# SUPPLEMENTARY DATA

**Supplementary Material S1.** List of all references from the corpus.

Aboutalebi, M., Torres-Rua, A. F., McKee, M., Kustas, W. P., Nieto, H., Alsina, M. M., White, A., Prueger, J. H., McKee, L., Alfieri, J., Hipps, L., Coopmans, C., Sanchez, L., & Dokoozlian, N. (2022). Downscaling UAV land surface temperature using a coupled wavelet-machine learning-optimization algorithm and its impact on evapotranspiration. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 553–574). https://doi.org/10.1007/s00271-022-00801-2

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. In AGRICULTURAL WATER MANAGEMENT (Vol. 260). https://doi.org/10.1016/j.agwat.2021.107320

Badraghi, A., Novotna, B., Frouz, J., Kristof, K., Trakovicky, M., Juriga, M., Chvila, B., & Montagnani, L. (2023). Temporal Dynamics of CO2 Fluxes over a Non-Irrigated Vineyard. In LAND (Vol. 12, Issue 10). https://doi.org/10.3390/land12101925

Balbontin-Nesvara, C., Calera-Belmonte, A., Gonzalez-Piqueras, J., Campos-Rodriguez, I., Llanos Lopez-Gonzalez, M., & Torres-Prieto, E. (2011). VINEYARD EVAPOTRANSPIRATION MEASURAMENTS IN A SEMIARID ENVIRONMENT: EDDY COVARIANCE AND BOWEN RATIO COMPARISON. In AGROCIENCIA (Vol. 45, Issue 1, pp. 87–103).

Bambach, N., Kustas, W., Alfieri, J., Prueger, J., Hipps, L., McKee, L., Castro, S. J., Volk, J., Alsina, M. M., & McElrone, A. J. (2022). Evapotranspiration uncertainty at micrometeorological scales: The impact of the eddy covariance energy imbalance and correction methods. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 445–461). https://doi.org/10.1007/s00271-022-00783-1

Bhattarai, N., D'Urso, G., Kustas, W. P., Bambach-Ortiz, N., Anderson, M., McElrone, A. J., Knipper, K. R., Gao, F., Alsina, M. M., Aboutalebi, M., Mckee, L., Alfieri, J. G., Prueger, J. H., & Belfiore, O. R. (2022). Influence of modeling domain and meteorological forcing data on daily evapotranspiration estimates from a Shuttleworth-Wallace model using Sentinel-2 surface reflectance data. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 497–513). https://doi.org/10.1007/s00271-022-00768-0

Burchard-Levine, V., Borra-Serrano, I., Pena, J. M., Kustas, W. P., Guerra, J. G., Dorado, J., Mesias-Ruiz, G., Herrezuelo, M., Mary, B., Mckee, L. M., de Castro, A. I., Sanchez-Elez, S., &

Nieto, H. (2025). Evaluating the precise grapevine water stress detection using unmanned aerial vehicles and evapotranspiration-based metrics. In IRRIGATION SCIENCE (Vol. 43, Issues 1, SI, pp. 65–85). https://doi.org/10.1007/s00271-024-00931-9

Burchard-Levine, V., Nieto, H., Kustas, W. P., Gao, F., Alfieri, J. G., Prueger, J. H., Hipps, L. E., Bambach-Ortiz, N., McElrone, A. J., Castro, S. J., Mar Alsina, M., McKee, L. G., Zahn, E., Bou-Zeid, E., & Dokoozlian, N. (2022). Application of a remote-sensing three-source energy balance model to improve evapotranspiration partitioning in vineyards. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 593–608). https://doi.org/10.1007/s00271-022-00787-x

Callesen, T. O., Gonzalez, C. V., Campos, F. B., Zanotelli, D., Tagliavini, M., & Montagnani, L. (2023). Understanding carbon sequestration, allocation, and ecosystem storage in a grassed vineyard. In GEODERMA REGIONAL (Vol. 34). https://doi.org/10.1016/j.geodrs.2023.e00674

Campos, F. B., Callesen, T. O., Alberti, G., Montagnani, L., Tagliavini, M., & Zanotelli, D. (2024). Meteorological Drivers of Vineyard Water Vapor Loss and Water use Efficiency During dry Days. IEEE Transactions on AgriFood Electronics, 1–7. https://doi.org/10.1109/TAFE.2024.3466552

Campos, F. B., Callesen, T. O., Gonzalez, C. V., Alberti, G., Montagnani, L., Tagliavini, M., Nelson, J. A., & Zanotelli, D. (2025). Evapotranspiration Dynamics and Partitioning in a Grassed Vineyard: Ecophysiological and Computational Modeling Approaches. In WATER RESOURCES RESEARCH (Vol. 61, Issue 3). https://doi.org/10.1029/2023WR035360

Campos, I., Neale, C. M. U., Calera, A., Balbontin, C., & Gonzalez-Piqueras, J. (2010). Assessing satellite-based basal crop coefficients for irrigated grapes (Vitis vinifera L). In AGRICULTURAL WATER MANAGEMENT (Vol. 98, Issue 1, pp. 45–54). https://doi.org/10.1016/j.agwat.2010.07.011

Carrasco-Benavides, M., Ortega-Farias, S., Lagos, L. O., Kleissl, J., Morales, L., Poblete-Echeverria, C., & Allen, R. G. (2012). Crop coefficients and actual evapotranspiration of a drip-irrigated Merlot vineyard using multispectral satellite images. In IRRIGATION SCIENCE (Vol. 30, Issue 6, pp. 485–497). https://doi.org/10.1007/s00271-012-0379-4

Carrasco-Benavides, M., Ortega-Farias, S., Morales-Salinas, L., Poblete-Echeverria, C., & Chavez, J. L. (2017). Calibration and validation of an aerodynamic method to estimate the spatial variability of sensible and latent heat fluxes over a drip-irrigated Merlot vineyard. In INTERNATIONAL JOURNAL OF REMOTE SENSING (Vol. 38, Issue 24, pp. 7473–7496). https://doi.org/10.1080/01431161.2017.1317943

Carrasco-Benavides, M., Ortega-Farias, S., Octavio Lagos, L., Kleissl, J., Morales-Salinas, L., & Kilic, A. (2014). Parameterization of the Satellite-Based Model (METRIC) for the Estimation of

Instantaneous Surface Energy Balance Components over a Drip-Irrigated Vineyard. In REMOTE SENSING (Vol. 6, Issue 11, pp. 11342–11371). https://doi.org/10.3390/rs61111342

Chen, H., Zhu, Y., Zhu, G., Zhang, Y., He, L., Xu, C., Zhang, K., Wang, J., Ayyamperumal, R., Fan, H., & Wang, B. (2024). Energy partitioning over an irrigated vineyard in arid northwest China: Variation characteristics, influence degree, and path of influencing factors. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 350). https://doi.org/10.1016/j.agrformet.2024.109972

Chiriaco, M. V., Belli, C., Chiti, T., Trotta, C., & Sabbatini, S. (2019). The potential carbon neutrality of sustainable viticulture showed through a comprehensive assessment of the greenhouse gas (GHG) budget of wine production. In JOURNAL OF CLEANER PRODUCTION (Vol. 225, pp. 435–450). https://doi.org/10.1016/j.jclepro.2019.03.192

Dold, C., Heitman, J., Giese, G., Howard, A., Havlin, J., & Sauer, T. (2019). Upscaling Evapotranspiration with Parsimonious Models in a North Carolina Vineyard. In AGRONOMY-BASEL (Vol. 9, Issue 3). https://doi.org/10.3390/agronomy9030152

D'Urso, G., Bolognesi, S. F., Kustas, W. P., Knipper, K. R., Anderson, M. C., Alsina, M. M., Hain, C. R., Alfieri, J. G., Prueger, J. H., Gao, F., McKee, L. G., De Michele, C., McElrone, A. J., Bambach, N., Sanchez, L., & Belfiore, O. R. (2021). Determining Evapotranspiration by Using Combination Equation Models with Sentinel-2 Data and Comparison with Thermal-Based Energy Balance in a California Irrigated Vineyard. In REMOTE SENSING (Vol. 13, Issue 18). https://doi.org/10.3390/rs13183720

Egipto, R., Aquino, A., & Andujar, J. M. (2024). Dynamics of Energy Fluxes in a Mediterranean Vineyard: Influence of Soil Moisture. In AGRICULTURE-BASEL (Vol. 14, Issue 10). https://doi.org/10.3390/agriculture14101845

Egipto, R. J. L., Aquino, A., & Andujar, J. M. (2024). Predicting the canopy conductance to water vapor of grapevines using a biophysical model in a hot and arid climate. In FRONTIERS IN PLANT SCIENCE (Vol. 15). https://doi.org/10.3389/fpls.2024.1334215

Er-Raki, S., Rodriguez, J. C., Garatuza-Payan, J., Watts, C. J., & Chehbouni, A. (2013). Determination of crop evapotranspiration of table grapes in a semi-arid region of Northwest Mexico using multi-spectral vegetation index. In AGRICULTURAL WATER MANAGEMENT (Vol. 122, pp. 12–19). https://doi.org/10.1016/j.agwat.2013.02.007

Ferreira, M. I., Silvestre, J., Conceicao, N., & Malheiro, A. C. (2012). Crop and stress coefficients in rainfed and deficit irrigation vineyards using sap flow techniques. In IRRIGATION SCIENCE (Vol. 30, Issues 5, SI, pp. 433–447). https://doi.org/10.1007/s00271-012-0352-2

Fuentes, S., Ortega-Farias, S., Carrasco-Benavides, M., Tongson, E., & Viejo, C. G. (2024). Actual evapotranspiration and energy balance estimation from vineyards using micro-meteorological data and machine learning modeling. In AGRICULTURAL WATER MANAGEMENT (Vol. 297). https://doi.org/10.1016/j.agwat.2024.108834

Galleguillos, M., Jacob, F., Prevot, L., Faundez, C., & Bsaibes, A. (2017). Estimation of actual evapotranspiration over a rainfed vineyard using a 1-D water transfer model: A case study within a Mediterranean watershed. In AGRICULTURAL WATER MANAGEMENT (Vol. 184, pp. 67–76). https://doi.org/10.1016/j.agwat.2017.01.006

Gao, L., Kang, S., Bai, X., Li, S., Niu, J., & Ding, R. (2021). Water-carbon relationships and variations from the canopy to ecosystem scale in a sparse vineyard in the northwest China. In JOURNAL OF HYDROLOGY (Vol. 600). https://doi.org/10.1016/j.jhydrol.2021.126469

Gao, L., Zhao, P., Kang, S., Li, S., Tong, L., Ding, R., & Lu, H. (2019). Surface soil water content dominates the difference between ecosystem and canopy water use efficiency in a sparse vineyard. In AGRICULTURAL WATER MANAGEMENT (Vol. 226). https://doi.org/10.1016/j.agwat.2019.105817

Gao, L., Zhao, P., Kang, S., Li, S., Tong, L., Ding, R., & Lu, H. (2020). Comparison of evapotranspiration and energy partitioning related to main biotic and abiotic controllers in vineyards using different irrigation methods. In FRONTIERS OF AGRICULTURAL SCIENCE AND ENGINEERING (Vol. 7, Issue 4, pp. 490–504). https://doi.org/10.15302/J-FASE-2019310

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. In REMOTE SENSING (Vol. 15, Issue 3). https://doi.org/10.3390/rs15030756

Garcia-Gutierrez, V., Stockle, C., Gil, P. M., & Meza, F. J. (2021). Evaluation of Penman-Monteith Model Based on Sentinel-2 Data for the Estimation of Actual Evapotranspiration in Vineyards. In REMOTE SENSING (Vol. 13, Issue 3). https://doi.org/10.3390/rs13030478

Garcia-Rodriguez, D., Ruber, P. C., Fuente, D. J. I., Dura, J. J. M., Baeza, E. L., & Celda, A. G. (2024). Predicting the fundamental fluxes of an eddy-covariance station using machine learning methods. In ECOLOGICAL INFORMATICS (Vol. 81). https://doi.org/10.1016/j.ecoinf.2024.102638

Geli, H. M. E., Gonzalez-Piqueras, J., Neale, C. M. U., Balbontin, C., Campo, I., & Calera, A. (2020). Effects of Surface Heterogeneity Due to Drip Irrigation on Scintillometer Estimates of

Sensible, Latent Heat Fluxes and Evapotranspiration over Vineyards. In WATER (Vol. 12, Issue 1). https://doi.org/10.3390/w12010081

Gianelle, D., Gristina, L., Pitacco, A., Spano, D., La Mantia, T., Marras, S., Meggio, F., Novara, A., Sirca, C., & Sottocornola, M. (2015). The Role of Vineyards in the Carbon Balance Throughout Italy. In R. Valentini & F. Miglietta (Eds), The Greenhouse Gas Balance of Italy (pp. 159–171). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-32424-6_11

Green, A., Green, S., Astill, M., & Caspari, H. (2000). Estimating latent heat flux from a vineyard using scintillometry. In TERRESTRIAL ATMOSPHERIC AND OCEANIC SCIENCES (Vol. 11, Issue 2, pp. 525–542). https://doi.org/10.3319/TAO.2000.11.2.525(A)

Guo, W. H., Kang, S. Z., Li, F. S., & Li, S. E. (2014). Variation of NEE and its affecting factors in a vineyard of arid region of northwest China. In ATMOSPHERIC ENVIRONMENT (Vol. 84, pp. 349–354). https://doi.org/10.1016/j.atmosenv.2013.11.057

Holland, S., Heitman, J. L., Howard, A., Sauer, T. J., Giese, W., Ben-Gal, A., Agam, N., Kool, D., & Havlin, J. (2013). Micro-Bowen ratio system for measuring evapotranspiration in a vineyard interrow. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 177, pp. 93–100). https://doi.org/10.1016/j.agrformet.2013.04.009

Kisekka, I., Peddinti, S. R., Kustas, W. P., McElrone, A. J., Bambach-Ortiz, N., McKee, L., & Bastiaanssen, W. (2022). Spatial-temporal modeling of root zone soil moisture dynamics in a vineyard using machine learning and remote sensing. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 761–777). https://doi.org/10.1007/s00271-022-00775-1

Knipper, K., Anderson, M., Bambach, N., Kustas, W., Gao, F., Zahn, E., Hain, C., McElrone, A., Belfiore, O. R., Castro, S., Alsina, M. M., & Saa, S. (2023). Evaluation of Partitioned Evaporation and Transpiration Estimates within the DisALEXI Modeling Framework over Irrigated Crops in California. In REMOTE SENSING (Vol. 15, Issue 1). https://doi.org/10.3390/rs15010068

Knipper, K. R., Kustas, W. P., Anderson, M. C., Nieto, H., Alfieri, J. G., Prueger, J. H., Hain, C. R., Gao, F., McKee, L. G., Alsina, M. M., & Sanchez, L. (2020). Using high-spatiotemporal thermal satellite ET retrievals to monitor water use over California vineyards of different climate, vine variety and trellis design. In AGRICULTURAL WATER MANAGEMENT (Vol. 241). https://doi.org/10.1016/j.agwat.2020.106361

Kool, D., Kustas, W. P., Ben-Gal, A., Lazarovitch, N., Heitman, J. L., Sauer, T. J., & Agam, N. (2016). Energy and evapotranspiration partitioning in a desert vineyard. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 218, pp. 277–287). https://doi.org/10.1016/j.agrformet.2016.01.002

Kustas, W. P., Agam, N., Alfieri, J. G., McKee, L. G., Prueger, J. H., Hipps, L. E., Howard, A. M., & Heitman, J. L. (2019). Below canopy radiation divergence in a vineyard: Implications on interrow surface energy balance. In IRRIGATION SCIENCE (Vol. 37, Issues 3, SI, pp. 227–237). https://doi.org/10.1007/s00271-018-0601-0

Kustas, W. P., Alfieri, J. G., Nieto, H., Wilson, T. G., Gao, F., & Anderson, M. C. (2019). Utility of the two-source energy balance (TSEB) model in vine and interrow flux partitioning over the growing season. In IRRIGATION SCIENCE (Vol. 37, Issues 3, SI, pp. 375–388). https://doi.org/10.1007/s00271-018-0586-8

Kustas, W. P., Nieto, H., Garcia-Tejera, O., Bambach, N., McElrone, A. J., Gao, F., Alfieri, J. G., Hipps, L. E., Prueger, J. H., Torres-Rua, A., Anderson, M. C., Knipper, K., Alsina, M. M., McKee, L. G., Zahn, E., Bou-Zeid, E., & Dokoozlian, N. (2022). Impact of advection on two-source energy balance (TSEB) canopy transpiration parameterization for vineyards in the California Central Valley. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 575–591). https://doi.org/10.1007/s00271-022-00778-y

Li, S., Hao, X., Du, T., Tong, L., Zhang, J., & Kang, S. (2014). A coupled surface resistance model to estimate crop evapotranspiration in arid region of northwest China. In HYDROLOGICAL PROCESSES (Vol. 28, Issue 4, pp. 2312–2323). https://doi.org/10.1002/hyp.9768

Li, S., Kang, S., Li, F., Zhang, L., & Zhang, B. (2008). Vineyard evaporative fraction based on eddy covariance in an and desert region of Northwest China. In AGRICULTURAL WATER MANAGEMENT (Vol. 95, Issue 8, pp. 937–948). https://doi.org/10.1016/j.agwat.2008.03.005

Li, S., Kang, S., Zhang, L., Du, T., Tong, L., Ding, R., Guo, W., Zhao, P., Chen, X., & Xiao, H. (2015). Ecosystem water use efficiency for a sparse vineyard in arid northwest China. In AGRICULTURAL WATER MANAGEMENT (Vol. 148, pp. 24–33). https://doi.org/10.1016/j.agwat.2014.08.011

Li, S., Kang, S., Zhang, L., Li, F., Hao, X., Ortega-Farias, S., Guo, W., Ji, S., Wang, J., & Jiang, X. (2013). Quantifying the combined effects of climatic, crop and soil factors on surface resistance in a maize field. In JOURNAL OF HYDROLOGY (Vol. 489, pp. 124–134). https://doi.org/10.1016/j.jhydrol.2013.03.002

Li, S., Kang, S., Zhang, L., Li, F., Zhu, Z., & Zhang, B. (2008). A comparison of three methods for determining vineyard evapotranspiration in the and desert regions of northwest China. In HYDROLOGICAL PROCESSES (Vol. 22, Issue 23, pp. 4554–4564). https://doi.org/10.1002/hyp.7059

Li, S., Kang, S., Zhang, L., Zhang, J., Du, T., Tong, L., & Ding, R. (2016). Evaluation of six potential evapotranspiration models for estimating crop potential and actual evapotranspiration in arid regions. In JOURNAL OF HYDROLOGY (Vol. 543, Issue B, pp. 450–461). https://doi.org/10.1016/j.jhydrol.2016.10.022

Li, S., Tong, L., Li, F., Zhang, L., Zhang, B., & Kang, S. (2009). Variability in energy partitioning and resistance parameters for a vineyard in northwest China. In AGRICULTURAL WATER MANAGEMENT (Vol. 96, Issue 6, pp. 955–962). https://doi.org/10.1016/j.agwat.2009.01.006

Li, S., Zhang, L., Kang, S., Tong, L., Du, T., Hao, X., & Zhao, P. (2015). Comparison of several surface resistance models for estimating crop evapotranspiration over the entire growing season in arid regions. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 208, pp. 1–15). https://doi.org/10.1016/j.agrformet.2015.04.002

Los, S. A., Hipps, L. E., Alfieri, J. G., Kustas, W. P., & Prueger, J. H. (2019). Intermittency of water vapor fluxes from vineyards during light wind and convective conditions. In IRRIGATION SCIENCE (Vol. 37, Issues 3, SI, pp. 281–295). https://doi.org/10.1007/s00271-018-0617-5

Lu, S., Xuan, J., Zhang, T., Bai, X., Tian, F., & Ortega-Farias, S. (2022). Effect of the Shadow Pixels on Evapotranspiration Inversion of Vineyard: A High-Resolution UAV-Based and Ground-Based Remote Sensing Measurements. In REMOTE SENSING (Vol. 14, Issue 9). https://doi.org/10.3390/rs14092259

Marras, S., Masia, S., Duce, P., Spano, D., & Sirca, C. (2015). Carbon footprint assessment on a mature vineyard. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 214, pp. 350–356). https://doi.org/10.1016/j.agrformet.2015.08.270

Meggio, F., & Pitacco, A. (2016). Carbon budget of a temperate-climate vineyard – a green future for viticulture? Acta Horticulturae, 1112, 455–460. https://doi.org/10.17660/ActaHortic.2016.1112.61

Montes, C., Lhomme, J.-P., Demarty, J., Prevot, L., & Jacob, F. (2014). A three-source SVAT modeling of evaporation: Application to the seasonal dynamics of a grassed vineyard. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 191, pp. 64–80). https://doi.org/10.1016/j.agrformet.2014.02.004

Munusamy, S., Rajasekaran, E., Saraswat, D., Kustas, W. P., Bambach, N., Mcelrone, A. J., Castro, S. J., Prueger, J. H., Alfieri, J. G., & Alsina, M. M. (2025). The utility and applicability of vegetation index-based models for the spatial disaggregation of evapotranspiration. In IRRIGATION SCIENCE (Vol. 43, Issue 4, pp. 803–818). https://doi.org/10.1007/s00271-024-00963-1

Nassar, A., Torres-Rua, A., Kustas, W., Alfieri, J., Hipps, L., Prueger, J., Nieto, H., Alsina, M. M., White, W., McKee, L., Coopmans, C., Sanchez, L., & Dokoozlian, N. (2021). Assessing Daily Evapotranspiration Methodologies from One-Time-of-Day sUAS and EC Information in the GRAPEX Project. In REMOTE SENSING (Vol. 13, Issue 15). https://doi.org/10.3390/rs13152887

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. In REMOTE SENSING (Vol. 12, Issue 3). https://doi.org/10.3390/rs12030342

Nieto, H., Alsina, M. M., Kustas, W. P., Garcia-Tejera, O., Chen, F., Bambach, N., Gao, F., Alfieri, J. G., Hipps, L. E., Prueger, J. H., McKee, L. G., Zahn, E., Bou-Zeid, E., McElrone, A. J., Castro, S. J., & Dokoozlian, N. (2022). Evaluating different metrics from the thermal-based two-source energy balance model for monitoring grapevine water stress. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 697–713). https://doi.org/10.1007/s00271-022-00790-2

Nieto, H., Kustas, W. P., Torres-Rua, A., Alfieri, J. G., Gao, F., Anderson, M. C., White, W. A., Song, L., Alsina, M. del M., Prueger, J. H., McKee, M., Elarab, M., & McKee, L. G. (2019). Evaluation of TSEB turbulent fluxes using different methods for the retrieval of soil and canopy component temperatures from UAV thermal and multispectral imagery. In IRRIGATION SCIENCE (Vol. 37, Issues 3, SI, pp. 389–406). https://doi.org/10.1007/s00271-018-0585-9

Ortega-Farias, S., Carrasco, M., Olioso, A., Acevedo, C., & Poblete, C. (2007). Latent heat flux over Cabernet Sauvignon vineyard using the Shuttleworth and Wallace model. In IRRIGATION SCIENCE (Vol. 25, Issue 2, pp. 161–170). https://doi.org/10.1007/s00271-006-0047-7

Ortega-Farias, S., Esteban-Condori, W., Riveros-Burgos, C., Fuentes-Penailillo, F., & Bardeen, M. (2021). Evaluation of a two-source patch model to estimate vineyard energy balance using high-resolution thermal images acquired by an unmanned aerial vehicle (UAV). In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 304). https://doi.org/10.1016/j.agrformet.2021.108433

Ortega-Farias, S., Poblete-Echeverria, C., & Brisson, N. (2010). Parameterization of a two-layer model for estimating vineyard evapotranspiration using meteorological measurements. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 150, Issue 2, pp. 276–286). https://doi.org/10.1016/j.agrformet.2009.11.012

Paciolla, N., Corbari, C., Kustas, W. P., Nieto, H., Alfieri, J. G., Zahn, E., Gao, F., Prueger, J. H., Alsina, M. M., Hipps, L. E., Mckee, L. G., Mcelrone, A. J., & Bambach, N. (2025). Two-source energy balance schemes exploiting land surface temperature and soil moisture for continuous vineyard water use estimation. In IRRIGATION SCIENCE (Vol. 43, Issue 4, pp. 731–753). https://doi.org/10.1007/s00271-024-00991-x

Paciolla, N., Corbari, C., Maltese, A., Ciraolo, G., & Mancini, M. (2021). Proximal-Sensing-Powered Modelling of Energy-Water Fluxes in a Vineyard: A Spatial Resolution Analysis. In REMOTE SENSING (Vol. 13, Issue 22). https://doi.org/10.3390/rs13224699

Parry, C. K., Kustas, W. P., Knipper, K. R., Anderson, M. C., Alfieri, J. G., Prueger, J. H., & McElrone, A. J. (2019). Comparison of vineyard evapotranspiration estimates from surface renewal using measured and modelled energy balance components in the GRAPEX project. In IRRIGATION SCIENCE (Vol. 37, Issues 3, SI, pp. 333–343). https://doi.org/10.1007/s00271-018-00618-y

Parry, C. K., Shapland, T. M., Williams, L. E., Calderon-Orellana, A., Snyder, R. L., Paw, K. T. U., & McElrone, A. J. (2019). Comparison of a stand-alone surface renewal method to weighing lysimetry and eddy covariance for determining vineyard evapotranspiration and vine water stress. In IRRIGATION SCIENCE (Vol. 37, Issue 6, pp. 737–749). https://doi.org/10.1007/s00271-019-00626-6

Perelet, A. O., Ward, H. C., Stoll, R., Mahaffee, W. F., & Pardyjak, E. R. (2022). Quantifying Turbulence Heterogeneity in a Vineyard Using Eddy-Covariance and Scintillometer Measurements. In BOUNDARY-LAYER METEOROLOGY (Vol. 184, Issue 3, pp. 479–504). https://doi.org/10.1007/s10546-022-00714-9

Poblete-Echeverria, C. A., & Ortega-Farias, S. O. (2013). Evaluation of single and dual crop coefficients over a drip-irrigated Merlot vineyard (Vitis viniferaL.) using combined measurements of sap flow sensors and an eddy covariance system. In AUSTRALIAN JOURNAL OF GRAPE AND WINE RESEARCH (Vol. 19, Issue 2, pp. 249–260). https://doi.org/10.1111/ajgw.12019

Poblete-Echeverria, C., & Ortega-Farias, S. (2009). Estimation of actual evapotranspiration for a drip-irrigated Merlot vineyard using a three-source model. In IRRIGATION SCIENCE (Vol. 28, Issues 1, SI, pp. 65–78). https://doi.org/10.1007/s00271-009-0183-y

Poblete-Echeverria, C., Ortega-Farias, S., Zuniga, M., & Fuentes, S. (2012). Evaluation of compensated heat-pulse velocity method to determine vine transpiration using combined measurements of eddy covariance system and microlysimeters. In AGRICULTURAL WATER MANAGEMENT (Vol. 109, pp. 11–19). https://doi.org/10.1016/j.agwat.2012.01.019

Prueger, J. H., Parry, C. K., Kustas, W. P., Alfieri, J. G., Alsina, M. M., Nieto, H., Wilson, T. G., Hipps, L. E., Anderson, M. C., Hatfield, J. L., Gao, F., McKee, L. G., McElrone, A., Agam, N., & Los, S. A. (2019). Crop Water Stress Index of an irrigated vineyard in the Central Valley of California. In IRRIGATION SCIENCE (Vol. 37, Issues 3, SI, pp. 297–313). https://doi.org/10.1007/s00271-018-0598-4

Safre, A. L. S., Nassar, A., Torres-Rua, A., Aboutalebi, M., Saad, J. C. C., Manzione, R. L., de Castro Teixeira, A. H., Prueger, J. H., McKee, L. G., Alfieri, J. G., Hipps, L. E., Nieto, H., White, W. A., Alsina, M. del M., Sanchez, L., Kustas, W. P., Dokoozlian, N., Gao, F., & Anderson, M. C. (2022). Performance of Sentinel-2 SAFER ET model for daily and seasonal estimation of grapevine water consumption. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 635–654). https://doi.org/10.1007/s00271-022-00810-1

Sanchez, J. M., Lopez-Urrea, R., Valentin, F., Caselies, V., & Galve, J. M. (2019). Lysimeter assessment of the Simplified Two-Source Energy Balance model and eddy covariance system to estimate vineyard evapotranspiration. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 274, pp. 172–183). https://doi.org/10.1016/j.agrformet.2019.05.006

Scandellari, F., Caruso, G., Liguori, G., Meggio, F., Assunta, M. P., Zanotelli, D., Celano, G., Gucci, R., Inglese, P., Pitacco, A., & Tagliavini, M. (2016). A survey of carbon sequestration potential of orchards and vineyards in Italy. In EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE (Vol. 81, Issue 2, pp. 106–114). https://doi.org/10.17660/eJHS.2016/81.2.4

Shapland, T. M., Snyder, R. L., Smart, D. R., & Williams, L. E. (2012). Estimation of actual evapotranspiration in winegrape vineyards located on hillside terrain using surface renewal analysis. In IRRIGATION SCIENCE (Vol. 30, Issue 6, pp. 471–484). https://doi.org/10.1007/s00271-012-0377-6

Tezza, L., Vendrame, N., & Pitacco, A. (2019). Disentangling the carbon budget of a vineyard: The role of soil management. In AGRICULTURE ECOSYSTEMS & ENVIRONMENT (Vol. 272, pp. 52–62). https://doi.org/10.1016/j.agee.2018.11.002

Tosoni, D. E., Meza, F. J., & Lacy, S. N. (2021). Independent estimation of sensible and latent fluxes in a vineyard using improved surface renewal analysis. In THEORETICAL AND APPLIED CLIMATOLOGY (Vol. 144, Issues 3–4, pp. 1375–1385). https://doi.org/10.1007/s00704-021-03612-1

Valenti, L., Ghiglieno, I., Sambo, F., Pitacco, A., Tezza, L., Vendrame, N., Virgili, G., Minardi, I., Giovenali, E., & LoBello, J. (2019). LIFE15 ENV/IT/000392 − LIFE VITISOM Project,

viticulture innovation technology and GHG emission monitoring. BIO Web of Conferences, 13, 02008. https://doi.org/10.1051/bioconf/20191302008

Vendrame, N., Tezza, L., & Pitacco, A. (2019). Study of the Carbon Budget of a Temperate-Climate Vineyard: Inter-Annual Variability of CO2 Flux. In AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE (Vol. 70, Issue 1, pp. 34–41). https://doi.org/10.5344/ajev.2018.18006

Vendrame, N., Tezza, L., & Pitacco, A. (2020). Comparison of sensible heat fluxes by large aperture scintillometry and eddy covariance over two contrasting-climate vineyards. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 288). https://doi.org/10.1016/j.agrformet.2020.108002

Villagra, P., Garcia de Cortazar, V., Ferreyra, R., Aspillaga, C., Zuniga, C., Ortega-Farias, S., & Selles, G. (2014). Estimation of water requirements and Kc values of `Thompson Seedless' table grapes grown in the overhead trellis system, using the Eddy covariance method. In CHILEAN JOURNAL OF AGRICULTURAL RESEARCH (Vol. 74, Issue 2, pp. 213–218). https://doi.org/10.4067/S0718-58392014000200013

Wong, C. Y. S., Bambach, N. E., Alsina, M. M., McElrone, A. J., Jones, T., Buckley, T. N., Kustas, W. P., & Magney, T. S. (2022). Detecting short-term stress and recovery events in a vineyard using tower-based remote sensing of photochemical reflectance index (PRI). In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 683–696). https://doi.org/10.1007/s00271-022-00777-z

Xue, J., Anderson, M. C., Gao, F., Hain, C., Knipper, K. R., Yang, Y., Kustas, W. P., Yang, Y., Bambach, N., McElrone, A. J., Castro, S. J., Alfieri, J. G., Prueger, J. H., McKee, L. G., Hipps, L. E., & del Mar Alsina, M. (2022). Improving the spatiotemporal resolution of remotely sensed ET information for water management through Landsat, Sentinel-2, ECOSTRESS and VIIRS data fusion. In IRRIGATION SCIENCE (Vol. 40, Issues 4–5, SI, pp. 609–634). https://doi.org/10.1007/s00271-022-00799-7

Zahn, E., Bou-Zeid, E., Good, S. P., Katul, G. G., Thomas, C. K., Ghannam, K., Smith, J. A., Chamecki, M., Dias, N. L., Fuentes, J. D., Alfieri, J. G., Kwon, H., Caylor, K. K., Gao, Z., Soderberg, K., Bambach, N. E., Hipps, L. E., Prueger, J. H., & Kustas, W. P. (2022). Direct partitioning of eddy-covariance water and carbon dioxide fluxes into ground and plant components. In AGRICULTURAL AND FOREST METEOROLOGY (Vol. 315). https://doi.org/10.1016/j.agrformet.2021.108790

Zermenio-Gonzalez, A., Isain Melendres-Alvarez, A., Alberto Fuerte-Mosqueda, L., Plutarco Muiguia-Lopez, J., & Ibarra-Jimenez, L. (2017). EVAPOTRANSPIRATION RATE OF A

VINEYARD AND ITS RELATION TO THE REFERENCE OF THE FAO PENMAN-MONTEITH METHOD. In AGROCIENCIA (Vol. 51, Issue 1, pp. 1–12).

Zermeno-Gonzalez, A., Mendez-Lopez, G., Rodriguez-Garcia, R., Cadena-Zapata, M., Cardenas-Palomo, J. O., & Catalan-Valencia, E. A. (2015). BIOFERTILIZATION OF A VINEYARD ANDD ITS RELATIONSHIP TO PHOTOSYNTHESIS, YIELD AND FRUIT QUALITY. In AGROCIENCIA (Vol. 49, Issue 8, pp. 875–887).

Zhang, Y., Zhu, G., Che, T., Wang, S., Xu, C., Chen, H., Zhang, Y., Su, Y., & Fan, H. (2024). The ratio of transpiration to evapotranspiration and water use efficiency in an irrigated oasis agroecosystem: Different temporal-scale effects. In AGRICULTURAL WATER MANAGEMENT (Vol. 302). https://doi.org/10.1016/j.agwat.2024.108980

Zhao, P., Kang, S., Li, S., Ding, R., Tong, L., & Du, T. (2018). Seasonal variations in vineyard ET partitioning and dual crop coefficients correlate with canopy development and surface soil moisture. In AGRICULTURAL WATER MANAGEMENT (Vol. 197, pp. 19–33). https://doi.org/10.1016/j.agwat.2017.11.004

Zhao, P., Li, S., Li, F., Du, T., Tong, L., & Kang, S. (2015). Comparison of dual crop coefficient method and Shuttleworth-Wallace model in evapotranspiration partitioning in a vineyard of northwest China. In AGRICULTURAL WATER MANAGEMENT (Vol. 160, pp. 41–56). https://doi.org/10.1016/j.agwat.2015.06.026

Zhao, P., Zhang, X., Li, S., & Kang, S. (2017). Vineyard Energy Partitioning Between Canopy and Soil Surface: Dynamics and Biophysical Controls. In JOURNAL OF HYDROMETEOROLOGY (Vol. 18, Issue 7, pp. 1809–1829). https://doi.org/10.1175/JHM-D-16-0122.1