

**Michael L. Roderick – Publication List**  
(Last updated: 21 May 2008)

**Publications – Peer Reviewed**

- [R1] Roderick, M.L. (1991) Updating digital cadastral databases in Queensland: the application of covariance. *Australian Surveyor* **36**, 92-99.
- [R2] Roderick, M.L. (1992) Methods for Calculating Solar Position and Day Length Including Computer Programs and Subroutines. *Division of Resource Management Technical Report No. 137*. Western Australian Department of Agriculture, Perth, 22 pp.
- [R3] Roderick, M.L., Smith, R.C.G. and Cridland, S.W. (1996) The precision of the NDVI derived from AVHRR observations. *Remote Sensing of Environment* **56**, 57-65.
- [R4] Roderick, M.L., Smith, R.C.G. and Lodwick, G.D. (1996) Calibrating long term AVHRR derived NDVI imagery. *Remote Sensing of Environment* **58**, 1-12.
- [R5] Underwood, G.A. and Roderick, M.L. (1997) Spatio-temporal visualisation of inter-annual variations in rainfall: the rainfall ribbon approach. *Cartography* **28**, 13-21.
- [R6] Roderick, M.L. (1999) Estimating the diffuse component from daily and monthly measurements of global radiation. *Agricultural and Forest Meteorology* **95**, 169-185.
- [R7] Roderick, M.L., Berry, S.L., Noble, I.R. and Farquhar, G.D. (1999) A theoretical approach to linking the composition and morphology with the function of leaves. *Functional Ecology* **13**, 683-695.
- [R8] Roderick, M.L., Berry, S.L., Saunders, A.R. and Noble, I.R. (1999) On the relationship between the composition, morphology and function of leaves. *Functional Ecology* **13**, 696-710.
- [R9] Roderick, M.L., Berry, S.L. and Noble, I.R. (1999) The relationship between leaf composition and morphology at elevated CO<sub>2</sub> concentrations. *New Phytologist* **143**, 63-72.
- [R10] Weiher, E., van der Werf, A., Thompson, K., Roderick, M.L., Garnier, E. and Eriksson, O. (1999) Challenging Theophrastus: A common core list of plant traits for functional ecology. *Journal of Vegetation Science* **10**, 609-620.
- [R11] Roderick, M.L., Noble, I.R. and Cridland, S.W. (1999) Estimating woody and herbaceous vegetation cover from time series satellite observations. *Global Ecology and Biogeography* **8**, 501-508.
- [R12] Roderick, M.L. (2000) On the measurement of growth with applications to the modelling and analysis of plant growth. *Functional Ecology* **14**, 244-251.
- [R13] Roderick, M.L., Berry, S.L. and Noble, I.R. (2000) A framework for understanding the relationship between environment and vegetation based on the surface area to volume ratio of leaves. *Functional Ecology* **14**, 423-437.

- [R14] Roderick, M.L. and Berry, S.L. (2001) Linking wood density with tree growth and environment: a theoretical analysis based on the motion of water. *New Phytologist* **149**, 473-485.
- [R15] Roderick, M.L. (2001) On the use of thermodynamic methods to describe water relations in plants and soil. *Australian Journal of Plant Physiology* **28**, 729-742.
- [R16] Roderick, M.L., Farquhar, G. D., Berry, S.L. and Noble, I.R. (2001) On the direct effect of clouds and atmospheric particles on the productivity and structure of vegetation. *Oecologia* **129**, 21-30.
- [R17] Berry, S.L. and Roderick, M.L. (2002) Estimating mixtures of leaf functional types using continental-scale satellite and climatic data. *Global Ecology and Biogeography*, **11**, 23-39.
- [R18] Roderick, M.L. and Cochrane, M.J. (2002) On the conservative nature of the leaf mass-area relationship. *Annals of Botany* **89**, 537-542.
- [R19] Hume, I. H., McVicar, T. R. and Roderick, M.L. (2002) Optical Properties of Leaves in the Visible and Near-Infrared under Beam and Diffuse Irradiance. CRC for Catchment Hydrology Technical Report 02/3. pp. 57.
- [R20] Berry, S.L. and Roderick, M.L. (2002) CO<sub>2</sub> and land use effects on Australian vegetation over the last two centuries. *Australian Journal of Botany*, **50**, 511-531.
- [R21] Roderick, M.L. and Farquhar, G.D. (2002) The cause of decreased pan evaporation over the last 50 years. *Science* **298**, 1410-1411.
- [R22] Holm, A.M., Cridland, S.W. and Roderick, M.L. (2003) The use of time-integrated NDVI and rainfall to assess landscape degradation in the arid shrublands of Western Australia. *Remote Sensing of Environment* **85**, 145-158.
- [R23] Farquhar, G.D. and Roderick, M.L. (2003) Pinatubo, diffuse light, and the carbon cycle. *Science* **299**, 1997-1998.
- [R24] Gifford, R. M. and Roderick, M. L. (2003) Soil carbon stocks and bulk density: Spatial or cumulative mass coordinates as a basis of expression? *Global Change Biology* **9**, 1507-1514.
- [R25] Roderick, M.L. and Barnes, B. (2004) Self-thinning of plant populations from a dynamic viewpoint. *Functional Ecology* **18**, 197-203.
- [R26] Barnes, B. and Roderick, M.L. (2004) An ecological framework linking scales across space and time based on self-thinning. *Journal of Theoretical Population Biology* **66**, 113-128.
- [R27] Roderick, M.L. and Farquhar, G.D. (2004) Changes in Australian pan evaporation from 1970 to 2002, *International Journal of Climatology* **24**, 1077-1090.

- [R28] Berry, S.L. and Roderick, M. L. (2004) Carbon stocks and fluxes of the Australian vegetation from 1788 to 1988 AD: Estimating GPP from vegetation cover and net radiation. *Global Change Biology* **10**, 1884-1898.
- [R29] Roxburgh, S.H., Barrett, D.J., Berry, S.L., Carter, J.O., Davies, I.D., Gifford, R.M., Kirschbaum, M.U.F., McBeth, B.P., Noble, I.R., Parton, W.G., Raupach, M.R., Roderick, M.L. (2004) A critical overview of model estimates of net primary productivity for the Australian continent. *Functional Plant Biology* **31**, 1043-1059.
- [R30] Canny, M. J. and Roderick, M. L. (2005) A second pathway for gas out of the pressure chamber – what is being squeezed? *Plant Physiology and Biochemistry*, **43**, 315-321.
- [R31] Roderick, M. L. and Canny, M. J. (2005) A mechanical interpretation of pressure chamber measurements – what does the strength of the squeeze tell us? *Plant Physiology and Biochemistry*, **43**, 323-336.
- [R32] Roxburgh, S. R., Berry, S. L., Buckley, T., Barnes, B. and Roderick, M. L. (2005) What is NPP? Inconsistent accounting of respiratory fluxes in the definition of net primary production. *Functional Ecology*, **19**, 378-382.
- [R33] Sulistyawati, E., Noble, I. R. and Roderick, M. L. (2005) A simulation model to study land use strategies in swidden agriculture system. *Agricultural Systems*, **85**, 271-288.
- [R34] Berry, S. L. and Roderick, M. L. (2005) Tansley Review: Plant water relations and the fibre saturation point, *New Phytologist*, **168**, 25-37.
- [R35] Roderick, M. L. and Farquhar, G. D. (2005) Changes in New Zealand pan evaporation since the 1970s, *International Journal of Climatology*, **25**, 2031-2039.
- [R36] Berry, S. L., Farquhar, G. D. and Roderick, M. L. (2005) Co-evolution of climate, vegetation, soil and air. In: Encyclopedia of Hydrological Sciences, Vol. 1, 177-192.
- [R37] Roderick, M.L. (2006) The ever-flickering light, *Trends in Ecology and Evolution*, **21**, 3-5.
- [R38] Barnes, B., Bi, H. and Roderick, M. L. (2006) Application of an ecological framework linking scales based on self-thinning. *Ecological Applications*, **16**, 133-142.
- [R39] Berry, S. L. and Roderick, M. L. (2006) Changing Australian vegetation from 1788 to 1988: effects of CO<sub>2</sub> and land use change. *Australian Journal of Botany*, **54**, 325-338.
- [R40] Rotstayn, L. D., Roderick, M. L. and Farquhar, G. D. (2006) A simple pan-evaporation model for analysis of climate simulations: Evaluation over Australia. *Geophysical Research Letters*, **33**, L17715, doi:10.1029/2006GL027114.
- [R41] Barnes, B., Mokany, K. and Roderick, M. L. (2007) Allocation within a generic scaling framework. *Ecological Modelling*, **201**, 223-232.

[R42] Canny, M. J., Sparks, J. P., Huang, C. X., Roderick, M. L. (2007) Air embolisms exsolving in the transpiration water – the effect of constrictions in the xylem pipes. *Functional Plant Biology*, **34**, 95-111.

[R43] Donohue, RJ, Roderick ML and McVicar, TR (2007) On the importance of including vegetation dynamics in Budyko's hydrological model, *Hydrology and Earth System Sciences*, **11**, 983-995.

[R44] Rotstayn LD, Cai W, Dix MR, Farquhar GD, Feng Y, Ginoux P, Herzog M, Ito A, Penner JE, Roderick ML, Wang M. (2007) Have Australian rainfall and cloudiness increased due to the remote effects of Asian anthropogenic aerosols? *Journal of Geophysical Research*, **112**, D09202, doi:09210.01029/02006JD007712.

[R45] Roderick ML, Rotstayn LD, Farquhar GD, Hobbins MT (2007) On the attribution of changing pan evaporation, *Geophysical Research Letters*, **34**, L17403, doi:10.1029/2007GL031166.

[R46] McDonnell, J. J., Sivapalan, M., Vaché, K., Dunn, S., Grant, G., Haggerty, R., Hinz, C., Hooper, R., Kirchner, J., Roderick, M. L., Selker, J., Weiler, M. (2007) Moving beyond heterogeneity and process complexity: A new vision for watershed hydrology, *Water Resources Research*, **43**, W07301, doi:10.1029/2006WR005467.

[R47] Schymanski SJ, Roderick ML, Sivapalan M, Hutley LB, Beringer J (2007) A Test of the Optimality Approach to Modelling Canopy Properties and CO<sub>2</sub> Uptake by Natural Vegetation, *Plant Cell and Environment*, **30**, 1586-1598.

[R48] Farquhar, G. D., Roderick, M. L. (2007) Worldwide Changes in Evaporative Demand, In: *Proceedings of the Workshop "Water and the Environment"*, Pontificia Academia Scientiarvm 108. Prof I Rodriguez-Iturbe and H.E. Msgr. MS Sorondo (eds). Pontificia Academia Scientiarvm. Pp. 81-103.

[R49] Schymanski SJ, Roderick ML, Sivapalan M, Hutley LB, Beringer J (2008) A canopy scale test of the optimal water use hypothesis, *Plant Cell and Environment*, **31**, 97-111.

[R50] Donohue RJ, Roderick ML, McVicar TR (2008) Deriving consistent long-term vegetation information from AVHRR reflectance data using a cover-triangle-based framework, *Remote Sensing of Environment*, **112**, 2938-2949.

[R51] Schymanski SJ, Sivapalan M, Roderick ML, Beringer J, Hutley LB, (2008), An optimality-based model of the coupled soil moisture and root dynamics, *Hydrology and Earth System Sciences*, **12**, 913-932.

[R52] Hobbins MH, Dai A, Roderick ML, Farquhar GD (2008) Revisiting the parameterization of potential evaporation as a driver of long-term water balance trends, *Geophysical Research Letters*, **35**, L12403, doi:10.1029/2008GL033840.

**Publications – Peer Reviewed – In Press**

[R53] Donohue RJ, McVicar TR, Roderick ML (2008) Climate related trends in Australian vegetation cover as inferred from satellite observations, 1981-2006. *Global Change Biology*, in press (accepted 1 September 2008).

[R54] McVicar TR, Van Niel TG, Li L, Roderick ML, Rayner DP, Ricciardulli L, Donohue RJ (2008) Wind speed climatology and trends for Australia, 1975-2006: capturing the stilling phenomenon and comparison with near-surface reanalysis output. *Geophysical Research Letters*, in press (accepted 3 September 2008).

### **Publications – Book, Theses, Book Chapters**

[B1] Roderick, M.L. (1994) Satellite Derived Vegetation Indices for Monitoring Seasonal Vegetation Conditions in Western Australia. PhD Thesis, School of Surveying and Land Information. Curtin University of Technology, Perth, 349 pp.

[B2] Roderick, M.L., Chewings, V. and Smith, R. (2000) Remote sensing in vegetation and animal studies. In: *Field and Laboratory Methods for Grassland and Animal Production Research* (eds L. t Marnette & R.M. Jones), CAB International, pp. 205-225.

[B3] Roderick, M. L. and Farquhar, G. D. (2004). The pan evaporation paradox. In: *Global Change and the Earth System: A Planet Under Pressure* (eds W. Steffen, A. Sanderson, P. Tyson, J. Jäger, P. Matson, B. Moore III, F. Oldfield, K. Richardson, H.-J. Schellnhuber, B.L. Turner II & R. Wasson). Springer-Verlag, Berlin.

### **Invited Lectures, Presentations, etc.**

[L1] Roderick ML, Berry SL, Noble IR (1998) The effect of elevated CO<sub>2</sub> on leaves, Invited Keynote Address at the 4<sup>th</sup> New Phytologist Forum, Montpellier, France, October 1998.

[L2] Roderick ML, Farquhar GD (2003) The cause of decreased pan evaporation over the last 50 years. Invited Keynote Address at the EGS-AGU-EUG Joint Assembly, Nice, France, April 2003.

[L3] Roderick ML, Farquhar GD (2003) Changes in pan evaporation: What is happening and why it is important. Invited address at CSIRO Plant Industry, Black Mountain, Canberra, July 2003.

[L4] Roderick ML, Farquhar GD (2003) Changes in pan evaporation: What is happening and why it is important. Invited address at the Centre for Water Research, UWA, Perth, October 2003.

[L5] Farquhar GD, Roderick ML (2003) Why is pan evaporation rate going down in the northern hemisphere if there is global warming?, 2003 Climate Centre Fall lecture, Columbia University, New York, November 2003.

[L6] Roderick ML, Farquhar GD (2004) Ecohydrology and Climate Change. Invited Keynote Address to the International Association of Hydrological Sciences, Perth, February 2004.

[L7] Roderick ML, Farquhar GD (2004) Pan evaporation in the southern hemisphere: what is happening?, Invited Keynote Address at the CGU-AGU Joint Conference, Montreal, 17-21 May 2004.

[L8] Roderick ML, Farquhar GD (2004) Declining pan and potential evaporation – consequences for the surface moisture balance. Invited Earth Institute Seminar, Columbia University, New York, 25 May 2004.

[L9] Roderick ML, Berry SL (2004) Linking form and function: What can we learn about catchments from plants, Invited Keynote Address at the US NSF consortium on Visions for Catchment Hydrology, Corvallis, Oregon, June 2004.

[L10] Roderick ML, Farquhar GD (2004) Declining pan and potential evaporation – consequences for the surface moisture balance. Special Briefing to the Department of Prime Minister & Cabinet, Parliament House, Canberra, July 2004.

[L11] Roderick ML, Farquhar GD (2004) The surface water balance and climate change, Invited talk at the Sutton Landcare Group, October 2004.

[L12] Farquhar GD, Roderick ML (2004) Trends in pan evaporation: theory, observations and implications for the terrestrial water balance, Invited Keynote Address, 16<sup>th</sup> Australia New Zealand Climate Forum, Lorne, Victoria, 8-10 November 2004.

[L13] Farquhar GD, Roderick ML (2004) The pan evaporation paradox – an overview of the scope of the problem, Invited address to the Pan Evaporation: an example of the detection and attribution of trends in climate variables conference, Australian Academy of Science, Canberra, 22-23 November 2004.

[L14] Roderick ML, Farquhar GD (2004) An analysis of pan evaporation changes in relation to possible explanatory factors, Invited address to the Pan Evaporation: an example of the detection and attribution of trends in climate variables conference, Australian Academy of Science, Canberra, 22-23 November 2004.

[L15] Roderick ML, Farquhar GD (2005) The causes of declining pan evaporation and consequences for the surface moisture balance over the last 50 years, Invited Keynote Address at the Australian Institute of Physics 16<sup>th</sup> Biennial Congress, Canberra, 31 January-4 February.

[L16] Farquhar GD, Rotstayn LD, Roderick ML (2005) Drier or wetter under climate change, Invited Address at the Annual Science Meets Parliament Conference, Parliament House, Canberra, March 2005.

[L17] Farquhar GD, Gifford RM, Roderick ML (2005) Global dimming, global brightening, or what? Invited Address at the Presidents Soiree, Australian Academy of Science, June 2005.

[L18] Roderick ML, Farquhar GD (2005) Predicting climate change impacts in Ecology and Hydrology: The importance of non-linearities, Invited Keynote Address at the 2005 Sir Mark Oliphant Conference titled Thresholds and pattern dynamics: A new paradigm for predicting climate driven processes, UWA, Perth, July 2005.

[L19] Roderick ML, Farquhar GD (2005) Climate change: wetter or drier?, Invited Address at the Queensland Department of Natural Resources and Mines, Brisbane, 13 July 2005.

[L20] Farquhar GD, Roderick ML (2005) Evaporative demand and climate change, Invited address to the working group on 'Water and the Environment', The Pontifical Academy of Sciences, Vatican City, Rome, 12-14 November 2005.

[L21] Roderick ML, Farquhar GD, Rotstayn LD (2005) Climate Change: Wetter or Drier? Invited Keynote address at Greenhouse 2005, Melbourne, 14-17 November 2005.

[L22] Farquhar GD, Roderick ML (2005) Integrative climate science, economics and sociology, Invited Address at the Presidents Soiree, Australian Academy of Science, Canberra, 24 November 2005.

[L23] Roderick ML, Farquhar GD (2005) Declining pan evaporation: a closer look at the ecohydrological implications and the physics, Invited Keynote Address at the AGU Assembly, San Francisco, 5-9 December 2005.

[L24] Farquhar GD, Roderick ML (2006) Evaporative demand and climate change, Invited seminar at Research School of Earth Sciences, The Australian National University, Canberra, 9 February 2006.

[L25] Roderick ML, Farquhar GD, Rotstayn LD (2006) Climate change and evaporative demand, Invited Address at the Managing Climate Variability Forum, Land & Water Australia, Adelaide, 29-30 March 2006.

[L26] Roderick ML, Farquhar GD (2006) Climate Change: Wetter or Drier?, CRC for Greenhouse Accounting Business Briefing, Melbourne, 1 June 2006.

[L27] Roderick ML, Farquhar GD (2006) Climate Change: Wetter or Drier?, CRC for Greenhouse Accounting Business Briefing, Sydney, 13 June 2006.

[L28] Roderick ML, Berry SL, Canny MJ (2006) Water in wood: getting the simple things right, Invited Address at the 1<sup>st</sup> Annual Conference on the Physics, Chemistry and Biology of Water, Brattleboro, Vermont, 26-29 October 2006.

[L29] Roderick ML (2007) The changing water balance: How is it panning out?, invited lecture at the University of Illinois, December 2007.

[L30] Roderick ML (2008) The surface water balance: How is it panning out?, invited address at Geological Society of Australia Annual General Meeting, Canberra, 15 April 2008.

[L31] Roderick ML, Farquhar GD (2008) Climate Change & Water: Getting the Big Picture Right, Invited address at the Australian National Science Festival, Canberra, 21 August 2008.

### **Publications – Conferences & other not peer-reviewed literature**

- [N1] Roderick ML and Smith RCG (1992) Use of NOAA Derived Seasonal Vegetation Data within a GIS for Broad Scale Management in Western Australia, Proceedings of 6th Australasian Remote Sensing Conference, Wellington, NZ, November 1992, Vol. 3, pp. 194-198.
- [N2] Roderick ML (1993) Opportunities for the use of remote sensing to meet client needs for rangeland monitoring information. In: *Plant Dynamics and Interpretation in Rangeland Ecosystems*. Western Australian Department of Agriculture Miscellaneous Publication No. 27/93, Perth, 115 pp.
- [N3] Roderick ML, Smith RCG, Lodwick GD (1995) Annual growth dynamics over continental scale regions using satellite derived vegetation indices. In: West, N.E. (ed.) *5th International Rangeland Congress*. Society for Range Management, Colorado, Salt Lake City, Utah, pp. 477-478
- [N4] Roderick ML, Smith RCG, Lodwick GD (1995) Rainfall/Plant growth relationships using transfer functions and satellite observations. In: West, N.E. (ed.) *5th International Rangeland Congress*. Society for Range Management, Colorado, Salt Lake City, Utah, pp. 479-480
- [N5] Roderick ML (1996) Editor of 37<sup>th</sup> *Australian Surveyors Conference*. April 13-18, 1996, Perth, 496 pp.
- [N6] Roderick ML, Noble IR (1998) Tree-grass dynamics: Satellite observations for 1981-1991 from Australia, GCTE-LUCC Open Science Conference on Global Change, Institut Cartografic de Catalunya, Barcelona, 14-18 March 1998, p. 129.
- [N7] Featherstone WE, Roderick ML, Munsie SW (1999) Teaching geodetic field surveying to final-year students at Curtin University of Technology. In: *6th South East Asian Surveyors' Congress*. Fremantle, Western Australia, pp. 376-381.
- [N8] Hume IH, McVicar TR, Roderick ML (2000) Estimating overstorey and understorey biomass in woodlands. In: *Proc. of the Land EnvSat Workshop*, 10<sup>th</sup> Australasian Remote Sensing Photogrammetry Conference, Adelaide, South Australia, p. 15-27.
- [N9] Roderick ML, Berry SL, Noble IR, Farquhar GD (2001) An alternative framework for describing the temperature sensitivity of biological processes based on the viscosity of water. IGBP Global Change Open Science Conference, IGBP, IHDP & WCRP, Amsterdam, 10-13 July 2001, p. 85.
- [N10] Berry SL, Roderick ML (2001) Effect of changing [CO<sub>2</sub>] and land use on the Australian vegetation since the pre-industrial period. 6<sup>th</sup> International Carbon Dioxide Conference, Sendai, Japan, 1-5 October 2001. pp. 563-565.
- [N11] Berry SL, Roderick ML (2002) Effect of changing concentration of carbon dioxide and land use on the Australian vegetation since the pre-industrial period. Ecology 2002 Conference, Ecological Society of Australia and New Zealand Ecological Society, Cairns, 2-6 December 2002.

[N12] Barnes B, Roderick ML (2003) The mathematical formulation of an ecological framework linking scales based on self-thinning. Invited symposium address, International Congress of Applied Mathematics, Sydney, July 2003.

[N13] Sulistyawati E, Noble IR, Roderick ML (2003). A simulation model to study land-use strategies in swidden agricultural system. In: Proceeding of the Conference on Land-use Strategy in Globalizing World, Mertz, O., Wadley, R.L., Cristensen, A.E.(Eds), Institute of Geography-University of Copenhagen, Copenhagen, 21-23 August 2003.

[N14] Roderick ML, Farquhar GD (2003) Debunking myths: Greenhouse and the hydrological cycle. Ecological Society of Australia Annual Conference, Armidale, NSW, 8-10 December 2003.

[N15] Barnes B, Bi H, Roderick ML (2004) A generic framework for ecological scaling based on self-thinning, 89<sup>th</sup> Annual meeting of the Ecological Society of America, Portland, Oregon, August, 2004.

[N16] Schymanski SJ, Sivapalan M, Roderick ML (2005) Modeling of Transpiration by natural Vegetation through Maximisation of net Carbon Profit, Invited presentation at the European Geophysical Union General Assembly, Vienna, 24-29 April 2005.

[N17] Gifford RM, Farquhar GD, Roderick ML, Nicholls N (2005) Pan evaporation: an example of the detection and attribution of trends in climate variables, Australian Academy of Science, May 2005, 81 pp.

[N18] Schymanski SJ, Sivapalan M, Roderick ML (2005) Transpiration: the leak in the carbon factory - A model of self-optimising vegetation. Sir Mark Oliphant Conference titled Thresholds and pattern dynamics: A new paradigm for predicting climate driven processes, UWA, Perth, July 2005.

[N19] Donohue RJ, Roderick ML, McVicar TR (2005) Putting the 'Eco' into Ecohydrology, Sir Mark Oliphant Conference titled Thresholds and pattern dynamics: A new paradigm for predicting climate driven processes, UWA, Perth, July 2005.

[N20] Rotstayn LD, Dix MR, Roderick ML, Farquhar GD (2005) Pan evaporation in 20th century global climate simulations: Model implementation and results for Australia. *17<sup>th</sup> Annual Bureau of Meteorology Research Centre Modelling Workshop - Hydrometeorological Applications of Weather and Climate Modelling, 3-6 October 2005*, A. J. Hollis, Editor, BMRC Research Report No. 111, 25-28. Available online at <http://www.bom.gov.au/bmrc/pubs/researchreports/RR111.pdf>.

[N21] Hobbins MT, Roderick ML, Farquhar GD (2005) Using a half-century of mis-diagnosis to make bad predictions about future drought trends, Gary Comer Abrupt Climate Change Fellowship Roundtable, New York, 20-22 October, 2005.

[N22] Roderick ML, Farquhar GD, Hobbins MT (2005) Climate change: wetter or drier? Ecological Society of Australia Annual Conference, Brisbane, Qld, 28 November-2 December 2005.

[N23] Schymanski SJ, Sivapalan M, Roderick ML, Hutley L, Beringer J (2005) A test of the optimality approach to modelling canopy gas exchange by natural vegetation. AGU Winter Assembly, San Francisco, 5-9 December 2005.

[N24] Sivapalan M, Schymanski SJ, Roderick ML (2005) Transpiration as the leak in a Carbon factory: A model of self-optimising vegetation. Invited Address at the AGU Assembly, San Francisco, 5-9 December 2005.

[N25] Roderick ML, Farquhar GD (2006) Seasonal changes in Australian pan evaporation, Land & Water Australia Technical Report, 39 pp.

[N26] Roderick ML, Farquhar GD (2006) A Physical Analysis of Changes in Australian pan evaporation, Land & Water Australia Technical Report, 59 pp.

[N27] Hobbins MT, Roderick ML, Farquhar GD (2006) What are we talking about when we talk about drying?, ANZ Climate Forum, Canberra, 5-7 September.

[N28] Donohue RJ, Roderick ML, McVicar TR (2006) Climate-related changes in Australia's Vegetation, AGU Annual Assembly, San Francisco, 11-16 December 2006.

[N29] Hobbins MT, Roderick ML, Farquhar GD (2006) Is the Temperature-Based Parameterization of Potential Evapotranspiration in the Palmer Drought Severity Index Forcing Overestimates of Mid-continental Drying and Drought?, AGU Annual Assembly, San Francisco, 11-16 December 2006.

[N30] Schymanski SJ, Sivapalan M, Roderick ML (2007) Possible long-term effects of increased CO<sub>2</sub> on vegetation and the hydrological cycle. EGU General Assembly, Vienna, Austria, 15-20 April 2007.

[N31] Gifford RM, Roderick ML, Farquhar GD (2007) Evaporative demand: Does it increase with global warming? IGBP Global Change Newsletter No. 69, p. 21-23, May 2007. April 2007.

[N32] Donohue RJ, Roderick ML, McVicar, TR (2007) Correcting long-term AVHRR reflectance data using the vegetation cover triangle, CSIRO Land and Water Science Report 26/07. 83 pp. (Online at <http://www.clw.csiro.au/publications/science/2007/sr26-07.pdf>)

[N33] Hobbins MT, Farquhar GD, Roderick ML (2007) Do Temperature-Based Parameterizations of Evaporative Demand force overestimates of mid-latitude continental drying?, Comer Fellows Meeting, New York.

[N34] Donohue RJ, Roderick ML, McVicar TR. (2007) Vegetation in a hydrologic setting: from theory to observation, AGU Annual Assembly, San Francisco, 10-14 December 2007.

[N35] Roderick ML, Farquhar GD (2007) Can the worldwide changes in evaporative demand be reconciled with changes expected due to global warming?, AGU Annual Assembly, San Francisco, 10-14 December 2007.

[N36] Farquhar GD, Hobbins MT, Roderick ML, Rotstayn LD (2007) PenPan: A general tool for the attribution of changing pan evaporation, AGU Annual Assembly, San Francisco, 10-14 December 2007.

[N37] Schymanski SJ, Sivapalan M, Roderick ML, Beringer J, Hutley LB (2007) Optimality and soil water-vegetation dynamics, AGU General Assembly, San Francisco, 10-14 December 2007.

[N38] Hobbins MT, Dai A, Roderick ML, Farquhar GD (2008) Parameterizing evaporative demand in the Palmer Drought Severity Index across Australia, AGU Western Pacific Geophysics Meeting, Cairns, 28 July 2008.