

Academic Publishing Record

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Davis, T.W., Prentice, I.C., Stocker, B.D., Thomas, R.T., Whitley, R.J., Wang, H., Evans, B.J., Gallego-Sala, A.V., Sykes, M.T., Cramer, W., 2017. Simple process-led algorithms for simulating habitats (SPLASH v.1.0): robust indices of radiation, evapotranspiration and plant-available moisture. *Geoscientific Model Development* 10, 689–708. <https://doi.org/10.5194/gmd-10-689-2017>

Eamus, D., Yunusa, I.A.M., Grant, N., Li, Z., Macinnis-Ng, C.M.O., Taylor, D.T., Whitley, R.J., Zeppel, M.J.B., 2011. The Efficacy of Revegetation in the Prevention of Deep Drainage at the Castlereagh Waste Disposal Site Final Report March 2011 Professor Derek Eamus and Isa Yunusa Zheng Li Cate Macinnis-Ng Rhys Whitley Melanie Zeppel (No. March). University of Technology Sydney, Sydney.

Eamus, D., Yunusa, I., Taylor, D., Whitley, R., 2013. Design of store-release covers to minimize deep drainage in the mining and waste-disposal industries: results from a modelling analyses based on ecophysiological principles. *Hydrological Processes* 27, 3815–3824. <https://doi.org/10.1002/hyp.9482>

Fuentes, S., Palmer, A.R., Taylor, D., Zeppel, M., Whitley, R., Eamus, D., 2008. An automated procedure for estimating the leaf area index (LAI) of woodland ecosystems using digital imagery, MATLAB programming and its application to an examination of the relationship between remotely sensed and field measurements of LAI. *Functional Plant Biology* 35, 1070. <https://doi.org/10.1071/FP08045>

Guyot, A., Fan, J., Oestergaard, K.T., Whitley, R., Gibbes, B., Arsac, M., Lockington, D.A., 2017. Soil-water content characterisation in a modified Jarvis-Stewart model: A case study of a conifer forest on a shallow unconfined aquifer. *Journal of Hydrology* 544, 242–253. <https://doi.org/10.1016/j.jhydrol.2016.11.041>

Macinnis-Ng, C.M.O., Fuentes, S., O’Grady, A.P., Palmer, A.R., Taylor, D., Whitley, R.J., Yunusa, I., Zeppel, M.J.B., Eamus, D., 2010. Root biomass distribution and soil properties of an open woodland on a duplex soil. *Plant and Soil* 327, 377–388. <https://doi.org/10.1007/s11104-009-0061-7>

Vella, A., Whitley, R.J., Armstrong, N., Dowd, A., Cline, J., 2006. Analysis of admixed CeO₂ Nanoparticles via TEM and X-ray Diffraction Techniques. Australian Institute of Physics.

- Whitley, R., Beringer, J., Hutley, L., Abramowitz, G., De Kauwe, M.G., Duursma, R., Evans, B., Haverd, V., Li, L., Ryu, Y., Smith, B., Wang, Y.-P., Williams, M., Yu, Q., 2015. A model inter-comparison study to examine limiting factors in modelling Australian tropical savannas. *Biogeosciences Discussions* 12, 18999–19041. <https://doi.org/10.5194/bgd-12-18999-2015>
- Whitley, R., Beringer, J., Hutley, L.B., Abramowitz, G., De Kauwe, M.G., Evans, B., Haverd, V., Li, L., Moore, C., Ryu, Y., Scheiter, S., Schymanski, S.J., Smith, B., Wang, Y.-P., Williams, M., Yu, Q., 2017. Challenges and opportunities in land surface modelling of savanna ecosystems. *Biogeosciences* 14, 4711–4732. <https://doi.org/10.5194/bg-14-4711-2017>
- Whitley, R.J., Eamus, D., 2009. How much water does a woodland or plantation use: a review of some measurement methods (No. 6). Land & Water Australia, Canberra.
- Whitley, R.J., Macinnis-Ng, C.M.O., Hutley, L.B., Beringer, J., Zeppel, M., Williams, M., Taylor, D., Eamus, D., 2011. Is productivity of mesic savannas light limited or water limited? Results of a simulation study. *Global Change Biology* 17, 3130–3149. <https://doi.org/10.1111/j.1365-2486.2011.02425.x>
- Whitley, R.J., Medlyn, B., Zeppel, M.J.B., Macinnis-Ng, C.M.O., Eamus, D., 2009. Comparing the Penman–Monteith equation and a modified Jarvis–Stewart model with an artificial neural network to estimate stand-scale transpiration and canopy conductance. *Journal of Hydrology* 373, 256–266. <https://doi.org/10.1016/j.jhydrol.2009.04.036>
- Whitley, R.J., Zeppel, M.J.B., Armstrong, N., Macinnis-Ng, C.M.O., Yunusa, I., Eamus, D., 2007. A modified Jarvis-Stewart model for predicting stand-scale transpiration of an Australian native forest. *Plant and Soil* 305, 35–47. <https://doi.org/10.1007/s11104-007-9399-x>
- Whitley, R., Taylor, D., Macinnis-Ng, C., Zeppel, M., Yunusa, I., O’Grady, A., Froend, R., Medlyn, B., Eamus, D., 2013. Developing an empirical model of canopy water flux describing the common response of transpiration to solar radiation and VPD across five contrasting woodlands and forests. *Hydrological Processes* 27, 1133–1146. <https://doi.org/10.1002/hyp.9280>
- Yunusa, I.A., Eamus, D., Taylor, D., Whitley, R., Gwenzi, W., Palmer, A.R., Li, Z., 2015. Partitioning of turbulent flux reveals contrasting cooling potential for woody vegetation and grassland during heat waves. *Quarterly Journal of the Royal Meteorological Society*. <https://doi.org/10.1002/qj.2539>
- Yunusa, I., Whitley, R., Zeppel, M., Eamus, D., 2009. Simulation of Evapotranspiration and Vadose Zone Hydrology Using Limited Soil Data: A Comparison of Four Computer Models, in: 2009 Second International Conference on Environmental and Computer Science. IEEE, pp. 152–155. <https://doi.org/10.1109/ICECS.2009.95>
- Zeppel, M.J., Macinnis-Ng, C.M., Yunusa, I.A., Whitley, R.J., Eamus, D., 2008. Long term trends of stand transpiration in a remnant forest during wet and dry years. *Journal of Hydrology* 349, 200–213. <https://doi.org/10.1016/j.jhydrol.2008.04.011>

1016/j.jhydrol.2007.11.001

Zhuang, W., Cheng, L., Whitley, R., Shi, H., Beringer, J., Wang, Y., He, L., Cleverly, J., Eamus, D., Yu, Q., 2016. How energy and water availability constrain vegetation water-use along the North Australian Tropical Transect. *International Journal of Plant Production*.