

M.R. Raupach: Publications

Refereed or Invited Publications:

1. Raupach, M.R. (1976). Atmospheric flux measurement by eddy correlation. Ph.D. Thesis, Flinders University, South Australia. (Reprinted as FIAMS Research Report No. 27, Flinders University, South Australia). ([Raupach, 1976a](#))
2. Raupach, M.R. (1978). Infrared fluctuation hygrometry in the atmospheric surface layer. *Quart. J. Roy. Meteorol. Soc.* 104, 309-322. (Raupach, 1978a)
3. Raupach, M.R. (1979). Anomalies in flux-gradient relationships over forest. *Boundary-Layer Meteorol.* 16, 467-486. [CEM 424] (Raupach, 1979)
4. Raupach, M.R., Thom, A.S. and Edwards, I. (1980). A wind tunnel study turbulent flow close to regularly arrayed rough surfaces. *Boundary-Layer Meteorol.* 18, 373-397. [CEM 436] ([Raupach et al., 1980b](#))
5. Raupach, M.R. and Thom, A.S. (1981). Turbulence in and above plant canopies. *Ann. Rev. Fluid Mech.* 13, 97-129. [CEM 451] (Raupach *et al.*, 1981)
6. Raupach, M.R. (1981). Conditional statistics of Reynolds stress in rough-wall and smooth-wall turbulent boundary layers. *J. Fluid Mech.* 108, 363-382. [CEM 460] (Raupach, 1981)
7. Raupach, M.R. and Shaw, R.H. (1982). Averaging procedures for flow within vegetation canopies. *Boundary-Layer Meteorol.* 22, 79-90. [CEM 469] (Raupach *et al.*, 1982)
8. Legg, B.J. and Raupach, M.R. (1982). Markov-chain simulation of particle dispersion in inhomogeneous flows: the mean drift velocity induced by a gradient in Eulerian velocity variance. *Boundary-Layer Meteorol.* 24, 3-13. [CEM 501] (Legg *et al.*, 1982)
9. Raupach, M.R. and Legg, B.J. (1983). Turbulent dispersion from an elevated line source: measurements of wind-concentration moments and budgets. *J. Fluid Mech.* 136, 111-137. [CEM 519] (Raupach *et al.*, 1983)
10. Raupach, M.R. (1983). Near-field dispersion from instantaneous sources in the atmospheric surface layer. *Boundary-Layer Meteorol.* 27, 105-113. [CEM 529] (Raupach, 1983b)
11. Banks, H.J., Longstaff, R.A. Raupach, M.R. and Finnigan, J.J. (1983). Wind-induced pressure distribution on a large grain storage shed: prediction of wind-driven ventilation rates. *J. Stored Products Res.* 19, 181-188. [CEM 513] (Banks *et al.*, 1983)
12. Raupach, M.R. and Legg, B.J. (1984). The uses and limitations of flux-gradient relationships in micrometeorology. *Agric. Water Management* 8, 119-131. [CEM 494] (Raupach *et al.*, 1984)
13. Legg, B.J., Coppin, P.A. and Raupach, M.R. (1984). A three-hot-wire anemometer for measuring two velocity components in high-intensity turbulent boundary layers. *J. Phys. E* 17, 970-976. [CEM 548] (Legg *et al.*, 1984)
14. Raupach, M.R., Coppin, P.A. and Legg, B.J. (1986). Experiments on scalar dispersion within a plant canopy, part I: the turbulence structure. *Boundary-Layer Meteorol.* 35, 21-52. [CEM 574] (Raupach *et al.*, 1986b)
15. Coppin, P.A., Raupach, M.R. and Legg, B.J. (1986). Experiments on scalar dispersion within a plant canopy, part II: an elevated plane source. *Boundary-Layer Meteorol.* 35, 167-191. [CEM 575] (Coppin *et al.*, 1986)
16. Legg, B.J., Raupach, M.R. and Coppin, P.A. (1986). Experiments on scalar dispersion within a plant canopy, part III: an elevated line source. *Boundary-Layer Meteorol.* 35, 277-302. [CEM 583] (Legg *et al.*, 1986)
17. Finnigan, J.J. and Raupach, M.R. (1987). Transfer processes in plant canopies in relation to stomatal characteristics. In: *Stomatal Function* (Eds. E. Zeiger, G.D. Farquhar and I.R. Cowan). (Stanford University Press, Stanford, CA, USA). p. 385-429. [CEM 537] (Finnigan *et al.*, 1987)
18. Raupach, M.R. (1987). A Lagrangian analysis of scalar transfer in vegetation canopies. *Quart. J. Roy. Meteorol. Soc.* 113, 107-120. [CEM 591] (Raupach, 1987a)

19. Raupach, M.R. (1988). Canopy transport processes. In: *Flow and transport in the natural environment: advances and applications* (Eds. W.L. Steffen and O.T. Denmead). (Springer-Verlag, Berlin). p. 95-127. [CEM 652](Raupach, 1988a)
20. Raupach, M.R. and Finnigan, J.J. (1988). Single-layer evapotranspiration models are incorrect but useful, whereas multilayer models are correct but useless: discuss. *Aust. J. Plant Physiol.* **15**, 715-726. [CEM 674](Raupach *et al.*, 1988)
21. Raupach, M.R. (1989). Turbulent transfer in plant canopies. In: *Plant canopies - their growth, form and function* (Eds. G. Russell, B. Marshall and P.G. Jarvis). (Cambridge University Press, Cambridge, U.K.). p. 41-61. [CEM 587](Raupach, 1989e)
22. Raupach, M.R. (1989). A practical Lagrangian method for relating scalar concentrations to source distributions in vegetation canopies. *Quart. J. Roy. Meteorol. Soc.* **115**, 609-632. [CEM 668](Raupach, 1989a)
23. Raupach, M.R. (1989). Applying Lagrangian fluid mechanics to infer scalar source distributions from concentration profiles in plant canopies. *Agric. Forest Meteorol.* **47**, 85-108. [CEM 676](Raupach, 1989b)
24. Raupach, M.R. (1989). Stand overstorey processes. *Phil. Trans. Roy. Soc. London B* **324**, 175-190. [CEM 660](Raupach, 1989d)
25. Raupach, M.R., Finnigan, J.J. and Brunet, Y. (1989). Coherent eddies in vegetation canopies. *Proc. Fourth Australasian Conference on Heat and Mass Transfer*, Christchurch, New Zealand, 9-12 May 1989. p. 75-90. [CEM 685] (Raupach *et al.*, 1989a)
26. Finnigan, J.J., Raupach, M.R., Bradley, E.F. and Aldis, G.K. (1990). A wind tunnel study of turbulent flow over a two-dimensional ridge. *Boundary-Layer Meteorol.* **50**, 277-317. [CEM 690](Finnigan *et al.*, 1990)
27. Raupach, M.R. and Leys, J.F. (1990). Aerodynamics of a portable wind erosion tunnel for measuring soil erodibility by wind. *Aust. J. Soil Res.* **28**, 177-191. [CEM 698](Raupach *et al.*, 1990)
28. Raupach, M.R. (1990). Similarity analysis of the interaction of bushfire plumes with ambient winds. *Mathl. Comput. Modelling* **13**, 113-121. [CEM 700](Raupach, 1990)
29. Raupach, M.R., Antonia, R.A. and Rajagopalan, S. (1991). Rough-wall turbulent boundary layers. *Appl. Mech. Revs.* **44**, 1-25. [CEM 713](Raupach *et al.*, 1991)
30. Raupach, M.R. (1991). Vegetation-atmosphere interaction in homogeneous and heterogeneous terrain: some implications of mixed-layer dynamics. *Vegetatio* **91**, 105-120. [CEM 716](Raupach, 1991c)
31. Raupach, M.R. (1991). Saltation layers, vegetation canopies and roughness lengths. *Acta Mechanica* (suppl) 1, 83-96. [CEM 736] (Raupach, 1991b)
32. Malcolm, L.P. and Raupach, M.R. (1991). Measurements in an air settling tube of the terminal velocity distribution of soil material. *J. Geophys. Res.* **96**, 15275-15286. [CEM 744](Malcolm *et al.*, 1991)
33. Leys, J.F. and Raupach, M.R. (1991). Soil flux measurements using a portable wind erosion tunnel. *Aust. J. Soil Res.* **29**, 533-552. [CEM 745](Leys *et al.*, 1991)
34. Lenschow, D.H. and Raupach, M.R. (1991). The attenuation of fluctuations in scalar concentrations through sampling tubes. *J. Geophys. Res.* **96**, 15259-15268. [CEM 751](Lenschow *et al.*, 1991)
35. Bisset, D.K., Antonia, R.A. and Raupach, M.R. (1991). Topology and transport properties of the large scale organized motion in a slightly heated rough wall boundary layer. *Phys. Fluids A* **3**, 2220-2228 [CEM 752](Bisset *et al.*, 1991)
36. Raupach, M.R., Weng, W.S., Carruthers, D.J. and Hunt, J.C.R. (1992). Temperature and humidity fields and fluxes over low hills. *Quart. J. Roy. Meteorol. Soc.* **118**, 191-225. [CEM 761](Raupach *et al.*, 1992b)
37. Shao, Y. and Raupach, M.R. (1992). The overshoot and equilibration of saltation. *J. Geophys. Res.* **97**, 20559-20564. [CEM 788](Shao *et al.*, 1992)

38. Raupach, M.R. (1992). Drag and drag partition on rough surfaces. *Boundary-Layer Meteorol.* **60**, 375-395. [CEM 779]. [Corrigendum: *Boundary-Layer Meteorol.* **76**, 303-304 (1995)].(Raupach, 1992a)
39. Raupach, M.R., Denmead, O.T. and Dunin, F.X. (1992). Challenges in linking atmospheric CO₂ concentrations to fluxes at local and regional scales. *Aust. J. Bot.* **40**, 697-716. [CEM 785](Raupach et al., 1992a)
40. Denmead, O.T. and Raupach, M.R. (1993). Methods for measuring atmospheric gas transport in agricultural and forest systems. In: *Agricultural ecosystem effects on trace gases and global climate change* (Eds. D.E. Rolston, L.A. Harper, A.R. Mosier, and J.M. Duxbury). (ASA Special Publication no. 55). (American Society of Agronomy, Madison). p. 19-43. [CEM 782] (Denmead et al., 1993)
41. Raupach, M.R., Gillette, D.A. and Leys, J.F. (1993). The effect of roughness elements on wind erosion threshold. *J. Geophys. Res.* **98**, 3023-3029. [CEM 787](Raupach et al., 1993)
42. Shao, Y., Raupach, M.R. and Findlater, P.A. (1993). Effect of saltation bombardment on the entrainment of dust by wind. *J. Geophys. Res.* **98**, 12719-12726. [CEM 802](Shao et al., 1993b)
43. Antonia, R.A. and Raupach, M.R. (1993). Spectral scaling in a high Reynolds number laboratory boundary layer. *Boundary-Layer Meteorol.* **65**, 289-306. [CEM 832](Antonia et al., 1993)
44. Shao, Y., McTainsh, G.H., Leys, J.F. and Raupach, M.R. (1993). Efficiencies of sediment samplers for wind erosion measurement. *Aust. J. Soil Res.* **31**, 519-532. [CEM 817](Shao et al., 1993a)
45. Raupach, M.R. (1993). The averaging of surface flux densities in heterogeneous landscapes. In: *Exchange Processes at the Land Surface for a Range of Space and Time scales* (Eds. H.-J. Bolle, R.A. Feddes and J.D. Kalma). IAHS Publ. no. 212 (IAHS Press, Wallingford, UK). p. 343-355. [CEM 826](Raupach, 1993f)
46. Raupach, M.R. (1993). Dry deposition of gases and particles to vegetation. *Clean Air* **27**, 200-203. [CEM 844] (Raupach, 1993b)
47. Brunet, Y., Finnigan, J.J. and Raupach, M.R. (1994). A wind tunnel study of air flow in waving wheat: single-point velocity statistics. *Boundary-Layer Meteorol.* **70**, 95-132. [CEM 838](Brunet et al., 1994)
48. Raupach, M.R. (1994). Simplified expressions for vegetation roughness length and zero-plane displacement as functions of canopy height and area index. *Boundary-Layer Meteorol.* **71**, 211-216. [CEM 848]. (Raupach, 1994b)
49. [Corrigendum: *Boundary-Layer Meteorol.* 76, 303-304 (1995)]. (Raupach, 1995a)
50. Raupach, M.R., McTainsh, G.H. and Leys, J.F. (1994). Estimates of dust mass in recent major Australian dust storms. *Aust. J. Soil and Water Conserv.* **7**(3), 20-24. [CEM 860] (Raupach et al., 1994b)
51. Shao, Y., Raupach, M.R. and Short, D. (1994). Preliminary assessment of wind erosion patterns in the Murray-Darling Basin. *Aust. J. Soil and Water Conserv.* **7**(3), 46-51. [CEM 861] (Shao et al., 1994)
52. Kelliher, F.H., Leuning, R., Raupach, M.R. and Schulze, E.-D. (1995). Maximum conductances for evaporation from global vegetation types. *Agric. For. Meteorol.* **73**, 1-16. [CEM 853](Kelliher et al., 1995)
53. Raupach, M.R. (1995). Vegetation-atmosphere interaction and surface conductance at leaf, canopy and regional scales. *Agric. For. Meteorol.* **73**, 151-179. [CEM 870](Raupach, 1995b)
54. Raupach, M.R. and Finnigan, J.J. (1995). Scale issues in boundary layer meteorology: surface energy balances in heterogeneous terrain. *Hydrol. Processes* **9**, 589-612. [CEM 869](Raupach et al., 1995b)
55. Shaw, R.H., Brunet, Y., Finnigan, J.J. and Raupach, M.R. (1995). A wind tunnel study of air flow in waving wheat: two point velocity statistics. *Boundary-Layer Meteorol.* **76**, 349-376. [CEM 917](Shaw et al., 1995a)

56. Raupach, M.R., Finnigan, J.J and Brunet, Y. (1996). Coherent eddies and turbulence in vegetation canopies: the mixing layer analogy. *Boundary-Layer Meteorol.* **78**, 351-382. [CEM 916](Raupach *et al.*, 1996b)
57. Judd, M.J., Raupach, M.R. and Finnigan, J.J. (1996). A wind tunnel study of turbulent flow around single and multiple windbreaks, Part I: velocity fields. *Boundary-Layer Meteorol.* **80**, 127-165. [CEM 915](Judd *et al.*, 1996)
58. Denmead, O.T., Raupach, M.R., Dunin, F.X., Cleugh, H.A. and Leuning, R. (1996). Boundary layer budgets for regional estimates of scalar fluxes. *Global Change Biol.* **2**, 255-264 [CEM 909](Denmead *et al.*, 1996)
59. McNaughton, K.G. and Raupach, M.R. (1996). Responses of the convective boundary layer and the surface energy balance to large-scale heterogeneity. In: *Scaling up in Hydrology using Remote Sensing* (Eds. J.B. Stewart, E.T. Engman, R.A. Feddes and Y. Kerr). (Wiley, Chichester). p. 171-182. [CEM 918] (McNaughton *et al.*, 1996)
60. Shao, Y., Raupach, M.R. and Leys, J.F. (1996). A model for predicting aeolian sand drift and dust emission on scales from paddock to region. *Aust. J. Soil Res.* **34**, 309-342. [CEM 926](Shao *et al.*, 1996)
61. Raupach, M.R. and Finnigan, J.J. (1997). The influence of topography on meteorological variables and surface-atmosphere interactions. *J. Hydrol.* **190**, 182-213. [CEM 894](Raupach *et al.*, 1997c)
62. Denmead, O.T., Leuning, R. and Raupach, M.R. (1997). Inferring sources and sinks of mass and energy in plant canopies through inverse Lagrangian analysis. *J. Agric. Meteorol.* **52**, 441-444. (Denmead *et al.*, 1997c)
63. Denmead, O.T., Dunin, F.X., Leuning, R. and Raupach, M.R. (1997). Measuring and modelling soil evaporation in wheat crops. *Phys. Chem. Earth* **21**, 97-100. (Denmead *et al.*, 1997a)
64. Raupach, M.R., Finkele, K., Briggs, P.R., Cleugh, H.A., Coppin, P.A., Leuning, R. and Graetz, R.D. (1997). Water and carbon dynamics of the Australian biosphere. In: *Climate Prediction for Agricultural and Resource Management* (Eds. R.K. Munro and L.M. Leslie). Bureau of Resource Sciences, Canberra, Australia. p. 218-229.(Raupach *et al.*, 1997a)
65. Raupach, M.R. (1998). Influences of local feedbacks on land-air exchanges of energy and carbon. *Global Change Biol.* **4**, 477-494.(Raupach, 1998a)
66. Pielke, R.A., Avissar, R., Raupach, M.R., Dolman, H., Zeng, X. and Denning, S. (1998). Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. *Global Change Biol.* **4**, 461-475.(Pielke *et al.*, 1998)
67. Wilson, J.D., Finnigan, J.J. and Raupach, M.R. (1998). Analytical and first-order closure for disturbed plant-canopy flows, and their application to windflow through a plant canopy on a ridge. *Quart. J. Meteorol. Soc.* **124**, 705-732.(Wilson *et al.*, 1998)
68. Patton, E.G., Shaw, R.H., Judd, M.J. and Raupach, M.R. (1998). Large-eddy simulation of windbreak flow. *Boundary-Layer Meteorol.* **87**, 275-306.(Patton *et al.*, 1998)
69. Raupach, M.R. (1998). Response to Gu (1998), "Comments on 'A practical Lagrangian method for relating scalar concentrations and source distributions in plant canopies' by M.R. Raupach (1989: *Quart. J. Roy. Meteorol. Soc.* **115**, 609-632)". *Boundary-Layer Meteorol.* **87**, 525-528. (Raupach, 1998b)
70. Leys, J.F., Larney, F.J., Müller, J.F., Raupach, M.R., McTainsh, G.H. and Lynch, A.W. (1998). Anthropogenic dust and endosulfan emissions on a cotton farm in northern New South Wales, Australia. *Science of the Total Environment* **220**, 55-70.(Leys *et al.*, 1998)
71. IGBP Terrestrial Carbon Working Group (Steffen, W., Noble, I., Canadell, J., Apps, M., Schulze, E-D., Jarvis, P.G., Baldocchi, D., Ciais, P., Cramer, W., Ehleringer, J., Farquhar, G., Field, C.B., Ghazi, A., Gifford, R., Heimann, M., Houghton, R., Kabat, P., Körner, C., Lambin, E., Linder, S., Mooney, H.A., Murdiyarso, D., Post, W.M., Prentice, I.C., Raupach, M.R., Schimel, D.S., Shvidenko, A. and Valentini, R.) (1998). The terrestrial carbon cycle: implications for the Kyoto Protocol. *Science* **280**, 1393-1394. (Steffen *et al.*, 1998)

72. Hutjes, R.W.A., Kabat, P., Running, S.W., Shuttleworth, W.J., Field, C.B., Bass, B., Assunçao da Silva Dias, M., Avissar, R., Becker, A., Claussen, M., Dolman, A.J., Feddes, R.A., Fosberg, M., Fukushima, Y., Gash, J.H.C., Guenni, L., Hoff, H., Jarvis, P.G., Kayane, I., Krenke, A.N., Liu, Changming, Meybeck, M., Nobre, C.A., Oyebande, L., Pitman, A., Pielke, R.A., Raupach, M.R., Saugier, B., Schulze, E.-D., Sellers, P.J., Tenhunen, J.D., Valentini, R., Victoria, R.L. and Vörösmarty, C.J. (1998). Biospheric Aspects of the Hydrological Cycle. *J. Hydrol.* **213**, 1-21.(Hutjes *et al.*, 1998)
73. Raupach, M.R., Baldocchi, D.D., Bolle, H.-J., Dümenil, L., Eugster, W., Meixner, F.X., Olejnik, J.A., Pielke, R.A., Tenhunen, J.D. and Valentini, R. (1999). Group Report: How is the atmospheric coupling of land surfaces affected by topography, complexity in landscape patterning, and the vegetation mosaic? In: *Integrating Hydrology, Ecosystem Dynamics and Biogeochemistry in Complex Landscapes* (Eds. J.D. Tenhunen and P. Kabat). (Wiley, Chichester). p. 177-196. (Raupach *et al.*, 1999a)
74. Ayotte, K.W., Finnigan, J.J. and Raupach, M.R. (1999). A second-order closure for neutrally stratified vegetative canopy flows. *Boundary-Layer Meteorol.* **90**, 189-216.(Ayotte *et al.*, 1999)
75. Raupach, M.R. (2000). Equilibrium evaporation and the convective boundary layer. *Boundary-Layer Meteorol.* **96**, 107-141.(Raupach, 2000)
76. Raupach, M.R. (2001). Combination theory and equilibrium evaporation. *Quart. J. Roy. Meteorol. Soc.* **127**, 1149-1181.(Raupach, 2001a)
77. Raupach, M.R. (2001). Inferring biogeochemical sources and sinks from atmospheric concentrations: general considerations and applications in vegetation canopies. In: *Global Biogeochemical Cycles in the Climate System* (Eds. E.-D. Schulze, S.P. Harrison, M. Heimann, E.A. Holland, J. Lloyd, I.C. Prentice and D. Schimel). (Academic Press, San Diego). p. 41-59.(Raupach, 2001b)
78. Lloyd J, Francey RJ, Mollicone D, Raupach MR, Sogachev A, Arneth A, Byers JN, Kelliher FM, Rebmann C, Valentini R, Wong SC, Bauer G, Schulze ED (2001). Vertical profiles, boundary layer budgets and regional flux estimates for CO₂, its ¹³C/¹²C ratio, and for water vapour above a forest/bog mosaic in central Siberia. *Global Biogeochemical Cycles* **15**, 267-284.(Lloyd *et al.*, 2001)
79. Raupach, M.R., Briggs, P.R., Ford, P.W., Leys, J.F., Muschal, M. and Cooper, B. (2001). Endosulfan transport I: Integrative assessment of airborne and waterborne pathways. *J. Environ. Qual.* **30**, 714-728.(Raupach *et al.*, 2001e)
80. Raupach, M.R., Briggs, P.R., Ahmad, N. and Edge, V. (2001). Endosulfan transport II: Modelling airborne dispersal and deposition by spray and vapour. *J. Environ. Qual.* **30**, 729-740. (Raupach *et al.*, 2001d)
81. Raupach, M.R., Woods, N., Dorr, G., Leys, J.F. and Cleugh, H.A. (2001). The entrapment of particles by windbreaks. *Atmos. Environ.* **35**, 3373-3383.(Raupach *et al.*, 2001h)
82. Schimel, D.S., House, J.I., Hibbard, K.A., Bousquet, P., Ciais, P., Peylin, P., Braswell, B.H., Apps, M.J., Baker, D., Bondeau, A., Canadell, J., Churkina, G., Cramer, W., Denning, A.S., Field, C.B., Friedlingstein, P., Goodale, C., Heimann, M., Houghton, R.A., Melillo, J.M., Moore, B. III, Murdiyarso, D., Noble, I., Pacala, S.W., Prentice, I.C., Raupach, M.R., Rayner, P.J., Scholes, R.J., Steffen, W.L. and Wirth, C. (2001). Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. *Nature* **414**, 169-172.(Schimel *et al.*, 2001)
83. Raupach, M.R. (2002). Diffusion of heavy particles in a turbulent flow. In: *Environmental Mechanics: Water, Mass and Energy Transfer in the Biosphere (The Philip Volume)* (Eds. P.A.C. Raats, D.E. Smiles and A.W. Warrick). AGU Geophysical Monograph 129 (American Geophysical Union, Washington DC). p. 301-316. (Raupach, 2002)
84. Styles, J.M., Raupach, M.R., Farquhar, G.D., Kolle, O., Lawton, K.A., Brand, W.A., Werner, R.A., Jordan, A., Schulze' E.-D., Shibistova, O. and Lloyd, J. (2002). Soil and canopy CO₂, ¹³CO₂, H₂O and sensible heat flux partitions in a forest canopy inferred from concentration measurements. *Tellus* **54B**, 655-676.(Styles *et al.*, 2002)

85. Cihlar, J., Denning, S., Ahearn, F., Arino, O., Belward, A., Bretherton, F., Cramer, W., Dedieu, G., Field, C., Francey, R., Gommes, R., Gosz, J., Hibbard, K., Igarashi, T., Kabat, P., Olson, R., Plummer, S., Rasool, I., Raupach, M.R., Scholes, R., Townshend, J., Valentini, R. and Wickland, D. (2002). Initiative to quantify terrestrial carbon sources and sinks. *EOS Transactions* 83, 1-7. (Cihlar *et al.*, 2002b)
86. Lu, H., Raupach, M.R., McVicar, T.R. and Barrett, D.J. (2003). Decomposition of vegetation cover into woody and herbaceous components using AVHRR NDVI time series. *Remote Sensing of the Environment* 86, 1-18.(Lu *et al.*, 2003b)
87. Finkele, K., Katzfey, J.J., Kowalczyk, E.A., McGregor, J.L., Zhang, L. and Raupach, M.R. (2003). Modelling of the OASIS energy flux measurements using two canopy concepts. *Boundary-Layer Meteorol.* 107, 49-79.(Finkele *et al.*, 2003)
88. Leuning, R., Raupach, M.R. and Cleugh, H.A. (2004). Preface to the Special Issue on OASIS (Observations At Several Interacting Scales) – a field experiment held in south-east Australia in 1994 and 1995 to investigate biosphere-atmosphere exchange in the presence of mesoscale surface heterogeneity. *Boundary-Layer Meteorol.* 110, 1-2.(Leuning *et al.*, 2004a)
89. Leuning, R., Raupach, M.R., Coppin, P.A., Cleugh, H.A., Isaac, P.R., Denmead, O.T., Dunin, F.X., Zegelin, S. and Hacker, J.M. (2004). Spatial and temporal variation in fluxes of energy, water vapour and carbon dioxide during OASIS 1994 and 1995. *Boundary-Layer Meteorol.* 110, 3-38.(Leuning *et al.*, 2004b)
90. Isaac, P.R., Leuning, R., Hacker, J.M., Cleugh, H.A., Coppin, P.A. Denmead, O.T. and Raupach, M.R. (2004). Estimation of regional evapotranspiration by combining aircraft and ground-based measurements. *Boundary-Layer Meteorol.* 110, 69-98.(Isaac *et al.*, 2004)
91. Cleugh, H.A., Raupach, M.R., Briggs, P.R. and Coppin, P.A. (2004). Regional-scale heat and water vapour fluxes in an agricultural landscape: an evaluation of CBL budget methods at OASIS. *Boundary-Layer Meteorol.* 110, 99-137. (Cleugh *et al.*, 2004)
92. Raupach, M.R. and Lu, H. (2004). Representation of land-surface processes in aeolian transport models. *Environmental Modelling and Software* 19, 93-112.(Raupach *et al.*, 2004b)
93. Field, C.B., Raupach, M.R. and Victoria, R. (2004). The Global Carbon Cycle: Integrating Humans, Climate, and the Natural World. In: *The Global Carbon Cycle: Integrating Humans, Climate and the Natural World*. (Eds: Field, C.B. and Raupach, M.R.). Island Press. p. 1-13. (Field *et al.*, 2004b)
94. Raupach, M.R., Canadell, J.G., Bakker, D., Ciais, P., José Sanz, M., Fang, J.Y., Melillo, J., Romero, P., Sathaye, J., Schulze, E.-D., Smith, P. and Tscharley, J. (2004). Interactions between CO₂ stabilisation pathways and requirements for a sustainable earth system. In: *The Global Carbon Cycle: Integrating Humans, Climate and the Natural World*. (Eds: Field, C.B. and Raupach, M.R.). Island Press. p. 131-162.(Raupach *et al.*, 2004a)
95. 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. and Roderick, M.L. (2004). A critical overview of model estimates of net primary productivity for the Australian continent. *Functional Plant Biology* 31, 1043-1059. (Roxburgh *et al.*, 2004)
96. Raupach, M.R., Rayner, P., Barrett, D.J., DeFries, R., Heimann, M., Ojima, D., Quegan, S. and Schmullius, C. (2005). Model-data synthesis in terrestrial carbon observation: methods, data requirements and data uncertainty specifications. *Global Change Biology* 10.1111/j.1365-2486.2005.00917.x.(Raupach *et al.*, 2005)
97. Denmead, O.T., Raupach, M.R., Leuning, R., Dunin, F.X. and Freney, J.R. (2005). Inverse Lagrangian analysis of heat, vapour and gas exchange in plant canopies. In: *Micrometeorology in Agricultural Systems* (Eds. Hatfield, J.L., Baker, J.M. and Viney, M.K.). (American Society of Agronomy, Madison). (In Press). (Denmead *et al.*, 2005)
98. Canadell, J.G., Raupach, M.R. (2005). The challenge of stabilising atmospheric CO₂ concentrations. *Global Change Newsletter*, (61)

99. Lu, H., Raupach, M.R., Richards, K.S. (2005). Modeling entrainment of sedimentary particles by wind and water: a generalized approach. *Journal of Geophysical Research - Atmospheres*, 110(D24):D24114, doi:10.1029/2005JD006418.
100. Trudinger, C., Raupach, M.R., Rayner, P. (2005). The Optimisation InterComparison project (OptIC): development of evaluation methods for parameter estimation in biogeochemical cycle models using remotely sensed data. *Geophysical Research Abstracts*, 7(06116):SRef-ID: 1607-7962/gra/EGU05-A-06116.
101. Raupach, M.R., Hughes, D., Cleugh, H.A. (2006). Momentum absorption in rough-wall boundary layers with sparse roughness elements in random and clustered distributions. *Boundary-Layer Meteorology*, 120(2):201-218.
102. Trudinger, C., Raupach, M.R., Rayner, P., Reichstein, M. (2006). OPTIC Team. The Optimisation InterComparison project (OptIC): evaluation of methods for parameter estimation in biogeochemical cycle models. *Geophysical Research abstracts*, 8(05406):SRef-ID: 1607-7962/gra/EGU06-A-05406.
103. Yang, B., Raupach, M.R., Shaw, R.H., Kaw Tha Paw, U., Morse, A.P. (2006). Large-eddy simulation of turbulent flow across a forest edge. Part I: flow statistics. *Boundary-Layer Meteorology*, 120(no. 3):377-412.
104. Canadell, J.G., Le Quéré, C., Raupach, M.R., Field, C.B., Buitenhuis, E.T., Ciais, P. (2007). Contributions to accelerating atmospheric CO₂ growth from economic activity, carbon intensity, and efficiency of natural sinks. *Proceedings of the National Academy of Sciences of the United States*, 104(47):18866-18870.
105. Raupach, M.R. (2007). Dynamics of resource production and utilisation in two-component biosphere-human and terrestrial carbon systems. *Hydrology and Earth System Sciences*, 11(2):875-889.
106. Raupach, M.R., Marland, G., Ciais, P., Le Quéré, C., Canadell, J.G., Klepper, G. (2007). Global and regional drivers of accelerating CO₂ emissions. *Proceedings of the National Academy of Sciences of the United States*, 104(24):10288-10293.
107. Trudinger, C.M., Raupach, M.R., Rayner, P.J., Kattge, J., Liu, Q., Pak, B.C., . (2007). OptIC project: an intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. *Journal of Geophysical Research-Biogeosciences*, 112(G2, G02027):doi:10.1029/2006JG000367.
108. Trudinger, C., Raupach, M.R., Rayner, P., Kattge, J., Liu, Q., Pak, B. (2007). Optic Project: an Intercomparison of Optimization Techniques for Parameter Estimation in Terrestrial Biogeochemical Models - Art. No. G02027. *Journal of Geophysical Research-Biogeosciences*, 112(no. G2):2027.
109. Canadell, J.G., Raupach, M.R. (2008). Managing forests for climate change mitigation. *Science*, 320(5882):1456 - 1457.
110. Canadell, J.G., Raupach, M.R., Houghton, R.A. (2008). Anthropogenic CO₂ emissions in Africa. *Biogeosciences Discussions*, 5(8):4395-4411.
111. Raupach, M.R., Canadell, J.G., Le Quere, C. (2008). Anthropogenic and Biophysical Contributions to Increasing Atmospheric CO₂ Growth Rate and Airborne Fraction. *Biogeosciences*, 5(6):1601-1613.
112. Trudinger, C., Raupach, M.R., Rayner, P., Enting, I.G. (2008). Using the Kalman filter for parameter estimation in biogeochemical models. *Environmetrics*, 19(8):849-870.
113. Tschakert, P., Huber-Sannwald, E., Ojima, D.S., Raupach, M.R., Schienke, E. (2008). Holistic, adaptive management of the terrestrial carbon cycle at local and regional scales. *Global Environmental Change*, 18(1):128-141.
114. Cai, W.J., Cowan, T.D., Briggs, P., Raupach, M.R. (2009). Rising temperature depletes soil moisture and exacerbates severe drought conditions across southeast Australia. *Geophysical Research Letters*, 36(21):L21709.

115. Cai, W.J., Cowan, T.D., Raupach, M.R. (2009). Positive Indian Ocean Dipole events precondition southeast Australia bushfires. *Geophysical Research Letters*, 36(19):doi:10.1029/2009GL039902.
116. Canadell, J.G., Lequere, C., Raupach, M.R., Ciais, P., Conway, T., Field, C. (2009). *Global carbon sources and sinks: 2007 Update*. IOP Conf. Series: Earth and Environmental Science, 6:doi:10.1088/1755-1307/6/8/082001.
117. Canadell, J.G., Raupach, M.R., Houghton, R.A. (2009). Anthropogenic CO₂ Emissions in Africa. *Biogeosciences*, 6(3):463-468.
118. King, E.A., Paget, M., Briggs, P., Trudinger, C., Raupach, M.R. (2009). Operational delivery of hydro-meteorological monitoring and modeling over the Australian continent. *IEEE journal of selected topics in applied earth observations and remote sensing*, 2(4):241-249.
119. Le Quere, C., Raupach, M.R., Canadell, J.G., Marland, G., Bopp, L., Ciais, P. (2009). Trends in the sources and sinks of carbon dioxide. *Nature Geoscience*, 2(12):831-836.
120. Pearman, G., Church, J.A., Raupach, M.R. (2009). The global carbon budget. *ATSE Focus*, 154(Feb.):34-35.
121. Raupach, M.R. (2009). Have we reached peak CO₂? *Global Change Newsletter*, (74):24-27.
122. Canadell, J.G., Raupach, M.R., Held, A., Ciais, P., Le Quere, C., Malone, E. (2010). Interactions of the carbon cycle, human activity, and the climate system: a research portfolio. *Current Opinion in Environmental Sustainability*, 2(4):301-311.
<https://doi.org/10.1016/j.cosust.2010.08.003>
123. Choler, P., Sea, B., Briggs, P., Raupach, M.R., Leuning, R. (2010). A simple ecohydrological model captures essentials of seasonal leaf dynamics in semi-arid tropical grasslands. *Biogeosciences*, 7(3):907-920. <https://doi.org/10.5194/bg-7-907-2010>
124. Friedlingstein, P., Houghton, R.A., Marland, G., Hackler, J., Boden, T., Conway, T. (2010). Update on CO₂ emissions. *Nature Geoscience*, 3:811-812. https://doi.org/10.1038/ngeo_1022
125. Haverd, V., Böhm, M., Raupach, M.R. (2010). The effect of source distribution on bulk scalar transfer between a rough land surface and the atmosphere. *Boundary-Layer Meteorology*, 135(3):351-368. <https://doi.org/10.1007/s10546-010-9492-1>
126. Le Quere, C., Canadell, J.G., Ciais, P., Dhakal, S., Patwardhan, A., Raupach, M.R. (2010). An International Carbon Office to assist policy-based science. *Current Opinion in Environmental Sustainability*, 2(4):297-300. <https://doi.org/10.1016/j.cosust.2010.06.010>
127. Raupach, M.R., Rayner, P.J., Paget, M. (2010). Regional variations in spatial structure of nightlights, population density and fossil fuel emissions. *Energy policy*, 38(9):4756-4764.
128. Raupach, M.R. (2010). The Fellows speak: Water in the Murray-Darling Basin: the finite-planet challenge in microcosm. *AGU Hydrology Section Newsletter*, Dec 2010:9-11.
129. Raupach, M.R., Canadell, J.G. (2010). Carbon and the Anthropocene. *Current Opinion in Environmental Sustainability*, 2(4):210-218. <https://doi.org/10.1016/j.cosust.2010.04.003>
130. Rayner, P., Raupach, M.R., Paget, M., Peylin, P., Koffi, E. (2010). A new global gridded dataset of CO₂ emissions from fossil fuel combustion: Methodology and evaluation. *Journal of Geophysical Research-Atmospheres*, 115(D19306):11 p..
<https://doi.org/10.1029/2009JD013439>
131. Canadell, J.G., Ciais, P., Gurney, K., Le Quere, C., Piao, S. Raupach, M.R. (2011). An international effort to quantify regional carbon fluxes. *EOS*, 92(10):81-82.
132. Friedlingstein, P., Solomon, S., Plattner, G.-K. Knutti, R., Ciais, P., Raupach, M.R. (2011). Long-term climate implications of twenty-first century options for carbon dioxide emission mitigation. *Nature Climate Change*, 1:457-461. <https://doi.org/10.1038/NCLIMATE1302>
133. Raupach, M.R. (2011). Carbon cycle: Pinning down the land carbon sink. *Nature Climate Change*, 1(3):148-149. <https://doi.org/10.1038/nclimate1123>
134. Raupach, M.R. (2011). Meeting challenges at the Energy-Water-Carbon Interface. *ECOS*, 161:28-30.

135. Raupach, M.R. (2011). The emissions juggernaut rolls on, and everybody is on board. *The Conversation*, Online:1 p.
136. Raupach, M.R., Canadell, J.G., Ciais, P., Friedlingstein, P., Rayner, P., Trudinger, C. (2011). The relationship between peak warming and cumulative CO₂ emissions, and its use to quantify vulnerabilities in the carbon-climate-human system. *Tellus B.*, 63(2):145-164.
<https://doi.org/10.1111/j.1600-0889.2010.00521.x>
137. Ummenhofer, C., Sen Gupta, A., Briggs, P., England, M., McIntosh, P., Meyers, G. (2011). Indian and Pacific Ocean influences on southeast Australian drought and soil moisture. *Journal of Climate*, 24(5):1313-1336. <https://doi.org/10.1175/2010JCLI3475.1>
138. Wang, Y., Kowalczyk, E., Leuning, R., Abramowitz, G., Raupach, M.R., Van Gorsel, E. (2011). Diagnosing errors in a land surface model (CABLE) in the time and frequency domains. *Journal of Geophysical Research-Biogeosciences*, 116(G01034):18 p.
<https://doi.org/10.1029/2010JG001385>
139. Andres, R., Boden, T., Breon, F-M., Ciais, P., Davis, S., Erickson, D. (2012). A synthesis of carbon dioxide emissions from fossil-fuel combustion. *Biogeosciences*, 9(5):1845-1871.
<https://doi.org/10.5194/bg-9-1845-2012>
140. Peters, G., Marland, G., Le Quere, C., Boden, T., Canadell, J.G., Raupach, M.R. (2012). Rapid growth in CO₂ emissions after the 2008–2009 global financial crisis. *Nature Climate Change*, 2:2-4. <https://doi.org/10.1038/nclimate1332>
141. Raupach, M.R. (2012). Earth System science at a crossroads. *Global Change Magazine*. 2012, 79:22-25.
142. Böhm, M., Finnigan, J.J., Raupach, M.R., Hughes, D. (2013). Turbulence structure within and above a canopy of bluff elements. *Boundary-Layer Meteorology*, 146(3):393-419.
<https://doi.org/10.1007/s10546-012-9770-1>
143. Ciais, P., , Gasser, T., Paris, J.D., Caldeira, K., Raupach, M.R., Canadell, J.G. (2013). Attributing the increase in atmospheric CO₂ to emitters and absorbers. *Nature Climate Change*, 3:926-930. <https://doi.org/10.1038/nclimate1942>
144. Haverd, V., Raupach, M.R., Briggs, P., Canadell, J.G., Law, R., Meyer, C.P. (2013). The Australian Terrestrial Carbon Budget. *Biogeosciences*, 10:851-869. <https://doi.org/10.5194/bg-10-851-2013>
145. Haverd, V., Raupach, M.R., Briggs, P., Canadell, J.G., Pickett-Heaps, C., Roxburgh, S. (2013). Multiple observation types reduce uncertainty in Australia's terrestrial carbon and water cycles. *Biogeosciences*, 10:2011-2040. <https://doi.org/10.5194/bg-10-2011-2013>
146. Peters, G., Andrew, R., Boden, T., Canadell, J.G., Ciais, P., Le Quere, C. (2013). The challenge to keep global warming below 2°C. *Nature Climate Change*, 3:4-6.
<https://doi.org/10.1038/nclimate1783>
147. Raupach, M.R. (2013). The exponential eigenmodes of the carbon-climate system, and their implications for ratios of responses to forcings. *Earth System Dynamics*, 4:31-49.
<https://doi.org/10.5194/esd-4-31-2013>
148. Raupach, M.R., Haverd, V., Briggs, P. (2013). Sensitivities of the Australian terrestrial water and carbon balances to climate change and variability. *Agricultural and Forest Meteorology*, 182-183:277-291. <https://doi.org/10.1016/j.agrformet.2013.06.017>
149. Raupach, M.R., Le Quere, C., Peters, G., Canadell, J.G. (2013). Anthropogenic CO₂ emissions (Comment on Francey (2013) Atmospheric verification of anthropogenic CO₂ emissions). *Nature Climate Change*, 3:603-604. <https://doi.org/10.1038/nclimate1910>
150. Alford, K., Cork, S., Finnigan, J.J., Grigg, N., Fulton, B., Raupach, M.R. (2014). The Challenges of Living Scenarios for Australia in 2050. *Journal of Futures Studies*, 18(3):115-126.
151. Beringer, J., Hutley, L., Abramson, D., Arndt, S., Briggs, P., Canadell, J.G. (2014). Fire in Australian Savannas: from leaf to landscape. *Global Change Biology*. 2014, 21(11):62-81.
<https://doi.org/10.1111/gcb.12686>

152. Friedlingstein, P., Andrew, R., Rogelj, J. Peters, G., Canadell, J.G., Knutti, R. (2014). Persistent growth of CO₂ emissions and implications for reaching climate targets. *Nature Geoscience*, 7:709-715. <https://doi.org/10.1038/NGEO2248>
153. Fuss, S., Canadell, J.G., Peters, G., Tavoni, M., Andrew, R., Ciais, P. (2014). Betting on negative emissions. *Nature Climate Change*. 2014, 4:850-853. <https://doi.org/10.1038/nclimate2392>
154. Le Quere, C., Peters, G., Andres, R.J., Andrew, R., Boden, T., Andrew, R. (2014). Global carbon budget 2013. *Earth System Science Data*. 2014, 6:235–263. <https://doi.org/10.5194/essd-6-235-2014>
155. Le Quere, C., Peters, G., Andres, Robert, Andrew, R., Boden, T., Ciais, P. (2014). Global Carbon Budget 2013. *Earth System Science Data*, 6:235-263. <https://doi.org/10.5194/essd-6-235-2014>
156. Pickett-Heaps, C., Canadell, J.G., Briggs, P., Gobron, N., Haverd, V., Paget, M. (2014). Evaluation of six satellite-derived Fraction of Absorbed Photosynthetic Active Radiation (FAPAR) products across the Australian continent. *Remote Sensing of Environment*, 140:241–256. <https://doi.org/10.1016/j.rse.2013.08.037>
157. Raupach, M.R., Davis, S.J., Peters, G., Andrew, R., Canadell, J.G., Ciais, P. (2014). Sharing a quota on cumulative carbon emissions. *Nature Climate Change*, 4:873-879. <https://doi.org/10.1038/NCLIMATE2384>
158. Raupach, M.R., Gloor, E., Sarmiento, J., Canadell, J.G., Frolicher, T., Gasser, T. (2014). The declining uptake rate of atmospheric CO₂ by land and ocean sinks. *Biogeosciences*, 11:3453–3475. <https://doi.org/10.5194/bg-11-3453-2014>
159. Ahlstrom, A., Raupach, M.R., Smith, B., Arneth, A., Jung, M., Reichstein, M. (2015). The dominant role of semi-arid ecosystems in the trend and variability of the land CO₂ sink. *Science*. 2015, 348:895-899.
160. Le Quere, C., Canadell, J.G., Lenton, A., Raupach, M.R., Tilbrook, B. (2015). Global Carbon Budget 2014. *Earth System Science Data*, 7:47-85.
161. Le Quere, C., Moriarty, R, Andrew, R., Peters, G., Ciais, P., Friedlingstein, P. (2015). Global carbon budget 2014. *Earth System Science Data*, 7:47-85. <https://doi.org/10.5194/essd-7-47-2015>
162. Ummenhofer, C., Sen Gupta, A., England, M., Taschetto, A., Briggs, P., Raupach, M.R. (2015). How did ocean warming affect Australian rainfall extremes during the 2010/2011 La Niña event?. *Geophysical Research Letters*, 42(22):9942–9951. <https://doi.org/10.1002/2015GL065948>
163. Haverd, V., Smith, B., Raupach, M.R., Briggs, P., Nieradzik, L., Beringer, J. (2016). Coupling carbon allocation with leaf and root phenology predicts tree-grass partitioning along a savanna rainfall gradient. *Biogeosciences*, 13(3):761-779.
164. Keenan, T., Prentice, I.C., Canadell, J.G., Williams, C., Wang, H., Raupach, M.R. (2016). Recent pause in the growth rate of atmospheric CO₂ due to enhanced terrestrial carbon uptake. *Nature Communications*. 7:Article 13428. <https://doi.org/10.1038/ncomms13428>

Book Chapters:

1. Denmead, OT; Raupach, MR; Leuning, R; Dunin, FX; Freney, JR. Inverse lagrangian analysis of heat, vapour and gas exchange in plant canopies. In: Hatfield, JL; Baker, JM, editor/s. *Micrometeorology in Agricultural Systems* Agronomy Monograph No. 47. Madison, WI: American Society of Agronomy, Crop Science Society of America, Soil Science Society of America; 2005. 485-511.
2. Raupach, M; Barrett, DJ; Briggs, PR; Kirby, JM. Simplicity, Complexity and Scale in Terrestrial Biosphere Modelling. In: Franks, S; Sivapalan, M; Takeuchi, K; Tachikawa, Y eds, editor/s. *Prediction in Ungauged Basins: International Perspectives on the State of the Art and Pathways Forward*. Oxfordshire, UK: IAHS; 2005. 239-274.
3. Raupach, M. R; Trudinger, C. M.; Briggs, P. R; King, E. A. Australian water availability project : final report. In: Canberra, ACT. CSIRO Marine and Atmospheric Research; 2006.
4. Canadell, J.G.; Pataki, D.E.; Gifford, R.; Houghton, R.A.; Lou, Y.; Raupach, M.R.; et al. Saturation of the terrestrial carbon sink. In: Canadell, J.G.; Pataki, D. E.; Pitelka, L. eds., editor/s. *Terrestrial ecosystems in a changing world* / Josep G. Canadell, Diane E. Pitaki, Louis F. Pitelka. Berlin; London: Springer; 2007. 59-78.
5. Canadell, J.G.; Pataki, D.E.; Gifford, R.; Houghton, R.A.; Luo, Y.; Raupach, M.R.; et al. Saturation of the terrestrial carbon sink. In: In: *Terrestrial Ecosystems in a Changing World*, J.G.Canadell, D.Pataki and L.Pitelka (eds). The IGBP Series. (Springer-Verlag) p 59-78. 2007.
6. Raupach, M.R.; Canadell, J.G. Observing a vulnerable carbon cycle. In: Dolman, A. J.; Valentini, R.; Freibauer, A. editors., editor/s. *Continental-scale greenhouse gas balance of Europe*. New York: Springer; 2008.
7. Canadell, J. G.; Raupach, M. R. Land carbon cycle feedbacks. In: Sommerkorn, M.; Hassol, S.J. eds., editor/s. *Arctic Climate Feedbacks: Global Implications*. Oslo, Norway: World Wildlife Fund International Arctic Programme; 2009.
8. Canadell, J. G.; Raupach, M. R. Vulnerabilities associated with the Arctic terrestrial carbon cycle. In: Sommerkorn, M.; Hassol, S.J. eds., editor/s. *Arctic Climate Feedbacks: Global Implications*. Oslo, Norway: World Wildlife Fund International Arctic Programme; 2009. 69-80.
9. Canadell, Pep; Raupach, Michael. Changes in anthropogenic CO₂ emissions. In: Katherine Richardson, Will Steffen, Diana Liverman, editor/s. *Climate Change: Global Risks, Challenges and Decisions*. Cambridge University Press; 2011. 77-79.
10. Canadell, Pep; Raupach, Michael. Future of the terrestrial carbon sink. In: Katherine Richardson, Will Steffen, Diana Liverman, editor/s. *Climate Change: Global Risks, Challenges and Decisions*. Cambridge University Press; 2011. 90-91.
11. Raupach, Michael; Canadell, Pep. Relative effects of forcings and feedbacks on warming. In: Katherine Richardson, Will Steffen, Diana Liverman, editor/s. *Climate Change: Global Risks, Challenges and Decisions*. Cambridge University Press; 2011. 219-221.
12. Raupach, Michael; Fraser, Paul. Climate and greenhouse gases. In: Cleugh, H.A., Stafford Smith, M., Battaglia, M. and Graham, P., editor/s. *Climate Change: Science and Solutions for Australia*. CSIRO Publishing; 2011. 15-34.
13. Fulton, Beth; Finnigan, John; Pearman, Graeme; Raupach, Michael. A survey of projections of futures for Australia. In: Raupach, M R; McMichael, A J; Finnigan, J J; Manderson, L; Walker, B H, editor/s. *Negotiating our future: Living scenarios for Australia to 2050*. Canberra, ACT: Australian Academy of Science; 2013. 189-211.
14. Raupach, Michael. Ecosystem services and the global carbon cycle. In: Rattan Lal, Lorenz, Klaus; Hüttl, Reinhard F.; Schneider, Bernd Uwe; von Braun, Joachim, editor/s. *Ecosystem Services and Carbon Sequestration in the Biosphere*. Dordrecht: Springer; 2013. 155-181.
https://doi.org/10.1007/978-94-007-6455-2_8
15. Raupach, Michael. The evolutionary nature of narratives about expansion and sustenance. In: Raupach, M R; McMichael, A J; Finnigan, J J; Manderson, L; Walker, B H, editor/s.

- Negotiating our future: Living scenarios for Australia to 2050. Canberra, ACT: Australian Academy of Science; 2013. 201-213.
16. Raupach, Michael; McMichael, Anthony; Alford, Kristin; Cork, Steve; Finnigan, John; Fulton, Beth; et al. Living scenarios for Australia as an adaptive system. In: Raupach, M R; McMichael, A J; Finnigan, J J; Manderson, L; Walker, B H, editor/s. Negotiating our future: Living scenarios for Australia to 2050. Canberra, ACT: Australian Academy of Science; 2013. 1-53.
 17. Raupach, Michael; McMichael, Anthony; Finnigan, John; Manderson, Lenore; Walker, Brian. Negotiating our Future: Living Scenarios for Australia to 2050. Canberra, ACT: Australian Academy of Science; 2013.
 18. Cork, Steven; Grigg, Nicky; Alford, Kristin; Finnigan, John; Fulton, Beth; Raupach, M.R. Australia 2050: Structuring conversations about our future. Australian Academy of Science: Australian Academy of Science; 2015.

Conference Papers, Abstracts, Minor Publications:

1. Raupach, M.R. (1974). Program SPECTRA - a program for the multivariate analysis of up to four concurrent equispaced time series. FIAMS Computing Report No. 6, Flinders University, South Australia. (Raupach, 1974)
2. Raupach, M.R. (1976). Eddy correlation measurements of the fluxes of water vapour, sensible heat and momentum over Lake Albert, South Australia. FIAMS Research Report No. 21, Flinders University, South Australia. (Raupach, 1976b)
3. Raupach, M.R. and Mitchell, W.M. (1977). Time series analysis on the DEC-System-10. FIAMS Computing Report No. 10, Flinders University, South Australia. (Raupach *et al.*, 1977a)
4. Raupach, M.R. and Thom, A.S. (1977). Aerodynamic properties of vegetation canopies, and their effects upon the rate of evapotranspiration. Fourth EGS Meeting, Munich, September 1977. (Abstract: EOS 58, 898). (Raupach *et al.*, 1977b)
5. Raupach, M.R. (1978). Review of Fluid Mechanics by L.D. Landau and E.M. Lifshitz. *Quart. J. Roy. Meteorol. Soc.* **104**, 535. (Raupach, 1978b)
6. Raupach, M.R., Stewart, J.B. and Thom, A.S. (1979). Comments on the paper 'Analysis of flux profile relationships above tall vegetation ... an alternative view' by B.B. Hicks, G.C. Hess and M.L. Wesley (QJ 105, 1074-1077). *Quart. J. Roy. Meteorol. Soc.* **105**, 1077-1078. [CEM 438] (Raupach *et al.*, 1979)
7. Chen, F. and Raupach, M.R. (1982). Flux-gradient relationships over rough vegetated surfaces: a review. Workshop on Evapotranspiration, Bunbury, Western Australia, May 1982. (Chen *et al.*, 1982)
8. Chambers, A.J., Antonia, R.A., Browne, L.W.B. and Raupach, M.R. (1983). A multipoint detection method to identify coherent temperature fronts in a turbulent boundary layer over a rough surface. *Proc. Fourth Symposium on Turbulent Shear Flows*, Karlsruhe, September 1983. p. 15.17-15.21. [CEM 520] (Chambers *et al.*, 1983)
9. Raupach, M.R. (1983). Experimental tests of higher-order closure assumptions for scalar transport. *Proc. Eighth Australasian Fluid Mechanics Conference*, Newcastle, 28 November - 2 December 1983. p. 10A1-10A4. [CEM 526] (Raupach, 1983a)
10. Coppin, P.A. and Raupach, M.R. (1983). Measurement of scalar transport in a model plant canopy. *Proc. Eighth Australasian Fluid Mechanics Conference*, Newcastle, 28 November - 2 December 1983, p. 1A5-1A8. [CEM 527] (Coppin *et al.*, 1983)
11. Raupach, M.R. (1985). Transport of scalar constituents in vegetation canopies: a Lagrangian analysis. *Proc. Third Australasian Conference on Heat and Mass Transfer*, University of Melbourne, May 1985, p. 457-464. [CEM 557] (Raupach, 1985c)

12. Leys, J.F. and Raupach, M.R. (1985). Development of a wind tunnel for wind erosion research. Aust. Soil Science Society, Riverina Branch, Biennial Conference, Wellington, NSW, 27-29 August 1985. (Leys *et al.*, 1985)
13. Finnigan, J.J. and Raupach, M.R. (1985). Turbulent flow over two-dimensional ridges. Workshop on Wind Engineering and Industrial Aerodynamics, 28-30 August 1985, CSIRO Division of Building Research, Highett, Victoria. [CEM 579] (Finnigan *et al.*, 1985)
14. Raupach, M.R. and Bradley, E.F. (1986). Some influences of wind patterns and dynamics on aeolian transport. Congress of the International Association of Sedimentologists, Canberra, August 1986. (Raupach *et al.*, 1986a)
15. Brunet, Y., Raupach, M.R. and Seguin, B. (1986). Influence des rugosités de surface sur la couche limite atmosphérique. Société Francaise des Thermiciens, Journée d'études du 23 Avril 1986, sur: évolution des échanges thermoconvectifs en fonction des états de surface. (Brunet *et al.*, 1986)
16. Brunet, Y. and Raupach, M.R. (1987). A simple renewal model for transfer in plant canopies. International symposium on flow and transport in the natural environment: advances and applications. Canberra, 31 Aug - 4 Sep, 1987. (Brunet *et al.*, 1987)
17. Raupach, M.R., Ghadiri, H. and Bradley, E.F. (1987). Turbulent wake effects around a clearing in a vegetation canopy. International symposium on flow and transport in the natural environment: advances and applications. Canberra, 31 August - 4 September, 1987. (Raupach *et al.*, 1987b)
18. Raupach, M.R. (1987). Aspects of the physics of soil erosion by wind. Presented at: Wind Erosion Research Update, NSW Soil Conservation Service, Mildura, 22-24 September 1987. (Raupach, 1987b)
19. Raupach, M.R. and Leys, J.F. (1989). Wind tunnel studies of soil erodibility in Western New South Wales. Workshop on Erosion/Productivity and Erosion Prediction, Fifth Australian Soil Conservation Conference, Albany, WA, 10-15 September 1989. [CEM 693] (Raupach *et al.*, 1989b)
20. Raupach, M.R. (1989). Similarity analysis of bushfire plumes and their interaction with ambient wind fields. Proc. Eighth Biennial Conference of the Simulation Society of Australia and Int. Assoc. for Mathematics and Computers in Simulation, and Bushfire Dynamics Workshop, Canberra, 25-27 September 1989. (Central Printery, Australian National University, Canberra). p. 457-462. [CEM 696] (Raupach, 1989c)
21. Raupach, M.R. (1992). Regional estimates of land-atmosphere trace gas exchange. Climate Change Newsletter 4(3), 11-13 (Bureau of Rural Resources, Department of Primary Industries and Energy, Canberra). CSIRO Centre for Environmental Mechanics Occasional Pap. 11. (Raupach, 1992b)
22. Raupach, M.R. (1993). Physical processes governing wind erosion and dust transport. Proc. Wind Erosion Research and Extension Workshop, Mildura, Vic, 9-11 August 1993 (Ed. J.F. Leys). (NSW Department of Conservation and Land Management, Sydney). p. 20-28. (Raupach, 1993e)
23. Raupach, M.R. (1993). Coherent structures and turbulent exchanges in dense and sparse vegetation canopies. Invited Lecture, 1993 Annual Meeting of the American Physical Society Division of Fluid Dynamics, Albuquerque, New Mexico, 21-23 November 1993. (Abstract: *Bull. Amer. Phys. Soc.* 38, 2256). CSIRO Centre for Environmental Mechanics Occasional Pap. 26. (Raupach, 1993a)
24. Raupach, M.R. (1994). Climate change research at the CSIRO Centre for Environmental Mechanics. *Climate Change Newsletter* 6(2), 12-14 (Bureau of Rural Resources, Department of Primary Industries and Energy, Canberra). CSIRO Centre for Environmental Mechanics Occasional Pap. 29. (Raupach, 1994a)
25. Raupach, M.R., Leuning, R., Brunel, J.P., Clark, N., Cleugh, H.A., Coppin, P.A., Denmead, O.T., Dunin, F.X., Farquhar, G.D., Finnigan, J.J., Galbally, I.E., Graetz, R.D., Griffith, D.W.T., Hacker, J.M., Lloyd, J., McAneney, J., McNaughton, K.G., Meyers, M., Miao, Y., Reyenga, W., Schwerdtfeger, P. and Wong, C. (1994). OASIS (Observations At Several Interacting Scales) Science Plan. CSIRO Centre for Environmental Mechanics Tech. Rep. 68. (Raupach *et al.*, 1994a)

26. Finnigan, J.J., Raupach, M.R. and Cleugh, H.A. (1994). The impact of vegetation on the physical environment of cities. In: A vision for a greener city: the role of vegetation in urban environments (Ed. M.A. Scheltema). Proc. 1994 National Greening Australia Conference, Fremantle, WA, 4-6 October 1994, 23-37. (Greening Australia Ltd, Canberra). CSIRO Centre for Environmental Mechanics Occasional Pap. 42. (Finnigan *et al.*, 1994)
27. Shaw, R.H., Brunet, Y., Finnigan, J.J and Raupach, M.R. (1995). A wind tunnel study of air flow in waving wheat: two-point velocity statistics. 11th AMS Symposium on Boundary Layers and Turbulence, Charlotte, NC, USA, 27-31 March 1995. (Shaw *et al.*, 1995b)
28. Wilson, J.D., Finnigan, J.J and Raupach, M.R. (1995). Exploratory models of windflow through a plant canopy on a ridge. 11th AMS Symposium on Boundary Layers and Turbulence, Charlotte, NC, USA, 27-31 March 1995. (Wilson *et al.*, 1995)
29. Patton, E.G., Shaw, R.H., Judd, M.J. and Raupach, M.R. (1995). Large-eddy simulation of flow around multiple windbreaks. 11th AMS Symposium on Boundary Layers and Turbulence, Charlotte, NC, USA, 27-31 March 1995. (Patton *et al.*, 1995)
30. Raupach, M.R., Briggs, P. and Ford, P.W. (1995). Aerial transport of endosulfans to rivers - interim report. Proc. Workshop on Minimising the Impact of Pesticides on the Riverine Environment (Land and Water Resources Research and Development Corporation), Brisbane, August 1995. CSIRO Centre for Environmental Mechanics. (Raupach *et al.*, 1995a)
31. Leys, J.F., Semple, W.S., Raupach, M.R., Findlater, P.A. and Hamilton, G. (1996). Measurements of size distributions of dry aggregates. In: Soil Physical Measurement and Interpretation for Land Evaluation. (Eds. K.J. Coughlan, N.J. McKenzie, W.S. McDonald and H.P. Cresswell). Australian Soil and Land Survey Handbook Series, No. 5. (Leys *et al.*, 1996)
32. Finkele, K., and Raupach, M.R. (1996). Modelling of the OASIS Data. AGU Western Pacific Geophysics Meeting, Brisbane, Australia, 23-27 July 1996. (Finkele *et al.*, 1996)
33. Raupach, M.R. (1997). Aerodynamic transfer in models of land-air exchange processes. Extended abstract for the GEWEX/BAHC Workshop on Land Surface Parameterisations and Soil-Vegetation-Atmosphere Transfer Schemes, Scripps Institution of Oceanography, La Jolla, California, 10-14 February 1997. (Raupach, 1997a)
34. Raupach, M.R., R. Leuning, M. Bell, P.R. Briggs, S. Chambers, H.A. Cleugh, P.A. Coppin, O.T. Denmead, F.X. Dunin, M. Esler, K. Finkele, I.E. Galbally, R.D. Graetz, D.W.T. Griffith, J.M. Hacker, P. Isaac, I. Jamie, J.J. Katzfey, J. Lloyd, J. McAneney, M. Meyer, P. Prendergast, T. Smith, R. Spronken-Smith, W. Reyenga and S.J. Zegelin (1997). Overview of OASIS: a large-scale field experiment on biosphere-atmosphere exchanges of energy, water and trace gases in heterogeneous terrain. In *Abstracts: IAMAS and IAPSO 1997 Joint Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract IM13VV.(Raupach *et al.*, 1997d)
35. Cleugh, H.A., Briggs, P.R. and Raupach, M.R. (1997). CBL budget estimates of regional scale energy and water vapour fluxes during OASIS. In *Abstracts: IAMAS and IAPSO 1997 Joint Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract IM13YY. (Cleugh *et al.*, 1997)
36. Denmead, O.T., Griffith, D.W., Jamie, I.M., Leuning, R. and Raupach, M.R. (1997). Estimating regional fluxes of greenhouse gases at OASIS through boundary layer budgeting. In *Abstracts: IAMAS and IAPSO 1997 Joint Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract IM22V. (Denmead *et al.*, 1997b)
37. Finkele, K., Briggs, P.R. and Raupach, M.R. (1997). Modelling the OASIS energy flux measurements. In *Abstracts: IAMAS and IAPSO 1997 Joint Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract IM13XX. (Finkele *et al.*, 1997)
38. Böhm, M., Raupach, M.R. and Finnigan, J.J. (1997). Parameterising scalar transfer within vegetation canopies: a wind tunnel study. In *Abstracts: IAMAS and IAPSO 1997 Joint*

- Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract IM13HHH. (Böhm *et al.*, 1997)
39. Ayotte, K.W., Finnigan, J.J. and Raupach, M.R. (1997). A second order closure for canopies. In *Abstracts: IAMAS and IAPSO 1997 Joint Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract IM13JJ. (Ayotte *et al.*, 1997)
40. Raupach, M.R. (1997). Cycles of energy, water and carbon over the Australian continent. In *Abstracts: IAMAS and IAPSO 1997 Joint Assemblies*, Melbourne, Australia, 1-9 July 1997 (Eds. D. Jasper and T. Beer). (IAMAS-IAPSO Organising Committee, Melbourne, Australia). Abstract CMH4WWWW. (Raupach, 1997b)
41. Raupach, M.R. and Briggs, P.R. (1998) Integrative assessment of endosulfan transport from farm to river by multiple pathways. In: *Minimising the Impact of Pesticides on the Riverine Environment: Key Findings from Research with the Cotton Industry – 1998 Conference*, Canberra, 21-22 July 1998. LWRRDC Occasional Paper 23/98. (Land and Water Resources Research and Development Corporation, Canberra, Australia). p. 51-57. (Raupach *et al.*, 1998a)
42. Raupach, M.R. and Briggs, P.R. (1999) Endosulfan sources and transport mechanisms in the riverine environment. *Proceedings of the International Conference on Diffuse Pollution*, Perth, Western Australia, 16-20 May 1999. p. 296-307. (Raupach *et al.*, 1999b)
43. Raupach, M.R. and Briggs, P.R. (1999) Tracking the transport of endosulfan. *The Australian Cottongrower*, 20(2), 27-31. (Raupach *et al.*, 1999c)
44. Raupach, M.R., Howden, M., Baker, S., Barrett D.J., Galbally, I.E., Gifford, R.M., Kirschbaum, M.U.F. and Swift, R. (1999) The potential contributions of land use and land management in reducing net Australian greenhouse gas emissions. Contribution from the CSIRO Biosphere Working Group to a CSIRO submission to the *Senate Environment, Communications, Information Technology and the Arts Reference Committee Inquiry into Global Warming*. CSIRO Biosphere Working Group, November 1999. (Raupach *et al.*, 1999d)
45. Raupach, M.R., Raison, J. (BWG Convenors), Barrett D.J., Briggs, P.R., Cleugh, H.A., Enting, I., Francey, R., Galbally, I.E., Gifford, R., Graetz, R.D., Keith, H., Kirschbaum, M.U.F., Leuning, R., McGregor, J., Rayner, P., Skjemstad, J., Steele, P., Swift, R., and Wang, Y.P. (2000) CSIRO Biosphere Working Group: Science Plan: Triennium July 1999 to June 2002. CSIRO Biosphere Working Group, February 2000. (Raupach *et al.*, 2000c)
46. Raupach, M.R. and Barrett, D.J. (2000) Comments on the Issues Paper "Greenhouse Sinks and the Kyoto Protocol". Submission to the Australian Greenhouse Office from the CSIRO Biosphere Working Group. CSIRO Biosphere Working Group, March 2000. (Raupach *et al.*, 2000a)
47. Böhm, M., Raupach, M.R. and Finnigan, J.J. (2000). The effect of scalar source distribution on eddy diffusivities and bulk transfer coefficients. American Meteorological Society, *Proc. 24th Conference on Agricultural and Forest Meteorology*, Davis, California, 14-18 August 2000. pp. 100-101. American Meteorological Society. (Böhm *et al.*, 2000b)
48. Böhm, M., Finnigan, J.J. and Raupach, M.R. (2000). Dispersive fluxes and canopy flows: just how important are they? *Proc. 24th Conference on Agricultural and Forest Meteorology*, Davis, California, 14-18 August 2000. pp. 106-107. American Meteorological Society. (Böhm *et al.*, 2000a)
49. Raupach, M.R., Barrett D.J., Briggs, P.R., Cleugh, H.A., Eamus, D., Enting, I., Farquhar, G.D., Finnigan, J.J., Francey, R., Galbally, I.E., Gifford, R., Graetz, R.D., Griffith, D., Hutley, L., Keith, H., Kirschbaum, M.U.F., Leuning, R., McGregor, J., Medlyn, B., Noble, I.R., Raison, J., Rayner, P., Skjemstad, J., Steele, P., and Wang, Y.P. (2001). The Australian Carbon Cycle Project. Abstract and poster presentation, IGBP Global Change Open Science Conference, Amsterdam, 10-13 July 2001. (Raupach *et al.*, 2001a)
50. Barrett, D.J. and Raupach, M.R. (2001). Up-scaling phenomenological models in time and space: Reconciling non-linear fine-scale and coarse-scale terrestrial biogeochemical models.

- Abstract and poster presentation, IGBP Global Change Open Science Conference, Amsterdam, 10-13 July 2001. (Barrett *et al.*, 2001)
51. [Hibbard KA, Steffen WL, Benedict S et al. \(2001\) The carbon challenge: An IGBP-IHDP-WCRP joint project. International Geosphere Biosphere Programme, Stockholm.](#) (Hibbard *et al.*, 2001)
52. Raupach, M.R., Barrett, D.J., Briggs, P.R. and Kirby, J.M. (2001). Water, carbon and nutrients on the Australian continent: effects of climate gradients and land use changes. Abstract and oral presentation, IGBP Global Change Open Science Conference, Amsterdam, 10-13 July 2001. (Raupach *et al.*, 2001c)
53. Raupach, M.R., Barrett, D.J., Briggs, P.R. and Kirby, J.M. (2001). Water, carbon and nutrients on the Australian continent: effects of climate gradients and land use changes. *Global Change Newsletter* **48**, 15-22. International Geosphere-Biosphere Programme, Stockholm (www.igbp.kva.se//uploads/NL_48.pdf). (Raupach *et al.*, 2001b)
54. Kirby, J.M., Raupach, M.R., Barrett, D.J. and Briggs, P.R. (2001). Plant and soil carbon, nitrogen and phosphorus on the Australian continent. 17th International Congress of Soil Science, Bangkok, 14-21 August 2002. (Kirby *et al.*, 2001)
55. IGBP, IHDP, WCRP (2001) "The Global Carbon Cycle: a Prospectus for International Research". Prospectus for the Carbon Joint Project of the International Geosphere-Biosphere Programme, the International Human Dimensions Programme and the World Climate Research Programme. (Drafting team in alphabetical order: Sam Benedict, Tony Busalachi, Pep Canadell, Robert Dickinson, Kathy Hibbard, Michael Raupach, Brent Smith, Will Steffen, Bronte Tilbrook, Pier Vellinga, Oran Young). (International Geosphere-Biosphere Programme, Stockholm). (IGBP *et al.*, 2001)
56. Kruijt, B., Dolman, A.J., Lloyd, J., Ehleringer, J., Raupach, M.R. and Finnigan, J.J. (2001). Assessing the regional carbon balance using boundary-layer budget CO₂ flux methods - Overview of a workshop in Gubbio, Italy, October 2000. Sixth CO₂ Conference, Sendai, Japan, October 2001. (Kruijt *et al.*, 2001)
57. Styles, J.M., Raupach, M.R., Farquhar, G.D., Kolle, O.E.E., Lawton, K.A., Brand, W.A., Werner, R.A., Jordan, A., Schulze, E.-D., Shibistova, O. and Lloyd, J. (2001). Variation of carbon and oxygen isotopic discrimination during photosynthesis within a forest canopy inferred from concentration measurements. Sixth CO₂ Conference, Sendai, Japan, October 2001. (Styles *et al.*, 2001a)
58. Styles, J.M., Raupach, M.R., Farquhar, G.D., Kolle, O.E.E. and Lloyd, J. (2001). Inverse modelling of carbon and oxygen isotopic discrimination within a forest canopy. American Geophysical Union, Fall Meeting, San Francisco, December 2001. (Styles *et al.*, 2001b)
59. Raupach, M.R., Barrett, D.J., Kirby, J.M., Briggs, P.R., Leuning, R. and Cleugh, H.A. (2002). Combining regional-scale models and measurements of biogeochemical budgets in the terrestrial biosphere and the atmospheric boundary layer. Western Pacific AGU meeting, Wellington, New Zealand, 9-12 July 2002. http://www.agu.org/meetings/wp02/wp02-pdf/wp02_H22A.pdf (Raupach *et al.*, 2002a)
60. Raupach, M.R. and Lu, H. (2002). Representation of land-surface processes in models of wind erosion. Extended Abstract for the International Conference on Aeolian Research 5 (ICAR 5), July 22-25, 2002, Texas Technical University, Lubbock, Texas, USA. (Raupach *et al.*, 2002c)
61. Cihlar, J., Denning, A.S., Gosz, J., Ahern, F., Bretherton, F., Chen, J., Dobson, C., Gerbig, C., Gibson, R., Gommes, R., Gower, T., Hibbard, K., Igarashi, T., Olson, R., Potter, C., Raupach, M.R., Running, S., Townshend, J., Wickland, D., Yasuoka, Y. (2002). Terrestrial carbon observation: the Ottawa assessment of requirements, status and next steps. Environment and Natural Resources Service, Food and Agriculture Organisation, Rome. (Cihlar *et al.*, 2002a)
62. Global Carbon Project (2003). Science Framework and Implementation. (Eds: Canadell, J.G., Dickinson, R., Hibbard, K., Raupach, M.R. and Young, O.). Earth System Science Partnership (IGBP, IHDP, WCRP, DIVERSITAS) Report no. 1; Global Carbon Project Report no. 1. Global

Carbon Project, Canberra. 69 pp.
<http://globalcarbonproject.org/SCIENCE%20PLAN%20AND%20IMPLEMENTATION/GCPFrameWorkFinal.pdf> (Global Carbon Project, 2003)

63. Brunet, Y., Fourcaud, T., Achim, A., Belcher, R., Calmet, I., Caltagirone, J.P., Cleugh, H., de Coligny, F., Develance, M., Druilhet, A., Finnigan, J.J., Foudhil, H., Gamboa-Marrufo, M., Gardiner, B., Guyon, D., Hughes, D., Irvine, M., Lamaud, E., Lohou, F., Lopez, A., Marshall, B.J., Mestayer, P., Morse, A., Paw U, K.T., Raupach, M.R., Sellier, D., Shaw, R.H., Soulier, D., Wood, C. and Yang, B. (2003). The VenFor Project: wind and forest interactions from the tree scale to the landscape scale. Int. Conf. *Wind Effects on Trees*, University of Karlsruhe, Germany, 16-18 September 2003 (Brunet *et al.*, 2003)
64. [Lu H, Moran CJ, Prosser IP, Raupach MR, Olley JM, and Petheram C \(2003a\) Sheet and rill erosion and sediment delivery to streams: A basin wide estimation at hillslope to medium catchment scale. CSIRO Land and Water Technical Report 15/03, CSIRO Land and Water, Canberra, Australia.](#) (Lu *et al.*, 2003a)
65. Quegan, S. and Raupach, M.R. (2003). Report on the TCO/GCP Terrestrial Carbon Observations and Model-Data Fusion Workshop, Sheffield, UK, 3-6 June 2003. Terrestrial Carbon Observations Initiative of the Global Terrestrial Observing System, Sheffield. (Quegan *et al.*, 2003)
66. Raupach, M.R. and Zillman, J. (2003) Australian Delegation report on Second Meeting of the Group on Earth Observations (GEO), Baveno, Italy, 28-29 November 2003. (GEO Secretariat, Bureau of Meteorology, Australia). 54 p. (Raupach *et al.*, 2003)
67. Trudinger, C., Raupach, M.R. Rayner, P.J. (2004). Application of the Kalman filter to parameter estimation in an idealised terrestrial biosphere model. Poster presentation, Second ENVISAT Summer School on Earth System Monitoring and Modelling (Frascati, Italy, 16-26 August 2004). (Trudinger *et al.*, 2004)
68. Barratt, D., Sims, J., McVicar, T., Raupach, M. R., Laughlin, G., and Plummer, N. (2004). Towards mapping water availability across Australia . In: Climate and water: Abstracts, 16th Australian New Zealand Climate Forum, Lorne, Victoria, 8-10 November 2004. (ANZCF 2004 Conference Committee, Melbourne). p. 6. (Barratt *et al.*, 2004)
69. Schöttker, B., Lovell, J. and Raupach, M.R. (2005). Use of Remote Sensing Data to assess land condition and sediment delivery from Great Barrier Reef Catchments. North Australian Remote Sensing and GIS (NARGIS) 2005, Charles Darwin University, Darwin, NT, Australia (4-7 July 2005). (Schöttker *et al.*, 2005)
70. Pak, B.C., Raupach, M.R., Wang, Y.P. and Barrett, D.J. (2004). Parameter optimization using the adjoint of a biosphere model. American Geophysical Union Fall Meeting, San Francisco, December 2004. (Pak *et al.*, 2004)
71. [Ciais P, Moore B, Steffen W et al. \(2004\) Integrated global carbon observation theme: a strategy to realise a coordinated system of integrated global carbon cycle observations. Integrated Global Observing Strategy, Stockholm.](#) (Ciais *et al.*, 2004)
72. Canadell, J. G.; Raupach, M. R. Vulnerabilities of the carbon cycle. In: Greenhouse 2005: action on climate change: conference handbook; 2005; Melbourne. Aspendale, Vic.: CSIRO; 2005. 58.
73. Raupach, M. R. Dynamics of resource production and utilisation in two-component biosphere-human and terrestrial carbon systems. In: Thresholds and pattern dynamics: proceedings of the Sir Mark Oliphant conference; 2005; Carwley, WA. Crawley: University of Western Australia; 2005.
74. Raupach, M. R.; Briggs, P. R.; King, E. A.; Schmidt, M.; Lovell, J. L. Observed decadal trends in vegetation cover over the Australian Continent. In: CSIRO Climate Science Meeting : Science Presentations, Day 2 [May 26], Sessions A, B & C : abstracts; 2005; Gold Coast, Queensland. Aspendale: CSIRO Atmospheric Research; 2005. 22.

75. Raupach, M. R.; Briggs, P. R.; King, E. A.; Schmidt, M.; Lovell, J. L.; Senarath, U.; et al. Observed decadal trends in vegetation cover over the Australian continent. In: Greenhouse 2005: action on climate change: conference handbook; 2005; Melbourne. Aspendale, Vic.: CSIRO; 2005. 37.
76. Raupach, MR; Schöttker, B; Briggs, PR; Lovell, JL; Oubelkheir, K; Marks, A; et al. Integration of earth observation to assess land condition in GBR catchments and sediment delivery to the GBR lagoon waters: a feasibility study. In: Rainforest meets reef: joint Rainforest CRC and CRC Reef conference; 22-24 November 2005; Southbank Hotel and Convention Centre, Townsville. 2005.
77. Trudinger, C. M.; Raupach, M. R. Application of the Kalman filter to parameter estimation in biogeochemical models using remotely sensed data. In: AGU Fall meeting [abstracts]; 2005; Washington, D.C.: American Geophysical Union; 2005. B41B-0204.
78. Tschakert, P.; Raupach, M. R.; Ojima, D. S. Information needs for adaptive management of the carbon cycle: from regional carbon budgets to a holistic decision-support framework. In: 7th International Carbon Dioxide Conference: abstracts; 2005; Broomfield, Colo.. Boulder, Colo.: Committee of the Seventh International Carbon Dioxide Conference; 2005.
79. Raupach, M. R. A dynamical-system perspective on carbon and water vulnerabilities: views at global and local scales. In: Presented at Workshop on Earth System Feedbacks: Vulnerability of the carbon cycle to drought and fire; 2006; Canberra. Global Carbon Project; 2006.
80. Raupach, M. R. Carbon in the earth system: dynamics and vulnerabilities. In: Earth System Science Partnership Open Science Conference; 9-12 November, 2006; Beijing, China. 2006.
81. Raupach, M. R.; Briggs, P. R.; King, E. A.; Schmidt, M.; Paget, M. J.; Lovell, J. L.; et al. Impacts of decadal climate trends on Australian vegetation. In: Earth observation symposium [presentations]; 2006; CSIRO Discovery Centre. Canberra: CSIRO; 2006.
82. Raupach, M. R.; Canadell, J. G. Earth system vulnerabilities associated with carbon dioxide, water, methane and dust. In: Integrated land ecosystem-atmosphere processes study : proceedings of the 1st iLEAPS Science Conference, Boulder, Colorado, USA, 21-26 January 2006; 21-26 January 2006; Boulder, Colorado, USA. Helsinki: Aerosolitutkimusseuray; 2006.
83. Raupach, M. R.; Canadell, J. G. The global carbon cycle: drivers, dynamics and vulnerabilities. In: Krummel, P. B.; Derek, N.; Cainey, J. M. editors, editor/s. Cape Grim Baseline Air Pollution Station Annual Science Meeting 2006 : abstracts; 2006; Hobart ,Tasmania. Aspendale, Vic.: Bureau of Meteorology; CSIRO; 2006. 2.
84. Raupach, M. R.; Canadell, J. G. Vulnerabilities in the earth system associated with land-atmosphere exchanges carbon, water and dust. In: Integrated land ecosystem-atmosphere processes study : proceedings of the 1st iLEAPS Science Conference, Boulder, Colorado, USA, 21-26 January 2006; 21-26 January 2006; Boulder, Colorado, USA. Helsinki: Aerosolitutkimusseuray; 2006. 94-96.
85. Raupach, M. R.; Held, A. A. Earth observation in Australia: what's needed and what's happening. In: Earth observation symposium [presentations]; 2006; CSIRO Discovery Centre. Canberra: CSIRO; 2006.
86. Trudinger, C. M.; Raupach, M. R.; Briggs, P. R. Data assimilation for the coupled carbon-water system. In: Presented at Workshop on Earth System Feedbacks: Vulnerability of the carbon cycle to drought and fire; 2006; Canberra. Global Carbon Project; 2006.
87. Briggs, P. R.; Raupach, M. R.; King, E. A.; Paget, M. J.; Trudinger, C. M. Climate anomalies and Australian soil moisture: Results from the Australian Water Availability Project [poster]. In: Greenhouse 2007 : the latest science and technology : conference handbook; 2-5 October 2007; Sydney, NSW. Aspendale: CSIRO Marine and Atmospheric Research; 2007.
88. Paget, M. J.; King, E. A.; Briggs, P. R.; Raupach, M. R. AATSR for terrestrial water resource assessment via model-data assimilation. In: ENVISAT Symposium; 2007; Montreux, Switzerland. Noordwijk, The Netherlands: European Space Agency; 2007.
89. Plummer, S.; Arino, O.; Ranera, F.; Tansey, K.; Chen, J.; Dedieu, G.; et al. An update on the DUE globcarbon initiative: multi-sensor estimation of global biophysical products for global

- terrestrial carbon studies. In: ENVISAT Symposium; 2007; Montreux, Switzerland. Noordwijk, The Netherlands: European Space Agency; 2007.
- 90. Raupach, M. R. Carbon and climate: standing at the crossroads [keynote address]. In: Swiss Global Change Day; 4th April, 2007; Bern, Switzerland. Switzerland: 2007.
 - 91. Raupach, M. R. Carbon, climate and humans: Australia in the Earth System. In: Hollis, A. J.; Jemmeson, V.; Australia. Bureau of Meteorology Research Centre.; Centre for Australian Weather and Climate Research. editors, editor/s. Physical processes and modelling of the water and carbon cycle : extended abstracts of presentations at the first annual CAWCR Modelling Workshop, 27-29 November; 2007; Melbourne, Vic.. Melbourne, Vic.: Bureau of Meteorology Research Centre; 2007. 75-78.
 - 92. Raupach, M. R. Carbon-climate-human interactions as a complex system. In: 8th Asia-Pacific Complex Systems Conference; 2-5 July 2007; Gold Coast, Qld, Australia. 2007.
 - 93. Raupach, M. R. Trends in global, regional and Australian CO₂ emissions from fossil fuels. In: Greenhouse 2007 : the latest science and technology : conference handbook; Sydney, New South Wales. Aspendale: CSIRO Marine and Atmospheric Research; 2007. 95.
 - 94. Raupach, M. R.; Briggs, P. R.; King, E. A.; Paget, M. J.; Trudinger, C. M. Trends in Australian water availability. In: Water for a Healthy Country Flagship; Australia. National Water Commission; Land and Water Australia; Australian Climate Change Science Program; CSIRO. Office of the Chief Executive. Science Team, editor/s. Hydrological consequences of climate change : Cutting Edge Science Symposium : 15-16 November 2007, CSIRO Discovery Centre; 2007; Canberra. Canberra, A.C.T.: CSIRO; 2007. 41.
 - 95. Raupach, M. R.; Briggs, P. R.; King, E. A.; Paget, M. J.; Trudinger, C.M. Trends in Australian water availability. In: Greenhouse 2007 : the latest science and technology : conference handbook; Sydney, New South Wales. Aspendale: CSIRO Marine and Atmospheric Research; 2007. 68.
 - 96. Raupach, M. R. The carbon cycle at the carbon crossroads. In: Academy of Science, Science at the Shine Dome, 'Dangerous climate change'; May, 2008; Canberra, A. C. T.. Australian Academy of Science; 2008.
 - 97. Raupach, M. R.; Steffen, W. Projections for the earth's climate system in the 21st century. In: Glikson, A. Y.; Furnass, B., editor/s. Imagining the real : life on a greenhouse earth : in honour of Barry Jones, 11-12 June 2008, Canberra, Australian Capital Territory : program and abstracts; 2008; Canberra, Australian Capital Territory. Canberra: Manning Clark House Inc.; 2008. 15-16.
 - 98. Trudinger, C. M.; Raupach, M. R.; Briggs, P. R.; Haverd, V.; King, E. A.; Paget, M. J. Model-data fusion in the Australian Water Availability Project. In: Catchment-scale Hydrological Modelling & Data Assimilation International Workshop; 9-11 January; Melboune, Australia. University of Melbourne; 2008.
 - 99. Le Quere, C.; Raupach, M. R.; Canadell, J. G.; Marland, G.; Bopp, L.; Ciais, P.; et al. Recent trends in the global carbon cycle. In: 8th International Carbon Dioxide Conference, September 14-18 2009, Jena, Germany; 2009; Jena, Germany. Committee of the Eighth International Carbon Dioxide Conference; 2009.
 - 100. Leuning, R.; Zhang, Y.; Raupach, M. R.; Cleugh, H. A.; Chiew, F. H.; Zhang, L; et al. Estimating evaporation and runoff evaporation from 1-km to continental scales using remote sensing. In: GEWEX Landflux Meeting, 23 August 2009, Melbourne; 2009; Melbourne, Australia. 2009.
 - 101. Raupach, M. R. Earth system vulnerabilities through carbon-climate interactions. In: Reissell, A., editor/s. Water in a changing climate : progress in land-atmosphere interactions and energy/water cycle research : proceedings : 6th International Scientific Conference on the Global Energy and Water Cycles, and 2nd Integrated Land Ecosystem - Atmosphere Processes Study (iLEAPS) Science Conference, 24-28 August 2009, Melbourne, Australia; 2009; Melbourne, Australia. 2009. 265-266.

102. Raupach, M. R.; Ciais, P.; Friedlingstein, P.; Rayner, P.; Canadell, J. G. Quantifying and ranking vulnerabilities in the carbon-climate-human system. In: 8th International Carbon Dioxide Conference, September 14-18 2009, Jena, Germany; 2009; Jena, Germany. Committee of the Eighth International Carbon Dioxide Conference; 2009.
103. Raupach, M. R.; Gruber, N.; Ciais, P.; Rayner, P. J. Quantifying and ranking vulnerabilities in the carbon-climate-human system. In: Climate Change: Global Risks, Challenges and Decisions; 10-12 March, 2009; Copenhagen. IOP; 2009.
104. Trudinger, C. M.; Raupach, M. R.; Briggs, P. Parameter estimation in the Australian Water Availability Project. In: CAWCR Workshop on Ensemble Prediction and Data Assimilation 2009, 16-19 February, Melbourne, Victoria; 2009; Melbourne, Victoria. 2009. 13.
105. Trudinger, C. M.; Raupach, M. R.; Briggs, P.; Haverd, V.; King, E. A.; Paget, M. J. Model-data fusion for state and parameter estimation in continental-scale hydrological modelling. In: 5th WMO Conference on Data Assimilation, 5-9 October 2009, Melbourne, Victoria; 2009; Melbourne, Vic.. 2009.
106. Raupach, M. R. The six-sided problem of climate, carbon, nutrients, water, food and people. In: Proceedings of the Theo Murphy High Flyers Think Tank on Agricultural Productivity and Climate Change, Melbourne, 22-23 October 2009; 2009; Melbourne, Victoria. Canberra, Australia: Australian Academy of Science; 2010. 68-77.
107. Schmidt, Michael; Raupach, Michael; Briggs, Peter. Use of lagged time series correlations to relate climate drivers and vegetation response. In: Sparrow, B., and Bhalia, G., editor/s. 15th Australasian Remote Sensing and Photogrammetry Conference; 13-17 September 2010; Alice Springs, Australia. Remote Sensing & Photogrammetry Commission of the Surveying & Spatial Sciences Institute; 2010. 14 p.
108. Raupach, Michael. Carbon dioxide removal - soil carbon and biochar. In: AAS/ATSE Symposium Geoengineering the Climate? A Southern Hemisphere perspective; 26-27 September 2011; Canberra, ACT. Australian Academy of Science; 2011. 2 p.
109. Peters, Glen; Marland, Gregg; Le Quere, Corinne; Boden, Thomas; Canadell, Pep; Raupach, Michael. An update of the global carbon budget: Emissions rebound after the Global Financial Crisis. In: Planet Under Pressure; 26-29 March 2012; London, UK. Planet Under Pressure; 2012. 1 p.
110. Raupach, Michael. The role of narrative in shaping energy-water-climate futures. In: Planet Under Pressure; 26-29 March 2012; London, UK. Planet Under Pressure; 2012. 1 p.
111. Raupach, Michael; Houghton, RA; Canadell, Pep; Le Quere, Corinne. Estimation and attribution of increase in CO₂ airborne fraction and decrease in uptake rate by land and ocean CO₂ sinks over 1959-2010. In: Planet Under Pressure; 26-29 March 2012; London, UK. Planet Under Pressure; 2012. 1 p.
112. Trudinger, Cathy; Rubino, Mauro; Etheridge, David; Raupach, Michael; Harman, Ian. The global carbon cycle over the last millennium: implications of the latest Law Dome and South Pole firn and ice core records of CO₂ and d¹³CO₂. In: AGU Fall Meeting; 3-7 December 2012; San Francisco, California. American Geophysical Union; 2012. 1 p.

Technical and Consulting Reports:

1. Raupach, M.R. and Bradley, E.F. (1980). Wind in the Woden Plaza shopping complex. Report for the Woden Plaza management, June 1980. CSIRO Centre for Environmental Mechanics Tech. Rep. 2. (Raupach *et al.*, 1980a)
2. Raupach, M.R. (1980). Wind forces on proposed 2.3 m telescope building. Report for the Research School of Physical Sciences, Australian National University, August 1980. CSIRO Centre for Environmental Mechanics Tech. Rep. 39. (Raupach, 1980)
3. Raupach, M.R. and Leys, J.F. (1985). Aerodynamic testing of a portable wind tunnel for soil erosion studies. Report for the Soil Conservation Service of NSW, February 1985. CSIRO Centre for Environmental Mechanics Tech. Rep. 5. (Raupach *et al.*, 1985)
4. Raupach, M.R. (1985). Preliminary results of tests on rectangular and tent-shaped working sections for portable soil-erosion wind tunnels. Report for the Soil Conservation Service of NSW, June 1985. CSIRO Centre for Environmental Mechanics Tech. Rep. 7. (Raupach, 1985a)
5. Raupach, M.R. (1985). Report on micrometeorological aspects of forest rehabilitation. Report for Alcoa of Australia Limited, August 1985. CSIRO Centre for Environmental Mechanics Tech. Rep. 6. (Raupach, 1985b)
6. Raupach, M.R., Bradley, E.F. and Ghadiri, H. (1987). Wind tunnel investigation into the aerodynamic effect of forest clearing on the nesting of Abbott's Booby on Christmas Island. Progress report on a study commissioned by the Australian National Parks and Wildlife Service. CSIRO Centre for Environmental Mechanics Tech. Rep. 12. (Raupach *et al.*, 1987a)
7. Raupach, M.R. (1988). Wind erosion research priorities. Report for the Standing Committee on Soil Conservation, Department of Primary Industry, Commonwealth of Australia, December 1988. CSIRO Centre for Environmental Mechanics Tech. Rep. 17. (Raupach, 1988b)
8. Raupach, M.R. (1991). Evapotranspiration from irrigated eucalypt plantations. Report for the Murray-Darling Basin Commission, December 1991. CSIRO Centre for Environmental Mechanics Occasional Pap. 25. (Raupach, 1991a)
9. Raupach, M.R. (1993). Pesticide transport to a nature reserve. Report for the NSW Department of Water Resources, June 1993. CSIRO Centre for Environmental Mechanics Tech. Rep. 55. (Raupach, 1993c)
10. Raupach, M.R. (1993). Pesticide transport to a nature reserve: second study. Report for the NSW Department of Water Resources, June 1993. CSIRO Centre for Environmental Mechanics Tech. Rep. 61. (Raupach, 1993d)
11. Böhm, M., Hofmann, C. and Raupach, M.R. (1995). Vegetation and land-use survey of the upper Hunter valley basin: summer. Pacific Power Dry Deposition Study (Project SB/1/217; lead agency: CSIRO Division of Atmospheric Research). CSIRO Centre for Environmental Mechanics Tech. Rep. 82. (Böhm *et al.*, 1995)
12. Böhm, M., Raupach, M.R. and Ford, P.W. (1996). Modelling dry deposition processes: a literature review. (Project SB/1/217; lead agency: CSIRO Division of Atmospheric Research). CSIRO Centre for Environmental Mechanics Tech. Rep. 110. (Böhm *et al.*, 1996)
13. Short, D.L., Kalma, J.D., Crapper, P.F., Musto, I., Raupach, M.R., Rosewell, C.J., Shao, Y., Silburn, D.M., Srikanthan, R. and Yapp, G. (1996). Impact of climatic variability on wind and water erosion in the Murray-Darling Basin. NRMS Project 219, Final Report. CSIRO Division of Water Resources Consultancy Report 96-24. (Short *et al.*, 1996)
14. Raupach, M.R., Ford, P.W. and Briggs, P. (1996). Modelling the aerial transport of endosulfan to rivers. Part I: the vapour transport pathway. CSIRO Centre for Environmental Mechanics Tech. Rep. 113. (Raupach *et al.*, 1996c)
15. Raupach, M.R. and Briggs, P. (1996). Modelling the aerial transport of endosulfan to rivers. Part II: transport by multiple pathways. CSIRO Centre for Environmental Mechanics Tech. Rep. 121. (Raupach *et al.*, 1996a)

16. Raupach, M.R., Finkele, K. and Zhang, L. (1997). SCAM (Soil-Canopy-Atmosphere Model): description and comparisons with field data. CSIRO Centre for Environmental Mechanics Tech. Rep. 132.(Raupach *et al.*, 1997b)
17. Zegelin, S.J., Carras, J.N., Riley, K.W., Jones, D.R. and Raupach, M.R. (1997). Dust generation from tailings: development of the micro wind tunnel and preliminary investigations of tailings surfaces. Report to Kalgoorlie Consolidated Gold Mines Pty Ltd and Posgold Kaltails Pty Ltd. CSIRO Centre for Environmental Mechanics Tech. Rep. 135. (Zegelin *et al.*, 1997)
18. Leuning, R., Denmead, O.T., Griffith, D.W.T., Jamie, I.M., Isaac, P., Hacker, J., Meyer, C.P., Galbally, I.E., Cleugh, H.A., Raupach, M.R. and Esler, M.B. (1997). Assessing biogenic sources and sinks of greenhouse gases at three interlinking scales. Final report to NGAC October 1997. CSIRO Land and Water, Consultancy Rep. 56/97. (Leuning *et al.*, 1997)
19. Raupach, M.R. and Moran, C.J. (1998). Material budgets as an organising framework. Contribution to methods development for the National Land and Water Resources Audit". CSIRO Land and Water, Consultancy Rep. 27/98.
<http://www.clw.csiro.au/publications/technical98/tr27-98.pdf> (Raupach *et al.*, 1998d)
20. Briggs, P., Raupach, M.R., Cooper, B. and Muschal, M. (1998). Integrative modelling of transport and fate of endosulfan in the riverine environment, Part I: use of observed riverine concentrations to identify contributions of airborne and waterborne transport. CSIRO Land and Water, Consultancy Rep. 14/98. <http://www.clw.csiro.au/publications/technical98/tr14-98.pdf> (Briggs *et al.*, 1998)
21. Raupach, M.R. and Briggs, P.R. (1998) Integrative modelling of transport and fate of endosulfan in the riverine environment, Part II: Summary Report. CSIRO Land and Water, Consultancy Rep. 50/98. (Raupach *et al.*, 1998c)
22. Raupach, M.R. and Briggs, P.R. (1998) Integrative Modelling of the Transport and Fate of Endosulfan in the Riverine Environment. Final Report to the Land and Water Resources Research and Development Corporation on R&D Project CEM5. (Raupach *et al.*, 1998b)
23. Raupach, M.R. and Leys, J.F. (1999). The efficacy of vegetation in limiting spray drift and dust movement. CSIRO Land and Water, Tech. Rep. 47/99.
<http://www.clw.csiro.au/publications/technical99/tr47-99.pdf> (Raupach *et al.*, 1999e)
24. Raupach M.R., Leys, J.F., Woods, N., Dorr, G. and Cleugh, H.A. (2000). Modelling the effects of riparian vegetation on spray drift and dust: the role of local protection. CSIRO Land and Water, Tech. Rep. 29/00. <http://www.clw.csiro.au/publications/technical2000/tr29-00.pdf> (Raupach *et al.*, 2000b)
25. Lu, H., Raupach, M.R. and McVicar, T.R. (2001). A robust model to separate remotely sensed vegetation indices into woody and herbaceous cover and its large scale application using AVHRR NDVI time series. CSIRO Land and Water, Tech. Rep. 35/01.
<http://www.clw.csiro.au/publications/technical2001/tr35-01.pdf> (Lu *et al.*, 2001)
26. Raupach, M.R., Kirby, J.M., Barrett, D.J. and Briggs, P.R. (2001). Balances of water, carbon, nitrogen and phosphorus in Australian landscapes: (1) Project description and results. CSIRO Land and Water, Tech. Rep. 40/01. <http://www.clw.csiro.au/publications/technical2001/tr40-01.pdf> (Raupach *et al.*, 2001f)
27. Raupach, M.R., Kirby, J.M., Barrett, D.J., Briggs, P.R., Lu, H. and Zhang, L. (2001). Balances of water, carbon, nitrogen and phosphorus in Australian landscapes: (2) Model formulation and testing. CSIRO Land and Water, Tech. Rep. 41/01.
<http://www.clw.csiro.au/publications/technical2001/tr41-01.pdf> (Raupach *et al.*, 2001g)
28. Raupach, M.R., Kirby, J.M., Barrett, D.J., Briggs, P.R., Lu, H. and Zhang, L. (2002). Balances of water, carbon, nitrogen and phosphorus in Australian landscapes: Bios Release 2.04. National Land and Water Resources Audit Project 5.4A, Final Delivery CD-ROM (19 April 2002). CSIRO Land and Water. (Raupach *et al.*, 2002b)
29. McVicar, T.R., Briggs, P.R., King, E.A. and Raupach, M.R. (2003) A Review of Predictive Modelling from a Natural Resource Management Perspective: The Role of Remote Sensing of

the Terrestrial Environment. CSIRO Land and Water Client Report to the Bureau of Rural Sciences (also available as CSIRO Earth Observation Centre Report 2003/03 and CSIRO Atmospheric Research Report 2003/31), Canberra, Australia.
<http://www.clw.csiro.au/publications/consultancy/> and <http://www.eoc.csiro.au/> (McVicar et al., 2003)

30. Raupach, MR; Schoettker, B; Briggs, PR; Lovell, JL; King, EA; Oubelkeir, K; et al. Use of earth observation to assess land condition and sediment delivery in Great Barrier Reef catchments: a feasibility study Country Flagship. Canberra: CSIRO; 2006. procite:cbe3c1e1-b9fe-4cbd-b1b8-9c089cf70e47.
31. Raupach, M. R.; Briggs, P. R.; Haverd, V.; King, E. A.; Paget, M. J.; Trudinger, C. M. Australian Water Availability Project (AWAP) CSIRO Marine and Atmospheric Research Component: Final Report for Phase 3. Canberra, A.C.T: CSIRO Marine and Atmospheric Research; 2008. procite:e8f664e4-e759-4e0f-8ca3-3a8e6e3232d0.
32. Canadell, J. G.; Ciais, P.; Le QuéRé, C.; Dhakal, S.; Raupach, M. R. The human perturbation of the carbon cycle. Paris, France: UNESCO-UNEP-SCOPE; 2009. Report No.:UNESCO-UNEP-SCOPE Policy Brief. procite:d6dd80db-4401-4d23-a706-c49b39419304.
33. Raupach, M. R.; Briggs, P. R.; Haverd, V.; King, E. A.; Paget, M. J.; Trudinger, C. M. Australian Water Availability Project (AWAP): CSIRO Marine and Atmospheric Research Component: Final Report for Phase 3. Aspendale: CSIRO Marine and Atmospheric Research; 2009. procite:4175c8ca-86e1-496a-96c5-13dc53e2cf1d.
34. Raupach, M. R.; Church, J. A.; Canadell, J. G. Personal Submission to the Senate Select Committee on Climate Policy. Senate of the Australian Parliament : Revised version. 2009. procite:6a9928f0-4a3e-47f3-ad85-8b0dab171001.
35. Allison, Ian; Bird, Michael; Church, John; England, Matthew; Enting, Ian; Karoly, David; et al. The science of climate change: questions and answers. Australian Academy of Science; 2010. csiro:EP107032.
36. Raupach, Michael. Emerging Research Fronts : Michael R. Raupach Discusses the Growth Rate of CO₂ Emissions From Fossil Fuels. Thomson Reuters Science Watch; 2010. csiro:EP107026.
37. Raupach, Michael; Lambeck, Kurt; England, Matthew; Fairley-Grenot, Kate; Finnigan, John; Krull, Evelyn; et al. Challenges at energy-water-carbon intersections. Canberra: Prime Minister's Science, Engineering and Innovation Council; 2010. csiro:EP107035.
38. Timbal, Bertrand; Arblaster, Julie; Braganza, Karl; Fernandez, Elodie; Hendon, Harry; Murphy, Brad; et al. Understanding the anthropogenic nature of the observed rainfall decline across south-eastern Australia. Centre for Australian Weather and Climate Research; 2010. csiro:EP107038.
39. Harman, Ian; Trudinger, Cathy; Raupach, Michael. SCCM - the Simple Carbon-Climate Model: Technical Documentation. Centre for Australian Weather and Climate Research; 2011. csiro:EP115716.
40. Raupach, Michael; Harman, Ian; Canadell, Pep. Global climate goals for temperature, concentrations, emissions and cumulative emissions. Centre for Australian Weather and Climate Research; 2011. csiro:EP115317.
41. Law, Rachel; Raupach, Michael; Abramowitz, Gabriel; Dharssi, Imtiaz; Haverd, Vanessa; Pitman, Andrew; et al. The Community Atmosphere Biosphere Land Exchange (CABLE) model Roadmap for 2012-2017. Melbourne: Centre for Australian Weather and Climate Research; 2012. csiro:EP126341.
42. Canadell, Pep; Raupach, Michael. Global carbon emissions to reach new heights in 2014. Australia, online: The Conversation; 2014. csiro:EP147841.
43. Haverd, Vanessa; Briggs, Peter; Grigg, Nicky; Raupach, Michael. The use of carbon cycle modelling for the production of ecosystem accounts. Canberra, Australia: Bureau of Meteorology, Canberra; 2015. csiro:EP1311017.

44. Haverd, Vanessa; Briggs, Peter; Grigg, Nicky; Raupach, Michael. The use of carbon cycle modelling for the production of ecosystem accounts. Canberra, Australia: Bureau of Meteorology; 2015. csiro:EP1311012.