patterns of water storage in the rooting zones of vegetation. *Nature Geoscience*. <https://doi.org/10.1038/s41561-023-01125-2>
304. Swope, J., Mirza, F., Dunkel, E., Candela, A., Chien, S., Holloway, A., Russell, D., Sauvageau, J., Sheldon, D., & Fernandez, M. (2023). Benchmarking Space Mission Applications on the Snapdragon Processor Onboard the ISS. *Journal of Aerospace Information Systems*, 1–9. <https://doi.org/10.2514/1.1011217>

305. Tahir, F., Madandola, M. G., & Al-Ghamdi, S. G. (2023). *Sustainable Cities in a Changing Climate: Enhancing Urban Resilience* (D. G. (Ed) Al-Ghamdi, Ed.). John Wiley & Sons.
306. Tang, Y., Wang, Z., Jiang, Y., Zhang, T., & Yang, W. (2023). An Auto-Detection and classification algorithm for identification of sand dunes based on remote sensing images. *International Journal of Applied Earth Observation and Geoinformation*, 125, 103592. <https://doi.org/10.1016/j.jag.2023.103592>
307. Tat, N., Tat, V., & Tat, C. (2023). The US Space Program's Path Forward for Low-Earth Orbit (LEO) after Decommissioning of the International Space Station (ISS). *Journal of Science Policy & Governance*, 23(1). <https://doi.org/10.38126/JSPG230110>
308. Thaler, E. A., Crumley, R. L., & Bennett, K. E. (2023). Estimating snow cover from high-resolution satellite imagery by thresholding blue wavelengths. *Remote Sensing of Environment*, 285, 113403. <https://doi.org/10.1016/j.rse.2022.113403>
309. Thompson, A., Bunds, K., Larson, L., Cutts, B., & Hipp, J. A. (2023). Paying for <sc>nature-based</sc> solutions: A review of funding and financing mechanisms for ecosystem services and their impacts on social equity. *Sustainable Development*. <https://doi.org/10.1002/sd.2510>
310. Thompson, J. O., Williams, D. B., & Ramsey, M. S. (2023). The Expectations and Prospects for Quantitative Volcanology in the Upcoming Surface Biology and Geology (SBG) Era. *Earth and Space Science*, 10(5). <https://doi.org/10.1029/2022EA002817>
311. Tian, J., Zhang, Z., Philpot, W. D., Tian, Q., Zhan, W., Xi, Y., Wang, X., & Zhu, C. (2023). Simultaneous estimation of fractional cover of photosynthetic and non-photosynthetic vegetation using visible-near infrared satellite imagery. *Remote Sensing of Environment*, 290, 113549. <https://doi.org/10.1016/j.rse.2023.113549>
312. Tunca, E., Köksal, E. S., & Çetin Taner, S. (2023). Calibrating UAV thermal sensors using machine learning methods for improved accuracy in agricultural applications. *Infrared Physics & Technology*, 133, 104804. <https://doi.org/10.1016/j.infrared.2023.104804>
313. Turpie, K. R., Casey, K. A., Crawford, C. J., Guild, L. S., Kieffer, H., Lin, G. G., Kokaly, R., Shrestha, A. K., Anderson, C., Ramaseri Chandra, S. N., Green, R., Hook, S., Lukashin, C., & Thome, K. (2023). Calibration and Validation for the Surface Biology and Geology (SBG) Mission Concept: Recommendations for a Multi-Sensor System for

Imaging Spectroscopy and Thermal Imagery. *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2023JG007452>

314. Ünsal, Ö., Lotfata, A., & Avci, S. (2023). Exploring the Relationships between Land Surface Temperature and Its Influencing Determinants Using Local Spatial Modeling. *Sustainability*, 15(15), 11594. <https://doi.org/10.3390/su151511594>
315. Valdés-Urbe, A., Hölscher, D., & Röhl, A. (2023). ECOSTRESS Reveals the Importance of Topography and Forest Structure for Evapotranspiration from a Tropical Forest Region of the Andes. *Remote Sensing*, 15(12), 2985. <https://doi.org/10.3390/rs15122985>
316. Valipour, M., Khoshkam, H., Bateni, S. M., Jun, C., & Band, S. S. (2023). Hybrid machine learning and deep learning models for multi-step-ahead daily reference evapotranspiration forecasting in different climate regions across the contiguous United States. *Agricultural Water Management*, 283, 108311. <https://doi.org/10.1016/j.agwat.2023.108311>
317. Volk, J. M., Huntington, J., Melton, F. S., Allen, R., Anderson, M. C., Fisher, J. B., Kilic, A., Senay, G., Halverson, G., Knipper, K., Minor, B., Pearson, C., Wang, T., Yang, Y., Evett, S., French, A. N., Jasoni, R., & Kustas, W. (2023). Development of a Benchmark Eddy Flux Evapotranspiration Dataset for Evaluation of Satellite-Driven Evapotranspiration Models Over the CONUS. *Agricultural and Forest Meteorology*, 331, 109307. <https://doi.org/10.1016/j.agrformet.2023.109307>
318. Volkov, N. v., Lagutin, A. A., Mordvin, E. Y., & Sinitsin, V. v. (2023). Net primary production for the south of Altai Krai according to ECOSTRESS radiometer data. In O. A. Romanovskii (Ed.), *29th International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics* (p. 206). SPIE. <https://doi.org/10.1117/12.2690789>
319. Wang, Qi, Wang, X., Meng, Y., Zhou, Y., & Wang, H. (2023). Exploring the impact of urban features on the spatial variation of land surface temperature within the diurnal cycle. *Sustainable Cities and Society*, 91, 104432. <https://doi.org/10.1016/j.scs.2023.104432>
320. Wang, Qiyao, Hu, Z., Zou, L., & Chen, F. (2023). Lunar Surface Temperature and Emissivity Retrieval from SDGSAT-1 Thermal Imager. *IEEE Geoscience and Remote Sensing Letters*, 1–1. <https://doi.org/10.1109/LGRS.2023.3278768>
321. Wang, R., & Wang, M. (2023). Multi-scale analysis of surface thermal environment in relation to urban form: A case study of the Guangdong-Hong Kong-Macao Greater Bay

Area. Sustainable Cities and Society, 99, 104953.
<https://doi.org/10.1016/j.scs.2023.104953>

322. Wang, T., Verfaillie, J., Szutu, D., & Baldocchi, D. (2023). Handily measuring sensible and latent heat exchanges at a bargain: A test of the variance-Bowen ratio approach. *Agricultural and Forest Meteorology*, 333, 109399.
<https://doi.org/10.1016/j.agrformet.2023.109399>
323. Wang, X., Huang, Y., & Lu, L. (2023). Long-Term Spatio-Temporal Pattern of Urban Heat Island Effect of Land Use/ Cover Changes: A Case Study of Hangzhou, China. *2023 11th International Conference on Agro-Geoinformatics (Agro-Geoinformatics)*, 1–5. <https://doi.org/10.1109/Agro-Geoinformatics59224.2023.10233126>
324. Wei, H., Chen, B., Wu, S., & Xu, B. (2023). Impact of early heat anomalies on urban tree cooling efficiency: Evidence from spring heatwave events in India. *International Journal of Applied Earth Observation and Geoinformation*, 120, 103334.
<https://doi.org/10.1016/j.jag.2023.103334>
325. Weidberg, N., López Chiquillo, L. K., Román, S., Román, M., Vázquez, E., Olabarria, C., Woodin, S. A., & Wethey, D. S. (2023). Assessing high resolution thermal monitoring of complex intertidal environments from space: The case of ECOSTRESS at Rias Baixas, NW Iberia. *Remote Sensing Applications: Society and Environment*, 32, 101055. <https://doi.org/10.1016/j.rsase.2023.101055>
326. Wen, J., Wu, X., Xiao, Q., Liu, Q., Ma, M., Zheng, X., Qu, Y., Jin, R., You, D., Tang, Y., Lin, X., Yu, W., Gong, B., Yang, J., & Han, Y. (2023). Full-band, multi-angle, multi-scale, and temporal dynamic field spectral measurements in China. *Scientific Data*, 10(1), 353.
<https://doi.org/10.1038/s41597-023-02265-1>
327. Weygint, W. A., Eitel, J. U. H., Maguire, A. J., Vierling, L. A., Johnson, D. M., Campbell, C. S., & Griffin, K. L. (2023). Leaf temperatures and environmental conditions predict daily stem radial variations in a temperate coniferous forest. *Ecosphere*, 14(3).
<https://doi.org/10.1002/ecs2.4465>
328. Wimberly, M. C. (2023). *Geospatial Environmental Data for Planetary Health Applications* (pp. 123–141). https://doi.org/10.1007/978-981-19-8765-6_7
329. Wright, R., Nunes, M., Lucey, P., Gunapala, S., Rafol, S., Ting, D., Ferrari-Wong, C., Flynn, L., & George, T. (2023). The HyTI mission. In T. Kimura, S. R. Babu, & A. Hélière (Eds.), *Sensors, Systems, and Next-Generation Satellites XXVII* (p. 4). SPIE.
<https://doi.org/10.1117/12.2679541>

330. Wu, H., Huang, B., Zheng, Z., Sun, R., Hu, D., & Zeng, Y. (2023a). Urban anthropogenic heat index derived from satellite data. *International Journal of Applied Earth Observation and Geoinformation*, 118, 103261. <https://doi.org/10.1016/j.jag.2023.103261>
331. Wu, H., Huang, B., Zheng, Z., Sun, R., Hu, D., & Zeng, Y. (2023b). Urban anthropogenic heat index derived from satellite data. *International Journal of Applied Earth Observation and Geoinformation*, 118, 103261. <https://doi.org/10.1016/j.jag.2023.103261>
332. Wu, J., Feng, Y., Zheng, C., & Zeng, Z. (2023). Dense flux observations reveal the incapability of evapotranspiration products to capture the heterogeneity of evapotranspiration. *Journal of Hydrology*, 622, 129743. <https://doi.org/10.1016/j.jhydrol.2023.129743>
333. Wyard, C., Marion, R., & Hallot, E. (2023). WaRM: A Roof Material Spectral Library for Wallonia, Belgium. *Data*, 8(3), 59. <https://doi.org/10.3390/data8030059>
334. Xie, Z., Yao, Y., Tang, Q., Zhang, Xueyi, Zhang, Xiaotong, Jiang, B., Xu, J., Yu, R., Liu, L., Ning, J., Fan, J., & Zhang, L. (2023). Global Terrestrial Evapotranspiration Estimation from Visible Infrared Imaging Radiometer Suite (VIIRS) Data. *Remote Sensing*, 16(1), 44. <https://doi.org/10.3390/rs16010044>
335. Yamamoto, Y., Ichii, K., Ryu, Y., Kang, M., Murayama, S., Kim, S.-J., & Cleverly, J. R. (2023). Detection of vegetation drying signals using diurnal variation of land surface temperature: Application to the 2018 East Asia heatwave. *Remote Sensing of Environment*, 291, 113572. <https://doi.org/10.1016/j.rse.2023.113572>
336. Yao, X., Zeng, X., Zhu, Z., Lan, Y., Shen, Y., Liu, Q., & Yang, F. (2023). Exploring the diurnal variations of the driving factors affecting block-based LST in a “Furnace city” using ECOSTRESS thermal imaging. *Sustainable Cities and Society*, 98, 104841. <https://doi.org/10.1016/j.scs.2023.104841>
337. Ye, X., Hui, J., Wang, P., Zhu, J., & Yang, B. (2023). A Modified Transfer-Learning-Based Approach for Retrieving Land Surface Temperature From Landsat-8 TIRS Data. *IEEE Transactions on Geoscience and Remote Sensing*, 61, 1–11. <https://doi.org/10.1109/TGRS.2023.3333689>
338. Yin, Y., He, L., Wennberg, P. O., & Frankenberg, C. (2023). Unequal exposure to heatwaves in Los Angeles: Impact of uneven green spaces. *Science Advances*, 9(17). <https://doi.org/10.1126/sciadv.ade8501>

339. Yousufi, A., Ahmadi, H., Bekbotayeva, A., Arshamov, Y., Baisalova, A., Omarova, G., & Pekkan, E. (2023). Integration of Remote Sensing and Field Data in Ophiolite Investigations: A Case Study of Logar Ophiolite Complex, SE Afghanistan. *Minerals*, 13(2), 234. <https://doi.org/10.3390/min13020234>
340. Yu, Y., Renzullo, L. J., McVicar, T. R., Malone, B. P., & Tian, S. (2023). Generating daily 100 m resolution land surface temperature estimates continentally using an unbiased spatiotemporal fusion approach. *Remote Sensing of Environment*, 297, 113784. <https://doi.org/10.1016/j.rse.2023.113784>
341. Zhang, Alton, Thirupathi Raj, A., & Thangavelautham, J. (2023, October 23). Generation of Functional Modular Space Station Configurations using Genetic Algorithms. *ASCEND 2023*. <https://doi.org/10.2514/6.2023-4722>
342. Zhang, Jingwen, Guan, K., Zhou, W., Jiang, C., Peng, B., Pan, M., Grant, R. F., Franz, T. E., Suyker, A., Yang, Y., Chen, X., Lin, K., & Ma, Z. (2023). Combining remotely sensed evapotranspiration and an agroecosystem model to estimate center-pivot irrigation water use at high spatio-temporal resolution. *Water Resources Research*. <https://doi.org/10.1029/2022WR032967>
343. Zhang, Jiyuan, Tu, L., & Shi, B. (2023). Spatiotemporal Patterns of the Application of Surface Urban Heat Island Intensity Calculation Methods. *Atmosphere*, 14(10), 1580. <https://doi.org/10.3390/atmos14101580>
344. Zhang, Lilin, Marshall, M., Vrieling, A., & Nelson, A. (2023). The divergence of energy- and water-balance evapotranspiration estimates in humid regions. *Journal of Hydrology*, 624, 129971. <https://doi.org/10.1016/j.jhydrol.2023.129971>
345. Zhang, N., & Mahmoud, W. (2023). Convex Geometry Based Endmember Extraction for Hyperspectral Images Classification. *2023 13th International Conference on Information Science and Technology (ICIST)*, 451–458. <https://doi.org/10.1109/ICIST59754.2023.10367140>
346. Zhang, Z., Cescatti, A., Wang, Y.-P., Gentile, P., Xiao, J., Guanter, L., Huete, A. R., Wu, J., Chen, J. M., Ju, W., Peñuelas, J., & Zhang, Y. (2023). Large diurnal compensatory effects mitigate the response of Amazonian forests to atmospheric warming and drying. *Science Advances*, 9(21). <https://doi.org/10.1126/sciadv.abq4974>
347. Zhao, K., Qi, M., Yan, X., Li, L., & Huang, X. (2023). Dynamic Impact of Urban Built Environment on Land Surface Temperature Considering Spatio-Temporal

Heterogeneity: A Perspective of Local Climate Zone. *Land*, 12(12), 2148.
<https://doi.org/10.3390/land12122148>

348. Zhen, Z., Benromdhane, N., Kallel, A., Wang, Y., Regaieg, O., Boitard, P., Landier, L., Chavanon, E., Lauret, N., Guilleux, J., Yin, T., León-Tavares, J., & Gastellu-Etchegorry, J.-P. (2023). DART: a 3D radiative transfer model for urban studies. *2023 Joint Urban Remote Sensing Event (JURSE)*, 1–4.
<https://doi.org/10.1109/JURSE57346.2023.10144212>
349. Zheng, D., Huang, X., Qi, M., Zhao, X., Zhang, Y., & Yang, M. (2023). Impact of built environment on urban surface temperature based on multi-source data at the community level in Beilin District, Xi'an, China. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-023-30119-1>
350. Zheng, X., Huang, Z., Wang, T., Guo, Y., Zeng, H., & Ye, X. (2023). Towards an operational scheme for deriving high-spatial-resolution temperature and emissivity based on FengYun-3D MERSI-II thermal infrared data. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2023.3324020>
351. Zheng, X., Wang, T., Nerry, F., Guo, Y., & Huang, Z. (2023). Thermal infrared radiative transfer modelling in urban areas by considering 3-D structures and sunlit-shadow temperature contrast. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2023.3269041>
352. Zheng, Z., Schmid, B., Zeng, Y., Schuman, M. C., Zhao, D., Schaepman, M. E., & Morsdorf, F. (2023). Remotely sensed functional diversity and its association with productivity in a subtropical forest. *Remote Sensing of Environment*, 290, 113530. <https://doi.org/10.1016/j.rse.2023.113530>
353. Zhu, J., & Ren, H. (2023). Feasibility of Retrieving Land Surface Temperature From ECOSTRESS Data Using Split-Window Algorithms. *IEEE Geoscience and Remote Sensing Letters*, 20, 1–5. <https://doi.org/10.1109/LGRS.2023.3328664>
354. Zhu, Y., Myint, S. W., Feng, X., & Li, Y. (2023). An Innovative Scheme to Confront the Trade-Off Between Water Conservation and Heat Alleviation With Environmental Justice for Urban Sustainability: The Case of Phoenix, Arizona. *AGU Advances*, 4(1). <https://doi.org/10.1029/2022AV000816>
355. Zou, H., Tian, M., Huang, A., Zhong, L., & Wu, S. (2023). A strong short-duration convection near Poyang Lake in daytime of warm season. *Science of The Total Environment*, 164659. <https://doi.org/10.1016/j.scitotenv.2023.164659>

356. Zraenko, S. (2023). Integration of spectral channels in the classification of coniferous and deciduous vegetation from satellite images. *2023 IX International Conference on Information Technology and Nanotechnology (ITNT)*, 1–4. <https://doi.org/10.1109/ITNT57377.2023.10139149>
357. Adams, K. H., Reager, J. T., Rosen, P., Wiese, D. N., Farr, T. G., Rao, S., Haines, B. J., Argus, D. F., Liu, Z., Smith, R., Famiglietti, J. S., & Rodell, M. (2022). Remote Sensing of Groundwater: Current Capabilities and Future Directions. *Water Resources Research*. <https://doi.org/10.1029/2022WR032219>
358. Alvi, U., Suomi, J., & Käyhkö, J. (2022). A cost-effective method for producing spatially continuous high-resolution air temperature information in urban environments. *Urban Climate*, 42, 101123. <https://doi.org/10.1016/j.uclim.2022.101123>
359. Amici, S., Spiller, D., Ansalone, L., & Miller, L. (2022). Wildfires Temperature Estimation by Complementary Use of Hyperspectral PRISMA and Thermal (ECOSTRESS & L8). *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2022JG007055>
360. 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>
361. Asner, G. P., Vaughn, N. R., Martin, R. E., Foo, S. A., Heckler, J., Neilson, B. J., & Gove, J. M. (2022). Mapped coral mortality and refugia in an archipelago-scale marine heat wave. *Proceedings of the National Academy of Sciences*, 119(19), e2123331119. <https://doi.org/10.1073/pnas.2123331119>
362. Awada, H., di Prima, S., Sirca, C., Giadrossich, F., Marras, S., Spano, D., & Pirastru, M. (2022). A remote sensing and modeling integrated approach for constructing continuous time series of daily actual evapotranspiration. *Agricultural Water Management*, 260, 107320. <https://doi.org/10.1016/j.agwat.2021.107320>
363. Babaeian, E., Paheding, S., Siddique, Devabhaktuni, & Tuller, M. (2022). Short- and Mid-Term Forecasts of Actual Evapotranspiration with Deep Learning. *Journal of Hydrology*, 128078. <https://doi.org/10.1016/j.jhydrol.2022.128078>
364. Badola, A., Panda, S. K., Roberts, D. A., Waigl, C. F., Jandt, R. R., & Bhatt, U. S. (2022). A novel method to simulate AVIRIS-NG hyperspectral image from Sentinel-2 image for improved vegetation/wildfire fuel mapping, boreal Alaska. *International*

Journal of Applied Earth Observation and Geoinformation, 112, 102891.
<https://doi.org/10.1016/j.jag.2022.102891>

365. Belov, M. L., Belov, A. M., Gorodnichev, V. A., Alkov, S. v, Ivanov, S. E., & Shkarupilo, A. A. (2022). Multispectral lidar method for monitoring the forest ecosystem under the forest canopy. *Journal of Physics: Conference Series*, 2388(1), 012145.
<https://doi.org/10.1088/1742-6596/2388/1/012145>
366. Berger, K., Machwitz, M., Kycko, M., Kefauver, S. C., van Wittenberghe, S., Gerhards, M., Verrelst, J., Atzberger, C., van der Tol, C., Damm, A., Rascher, U., Herrmann, I., Paz, V. S., Fahrner, S., Pieruschka, R., Prikaziuk, E., Buchailot, Ma. L., Halabuk, A., Celesti, M., ... Schlerf, M. (2022). Multi-sensor spectral synergies for crop stress detection and monitoring in the optical domain: A review. *Remote Sensing of Environment*, 280, 113198. <https://doi.org/10.1016/j.rse.2022.113198>
367. Bergquist, R., & Malone, J. B. (2022). There is more to satellite imagery than meets the eye. *Geospatial Health*, 17(1106). <https://doi.org/10.4081/gh.2022.1106>
368. 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>
369. Brede, B., Bartholomeus, H. M., Barbier, N., Pimont, F., Vincent, G., & Herold, M. (2022). Peering through the thicket: Effects of UAV LiDAR scanner settings and flight planning on canopy volume discovery. *International Journal of Applied Earth Observation and Geoinformation*, 114, 103056.
<https://doi.org/10.1016/j.jag.2022.103056>
370. 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>
371. 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>
372. Chen, S., Liu, L., Sui, L., & Liu, X. (2022). Improving GPP estimates by partitioning green APAR from total APAR in two deciduous forest sites. *Journal of Forestry Research*. <https://doi.org/10.1007/s11676-022-01546-6>

373. Chen, Y., Fang, G., Hao, H., & Wang, X. (2022). Water use efficiency data from 2000 to 2019 in measuring progress towards SDGs in Central Asia. *Big Earth Data*, 6(1), 90–102. <https://doi.org/10.1080/20964471.2020.1851891>
374. Cira, M., Bafna, A., Lee, C. M., Kong, Y., Holt, B., Ginger, L., Cawse-Nicholson, K., Rieves, L., & Jay, J. A. (2022). Turbidity and fecal indicator bacteria in recreational marine waters increase following the 2018 Woolsey Fire. *Scientific Reports*, 12(1), 2428. <https://doi.org/10.1038/s41598-022-05945-x>
375. Danniswari, D., Honjo, T., & Furuya, K. (2022). Analysis of Building Height Impact on Land Surface Temperature by Digital Building Height Model Obtained from AW3D30 and SRTM. *Geographies*, 2(4), 563–576. <https://doi.org/10.3390/geographies2040034>
376. de Lannoy, G. J. M., Bechtold, M., Albergel, C., Brocca, L., Calvet, J.-C., Carrassi, A., Crow, W. T., de Rosnay, P., Durand, M., Forman, B., Geppert, G., Giroto, M., Hendricks Franssen, H.-J., Jonas, T., Kumar, S., Lievens, H., Lu, Y., Massari, C., Pauwels, V. R. N., ... Steele-Dunne, S. (2022). Perspective on satellite-based land data assimilation to estimate water cycle components in an era of advanced data availability and model sophistication. *Frontiers in Water*, 4. <https://doi.org/10.3389/frwa.2022.981745>
377. de Santis, D., D'Amato, C., Bartkowiak, P., Azimi, S., Castelli, M., Rigon, R., & Massari, C. (2022). Evaluation of remotely-sensed evapotranspiration datasets at different spatial and temporal scales at forest and grassland sites in Italy. *2022 IEEE Workshop on Metrology for Agriculture and Forestry (MetroAgriFor)*, 356–361. <https://doi.org/10.1109/MetroAgriFor55389.2022.9964755>
378. Dejun, Z., Shiqi, Y., Liang, S., Xiaoran, L., Shihao, T., Hao, Z., Qinyu, Y., & Xinyu, Z. (2022). Retrieval of land surface temperature from FY3D MERSI-II based on re-fitting Split Window Algorithm. *European Journal of Remote Sensing*, 1–18. <https://doi.org/10.1080/22797254.2022.2133016>
379. di Franco, S., Salzano, R., Boldrini, E., & Salvatori, R. (2022). Increasing the interoperability of snow/ice hyperspectral observations. *Computers & Geosciences*, 105076. <https://doi.org/10.1016/j.cageo.2022.105076>
380. Engel, R. A., Millard-Ball, A., & Turner, V. K. (2022). Contributions of Roads to Surface Temperature: Evidence from Southern California. *Environmental Research Communications*. <https://doi.org/10.1088/2515-7620/acabb8>

381. Farella, M. M., Fisher, J. B., Jiao, W., Key, K. B., & Barnes, M. L. (2022). Thermal remote sensing for plant ecology from leaf to globe. *Journal of Ecology*. <https://doi.org/10.1111/1365-2745.13957>
382. 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>
383. Feng, W., & Liu, J. (2022). A Literature Survey of Local Climate Zone Classification: Status, Application, and Prospect. *Buildings*, 12(10), 1693. <https://doi.org/10.3390/buildings12101693>
384. Gao, L., Darvishzadeh, R., Somers, B., Johnson, B. A., Wang, Y., Verrelst, J., Wang, X., & Atzberger, C. (2022a). Hyperspectral response of agronomic variables to background optical variability: Results of a numerical experiment. *Agricultural and Forest Meteorology*, 326, 109178. <https://doi.org/10.1016/j.agrformet.2022.109178>
385. Gao, L., Darvishzadeh, R., Somers, B., Johnson, B. A., Wang, Y., Verrelst, J., Wang, X., & Atzberger, C. (2022b). Hyperspectral response of agronomic variables to background optical variability: Results of a numerical experiment. *Agricultural and Forest Meteorology*, 326, 109178. <https://doi.org/10.1016/j.agrformet.2022.109178>
386. Ghosh, M. S., Kumar, D. D., & Kumari, D. R. (2022). Assessing Spatiotemporal Dynamics of Land Surface Temperature and Satellite-Derived Indices for New town development and suburbanization planning. *Urban Governance*. <https://doi.org/10.1016/j.ugj.2022.05.001>
387. Gorokhovich, Y., Cawse-Nicholson, K., Papadopoulos, N., & Oikonomou, D. (2022). Use of ECOSTRESS data for measurements of the surface water temperature: Significance of data filtering in accuracy assessment. *Remote Sensing Applications: Society and Environment*, 26, 100739. <https://doi.org/10.1016/j.rsase.2022.100739>
388. Gota, F., An, S. X., Hu, H., Abdollahi Nejad, B., & Paetzold, U. W. (2022). Energy Yield Modeling of Bifacial All-Perovskite Two-Terminal Tandem Photovoltaics. *Advanced Optical Materials*, 2201691. <https://doi.org/10.1002/adom.202201691>
389. Grindrod, P. M., Stabbins, R. B., Motaghian, S., Allender, E. J., Cousins, C. R., Rice, M. S., & Stephan, K. (2022). Optimizing ExoMars Rover Remote Sensing Multispectral Science: Cross-Rover Comparison using Laboratory and Orbital Data. *Earth and Space Science*. <https://doi.org/10.1029/2022EA002243>

390. 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>
391. Hajnal, W., Priem, F., & Canters, F. (2022). M-CORE: a novel approach for land cover fraction mapping using multi-site spectral libraries. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2022.3163205>
392. Hamberg, L. J., Fisher, J. B., Ruppert, J. L. W., Tureček, J., Rosen, D. H., & James, P. M. A. (2022). Assessing and modeling diurnal temperature buffering and evapotranspiration dynamics in forest restoration using ECOSTRESS thermal imaging. *Remote Sensing of Environment*, *280*, 113178. <https://doi.org/10.1016/j.rse.2022.113178>
393. Hidalgo García, D., & Arco Díaz, J. (2022). Impacts of the COVID-19 confinement on air quality, the Land Surface Temperature and the urban heat island in eight cities of Andalusia (Spain). *Remote Sensing Applications: Society and Environment*, *25*, 100667. <https://doi.org/10.1016/j.rsase.2021.100667>
394. Hu, T., Mallick, K., Hulley, G. C., Planells, L. P., Göttsche, F. M., Schlerf, M., Hitzelberger, P., Didry, Y., Szantoi, Z., Alonso, I., Sobrino, J. A., Skoković, D., Roujean, J.-L., Boulet, G., Gamet, P., & Hook, S. (2022). Continental-scale evaluation of three ECOSTRESS land surface temperature products over Europe and Africa: Temperature-based validation and cross-satellite comparison. *Remote Sensing of Environment*, *282*, 113296. <https://doi.org/10.1016/j.rse.2022.113296>
395. Jaafar, H. H., Mourad, R. M., Kustas, W. P., & Anderson, M. C. (2022). A Global Implementation of Single- and Dual-Source Surface Energy Balance Models for Estimating Actual Evapotranspiration at 30-m Resolution using Google Earth Engine. *Water Resources Research*. <https://doi.org/10.1029/2022WR032800>
396. 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>
397. Jagdhuber, T., Jonard, F., Fluhrer, 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>

398. Jansen, W., Huebel, N., & Steckel, J. (2022). *Physical LiDAR Simulation in Real-Time Engine*. <http://arxiv.org/abs/2208.10295>
399. 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>
700. 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>
701. 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>
702. Katkani, D., Babbar, A., Mishra, V. K., Trivedi, A., Tiwari, S., & Kumawat, R. K. (2022). A Review on Applications and Utility of Remote Sensing and Geographic Information Systems in Agriculture and Natural Resource Management. *International Journal of Environment and Climate Change*, 1–18. <https://doi.org/10.9734/ijecc/2022/v12i430651>
703. Kelly Turner, V., Rogers, M. L., Zhang, Y., Middel, A., Schneider, F. A., Ocón, J. P., Seeley, M., & Dialesandro, J. (2022). More than surface temperature: mitigating thermal exposure in hyper-local land system. *Journal of Land Use Science*, 17(1), 79–99. <https://doi.org/10.1080/1747423X.2021.2015003>
704. Kong, J., Ryu, Y., Liu, J., Dechant, B., Rey-Sanchez, C., Shortt, R., Szutu, D., Verfaillie, J., Houborg, R., & Baldocchi, D. D. (2022). Matching high resolution satellite data and flux tower footprints improves their agreement in photosynthesis estimates. *Agricultural and Forest Meteorology*, 316, 108878. <https://doi.org/10.1016/j.agrformet.2022.108878>
705. Li, H., Wang, Y., Gao, H., Zhang, M., Lin, R., Wu, P., Xiao, K., & Tan, H. (2022). Revealing the output power potential of bifacial monolithic all-perovskite tandem solar cells. *eLight*, 2(1), 21. <https://doi.org/10.1186/s43593-022-00028-w>
706. Li, Z., Wu, H., Duan, S., Zhao, W., Ren, H., Liu, X., Leng, P., Tang, R., Ye, X., Zhu, J., Sun, Y., Si, M., Liu, M., Li, J., Zhang, X., Shang, G., Tang, B., Yan, G., & Zhou, C. (2022). Satellite Remote Sensing of Global Land Surface Temperature: Definition,

Methods, Products, and Applications. *Reviews of Geophysics*.
<https://doi.org/10.1029/2022RG000777>

707. Liu, Z., Liu, T., Huang, Y., Duan, Y., Pan, X., & Wang, W. (2022). Comparison of Crop Evapotranspiration and Water Productivity of Typical Delta Irrigation Areas in Aral Sea Basin. *Remote Sensing*, 14(2), 249. <https://doi.org/10.3390/rs14020249>
708. Maddala, V. K. S., Jayarajan, K., Braveen, M., Walia, R., Krishna, P., Ponnusamy, S., & Kaliyaperumal, K. (2022). Multisensor Data and Cross-Validation Technique for Merging Temporal Images for the Agricultural Performance Monitoring System. *Journal of Food Quality*, 2022, 1–10. <https://doi.org/10.1155/2022/9575423>
709. Maina, F. Z., Siirila-Woodburn, E. R., & Denny-Frank, P.-J. (2022). Assessing the impacts of hydrodynamic parameter uncertainties on simulated evapotranspiration in a mountainous watershed. *Journal of Hydrology*, 608, 127620. <https://doi.org/10.1016/j.jhydrol.2022.127620>
710. Mashkoo, R., Ahmadi, H., Rahmani, A. B., & Pekkan, E. (2022). Detecting Li-Bearing Pegmatites Using Geospatial Technology: The Case of SW Konar Province, Eastern Afghanistan. *Geocarto International*, 1–19. <https://doi.org/10.1080/10106049.2022.2086633>
711. Miller, D. L., Alonzo, M., Meerdink, S. K., Allen, M. A., Tague, C. L., Roberts, D. A., & McFadden, J. P. (2022). Seasonal and interannual drought responses of vegetation in a California urbanized area measured using complementary remote sensing indices. *ISPRS Journal of Photogrammetry and Remote Sensing*, 183, 178–195. <https://doi.org/10.1016/j.isprsjprs.2021.11.002>
712. Mu, T., Liu, G., Yang, X., & Yu, Y. (2022). Soil-Moisture Estimation Based on Multiple-Source Remote-Sensing Images. *Remote Sensing*, 15(1), 139. <https://doi.org/10.3390/rs15010139>
713. Nagler, P. L., Barreto-Muñoz, A., Sall, I., Lurtz, M. R., & Didan, K. (2022). Riparian Plant Evapotranspiration and Consumptive Use for Selected Areas of the Little Colorado River Watershed on the Navajo Nation. *Remote Sensing*, 15(1), 52. <https://doi.org/10.3390/rs15010052>
714. Palmer, P. I., Woodwark, A. J. P., Finch, D. P., Taylor, T. E., Butz, A., Tamminen, J., Bösch, H., Eldering, A., & Vincent-Bonnieu, S. (2022). Role of space station instruments for improving tropical carbon flux estimates using atmospheric data. *Npj Microgravity*, 8(1), 51. <https://doi.org/10.1038/s41526-022-00231-6>

715. Panda, S. S., Amatya, D. M., Grace, J. M., Caldwell, P., & Marion, D. A. (2022). Extreme precipitation-based vulnerability assessment of road-crossing drainage structures in forested watersheds using an integrated environmental modeling approach. *Environmental Modelling & Software*, 105413. <https://doi.org/10.1016/j.envsoft.2022.105413>
716. 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>
717. Peddinti, S. R., & Kisekka, I. (2022). Effect of aggregation and disaggregation of land surface temperature imagery on evapotranspiration estimation. *Remote Sensing Applications: Society and Environment*, 27, 100805. <https://doi.org/10.1016/j.rsase.2022.100805>
718. Perez-Planells, L., Niclos, R., Valor, E., & Gottsche, F. M. (2022). Retrieval of land surface emissivities over partially vegetated surfaces from satellite data using radiative transfer models. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2022.3224639>
719. Ponstingel, D. (2022). The governance of community gardens as commons and its role in the socio-ecological outcomes of gardening in Austin, Texas, USA. *Socio-Ecological Practice Research*. <https://doi.org/10.1007/s42532-022-00133-7>
720. Ramsey, M. S., Harris, A. J. L., & Watson, I. M. (2022). Volcanology 2030: will an orbital volcano observatory finally become a reality? *Bulletin of Volcanology*, 84(1), 6. <https://doi.org/10.1007/s00445-021-01501-z>
721. Rey-Sanchez, C., Arias-Ortiz, A., Kasak, K., Chu, H., Szutu, D., Verfaille, J., & Baldocchi, D. (2022). Detecting Hot Spots of Methane Flux using Footprint-Weighted Flux Maps. *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2022JG006977>
722. Román, S., Vázquez, E., Román, M., Viejo, R. M., Woodin, S. A., Wetthey, D. S., Troncoso, J. S., & Olabarria, C. (2022). Effects of warming on biological interactions between clams and the seagrass *Zostera noltei*: A case study using open top chambers. *Estuarine, Coastal and Shelf Science*, 276, 108027. <https://doi.org/10.1016/j.ecss.2022.108027>
723. Sadri, S., Famiglietti, J. S., Pan, M., Beck, H. E., Berg, A., & Wood, E. F. (2022). FarmCan: a physical, statistical, and machine learning model to forecast crop water

deficit for farms. *Hydrology and Earth System Sciences*, 26(20), 5373–5390.
<https://doi.org/10.5194/hess-26-5373-2022>

724. Setiawati, M. D., Jarzebski, M. P., & Fukushi, K. (2022). Extreme heat vulnerability assessment in Indonesia at the provincial level. *IOP Conference Series: Earth and Environmental Science*, 1095(1), 012021. <https://doi.org/10.1088/1755-1315/1095/1/012021>
725. Sharma, P., Bhardwaj, D. R., Singh, M. K., Nigam, R., Pala, N. A., Kumar, A., Verma, K., Kumar, D., & Thakur, P. (2022). Geospatial technology in agroforestry: status, prospects, and constraints. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-022-20305-y>
726. Shi, J., & Hu, C. (2022). South Florida estuaries are warming faster than global oceans. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/aca8ba>
727. Shi, M., Worden, J. R., Bailey, A., Noone, D., Risi, C., Fu, R., Worden, S., Herman, R., Payne, V., Pagano, T., Bowman, K., Bloom, A. A., Saatchi, S., Liu, J., & Fisher, J. B. (2022). Amazonian terrestrial water balance inferred from satellite-observed water vapor isotopes. *Nature Communications*, 13(1), 2686. <https://doi.org/10.1038/s41467-022-30317-4>
728. Sneha, & Kaul, A. (2022). Hyperspectral imaging and target detection algorithms: a review. *Multimedia Tools and Applications*. <https://doi.org/10.1007/s11042-022-13235-x>
729. Stobbelaar, P., Neinavaz, E., & Nyktas, P. (2022a). Prediction of leaf area index using thermal infrared data acquired by UAS over a mixed temperate forest. *International Journal of Applied Earth Observation and Geoinformation*, 114, 103049. <https://doi.org/10.1016/j.jag.2022.103049>
730. Stobbelaar, P., Neinavaz, E., & Nyktas, P. (2022b). Prediction of leaf area index using thermal infrared data acquired by UAS over a mixed temperate forest. *International Journal of Applied Earth Observation and Geoinformation*, 114, 103049. <https://doi.org/10.1016/j.jag.2022.103049>
731. 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>
732. Torres-Rojas, L., Vergopolan, N., Herman, J. D., & Chaney, N. W. (2022). Towards an Optimal Representation of Sub-Grid Heterogeneity in Land Surface Models. *Water Resources Research*. <https://doi.org/10.1029/2022WR032233>

733. Torresani, M., Masiello, G., Vendrame, N., Gerosa, G., Falocchi, M., Tomelleri, E., Serio, C., Rocchini, D., & Zardi, D. (2022). Correlation Analysis of Evapotranspiration, Emissivity Contrast and Water Deficit Indices: A Case Study in Four Eddy Covariance Sites in Italy with Different Environmental Habitats. *Land*, 11(11), 1903. <https://doi.org/10.3390/land11111903>
734. Vidal, T. H. G., Gamet, P., Olioso, A., & Jacob, F. (2022). Optimizing TRISHNA TIR channels configuration for improved land surface temperature and emissivity measurements. *Remote Sensing of Environment*, 272, 112939. <https://doi.org/10.1016/j.rse.2022.112939>
735. Vrieling, A., Fava, F., Leitner, S., Merbold, L., Cheng, Y., Nakalema, T., Groen, T., & Butterbach-Bahl, K. (2022). Identification of temporary livestock enclosures in Kenya from multi-temporal PlanetScope imagery. *Remote Sensing of Environment*, 279, 113110. <https://doi.org/10.1016/j.rse.2022.113110>
736. Vuppalapati, C. (2022). *Food Security and Advanced Imaging Radiometer ML Models* (pp. 521–614). https://doi.org/10.1007/978-3-031-08743-1_7
737. Wen, J., Fisher, J. B., Parazoo, N. C., Hu, L., Litvak, M. E., & Sun, Y. (2022). Resolve the clear-sky continuous diurnal cycle of high-resolution ECOSTRESS Evapotranspiration and Land Surface Temperature. *Water Resources Research*. <https://doi.org/10.1029/2022WR032227>
738. Wethey, D. S., & Woodin, S. A. (2022). Climate change and *Arenicola marina*: Heat waves and the southern limit of an ecosystem engineer. *Estuarine, Coastal and Shelf Science*, 276, 108015. <https://doi.org/10.1016/j.ecss.2022.108015>
739. Whelan, M. E., Shi, M., Sun, W., Vries, L. K., Seibt, U., & Maseyk, K. (2022). Soil carbonyl sulfide (OCS) fluxes in terrestrial ecosystems: An empirical model. *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2022JG006858>
740. 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>
741. Xie, Z., Yao, Y., Zhang, X., Liang, S., Fisher, J. B., Chen, J., Jia, K., Shang, K., Yang, J., Yu, R., Guo, X., Liu, L., Ning, J., & Zhang, L. (2022). The Global LAnd Surface Satellite (GLASS) evapotranspiration product Version 5.0: Algorithm development and preliminary validation. *Journal of Hydrology*, 610, 127990. <https://doi.org/10.1016/j.jhydrol.2022.127990>

742. Yamamoto, Y., Ichii, K., Ryu, Y., Kang, M., & Murayama, S. (2022). Uncertainty quantification in land surface temperature retrieved from Himawari-8/AHI data by operational algorithms. *ISPRS Journal of Photogrammetry and Remote Sensing*, 191, 171–187. <https://doi.org/10.1016/j.isprsjprs.2022.07.008>
743. Yang, Yong, Sun, H., Zhu, M., Wang, J., & Zhang, W. (2022). An R package of maximum entropy production model to estimate 41 years of global evapotranspiration. *Journal of Hydrology*, 614, 128639. <https://doi.org/10.1016/j.jhydrol.2022.128639>
744. Yang, Yun, Anderson, M., Gao, F., Xue, J., Knipper, K., & Hain, C. (2022). Improved Daily Evapotranspiration Estimation Using Remotely Sensed Data in a Data Fusion System. *Remote Sensing*, 14(8), 1772. <https://doi.org/10.3390/rs14081772>
745. Yao, X., Zhu, Z., Zhou, X., Shen, Y., Shen, X., & Xu, Z. (2022). Investigating the effects of urban morphological factors on seasonal land surface temperature in a “Furnace city” from a block perspective. *Sustainable Cities and Society*, 104165. <https://doi.org/10.1016/j.scs.2022.104165>
746. Yoo, C., Im, J., Cho, D., Lee, Y., Bae, D., & Sismanidis, P. (2022). Downscaling MODIS nighttime land surface temperatures in urban areas using ASTER thermal data through local linear forest. *International Journal of Applied Earth Observation and Geoinformation*, 110, 102827. <https://doi.org/10.1016/j.jag.2022.102827>
747. Yuan, B., Zhou, L., Hu, F., & Zhang, Q. (2022). Diurnal dynamics of heat exposure in Xi'an: A perspective from local climate zone. *Building and Environment*, 109400. <https://doi.org/10.1016/j.buildenv.2022.109400>
748. Zhang, H., & Tang, B.-H. (2022). Retrieval of daytime surface upward longwave radiation under all-sky conditions with remote sensing and meteorological reanalysis data. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2022.3194085>
749. Zhao, C., Wu, Z., Qin, Q., & Ye, X. (2022). A Framework of Generating Land Surface Reflectance of China Early Landsat MSS Images by Visibility Data and Its Evaluation. *Remote Sensing*, 14(8), 1802. <https://doi.org/10.3390/rs14081802>
750. Zheng, X., Hui, F., Huang, Z., Wang, T., Huang, H., & Wang, Q. (2022). Ice/snow surface temperature retrieval from Chinese FY-3D MERSI-II data: Algorithm and preliminary validation. *IEEE Transactions on Geoscience and Remote Sensing*, 1–1. <https://doi.org/10.1109/TGRS.2022.3212095>

751. Zheng, X., Li, Z.-L., Wang, T., Huang, H., & Nerry, F. (2022). Determination of global land surface temperature using data from only five selected thermal infrared channels: Method extension and accuracy assessment. *Remote Sensing of Environment*, 268, 112774. <https://doi.org/10.1016/j.rse.2021.112774>
752. Zhou, S., Kaufmann, H., Bohn, N., Bochow, M., Kuester, T., & Segl, K. (2022). Identifying distinct plastics in hyperspectral experimental lab-, aircraft-, and satellite data using machine/deep learning methods trained with synthetically mixed spectral data. *Remote Sensing of Environment*, 281, 113263. <https://doi.org/10.1016/j.rse.2022.113263>
753. Zhou, T., Wen, X., Feng, Q., Yu, H., & Xi, H. (2022). Bayesian Model Averaging Ensemble Approach for Multi-Time-Ahead Groundwater Level Prediction Combining the GRACE, GLEAM, and GLDAS Data in Arid Areas. *Remote Sensing*, 15(1), 188. <https://doi.org/10.3390/rs15010188>
754. Zhu, W., Tian, S., Wei, J., Jia, S., & Song, Z. (2022). Multi-scale evaluation of global evapotranspiration products derived from remote sensing images: Accuracy and uncertainty. *Journal of Hydrology*, 611, 127982. <https://doi.org/10.1016/j.jhydrol.2022.127982>
755. 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>
756. 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>
757. 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>
758. Baldocchi, D., Ma, S., & Verfaillie, J. (2021). On the inter-and intra-annual variability of ecosystem evapotranspiration and water use efficiency of an oak savanna and annual grassland subjected to booms and busts in rainfall. *Global Change Biology*, 27(2), 359–375. <https://doi.org/10.1111/gcb.15414>

759. Bergquist, R., Luvall, J. C., & Malone, J. B. (2021). The changing risk of vector-borne diseases: Global satellite remote sensing and geospatial surveillance at the forefront. *Geospatial Health*, 16(2). <https://doi.org/10.4081/gh.2021.1047>
760. Borchardt, J., Gerilowski, K., Krautwurst, S., Bovensmann, H., Thorpe, A. K., Thompson, D. R., Frankenberg, C., Miller, C. E., Duren, R. M., & Burrows, J. P. (2021). Detection and quantification of CH₄ plumes using the WFM-DOAS retrieval on AVIRIS-NG hyperspectral data. *Atmospheric Measurement Techniques*, 14(2), 1267–1291.
761. 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>
762. Bradtke, K. (2021). Landsat 8 Data as a Source of High Resolution Sea Surface Temperature Maps in the Baltic Sea. In *Remote Sensing* (Vol. 13, Issue 22). <https://doi.org/10.3390/rs13224619>
763. Cawse-Nicholson, K., Anderson, M. C., Yang, Y., Yang, Y., Yun, H., Hook, S. J., Fisher, J. B., Halverson, G., Hulley, G. C., Hain, C., Baldocchi, D. D., Brunzell, 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>
764. Cawse-Nicholson, K., Townsend, P. A., Schimel, D., Assiri, A. M., Blake, P. L., Buongiorno, M. F., Campbell, P., Carmon, N., Casey, K. A., Correa-Pabón, R. E., Dahlin, K. M., Dashti, H., Dennison, P. E., Dierssen, H., Erickson, A., Fisher, J. B., Frouin, R., Gatebe, C. K., Gholizadeh, H., ... Zhang, Q. (2021). NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. *Remote Sensing of Environment*, 257. <https://doi.org/10.1016/j.rse.2021.112349>
765. 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>
766. 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>

767. Charifi, R., Es-sbai, N., Zennayi, Y., Hosni, T., Bourzeix, F., & Mansouri, A. (2021). Sedimentary phosphate classification based on spectral analysis and machine learning. *Computers & Geosciences*, *150*, 104696. <https://doi.org/10.1016/j.cageo.2021.104696>
768. Chen, F., van de Voorde, T., Roberts, D., Zhao, H., & Chen, J. (2021). Detection of Ground Materials Using Normalized Difference Indices with a Threshold: Risk and Ways to Improve. *Remote Sensing*, *13*(3), 450. <https://doi.org/10.3390/rs13030450>
769. 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>
770. Cheng, J., Meng, X., Dong, S., & Liang, S. (2021). Generating the 30-m land surface temperature product over continental China and USA from landsat 5/7/8 data. *Science of Remote Sensing*, *4*, 100032. <https://doi.org/10.1016/j.srs.2021.100032>
771. 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>
772. Chu, H., Luo, X., Ouyang, Z., Chan, W. S., Dengel, S., Biraud, S. C., Torn, M. S., Metzger, S., Kumar, J., Arain, M. A., Arkebauer, T. J., Baldocchi, D., Bernacchi, C., Billesbach, D., Black, T. A., Blanken, P. D., Bohrer, G., Bracho, R., Brown, S., ... Zona, D. (2021). Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. *Agricultural and Forest Meteorology*, *301–302*, 108350. <https://doi.org/10.1016/j.agrformet.2021.108350>
773. Danilevicz, M. F., Bayer, P. E., Nestor, B. J., Bennamoun, M., & Edwards, D. (2021). Resources for image-based high-throughput phenotyping in crops and data sharing challenges. *Plant Physiology*, 1–17. <https://doi.org/10.1093/plphys/kiab301>
774. Delogu, E., Olioso, A., Allières, A., Demarty, J., & Boulet, G. (2021). Evaluation of Multiple Methods for the Production of Continuous Evapotranspiration Estimates from TIR Remote Sensing. *Remote Sensing*, *13*(6), 1086. <https://doi.org/10.3390/rs13061086>
775. 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>

776. Durand, M., Barros, A., Dozier, J., Adler, R., Cooley, S., Entekhabi, D., Forman, B. A., Konings, A. G., Kustas, W. P., Lundquist, J. D., Pavelsky, T. M., Rodell, M., & Steele-Dunne, S. (2021). Achieving Breakthroughs in Global Hydrologic Science by Unlocking the Power of Multisensor, Multidisciplinary Earth Observations. *AGU Advances*, 2(4). <https://doi.org/10.1029/2021AV000455>
777. Fahlen, J. E., Brodrick, P. G., Thompson, D. R., Herman, R. L., Hulley, G., Cawse-Nicholson, K., Green, R. O., Green, J. J., Hook, S. J., & Miller, C. E. (2021). Joint VSWIR-TIR retrievals of earth's surface and atmosphere. *Remote Sensing of Environment*, 267, 112727. <https://doi.org/10.1016/j.rse.2021.112727>
778. Fassoni-Andrade, A. C., Fleischmann, A. S., Papa, F., Paiva, R. C. D. de, Wongchuig, S., Melack, J. M., Moreira, A. A., Paris, A., Ruhoff, A., Barbosa, C., Maciel, D. A., Novo, E., Durand, F., Frappart, F., Aires, F., Abrahão, G. M., Ferreira-Ferreira, J., Espinoza, J. C., Laipelt, L., ... Pellet, V. (2021). Amazon Hydrology From Space: Scientific Advances and Future Challenges. *Reviews of Geophysics*, 59(4). <https://doi.org/10.1029/2020RG000728>
779. Fonseca, G. S., dos Santos, A. C. G., de Sá, L. B., & Gomes, J. G. R. C. (2021). Linear models for SWIR surface spectra from the ECOSTRESS library. In D. W. Messinger & M. Velez-Reyes (Eds.), *Algorithms, Technologies, and Applications for Multispectral and Hyperspectral Imaging XXVII* (p. 46). SPIE. <https://doi.org/10.1117/12.2587752>
780. González, J. E., Ramamurthy, P., Bornstein, R. D., Chen, F., Bou-Zeid, E. R., Ghandehari, M., Luvall, J., Mitra, C., & Niyogi, D. (2021). Urban climate and resiliency: A synthesis report of state of the art and future research directions. *Urban Climate*, 38, 100858. <https://doi.org/10.1016/j.uclim.2021.100858>
781. Gordon, K., Karalidi, T., Miles-Páez, P., Stam, D., Bott, K., & Mulder, W. (2021). Earth-as-an-Exoplanet: Comparing Earthshine Observations to Models of an Exo-Earth. *Bulletin of the American Astronomical Society*, 53(3), 605.
782. 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>
783. Jiao, W., Wang, L., & McCabe, M. F. (2021). Multi-sensor remote sensing for drought characterization: current status, opportunities and a roadmap for the future. *Remote*

Sensing of Environment, 256, 112313.
<https://doi.org/https://doi.org/10.1016/j.rse.2021.112313>

784. Johnston, M. R., Andreu, A., Verfaillie, J., Baldocchi, D., González-Dugo, M. P., & Moorcroft, P. R. (2021). Measuring surface temperatures in a woodland savanna: Opportunities and challenges of thermal imaging in an open-canopy ecosystem. *Agricultural and Forest Meteorology*, 310, 108484. <https://doi.org/10.1016/j.agrformet.2021.108484>
785. 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>
786. Kim, Sungho, Shin, J., & Kim, Sunho. (2021). AT2ES: Simultaneous Atmospheric Transmittance-Temperature-Emissivity Separation Using Online Upper Midwave Infrared Hyperspectral Images. *Remote Sensing*, 13(7), 1249. <https://doi.org/10.3390/rs13071249>
787. Koerting, F., Koellner, N., Kuras, A., Boesche, N. K., Rogass, C., Mielke, C., Elger, K., & Altenberger, U. (2021). A solar optical hyperspectral library of rare-earth-bearing minerals, rare-earth oxide powders, copper-bearing minerals and Apliki mine surface samples. *Earth System Science Data*, 13(3), 923–942. <https://doi.org/10.5194/essd-13-923-2021>
788. LaDochy, S., Torres, T., & Hsu, Y. (2021). LOS ANGELES' URBAN HEAT ISLAND CONTINUES TO GROW: URBANIZATION, LAND USE CHANGE INFLUENCES. *Journal of Urban and Environmental Engineering*, 15(2), 103–116. <https://doi.org/10.4090/juee.2021.v15n2.103116>
789. 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>
790. 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>
791. 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>

792. 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>
793. Lu, Y., & Wei, C. (2021). Evaluation of microwave soil moisture data for monitoring live fuel moisture content (LFMC) over the coterminous United States. *Science of The Total Environment*, 771, 145410. <https://doi.org/10.1016/j.scitotenv.2021.145410>
794. Ma, H., Liang, S., Shi, H., & Zhang, Y. (2021). An Optimization Approach for Estimating Multiple Land Surface and Atmospheric Variables From the Geostationary Advanced Himawari Imager Top-of-Atmosphere Observations. *IEEE Transactions on Geoscience and Remote Sensing*, 59(4), 2888–2908. <https://doi.org/10.1109/TGRS.2020.3007118>
795. 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>
796. Martínez-Espinosa, C., Sauvage, S., al Bitar, A., Green, P. A., Vörösmarty, C. J., & Sánchez-Pérez, J. M. (2021). Denitrification in wetlands: A review towards a quantification at global scale. *Science of The Total Environment*, 754, 142398. <https://doi.org/10.1016/j.scitotenv.2020.142398>
797. 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>
798. Migliavacca, M., Musavi, T., Mahecha, M. D., Nelson, J. A., Knauer, J., Baldocchi, D. D., Perez-Priego, O., Christiansen, R., Peters, J., Anderson, K., Bahn, M., Black, T. A., Blanken, P. D., Bonal, D., Buchmann, N., Caldararu, S., Carrara, A., Carvalhais, N., Cescatti, A., ... Reichstein, M. (2021). The three major axes of terrestrial ecosystem function. *Nature*. <https://doi.org/10.1038/s41586-021-03939-9>
799. Neinavaz, E., Schlerf, M., Darvishzadeh, R., Gerhards, M., & Skidmore, A. K. (2021). Thermal infrared remote sensing of vegetation: Current status and perspectives. *International Journal of Applied Earth Observation and Geoinformation*, 102(June), 102415. <https://doi.org/10.1016/j.jag.2021.102415>
300. Niclòs, R., Puchades, J., Coll, C., Barberà, M. J., Pérez-Planells, L., Valiente, J. A., & Sánchez, J. M. (2021). Evaluation of Landsat-8 TIRS data recalibrations and land

surface temperature split-window algorithms over a homogeneous crop area with different phenological land covers. *ISPRS Journal of Photogrammetry and Remote Sensing*, 174, 237–253. <https://doi.org/10.1016/j.isprsjprs.2021.02.005>

301. 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>
302. 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>
303. 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>
304. 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>
305. Richter, R., Hutengs, C., Wirth, C., Bannehr, L., & Vohland, M. (2021). Detecting Tree Species Effects on Forest Canopy Temperatures with Thermal Remote Sensing: The Role of Spatial Resolution. *Remote Sensing*, 13(1), 135. <https://doi.org/10.3390/rs13010135>
306. 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>
307. Scafutto, R. D. M., Lievens, C., Hecker, C., van der Meer, F. D., & Souza Filho, C. R. de. (2021). Detection of petroleum hydrocarbons in continental areas using airborne hyperspectral thermal infrared data (SEBASS). *Remote Sensing of Environment*, 256, 112323. <https://doi.org/10.1016/j.rse.2021.112323>
308. Scafutto, R. D. P. M., Lievens, C., Hecker, C., van der Meer, F. D., & Souza Filho, C. R. de. (2021). Detection of petroleum hydrocarbons in continental areas using airborne

hyperspectral thermal infrared data (SEBASS). *Remote Sensing of Environment*, 256, 112323. <https://doi.org/10.1016/j.rse.2021.112323>

309. Shi, H., Xian, G., Auch, R., Gallo, K., & Zhou, Q. (2021). Urban Heat Island and Its Regional Impacts Using Remotely Sensed Thermal Data—A Review of Recent Developments and Methodology. *Land*, 10(8), 867. <https://doi.org/10.3390/land10080867>
310. Shi, J., & Hu, C. (2021). Evaluation of ECOSTRESS Thermal Data over South Florida Estuaries. *Sensors*, 21(13), 4341. <https://doi.org/10.3390/s21134341>
311. Siebels, K., Goïta, K., & Germain, M. (2021). A semi-empirical approach to quantify and handle the effect of moisture on spectral unmixing. *International Journal of Applied Earth Observation and Geoinformation*, 96, 102259. <https://doi.org/10.1016/j.jag.2020.102259>
312. 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>
313. 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>
314. 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>
315. 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>
316. Wu, D., Lin, J. C., Duarte, H. F., Yadav, V., Parazoo, N. C., Oda, T., & Kort, E. A. (2021). A model for urban biogenic CO₂ fluxes: Solar-Induced Fluorescence for Modeling Urban biogenic Fluxes (SMUrF v1). *Geoscientific Model Development*, 14(6), 3633–3661. <https://doi.org/10.5194/gmd-14-3633-2021>
317. Yang, Yang, Anderson, M. C., Gao, F., Johnson, D. M., Yang, Yun, Sun, L., Dulaney, W., Hain, C. R., Otkin, J. A., Prueger, J., Meyers, T. P., Bernacchi, C. J., & Moore, C. E. (2021). Phenological corrections to a field-scale, ET-based crop stress indicator: An

application to yield forecasting across the U.S. Corn Belt. *Remote Sensing of Environment*, 257, 112337. <https://doi.org/10.1016/j.rse.2021.112337>

318. Yao, Y., Di, Z., Xie, Z., Xiao, Z., Jia, K., Zhang, X., Shang, K., Yang, J., Bei, X., Guo, X., & Yu, R. (2021). Simplified Priestley–Taylor Model to Estimate Land-Surface Latent Heat of Evapotranspiration from Incident Shortwave Radiation, Satellite Vegetation Index, and Air Relative Humidity. *Remote Sensing*, 13(5), 902. <https://doi.org/10.3390/rs13050902>
319. Yao, Y., Liang, S., Fisher, J. B., Zhang, Y., Cheng, J., Chen, J., Jia, K., Zhang, X., Bei, X., Shang, K., Guo, X., & Yang, J. (2021). A Novel NIR–Red Spectral Domain Evapotranspiration Model From the Chinese GF-1 Satellite: Application to the Huailai Agricultural Region of China. *IEEE Transactions on Geoscience and Remote Sensing*, 59(5), 4105–4119. <https://doi.org/10.1109/TGRS.2020.3020125>
320. Zhang, J., Guan, K., Peng, B., Jiang, C., Zhou, W., Yang, Y., Pan, M., Franz, T. E., Heeren, D. M., Rudnick, D. R., Abimbola, O., Kimm, H., Caylor, K., Good, S., Khanna, M., Gates, J., & Cai, Y. (2021). Challenges and opportunities in precision irrigation decision-support systems for center pivots. *Environmental Research Letters*, 16(5), 053003. <https://doi.org/10.1088/1748-9326/abe436>
321. Zhou, S., Kuester, T., Bochow, M., Bohn, N., Brell, M., & Kaufmann, H. (2021). A knowledge-based, validated classifier for the identification of aliphatic and aromatic plastics by WorldView-3 satellite data. *Remote Sensing of Environment*, 264, 112598. <https://doi.org/10.1016/j.rse.2021.112598>
322. Abuzar, M., McAllister, A., Whitfield, D., & Sheffield, K. (2020). Remotely-Sensed Surface Temperature and Vegetation Status for the Assessment of Decadal Change in the Irrigated Land Cover of North-Central Victoria, Australia. *Land*, 9(9), 308. <https://doi.org/10.3390/land9090308>
323. Aragon Solorio, B. J. L., Johansen, K., Parkes, S., Malbeteau, Y., Almashharawi, S., Al-Amoudi, T., Andrade, C. F., Turner, D., Lucieer, A., & McCabe, M. (2020). A Calibration Procedure for Field and UAV-Based Uncooled Thermal Infrared Instruments. *Sensors*.
324. Balch, J. K., Nagy, R. C., & Halpern, B. S. (2020). NEON is seeding the next revolution in ecology. *Frontiers in Ecology and the Environment*, 18(1), 3–3.
325. Barrios, Y., Rodríguez, A., Sánchez, A., Pérez, A., López, S., Otero, A., Torre, E., & Sarmiento, R. (2020). Lossy Hyperspectral Image Compression on a Reconfigurable and Fault-Tolerant FPGA-Based Adaptive Computing Platform. *Electronics*, 9(10), 1576.

326. Batbaatar, J., Gillespie, A. R., Sletten, R. S., Mushkin, A., Amit, R., Liaudat, D. T., Liu, L., & Petrie, G. (2020). Toward the Detection of Permafrost Using Land-Surface Temperature Mapping. *Remote Sensing*, 12(4), 695.
327. Bellvert, J., Jofre-Čekalović, C., Pelechá, A., Mata, M., & Nieto, H. (2020). Feasibility of using the two-source energy balance model (TSEB) with Sentinel-2 and Sentinel-3 images to analyze the spatio-temporal variability of vine water status in a vineyard. *Remote Sensing*, 12(14), 2299.
328. Bulatov, D., Burkard, E., Ilehag, R., Kottler, B., & Helmholtz, P. (2020). From multi-sensor aerial data to thermal and infrared simulation of semantic 3D models: Towards identification of urban heat islands. *Infrared Physics & Technology*, 105, 103233. <https://www.sciencedirect.com/science/article/abs/pii/S1350449519307741?via%3Dihub>
329. Burchard-Levine, V., Nieto, H., Riaño, D., Migliavacca, M., El-Madany, T. S., Perez-Priego, O., Carrara, A., & Martín, M. P. (2020). Seasonal adaptation of the thermal-based two-source energy balance model for estimating evapotranspiration in a semiarid tree-grass ecosystem. *Remote Sensing*, 12(6), 904.
330. Butterworth, B. J., Desai, A. R., Metzger, S., Townsend, P. A., Schwartz, M. D., Petty, G. W., Mauder, M., Vogelmann, H., Andresen, C. G., & Augustine, T. J. (2020). CONNECTING LAND-ATMOSPHERE INTERACTIONS TO SURFACE HETEROGENEITY IN CHEESEHEAD19. *Bulletin of the American Meteorological Society*, 1–71.
331. Cârlan, I., Mihai, B.-A., Nistor, C., & Große-Stoltenberg, A. (2020). Identifying urban vegetation stress factors based on open access remote sensing imagery and field observations. *Ecological Informatics*, 55, 101032. <https://www.sciencedirect.com/science/article/abs/pii/S1574954119303437>
332. Cattau, M. (2020). Fire as a Fundamental Ecological Process: Research Advances and Frontiers. *Journal of Ecology*.
333. 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>
334. Chatterjee, S., Huang, J., & Hartemink, A. E. (2020). Establishing an Empirical Model for Surface Soil Moisture Retrieval at the U.S. Climate Reference Network Using

Sentinel-1 Backscatter and Ancillary Data. *Remote Sensing*, 12(8), 1242.
<https://doi.org/10.3390/rs12081242>

335. Chen, F., Chen, X., van de Voorde, T., Roberts, D., Jiang, H., & Xu, W. (2020). Open water detection in urban environments using high spatial resolution remote sensing imagery. *Remote Sensing of Environment*, 242(March), 111706.
<https://doi.org/10.1016/j.rse.2020.111706>
336. Chen, H., Zhu, G., Zhang, K., Bi, J., Jia, X., Ding, B., Zhang, Y., Shang, S., Zhao, N., & Qin, W. (2020). Evaluation of Evapotranspiration Models Using Different LAI and Meteorological Forcing Data from 1982 to 2017. *Remote Sensing*, 12(15), 2473.
<https://doi.org/10.3390/rs12152473>
337. Cheung, W. W. L., & Frölicher, T. L. (2020). Marine heatwaves exacerbate climate change impacts for fisheries in the northeast Pacific. *Scientific Reports*, 10(1), 6678.
<https://doi.org/10.1038/s41598-020-63650-z>
338. 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>
339. Coleman, R. W., Stavros, N., Yadav, V., & Parazoo, N. (2020). A Simplified Framework for High-Resolution Urban Vegetation Classification with Optical Imagery in the Los Angeles Megacity. *Remote Sensing*, 12(15), 2399. <https://doi.org/10.3390/rs12152399>
340. Desta, F., Buxton, M., & Jansen, J. (2020a). Data Fusion for the Prediction of Elemental Concentrations in Polymetallic Sulphide Ore Using Mid-Wave Infrared and Long-Wave Infrared Reflectance Data. *Minerals*, 10(3), 235. <https://doi.org/10.3390/min10030235>
341. Desta, F., Buxton, M., & Jansen, J. (2020b). Fusion of Mid-Wave Infrared and Long-Wave Infrared Reflectance Spectra for Quantitative Analysis of Minerals. *Sensors*, 20(5), 1472. <https://doi.org/10.3390/s20051472>
342. Dong, P., Gao, L., Zhan, W., Liu, Z., Li, J., Lai, J., Li, H., Huang, F., Tamang, S. K., & Zhao, L. (2020). Global comparison of diverse scaling factors and regression models for downscaling Landsat-8 thermal data. *ISPRS Journal of Photogrammetry and Remote Sensing*, 169, 44–56. <https://doi.org/10.1016/j.isprsjprs.2020.08.018>
343. Drozdovskiy, I., Ligeza, G., Jahoda, P., Franke, M., Lennert, P., Vodnik, P., Payler, S. J., Kaliwoda, M., Pozzobon, R., Massironi, M., Turchi, L., Bessone, L., & Sauro, F.

(2020). The PANGAEA mineralogical database. *Data in Brief*, 31, 105985.
<https://doi.org/https://doi.org/10.1016/j.dib.2020.105985>

344. Dubayah, R., Blair, J. B., Goetz, S., Fatoyinbo, L., Hansen, M., Healey, S., Hofton, M., Hurtt, G., Kellner, J., Luthcke, S., Armston, J., Tang, H., Duncanson, L., Hancock, S., Jantz, P., Marselis, S., Patterson, P. L., Qi, W., & Silva, C. (2020). The Global Ecosystem Dynamics Investigation: High-resolution laser ranging of the Earth's forests and topography. *Science of Remote Sensing*, 1, 100002.
<https://doi.org/10.1016/j.srs.2020.100002>
345. Ermida, S. L., Soares, P., Mantas, V., Göttsche, F.-M., & Trigo, I. F. (2020). Google Earth Engine Open-Source Code for Land Surface Temperature Estimation from the Landsat Series. *Remote Sensing*, 12(9), 1471. <https://doi.org/10.3390/rs12091471>
346. Estévez, J., Vicent, J., Rivera-Caicedo, J. P., Morcillo-Pallarés, P., Vuolo, F., Sabater, N., Camps-Valls, G., Moreno, J., & Verrelst, J. (2020). Gaussian processes retrieval of LAI from Sentinel-2 top-of-atmosphere radiance data. *ISPRS Journal of Photogrammetry and Remote Sensing*, 167, 289–304.
<https://doi.org/10.1016/j.isprsjprs.2020.07.004>
347. Fernández-Manso, A., Quintano, C., & Roberts, D. A. (2020). Can Landsat-Derived Variables Related to Energy Balance Improve Understanding of Burn Severity From Current Operational Techniques? *Remote Sensing*, 12(5), 890.
<https://doi.org/10.3390/rs12050890>
348. 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., Brunsell, 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>
349. Fujiwara, T., & Takeuchi, W. (2020). Simulation of Sentinel-2 Bottom of Atmosphere Reflectance Using Shadow Parameters on a Deciduous Forest in Thailand. *ISPRS International Journal of Geo-Information*, 9(10), 582. <https://doi.org/10.3390/ijgi9100582>
350. Garaba, S. P., Acuña-Ruz, T., & Mattar, C. B. (2020). Hyperspectral longwave infrared reflectance spectra of naturally dried algae, anthropogenic plastics, sands and shells. *Earth System Science Data*, 12(4), 2665–2678. <https://doi.org/10.5194/essd-12-2665-2020>
351. 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>

352. 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>
353. Hultine, K. R., Allan, G. J., Blasini, D., Bothwell, H. M., Cadmus, A., Cooper, H. F., Doughty, C. E., Gehring, C. A., Gitlin, A. R., Grady, K. C., Hull, J. B., Keith, A. R., Koepke, D. F., Markovchick, L., Corbin Parker, J. M., Sankey, T. T., & Whitham, T. G. (2020). Adaptive capacity in the foundation tree species *Populus fremontii*: implications for resilience to climate change and non-native species invasion in the American Southwest. *Conservation Physiology*, 8(1). <https://doi.org/10.1093/conphys/coaa061>
354. Javadian, M., Behrangi, A., Smith, W. K., & Fisher, J. B. (2020). Global Trends in Evapotranspiration Dominated by Increases across Large Cropland Regions. *Remote Sensing*, 12(7), 1221. <https://doi.org/10.3390/rs12071221>
355. Jha, S. S., & Nidamanuri, R. R. (2020). Gudalur Spectral Target Detection (GST-D): A New Benchmark Dataset and Engineered Material Target Detection in Multi-Platform Remote Sensing Data. *Remote Sensing*, 12(13), 2145. <https://doi.org/10.3390/rs12132145>
356. Jiang, C., Guan, K., Pan, M., Ryu, Y., Peng, B., & Wang, S. (2020). BESS-STAIR: a framework to estimate daily, 30 m, and all-weather crop evapotranspiration using multi-source satellite data for the US Corn Belt. *Hydrology and Earth System Sciences*, 24(3), 1251–1273. <https://doi.org/10.5194/hess-24-1251-2020>
357. Kim, J. -H., Kim, J., & Joung, J. (2020). Siamese hyperspectral target detection using synthetic training data. *Electronics Letters*, 56(21), 1116–1118. <https://doi.org/10.1049/el.2020.1758>
358. Kohli, G., Lee, C. M., Fisher, J. B., Halverson, G., Variano, E., Jin, Y., Carney, D., Wilder, B. A., & Kinoshita, A. M. (2020). Ecostress 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>
359. 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>

360. Kumar, S. S., Prihodko, L., Lind, B. M., Anchang, J., Ji, W., Ross, C. W., Kahiu, M. N., Velpuri, N. M., & Hanan, N. P. (2020). Remotely sensed thermal decay rate: an index for vegetation monitoring. *Scientific Reports*, 10(1), 9812.
<https://doi.org/10.1038/s41598-020-66193-5>
361. Lamquin, N., Déru, A., Clerc, S., Bourg, L., & Donlon, C. (2020). OLCI A/B Tandem Phase Analysis, Part 2: Benefits of Sensors Harmonisation for Level 2 Products. *Remote Sensing*, 12(17), 2702. <https://doi.org/10.3390/rs12172702>
362. Langsdale, M., Wooster, M., Harrison, J., Koehl, M., Hecker, C., Hook, S., Abbott, E., Johnson, W., Maturilli, A., Poutier, L., Lau, I., & Brucker, F. (2020). Spectral Emissivity (SE) Measurement Uncertainties across 2.5–14 μm Derived from a Round-Robin Study Made across International Laboratories. *Remote Sensing*, 13(1), 102.
<https://doi.org/10.3390/rs13010102>
363. Lehr, J., Langenhorst, M., Schmager, R., Gota, F., Kirner, S., Lemmer, U., Richards, B. S., Case, C., & Paetzold, U. W. (2020). Energy yield of bifacial textured perovskite/silicon tandem photovoltaic modules. *Solar Energy Materials and Solar Cells*, 208, 110367. <https://doi.org/10.1016/j.solmat.2019.110367>
364. Lei, F., Crow, W. T., Kustas, W. P., Dong, J., Yang, Y., Knipper, K. R., Anderson, M. C., Gao, F., Notarnicola, C., Greifeneder, F., McKee, L. M., Alfieri, J. G., Hain, C., & Dokoozlian, N. (2020). Data assimilation of high-resolution thermal and radar remote sensing retrievals for soil moisture monitoring in a drip-irrigated vineyard. *Remote Sensing of Environment*, 239, 111622. <https://doi.org/10.1016/j.rse.2019.111622>
365. Longo, M., Saatchi, S., Keller, M., Bowman, K., Ferraz, A., Moorcroft, P. R., Morton, D. C., Bonal, D., Brando, P., Burban, B., Derroire, G., Dos-Santos, M. N., Meyer, V., Saleska, S., Trumbore, S., & Vincent, G. (2020). Impacts of Degradation on Water, Energy, and Carbon Cycling of the Amazon Tropical Forests. *Journal of Geophysical Research: Biogeosciences*, 125(8). <https://doi.org/10.1029/2020JG005677>
366. Marshall, M., Tu, K., & Andreo, V. (2020). On Parameterizing Soil Evaporation in a Direct Remote Sensing Model of ET: PT-JPL. *Water Resources Research*, 56(5). <https://doi.org/10.1029/2019WR026290>
367. Martinez, B., Reaser, J. K., Dehgan, A., Zamft, B., Baisch, D., McCormick, C., Giordano, A. J., Aicher, R., & Selbe, S. (2020). Technology innovation: advancing

capacities for the early detection of and rapid response to invasive species. *Biological Invasions*, 22(1), 75–100. <https://doi.org/10.1007/s10530-019-02146-y>

368. McColl, K. A. (2020). Practical and Theoretical Benefits of an Alternative to the Penman-Monteith Evapotranspiration Equation. *Water Resources Research*, 56(6). <https://doi.org/10.1029/2020WR027106>
369. McLauchlan, K. K., Higuera, P. E., Miesel, J., Rogers, B. M., Schweitzer, J., Shuman, J. K., Tepley, A. J., Varner, J. M., Veblen, T. T., Adalsteinsson, S. A., Balch, J. K., Baker, P., Batllori, E., Bigio, E., Brando, P., Cattau, M., Chipman, M. L., Coen, J., Crandall, R., ... Watts, A. C. (2020a). Fire as a fundamental ecological process: Research advances and frontiers. *Journal of Ecology*, 108(5), 2047–2069. <https://doi.org/10.1111/1365-2745.13403>
370. McLauchlan, K. K., Higuera, P. E., Miesel, J., Rogers, B. M., Schweitzer, J., Shuman, J. K., Tepley, A. J., Varner, J. M., Veblen, T. T., Adalsteinsson, S. A., Balch, J. K., Baker, P., Batllori, E., Bigio, E., Brando, P., Cattau, M., Chipman, M. L., Coen, J., Crandall, R., ... Watts, A. C. (2020b). Fire as a fundamental ecological process: Research advances and frontiers. *Journal of Ecology*, 108(5), 2047–2069. <https://doi.org/10.1111/1365-2745.13403>
371. Meneghesso, C., Seabra, R., Broitman, B. R., Wethey, D. S., Burrows, M. T., Chan, B. K. K., Guy-Haim, T., Ribeiro, P. A., Rilov, G., Santos, A. M., Sousa, L. L., & Lima, F. P. (2020). Remotely-sensed L4 SST underestimates the thermal fingerprint of coastal upwelling. *Remote Sensing of Environment*, 237, 111588. <https://doi.org/https://doi.org/10.1016/j.rse.2019.111588>
372. Mohan, M. M. P., Kanchirapuzha, R., & Varma, M. R. R. (2020). Review of approaches for the estimation of sensible heat flux in remote sensing-based evapotranspiration models. *Journal of Applied Remote Sensing*, 14(04). <https://doi.org/10.1117/1.JRS.14.041501>
373. Moletto-Lobos, I., Mattar, C., & Barichivich, J. (2020). Performance of Satellite-Based Evapotranspiration Models in Temperate Pastures of Southern Chile. *Water*, 12(12), 3587. <https://doi.org/10.3390/w12123587>
374. Montorio, R., Pérez-Cabello, F., Borini Alves, D., & García-Martín, A. (2020). Unitemporal approach to fire severity mapping using multispectral synthetic databases and Random Forests. *Remote Sensing of Environment*, 249, 112025. <https://doi.org/10.1016/j.rse.2020.112025>

375. Muckenhuber, S., Holzer, H., & Bockaj, Z. (2020). Automotive Lidar Modelling Approach Based on Material Properties and Lidar Capabilities. *Sensors*, 20(11), 3309. <https://doi.org/10.3390/s20113309>
376. Mushkin, A., Gillespie, A. R., Abbott, E. A., Batbaatar, J., Hulley, G., Tan, H., Tratt, D. M., & Buckland, K. N. (2020). Validation of ASTER emissivity retrieval using the Mako airborne TIR imaging spectrometer at the Algodones dune field in Southern California, USA. *Remote Sensing*, 12(5), 1–23. <https://doi.org/10.3390/rs12050815>
377. Nassar, A., Torres-Rua, A., Kustas, W., Nieto, H., McKee, M., Hipps, L., Stevens, D., Alfieri, J., Prueger, J., Alsina, M. M., McKee, L., Coopmans, C., Sanchez, L., & Dokoozlian, N. (2020). Influence of Model Grid Size on the Estimation of Surface Fluxes Using the Two Source Energy Balance Model and sUAS Imagery in Vineyards. *Remote Sensing*, 12(3), 342. <https://doi.org/10.3390/rs12030342>
378. Nolan, R. H., Blackman, C. J., de Dios, V. R., Choat, B., Medlyn, B. E., Li, X., Bradstock, R. A., & Boer, M. M. (2020). Linking Forest Flammability and Plant Vulnerability to Drought. *Forests*, 11(7), 779. <https://doi.org/10.3390/f11070779>
379. Pan, S., Pan, N., Tian, H., Friedlingstein, P., Sitch, S., Shi, H., Arora, V. K., Haverd, V., Jain, A. K., Kato, E., Lienert, S., Lombardozzi, D., Nabel, J. E. M. S., Ottlé, C., Poulter, B., Zaehle, S., & Running, S. W. (2020). Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. *Hydrology and Earth System Sciences*, 24(3), 1485–1509. <https://doi.org/10.5194/hess-24-1485-2020>
380. Papp, A., Pegoraro, J., Bauer, D., Taupe, P., Wiesmeyr, C., & Kriechbaum-Zabini, A. (2020). Automatic Annotation of Hyperspectral Images and Spectral Signal Classification of People and Vehicles in Areas of Dense Vegetation with Deep Learning. *Remote Sensing*, 12(13), 2111. <https://doi.org/10.3390/rs12132111>
381. Pour, A. B., Sekandari, M., Rahmani, O., Crispini, L., Läufer, A., Park, Y., Hong, J. K., Pradhan, B., Hashim, M., Hossain, M. S., Muslim, A. M., & Mehranzamir, K. (2020). Identification of Phyllosilicates in the Antarctic Environment Using ASTER Satellite Data: Case Study from the Mesa Range, Campbell and Priestley Glaciers, Northern Victoria Land. *Remote Sensing*, 13(1), 38. <https://doi.org/10.3390/rs13010038>
382. Quintano, C., Fernández-Manso, A., & Roberts, D. A. (2020). Enhanced burn severity estimation using fine resolution ET and MESMA fraction images with machine learning algorithm. *Remote Sensing of Environment*, 244, 111815. <https://doi.org/10.1016/j.rse.2020.111815>

383. Schneider, F. D., Ferraz, A., Hancock, S., Duncanson, L. I., Dubayah, R. O., Pavlick, R. P., & Schimel, D. S. (2020). Towards mapping the diversity of canopy structure from space with GEDI. *Environmental Research Letters*, *15*(11), 115006. <https://doi.org/10.1088/1748-9326/ab9e99>
384. Schultz, J. A., Hartmann, M., Heinemann, S., Janke, J., Jürgens, C., Oertel, D., Rücker, G., Thonfeld, F., & Rienow, A. (2020). DIEGO: A Multispectral Thermal Mission for Earth Observation on the International Space Station. *European Journal of Remote Sensing*, *53*(sup2), 28–38. <https://doi.org/10.1080/22797254.2019.1698318>
385. Silvestri, M., Marotta, E., Buongiorno, M. F., Avvisati, G., Belviso, P., Bellucci Sessa, E., Caputo, T., Longo, V., de Leo, V., & Teggi, S. (2020). Monitoring of Surface Temperature on Parco delle Biancane (Italian Geothermal Area) Using Optical Satellite Data, UAV and Field Campaigns. *Remote Sensing*, *12*(12), 2018. <https://doi.org/10.3390/rs12122018>
386. 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>
387. Sobrino, J. A., Julien, Y., Jiménez-Muñoz, J.-C., Skokovic, D., & Sòria, G. (2020). Near real-time estimation of Sea and Land surface temperature for MSG SEVIRI sensors. *International Journal of Applied Earth Observation and Geoinformation*, *89*, 102096. <https://doi.org/10.1016/j.jag.2020.102096>
388. Strandgren, J., Krutz, D., Wilzewski, J., Paproth, C., Sebastian, I., Gurney, K. R., Liang, J., Roiger, A., & Butz, A. (2020). Towards spaceborne monitoring of localized CO₂ emissions: an instrument concept and first performance assessment. *Atmospheric Measurement Techniques*, *13*(6), 2887–2904. <https://doi.org/10.5194/amt-13-2887-2020>
389. Su, Z., Zeng, Y., Romano, N., Manfreda, S., Francés, F., ben Dor, E., Szabó, B., Vico, G., Nasta, P., Zhuang, R., Francos, N., Mészáros, J., Dal Sasso, S. F., Bassiouni, M., Zhang, L., Rwasoka, D. T., Retsios, B., Yu, L., Blatchford, M. L., & Mannaerts, C. (2020). An Integrative Information Aqueduct to Close the Gaps between Satellite Observation of Water Cycle and Local Sustainable Management of Water Resources. *Water*, *12*(5), 1495. <https://doi.org/10.3390/w12051495>
390. Taramelli, A., Tornato, A., Magliozzi, M. L., Mariani, S., Valentini, E., Zavagli, M., Costantini, M., Nieke, J., Adams, J., & Rast, M. (2020). An Interaction Methodology to Collect and Assess User-Driven Requirements to Define Potential Opportunities of

Future Hyperspectral Imaging Sentinel Mission. *Remote Sensing*, 12(8), 1286.
<https://doi.org/10.3390/rs12081286>

391. Taylor, T. E., Eldering, A., Merrelli, A., Kiel, M., Somkuti, P., Cheng, C., Rosenberg, R., Fisher, B., Crisp, D., Basilio, R., Bennett, M., Cervantes, D., Chang, A., Dang, L., Frankenberg, C., Haemmerle, V. R., Keller, G. R., Kurosu, T., Laughner, J. L., ... Yu, S. (2020). OCO-3 early mission operations and initial (vEarly) XCO₂ and SIF retrievals. *Remote Sensing of Environment*, 251, 112032.
<https://doi.org/10.1016/j.rse.2020.112032>
392. Vanhellemont, Q. (2020). Combined land surface emissivity and temperature estimation from Landsat 8 OLI and TIRS. *ISPRS Journal of Photogrammetry and Remote Sensing*, 166, 390–402. <https://doi.org/10.1016/j.isprsjprs.2020.06.007>
393. Vogels, M. F. A., de Jong, S. M., Sterk, G., Wanders, N., Bierkens, M. F. P., & Addink, E. A. (2020). An object-based image analysis approach to assess irrigation-water consumption from MODIS products in Ethiopia. *International Journal of Applied Earth Observation and Geoinformation*, 88, 102067. <https://doi.org/10.1016/j.jag.2020.102067>
394. Weksler, S., Rozenstein, O., Haish, N., Moshelion, M., Walach, R., & Ben-Dor, E. (2020). A Hyperspectral-Physiological Phenomics System: Measuring Diurnal Transpiration Rates and Diurnal Reflectance. *Remote Sensing*, 12(9), 1493.
<https://doi.org/10.3390/rs12091493>
395. Wen, W., Timmermans, J., Chen, Q., & van Bodegom, P. M. (2020). A Review of Remote Sensing Challenges for Food Security with Respect to Salinity and Drought Threats. *Remote Sensing*, 13(1), 6. <https://doi.org/10.3390/rs13010006>
396. Whelan, M. E., Anderegg, L. D. L., Badgley, G., Campbell, J. E., Commane, R., Frankenberg, C., Hilton, T. W., Kuai, L., Parazoo, N., Shiga, Y., Wang, Y., & Worden, J. (2020). Scientific Communities Striving for a Common Cause: Innovations in Carbon Cycle Science. *Bulletin of the American Meteorological Society*, 101(9), E1537–E1543.
<https://doi.org/10.1175/BAMS-D-19-0306.1>
397. Wynn, C. M., Lessard, J., Milstein, A. B., Chapnik, P., Rachlin, Y., Smeaton, C., Leman, S., Kaushik, S., & Sullenberger, R. M. (2020). Flight tests of the computational reconfigurable imaging spectrometer. *Remote Sensing of Environment*, 239, 111621.
<https://doi.org/10.1016/j.rse.2019.111621>
398. 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>

399. 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>
900. Zhao, G., Gao, H., & Cai, X. (2020). Estimating lake temperature profile and evaporation losses by leveraging MODIS LST data. *Remote Sensing of Environment*, 251, 112104. <https://doi.org/10.1016/j.rse.2020.112104>
901. Zheng, X., Gao, M., Li, Z.-L., Chen, K.-S., Zhang, X., & Shang, G. (2020). Impact of 3-D Structures and Their Radiation on Thermal Infrared Measurements in Urban Areas. *IEEE Transactions on Geoscience and Remote Sensing*, 58(12), 8412–8426. <https://doi.org/10.1109/TGRS.2020.2987880>
902. Ackerman, S. A., Platnick, S., Bhartia, P. K., Duncan, B., L'Ecuyer, T., Heidinger, A., Skofronick-Jackson, G., Loeb, N., Schmit, T., & Smith, N. (2019). Satellites see the world's atmosphere. *Meteorological Monographs*, 59, 4.1-4.53. <https://doi.org/10.1175/AMSMONOGRAPHS-D-18-0009.1>
903. Agathangelidis, I., & Cartalis, C. (2019). Improving the disaggregation of MODIS land surface temperatures in an urban environment: a statistical downscaling approach using high-resolution emissivity. *International Journal of Remote Sensing*, 40(13), 5261–5286. <https://doi.org/10.1080/01431161.2019.1579386>
904. Anderson, M., Diak, G., Gao, F., Knipper, K., Hain, C., Eichelmann, E., Hemes, K. S., Baldocchi, D., Kustas, W., & Yang, Y. (2019). Impact of Insolation Data Source on Remote Sensing Retrievals of Evapotranspiration over the California Delta. *Remote Sensing*, 11(3), 216. <https://pubag.nal.usda.gov/catalog/6372530>
905. Bergh, W., Jacobs, G., de Maeijer, P. K., Vuye, C., Arimilli, S., Couscheir, K., Lauriks, L., Baetens, R., Severins, I., & Margaritis, A. (2019). Demonstrating innovative technologies for the Flemish asphalt sector in the CyPaTs project. *MS&E*, 471(2), 22031.
906. Bergquist, R., & Gray, D. J. (2019). Schistosomiasis elimination: Beginning of the end or a continued March on a trodden path. *Tropical Medicine and Infectious Disease*.
907. Bergquist, R., & Manda, S. (2019). The world in your hands: GeoHealth then and now. *Geospatial Health*. <https://onlinelibrary.wiley.com/doi/10.1111/gcb.15414>

908. Bhattarai, N., & Liu, T. (2019). LandMOD ET mapper: A new matlab-based graphical user interface (GUI) for automated implementation of SEBAL and METRIC models in thermal imagery. *Environmental Modelling & Software*, 118, 76–82.
909. Cao, B., Liu, Q., Du, Y., Roujean, J.-L., Gastellu-Etchegorry, J.-P., Trigo, I. F., Zhan, W., Yu, Y., Cheng, J., & Jacob, F. (2019). A review of earth surface thermal radiation directionality observing and modeling: Historical development, current status and perspectives. *Remote Sensing of Environment*, 232, 111304.
910. Cavanaugh, K. C., Reed, D. C., Bell, T. W., Castorani, M. C. N., & Beas-Luna, R. (2019). Spatial Variability in the Resistance and Resilience of Giant Kelp in Southern and Baja California to a Multiyear Heatwave . In *Frontiers in Marine Science* (Vol. 6, p. 413). <https://www.frontiersin.org/article/10.3389/fmars.2019.00413>
911. Chabrillat, S., Ben-Dor, E., Cierniewski, J., Gomez, C., Schmid, T., & van Wesemael, B. (2019). Imaging Spectroscopy for Soil Mapping and Monitoring. *Surveys in Geophysics*, 40(3), 361–399. <https://doi.org/10.1007/s10712-019-09524-0>
912. Cooley, S. S., Williams, C. A., Fisher, J. B., Halverson, G. H., Perret, J., & Lee, C. M. (2019). Assessing regional drought impacts on vegetation and evapotranspiration: a case study in Guanacaste, Costa Rica. *Ecological Applications*, 29(2). <https://doi.org/10.1002/eap.1834>
913. Dodd, E. M. A., Veal, K. L., Ghent, D. J., Broeke, M. R., & Remedios, J. J. (2019). Toward a Combined Surface Temperature Data Set for the Arctic From the Along-Track Scanning Radiometers. *Journal of Geophysical Research: Atmospheres*, 2019JD030262. <https://doi.org/10.1029/2019JD030262>
914. Eldering, A., Taylor, T. E., O'Dell, C. W., & Pavlick, R. (2019). The OCO-3 mission: measurement objectives and expected performance based on 1 year of simulated data. *Atmospheric Measurement Techniques*, 12(4), 2341–2370. <https://doi.org/10.5194/amt-12-2341-2019>
915. Eom, J., Park, W., Syifa, M., Lee, C., & Yoon, S. (2019). Monitoring Variation in Sea Surface Temperature in the Nakdong River Estuary, Korea, Using Multiple Satellite Images. *Journal of Coastal Research*, 90(sp1), 183–189. <https://doi.org/10.2112/SI90-022.1>
916. Exbrayat, J.-F., Bloom, A. A., Carvalhais, N., Fischer, R., Huth, A., MacBean, N., & Williams, M. (2019). Understanding the Land Carbon Cycle with Space Data: Current

Status and Prospects. *Surveys in Geophysics*, 40(4), 735–755.
<https://doi.org/10.1007/s10712-019-09506-2>

917. Ge, N., Zhong, L., Ma, Y., Cheng, M., Wang, X., Zou, M., & Huang, Z. (2019). Estimation of Land Surface Heat Fluxes Based on Landsat 7 ETM+ Data and Field Measurements over the Northern Tibetan Plateau. *Remote Sensing*, 11(24), 2899. <https://doi.org/10.3390/rs11242899>
918. Gerhards, M., Schlerf, M., Mallick, K., & Udelhoven, T. (2019). Challenges and Future Perspectives of Multi-/Hyperspectral Thermal Infrared Remote Sensing for Crop Water-Stress Detection: A Review. *Remote Sensing*, 11(10), 1240. <https://doi.org/10.3390/rs11101240>
919. Guanter, L., Brell, M., Chan, J. C.-W., Giardino, C., Gomez-Dans, J., Mielke, C., Morsdorf, F., Segl, K., & Yokoya, N. (2019). Synergies of Spaceborne Imaging Spectroscopy with Other Remote Sensing Approaches. *Surveys in Geophysics*, 40(3), 657–687. <https://doi.org/10.1007/s10712-018-9485-z>
920. Guillevic, P., Olioso, A., Hook, S., Fisher, J., Lagouarde, J.-P., & Vermote, E. (2019). Impact of the Revisit of Thermal Infrared Remote Sensing Observations on Evapotranspiration Uncertainty—A Sensitivity Study Using AmeriFlux Data. *Remote Sensing*, 11(5), 573. <https://doi.org/10.3390/rs11050573>
921. Hernández-Clemente, R., Hornero, A., Mottus, M., Penuelas, J., González-Dugo, V., Jiménez, J. C., Suárez, L., Alonso, L., & Zarco-Tejada, P. J. (2019). Early Diagnosis of Vegetation Health From High-Resolution Hyperspectral and Thermal Imagery: Lessons Learned From Empirical Relationships and Radiative Transfer Modelling. *Current Forestry Reports*, 5(3), 169–183. <https://doi.org/10.1007/s40725-019-00096-1>
922. 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>
923. Jang, J.-C., & Park, K.-A. (2019). High-Resolution Sea Surface Temperature Retrieval from Landsat 8 OLI/TIRS Data at Coastal Regions. In *Remote Sensing* (Vol. 11, Issue 22). <https://doi.org/10.3390/rs11222687>
924. Javadian, M., Behrangi, A., Gholizadeh, M., & Tajrishy, M. (2019). METRIC and WaPOR Estimates of Evapotranspiration over the Lake Urmia Basin: Comparative Analysis and Composite Assessment. *Water*, 11(8), 1647. <https://doi.org/10.3390/w11081647>

925. Knipper, Kustas, Anderson, Alsina, Hain, Alfieri, Prueger, Gao, McKee, & Sanchez. (2019). Using High-Spatiotemporal Thermal Satellite ET Retrievals for Operational Water Use and Stress Monitoring in a California Vineyard. *Remote Sensing*, 11(18), 2124. <https://doi.org/10.3390/rs11182124>
926. Krutz, D., Müller, R., Knodt, U., Günther, B., Walter, I., Sebastian, I., Säuberlich, T., Reulke, R., Carmona, E., Eckardt, A., Venus, H., Fischer, C., Zender, B., Arloth, S., Lieder, M., Neidhardt, M., Grote, U., Schrandt, F., Gelmi, S., & Wojtkowiak, A. (2019). The Instrument Design of the DLR Earth Sensing Imaging Spectrometer (DESI). *Sensors*, 19(7), 1622. <https://doi.org/10.3390/s19071622>
927. Lan, X., Zhao, E., Li, Z.-L., Labed, J., & Nerry, F. (2019). An Improved Linear Spectral Emissivity Constraint Method for Temperature and Emissivity Separation Using Hyperspectral Thermal Infrared Data. *Sensors*, 19(24), 5552. <https://doi.org/10.3390/s19245552>
928. Lin, C., Gentine, P., Frankenberg, C., Zhou, S., Kennedy, D., & Li, X. (2019). Evaluation and mechanism exploration of the diurnal hysteresis of ecosystem fluxes. *Agricultural and Forest Meteorology*, 278, 107642. <https://doi.org/10.1016/j.agrformet.2019.107642>
929. Malone, J. B., Bergquist, R., Martins, M., & Luvall, J. C. (2019). Use of geospatial surveillance and response systems for vector-borne diseases in the elimination phase. *Tropical Medicine and Infectious Disease*.
930. Mauceri, S., Kindel, B., Massie, S., & Pilewskie, P. (2019). Neural network for aerosol retrieval from hyperspectral imagery. *Atmospheric Measurement Techniques*, 12(11), 6017–6036. <https://doi.org/10.5194/amt-12-6017-2019>
931. McCabe, M. F., Miralles, D. G., Holmes, T. R. H., & Fisher, J. B. (2019). Advances in the Remote Sensing of Terrestrial Evaporation. *Remote Sensing*, 11(9), 1138. <https://doi.org/10.3390/rs11091138>
932. Meerdink, S. K., Hook, S. J., Roberts, D. A., & Abbott, E. A. (2019). The ECOSTRESS spectral library version 1.0. *Remote Sensing of Environment*, 230, 111196. <https://doi.org/10.1016/j.rse.2019.05.015>
933. Meerdink, S., Roberts, D., Hulley, G., Gader, P., Pisek, J., Adamson, K., King, J., & Hook, S. J. (2019). Plant species' spectral emissivity and temperature using the hyperspectral thermal emission spectrometer (HyTES) sensor. *Remote Sensing of Environment*, 224(February), 421–435. <https://doi.org/10.1016/j.rse.2019.02.009>

934. Miller, P. W., Kumar, A., Mote, T. L., Moraes, F. D. S., & Mishra, D. R. (2019). Persistent Hydrological Consequences of Hurricane Maria in Puerto Rico. *Geophysical Research Letters*, 46(3), 1413–1422. <https://doi.org/10.1029/2018GL081591>
935. Naimi, B., Hamm, N. A. S., Groen, T. A., Skidmore, A. K., Toxopeus, A. G., & Alibakhshi, S. (2019). ELSA: Entropy-based local indicator of spatial association. *Spatial Statistics*, 29, 66–88. <https://doi.org/https://doi.org/10.1016/j.spasta.2018.10.001>
936. Pelta, R., & Ben-Dor, E. (2019). An Exploratory Study on the Effect of Petroleum Hydrocarbon on Soils Using Hyperspectral Longwave Infrared Imagery. *Remote Sensing*, 11(5), 569. <https://doi.org/10.3390/rs11050569>
937. Redmond, M. D., Law, D. J., Field, J. P., Meneses, N., Carroll, C. J. W., Wion, A. P., Breshears, D. D., Cobb, N. S., Dietze, M. C., & Gallery, R. E. (2019). Targeting Extreme Events: Complementing Near-Term Ecological Forecasting With Rapid Experiments and Regional Surveys. *Frontiers in Environmental Science*, 7. <https://doi.org/10.3389/fenvs.2019.00183>
938. Schimel, D., & Schneider, F. D. (2019). Flux towers in the sky: global ecology from space. *New Phytologist*, 224(2), 570–584. <https://doi.org/10.1111/nph.15934>
939. Schmager, R., Langenhorst, M., Lehr, J., Lemmer, U., Richards, B. S., & Paetzold, U. W. (2019). Methodology of energy yield modelling of perovskite-based multi-junction photovoltaics. *Optics Express*, 27(8), A507. <https://doi.org/10.1364/OE.27.00A507>
940. Shi, C., Hashimoto, M., & Nakajima, T. (2019). Remote sensing of aerosol properties from multi-wavelength and multi-pixel information over the ocean. *Atmospheric Chemistry and Physics*, 19(4), 2461–2475. <https://doi.org/10.5194/acp-19-2461-2019>
941. Shin, J., Park, H., & Kim, T. (2019). Characteristics of Laser Backscattering Intensity to Detect Frozen and Wet Surfaces on Roads. *Journal of Sensors*, 2019, 1–9. <https://doi.org/10.1155/2019/8973248>
942. Shivers, S. W., Roberts, D. A., & McFadden, J. P. (2019). Using paired thermal and hyperspectral aerial imagery to quantify land surface temperature variability and assess crop stress within California orchards. *Remote Sensing of Environment*, 222(January), 215–231. <https://doi.org/10.1016/j.rse.2018.12.030>
943. Smith, W. K., Dannenberg, M. P., Yan, D., Herrmann, S., Barnes, M. L., Barron-Gafford, G. A., Biederman, J. A., Ferrenberg, S., Fox, A. M., Hudson, A., Knowles, J. F., MacBean, N., Moore, D. J. P., Nagler, P. L., Reed, S. C., Rutherford, W. A., Scott, R. L., Wang, X., & Yang, J. (2019). Remote sensing of dryland ecosystem structure and

function: Progress, challenges, and opportunities. *Remote Sensing of Environment*, 233, 111401. <https://doi.org/10.1016/j.rse.2019.111401>

944. Sousa, D., & Small, C. (2019). Mapping and Monitoring Rice Agriculture with Multisensor Temporal Mixture Models. *Remote Sensing*, 11(2), 181. <https://doi.org/10.3390/rs11020181>
945. Sousa, D., Small, C., Spalton, A., & Kwarteng, A. (2019). Coupled Spatiotemporal Characterization of Monsoon Cloud Cover and Vegetation Phenology. *Remote Sensing*, 11(10), 1203. <https://doi.org/10.3390/rs11101203>
946. Stensgaard, A.-S., Rinaldi, L., & Bergquist, R. (2019). The future is now: New United Nations' Sustainable Development Goals report provides a perspective on vector-borne diseases. *Geospatial Health*, 14(2). <https://doi.org/10.4081/gh.2019.828>
947. Stillinger, T., Roberts, D. A., Collar, N. M., & Dozier, J. (2019). Cloud Masking for Landsat 8 and MODIS Terra Over Snow-Covered Terrain: Error Analysis and Spectral Similarity Between Snow and Cloud. *Water Resources Research*, 55(7), 6169–6184. <https://doi.org/10.1029/2019WR024932>
948. Stoy, P. C., El-Madany, T. S., Fisher, J. B., Gentine, P., Gerken, T., Good, S. P., Klosterhalfen, A., Liu, S., Miralles, D. G., Perez-Priego, O., Rigden, A. J., Skaggs, T. H., Wohlfahrt, G., Anderson, R. G., Coenders-Gerrits, A. M. J., Jung, M., Maes, W. H., Mammarella, I., Mauder, M., ... Wolf, S. (2019). Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities. *Biogeosciences*, 16(19), 3747–3775. <https://doi.org/10.5194/bg-16-3747-2019>
949. Sun, P., Wu, Y., Xiao, J., Hui, J., Hu, J., Zhao, F., Qiu, L., & Liu, S. (2019). Remote sensing and modeling fusion for investigating the ecosystem water-carbon coupling processes. *Science of The Total Environment*, 697, 134064. <https://doi.org/10.1016/j.scitotenv.2019.134064>
950. Voosen, P. (2019). Space station finds a calling. *Science*, 364(6439), 421–421. <https://doi.org/10.1126/science.364.6439.421>
951. Wulder, M. A., Loveland, T. R., Roy, D. P., Crawford, C. J., Masek, J. G., Woodcock, C. E., Allen, R. G., Anderson, M. C., Belward, A. S., Cohen, W. B., Dwyer, J., Erb, A., Gao, F., Griffiths, P., Helder, D., Hermosilla, T., Hipple, J. D., Hostert, P., Hughes, M. J., ... Zhu, Z. (2019). Current status of Landsat program, science, and applications. *Remote Sensing of Environment*, 225, 127–147. <https://doi.org/10.1016/j.rse.2019.02.015>

952. Xiao, J., Chevallier, F., Gomez, C., Guanter, L., Hicke, J. A., Huete, A. R., Ichii, K., Ni, W., Pang, Y., Rahman, A. F., Sun, G., Yuan, W., Zhang, L., & Zhang, X. (2019). Remote sensing of the terrestrial carbon cycle: A review of advances over 50 years. *Remote Sensing of Environment*, 233, 111383. <https://doi.org/10.1016/j.rse.2019.111383>
953. Yang, W., Kobayashi, H., Wang, C., Shen, M., Chen, J., Matsushita, B., Tang, Y., Kim, Y., Bret-Harte, M. S., Zona, D., Oechel, W., & Kondoh, A. (2019). A semi-analytical snow-free vegetation index for improving estimation of plant phenology in tundra and grassland ecosystems. *Remote Sensing of Environment*, 228, 31–44. <https://doi.org/10.1016/j.rse.2019.03.028>
954. Zheng, X., Li, Z.-L., Nerry, F., & Zhang, X. (2019). A new thermal infrared channel configuration for accurate land surface temperature retrieval from satellite data. *Remote Sensing of Environment*, 231, 111216. <https://doi.org/10.1016/j.rse.2019.111216>
955. Ambinakudige, S., Inamdar, P., & Loffata, A. (2018). A Spectral Analysis of Snow in Mt. Rainier. *Journal of Geography and Geology*, 10(3).
956. Anderson, M., Gao, F., Knipper, K., Hain, C., Dulaney, W., Baldocchi, D., Eichelmann, E., Hemes, K., Yang, Y., & Medellin-Azuara, J. (2018). Field-scale assessment of land and water use change over the California Delta using remote sensing. *Remote Sensing of Environment*, 10(6), 889.
957. Aragon, B., Houborg, R., Tu, K., Fisher, J. B., & McCabe, M. (2018). CubeSats enable high spatiotemporal retrievals of crop-water use for precision agriculture. *Remote Sensing*, 10(12).
958. Boubanga-Tombet, S., Huot, A., Vitins, I., Heuberger, S., Veuve, C., Eisele, A., Hewson, R., Guyot, E., Marcotte, F., & Chamberland, M. (2018). Thermal infrared hyperspectral imaging for mineralogy mapping of a mine face. *Remote Sensing*, 10(10).
959. Cawse-Nicholson, K., Fisher, J. B., Famiglietti, C. A., Braverman, A., Schwandner, F. M., Lewicki, J. L., Townsend, P. A., Schimel, D. S., Pavlick, R., Bormann, K. J., Ferraz, A., Kang, E. L., Ma, P., Bogue, R. R., Youmans, T., & Pieri, D. C. (2018). Ecosystem responses to elevated CO₂ using airborne remote sensing at Mammoth Mountain, California. *Biogeosciences*, 15(24), 7403–7418. <https://doi.org/10.5194/bg-15-7403-2018>
960. Fisher, J. B., Hayes, D. J., Schwalm, C. R., Huntzinger, D. N., Stofferahn, E., Schaefer, K., Luo, Y., Wullschleger, S. D., Goetz, S., Miller, C. E., Griffith, P., Chadburn, S., Chatterjee, A., Ciais, P., Douglas, T. A., Genet, H., Ito, A., Neigh, C. S. R., Poulter, B.,

... Zhang, Z. (2018). Missing pieces to modeling the Arctic-Boreal puzzle. *Environmental Research Letters*, 13(2), 020202. <https://doi.org/10.1088/1748-9326/aa9d9a>

961. French, A., Hunsaker, D., Bounoua, L., Karnieli, A., Lueck, W., & Strand, R. (2018). Remote Sensing of Evapotranspiration over the Central Arizona Irrigation and Drainage District, USA. *Agronomy*, 8(12), 278. <https://doi.org/10.3390/agronomy8120278>
962. Frölicher, T. L., & Laufkötter, C. (2018). Emerging risks from marine heat waves. *Nature Communications*, 9(1), 650. <https://doi.org/10.1038/s41467-018-03163-6>
963. Fujii, Y., Angerhausen, D., Deitrick, R., Domagal-Goldman, S., Grenfell, J. L., Hori, Y., Kane, S. R., Pallé, E., Rauer, H., Siegler, N., Stapelfeldt, K., & Stevenson, K. B. (2018). Exoplanet Biosignatures: Observational Prospects. *Astrobiology*, 18(6), 739–778. <https://doi.org/10.1089/ast.2017.1733>
964. Galle, S., Grippa, M., Peugeot, C., Moussa, I. B., Cappelaere, B., Demarty, J., Mougín, E., Panthou, G., Adjomayi, P., Agbossou, E. K., Ba, A., Boucher, M., Cohard, J.-M., Descloitres, M., Descroix, L., Diawara, M., Dossou, M., Favreau, G., Gangneron, F., ... Wilcox, C. (2018). AMMA-CATCH, a Critical Zone Observatory in West Africa Monitoring a Region in Transition. *Vadose Zone Journal*, 17(1), 180062. <https://doi.org/10.2136/vzj2018.03.0062>
965. Gerhards, M., Schlerf, M., Rascher, U., Udelhoven, T., Juszczak, R., Alberti, G., Miglietta, F., & Inoue, Y. (2018). Analysis of Airborne Optical and Thermal Imagery for Detection of Water Stress Symptoms. *Remote Sensing*, 10(7), 1139. <https://doi.org/10.3390/rs10071139>
966. 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>
967. Hulley, G. C., Malakar, N. K., Islam, T., & Freepartner, R. J. (2018). NASA's MODIS and VIIRS Land Surface Temperature and Emissivity Products: A Long-Term and Consistent Earth System Data Record. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 11(2), 522–535. <https://doi.org/10.1109/JSTARS.2017.2779330>
968. Joiner, J., Yoshida, Y., Anderson, M., Holmes, T., Hain, C., Reichle, R., Koster, R., Middleton, E., & Zeng, F.-W. (2018). Global relationships among traditional reflectance vegetation indices (NDVI and NDII), evapotranspiration (ET), and soil moisture

variability on weekly timescales. *Remote Sensing of Environment*, 219, 339–352. <https://doi.org/10.1016/j.rse.2018.10.020>

969. Lu, Y., & Zhang, F. (2018). A Novel Channel-Synthesizing Method for Reducing Uncertainties in Satellite Radiative Transfer Modeling. *Geophysical Research Letters*, 45(10), 5115–5125. <https://doi.org/10.1029/2018GL077342>
970. Malbêteau, Y., Parkes, S., Aragon, B., Rosas, J., & McCabe, M. (2018). Capturing the Diurnal Cycle of Land Surface Temperature Using an Unmanned Aerial Vehicle. *Remote Sensing*, 10(9), 1407. <https://doi.org/10.3390/rs10091407>
971. Pascucci, S., Carfora, M., Palombo, A., Pignatti, S., Casa, R., Pepe, M., & Castaldi, F. (2018). A Comparison between Standard and Functional Clustering Methodologies: Application to Agricultural Fields for Yield Pattern Assessment. *Remote Sensing*, 10(4), 585. <https://doi.org/10.3390/rs10040585>
972. Pasetto, D., Arenas-Castro, S., Bustamante, J., Casagrandi, R., Chrysoulakis, N., Cord, A. F., Ditrach, A., Domingo-Marimon, C., El Serafy, G., & Karnieli, A. (2018). Integration of satellite remote sensing data in ecosystem modelling at local scales: Practices and trends. *Methods in Ecology and Evolution*, 9(8), 1810–1821.
973. 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>
974. Sheffield, J., Wood, E. F., Pan, M., Beck, H., Coccia, G., Serrat-Capdevila, A., & Verbist, K. (2018). Satellite remote sensing for water resources management: Potential for supporting sustainable development in data-poor regions. *Water Resources Research*, 54(12), 9724–9758.
975. Wang, W., Nemani, R., Hashimoto, H., Ganguly, S., Huang, D., Knyazikhin, Y., Myneni, R., & Bala, G. (2018). An Interplay between Photons, Canopy Structure, and Recollision Probability: A Review of the Spectral Invariants Theory of 3D Canopy Radiative Transfer Processes. *Remote Sensing*, 10(11), 1805. <https://doi.org/10.3390/rs10111805>
976. Yang, B., Emerson, S. R., & Peña, M. A. (2018). The effect of the 2013–2016 high temperature anomaly in the subarctic Northeast Pacific (the “Blob”) on net community production. *Biogeosciences*, 15(21), 6747–6759. <https://doi.org/10.5194/bg-15-6747-2018>
977. Yang, Y., Anderson, M. C., Gao, F., Wardlow, B., Hain, C. R., Otkin, J. A., Alfieri, J., Yang, Yun, Sun, L., & Dulaney, W. (2018). Field-scale mapping of evaporative stress

indicators of crop yield: An application over Mead, NE, USA. *Remote Sensing of Environment*, 210, 387–402. <https://doi.org/10.1016/j.rse.2018.02.020>

978. Yerasi, A., Tandy, W. D., & Emery, W. J. (2018). Comparing the theoretical performances of 1.65- and 3.3- μm differential absorption lidar systems used for airborne remote sensing of natural gas leaks. *Journal of Applied Remote Sensing*, 12(02), 1. <https://doi.org/10.1117/1.JRS.12.026030>
979. Akbari, E., Alavipanah, S. K., Jeihouni, M., Hajeb, M., Haase, D., & Alavipanah, S. K. (2017). A review of ocean/sea subsurface water temperature studies from remote sensing and non-remote sensing methods. *Water*, 9(12), 936.
980. Akbari, Elahe, Alavipanah, Seyed, Jeihouni, M., Hajeb, M., Haase, D., & Alavipanah, Sadroddin. (2017). A Review of Ocean/Sea Subsurface Water Temperature Studies from Remote Sensing and Non-Remote Sensing Methods. *Water*, 9(12), 936. <https://doi.org/10.3390/w9120936>
981. Fisher, J. B., Melton, F., Middleton, E., Hain, C., Anderson, M., Allen, R., McCabe, M. F., Hook, S., Baldocchi, D., Townsend, P. A., Kilic, A., Tu, K., Miralles, D. D., Perret, J., Lagouarde, J.-P., Waliser, D., Purdy, A. J., French, A., Schimel, D., ... Wood, E. F. (2017). The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources. *Water Resources Research*, 53(4), 2618–2626. <https://doi.org/10.1002/2016WR020175>
982. Guan, K., Wu, J., Kimball, J. S., Anderson, M. C., Frohling, S., Li, B., Hain, C. R., & Lobell, D. B. (2017). The shared and unique values of optical, fluorescence, thermal and microwave satellite data for estimating large-scale crop yields. *Remote Sensing of Environment*, 199, 333–349. <https://doi.org/10.1016/j.rse.2017.06.043>
983. Hulley, G., Hook, S., Fisher, J., & Lee, C. (2017). ECOSTRESS, A NASA Earth-Ventures Instrument for studying links between the water cycle and plant health over the diurnal cycle. *2017 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 5494–5496. <https://doi.org/10.1109/IGARSS.2017.8128248>
984. Jimenez, C., Martens, B., Miralles, D., Fisher, J., Beck, H., & Fernández-Prieto, D. (2017). Local tower-based merging of two land evaporation products. *Hydrology and Earth System Sciences Discussions*, 1–41. <https://doi.org/10.5194/hess-2017-573>
985. McCabe, M. F., Rodell, M., Alsdorf, D. E., Miralles, D. G., Uijlenhoet, R., Wagner, W., Lucieer, A., Houborg, R., Verhoest, N. E. C., Franz, T. E., Shi, J., Gao, H., & Wood, E.

- F. (2017). The future of Earth observation in hydrology. *Hydrology and Earth System Sciences*, 21(7), 3879–3914. <https://doi.org/10.5194/hess-21-3879-2017>
986. Nakamura, A., Kitching, R. L., Cao, M., Creedy, T. J., Fayle, T. M., Freiberg, M., Hewitt, C. N., Itioka, T., Koh, L. P., Ma, K., Malhi, Y., Mitchell, A., Novotny, V., Ozanne, C. M. P., Song, L., Wang, H., & Ashton, L. A. (2017). Forests and Their Canopies: Achievements and Horizons in Canopy Science. *Trends in Ecology & Evolution*, 32(6), 438–451. <https://doi.org/10.1016/j.tree.2017.02.020>
987. Stavros, E. N., Schimel, D., Pavlick, R., Serbin, S., Swann, A., Duncanson, L., Fisher, J. B., Fassnacht, F., Ustin, S., Dubayah, R., Schweiger, A., & Wennberg, P. (2017). ISS observations offer insights into plant function. *Nature Ecology & Evolution*, 1(7), 0194. <https://doi.org/10.1038/s41559-017-0194>
988. Sun, L., Anderson, M. C., Gao, F., Hain, C., Alfieri, J. G., Sharifi, A., McCarty, G. W., Yang, Yun, Yang, Yang, Kustas, W. P., & McKee, L. (2017). Investigating water use over the *C* hoptank *R* iver *W* atershed using a multisatellite data fusion approach. *Water Resources Research*, 53(7), 5298–5319. <https://doi.org/10.1002/2017WR020700>
989. Udelhoven, T., Schlerf, M., Segl, K., Mallick, K., Bossung, C., Retzlaff, R., Rock, G., Fischer, P., Müller, A., Storch, T., Eisele, A., Weise, D., Hupfer, W., & Knigge, T. (2017). A Satellite-Based Imaging Instrumentation Concept for Hyperspectral Thermal Remote Sensing. *Sensors*, 17(7), 1542. <https://doi.org/10.3390/s17071542>
990. Duffour, C., Lagouarde, J.-P., Oliosio, A., Demarty, J., & Roujean, J.-L. (2016). Driving factors of the directional variability of thermal infrared signal in temperate regions. *Remote Sensing of Environment*, 177, 248–264. <https://doi.org/10.1016/j.rse.2016.02.024>
991. Fisher, J. B., Sweeney, S., Brzostek, E. R., Evans, T. P., Johnson, D. J., Myers, J. A., Bourg, N. A., Wolf, A. T., Howe, R. W., & Phillips, R. P. (2016). Tree-mycorrhizal associations detected remotely from canopy spectral properties. *Global Change Biology*, 22(7), 2596–2607. <https://doi.org/10.1111/gcb.13264>
992. Lausch, A., Erasmi, S., King, D., Magdon, P., & Heurich, M. (2016). Understanding Forest Health with Remote Sensing -Part I—A Review of Spectral Traits, Processes and Remote-Sensing Characteristics. *Remote Sensing*, 8(12), 1029. <https://doi.org/10.3390/rs8121029>
993. Meerdink, S. K., Roberts, D. A., King, J. Y., Roth, K. L., Dennison, P. E., Amaral, C. H., & Hook, S. J. (2016). Linking seasonal foliar traits to VSWIR-TIR spectroscopy across

California ecosystems. *Remote Sensing of Environment*, 186, 322–338.
<https://doi.org/10.1016/j.rse.2016.08.003>

994. Ramsey, M. S., Harris, A. J. L., & Crown, D. A. (2016). What can thermal infrared remote sensing of terrestrial volcanoes tell us about processes past and present on Mars? *Journal of Volcanology and Geothermal Research*, 311, 198–216.
<https://doi.org/10.1016/j.jvolgeores.2016.01.012>
995. Reed, D., Washburn, L., Rassweiler, A., Miller, R., Bell, T., & Harrer, S. (2016). Extreme warming challenges sentinel status of kelp forests as indicators of climate change. *Nature Communications*, 7(1), 13757. <https://doi.org/10.1038/ncomms13757>
996. Abrams, M., Tsu, H., Hulley, G., Iwao, K., Pieri, D., Cudahy, T., & Kargel, J. (2015). The advanced spaceborne thermal emission and reflection radiometer (ASTER) after fifteen years: review of global products. *International Journal of Applied Earth Observation and Geoinformation*, 38, 292–301. <https://doi.org/10.1016/j.jag.2015.01.013>
997. Hochberg, E. J., Roberts, D. A., Dennison, P. E., & Hulley, G. C. (2015). Special issue on the Hyperspectral Infrared Imager (HyspIRI): Emerging science in terrestrial and aquatic ecology, radiation balance and hazards. *Remote Sensing of Environment*, 167, 1–5. <https://doi.org/10.1016/j.rse.2015.06.011>
998. Houborg, R., Fisher, J. B., & Skidmore, A. K. (2015). Advances in remote sensing of vegetation function and traits. *International Journal of Applied Earth Observation and Geoinformation*, 43, 1–6. <https://doi.org/10.1016/j.jag.2015.06.001>
999. Lee, C. M., Cable, M. L., Hook, S. J., Green, R. O., Ustin, S. L., Mandl, D. J., & Middleton, E. M. (2015). An introduction to the NASA Hyperspectral InfraRed Imager (HyspIRI) mission and preparatory activities. *Remote Sensing of Environment*, 167, 6–19. <https://doi.org/10.1016/j.rse.2015.06.012>
1000. Schimel, D., Pavlick, R., Fisher, J. B., Asner, G. P., Saatchi, S., Townsend, P., Miller, C., Frankenberg, C., Hibbard, K., & Cox, P. (2015). Observing terrestrial ecosystems and the carbon cycle from space. *Global Change Biology*, 21(5), 1762–1776.
<https://doi.org/10.1111/gcb.12822>
1001. Struthers, R., Ivanova, A., Tits, L., Swennen, R., & Coppin, P. (2015). Thermal infrared imaging of the temporal variability in stomatal conductance for fruit trees. *International Journal of Applied Earth Observation and Geoinformation*, 39, 9–17.
<https://doi.org/10.1016/j.jag.2015.02.006>

1002. Klemas, V. (2013). Fisheries applications of remote sensing: An overview. *Fisheries Research*, 148, 124–136. <https://doi.org/10.1016/j.fishres.2012.02.027>
1003. Scheidt, C., & Caers, J. (2008). Representing Spatial Uncertainty Using Distances and Kernels. *Mathematical Geosciences*, 41(4), 397. <https://doi.org/10.1007/s11004-008-9186-0>