

## PUBLICATIONS

### Books & Book Chapters

1. Waycott M, McMahon, K, Lavery P (2014). A Guide to Southern Temperate Seagrasses. CSIRO Publ., Melbourne. In Press
2. Borowitzka, M.A., Lavery P.S. and van Kuelen, M. (2006). Epiphytes of Seagrasses. In: A.W.D. Larkum et al (eds.), Seagrasses: Biology, Ecology and Conservation. Springer-Verlag, Netherlands. pp 441-462
3. Lavery, P. (2002). The Status of Western Australia's Coastal Environment. In: Boulter, S. (Ed), Coastal Law in Western Australia. The Environmental Defender's Office (W.A. inc.) ISBN 0958591741.
4. Kendrick, G.A. and Lavery, P.S. (2001). Assessing biomass, assemblage structure and production of algal epiphytes on seagrasses. In: Short, F T. and Coles, R.G (eds.). 2001. Global Seagrass Research Methods. Elsevier Science. Amsterdam. 473 pp.
5. Thomas, M., Lavery, P. and Coles R. (1999). Monitoring and assessment of seagrasses. In: Seagrasses in Australia. Butler, A. and Jernakoff, P. (eds). CSIRO Publ., Collingwood. Australia. ISBN 0 643 06442 7

### Referred Scholarly Journals

6. Serrano O, Lavery PS, Duarte CM, Kendrick GA, Calafat A, York PH, Steven A, Macreadie PIU (2016) Can mud (silt and clay) concentration be used to predict soil organic carbon content within seagrass ecosystems? Biogeosciences 13: 4915-4926 Sävström C, Hyndes GA, Eyre BD, Huggett MJ, Fraser MW, Lavery PS, Thomson PG, Tarquinio F, Steinberg PD, Laverock B. (2016) Microbial-mediated connectivity in coastal seascapes: processes and future projections. Ecology & Evolution (In Press)
7. Hyndes GA, Heck KL Jr., Harvey ES, Kendrick GA, Lavery PS, McMahon K, Orth R, Pearce A, Vanderklift M, Vergés A, Wernberg T, Whiting S, Wilson S (2016) Accelerating tropicalization and the transformation of temperate seagrass meadows. BioScience (In Press)
8. York PH, Smith TM, Coles RG, McKenna SA, Connolly RM, Irving AD, Jackson EL, McMahon K, Runcie JW, Sherman CD, Sullivan BK, Trevathan-Tackett SM, Brodersen KE, Carter AB, Ewers CJ, Lavery PS; Roelfsema CM, Sinclair EA, Strydom S, Tanner JE, van Dijk K, Warry FY, Waycott M, Whitehead S. (2016) Identifying knowledge gaps in seagrass research and management: an Australian perspective. Marine Environmental Research (In Press)
9. Sävström C, Serrano O, Rozaimi M, Lavery PS (2016). Utilization of carbon substrates by heterotrophic bacteria through vertical sediment profiles in coastal and estuarine seagrass meadows. Environmental microbiology Reports doi: 10.1111/1758-2229.12406. Published 18 May 2016
10. Serrano O, Lavery PS, López-Merino L, Ballesteros E, Mateo MA (2016) Location and associated carbon storage of erosional escarpments of seagrass *Posidonia* mats. Frontiers in Marine Science 3:42 1-7. doi: 10.3389/fmars.2016.00042
11. Serrano O, Ruhon R, Lavery PS, Kendrick GA, Hickey S, Masqué P, Arias-Ortiz A, Steven A, Duarte CM (2016) Impact of mooring activities on carbon stocks in seagrass meadows. Scientific Reports (In Press)
12. Rozaimi M, Lavery PS, Serrano O Krywood D (2016) Long-term carbon storage and its recent loss in an estuarine *Posidonia australis* meadow (Albany, Western Australia). Estuarine Coastal & Shelf Science 171: 58-65
13. Serrano O, Ricart AM, Lavery PS, Mateo MA, Arias-Ortiz A, Masque P, Steven A, and C. M. Duarte CM. (2015) Key biogeochemical factors affecting soil carbon storage in *Posidonia* meadows Biogeosciences 13: 4581–4594
14. Serrano O, Lavery PS, Masque P, Inostroza K, Bongiovanni J, Duarte CM (2016) Seagrass sediments reveal the long-term deterioration of an estuarine ecosystem. Global Change Biology 22:1523-1531 (2016; doi: 10.1111/gcb.13195)
15. Serrano O, Davis G, Lavery P, Duarte CM, Martinez-Cortizas A, Mateo MA, Masqué P, Arias-Ortiz A,

- Rozaimi R, Kendrick GA (2015) Reconstruction of centennial-scale fluxes of chemical elements in the Australian coastal environment using seagrass archives. *Science of the Total Environment* 541: 883-894
16. Jahnke M, Pagès JF, Alcoverro T, Lavery PS, McMahon KM and Procaccini G (2015) Should we sync? Seascape-level genetic and ecological factors determine seagrass flowering patterns. *Journal of Ecology* 103: 1464-1474
  17. Mazarrasa I, Marbà N, Lovelock CE, Serrano O, Lavery PS, Fourqurean J, Kennedy H, Mateo MA, Krause-Jensen D, Steven ADL, Duarte CM. (2015) Seagrass meadows as a globally significant carbonate reservoir *Biogeosciences* 12(5):4107-4138. DOI:10.5194/bg-12-4107-2015
  18. Gartner A, Lavery PS, Lozano-Montes H. (2015) Trophic implications and faunal resilience following one-off and successive disturbances to an *Amphibolis griffithii* seagrass system. *Marine Pollution Bulletin*. 94: 131-143
  19. de Bettignies T, Wernberg T, Lavery PS, Vanderklift MA, Gunson JR, Symonds G, Collier N (2015) Phenological decoupling of mortality from wave forcing in kelp beds. *Ecology* 96(3): 850-861.
  20. Kendrick AJ, Rule MJ, Lavery PS, Hyndes GA (2015) Spatial and temporal patterns in the distribution of large bivalves in a permanently-open temperate estuary: implications for management. *Marine & Freshwater Research* 66: 41-49.
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  22. Serrano O, Lavery PS, Rozaimi M, Mateo MA (2014) Influence of water depth on the carbon sequestration capacity of seagrasses. *Global Biogeochemical Cycles* 28: 950–961.
  23. McMahon K, Lavery, PS (2014) Canopy-scale of the seagrass *Amphibolis griffithii* in response to and recovery from light reduction. *Journal of Experimental Marine Biology & Ecology* 455:38-44
  24. Choney G, McMahon K, Lavery PS & Collier N (2014) Swan grazing on seagrass: abundance but not grazing pressure varies over an annual cycle in a temperate estuary. *Marine & Freshwater Research*
  25. Rozaimi R, Serrano O & Lavery PS (2013) Comparison of carbon accumulation by two morphologically different seagrasses. *Journal of the Royal Society of Western Australia* 96: 81-83.
  26. Hyndes GA, Nagelkerken I, McLeod R, Connelly R, Lavery PS, Vanderklift MA (2014) Mechanisms and ecological role of carbon transfer within coastal landscapes. *Biological Reviews* 89: 232-254. DOI: 10.1111/brv.12055
  27. Lavery PS, McMahon K, Weyers J, Boyce MC, Oldham CE (2013) The release of DOC from seagrass wrack and its implications for trophic connectivity. *Marine Ecology Progress Series* 494:121-133.
  28. Lavery PS, Mateo M-A, Serrano O, Rozaimi M (2013) Variability in the carbon storage of seagrass habitats and its implications for global estimates of Blue Carbon ecosystem service. *PLoS ONE* 8(9): e73748. doi:10.1371/journal.pone.0073748
  29. de Bettignies T, Wernberg T, Lavery PS, Vanderklift MA, Moring MB (2013) Contrasting mechanisms of dislodgement and erosion contribute to production of kelp detritus. *Limnology & Oceanography* 58: 1680-1688.
  30. McMahon K, Collier CA, Lavery PS (2013) Identifying robust bioindicators of light stress in seagrasses: A meta-analysis. *Ecological Indicators* 30:7-15 (DOI: 10.1016/j.ecolind.2013.01.030)
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  32. de Bettignies T, Wernberg T, Lavery PS (2013) Size, not morphology, determines hydrodynamic performance of a kelp during peak flow. *Marine Biology* 160: 843-851.
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  34. Kendrick GA, Waycott M, Carruthers T, Cambridge M, Hovey, Krauss S, Lavery P, Les D, Lowe R,

- Mascaró O, Ooi Lean Sim, J, Orth, RJ, Rivers D, Ruiz-Montoya L, Sinclair EA, Statton J, van Dijk K, Verduin J (2012) The central role of dispersal in the maintenance and persistence of seagrass populations. *BioScience* 62: 56-65
35. Mellbrand K, Lavery PS, Hyndes G and Hambäck PA. (2011) Linking Land and Sea: Different Pathways for Marine Subsidies. *Ecosystems*. 14:732-744 (DOI: 10.1007/s10021-011-9442-x).
  36. McMahon K, Lavery PS, Mulligan M (2011). Recovery from the impact of light reduction on the seagrass *Amphibolis griffithii*, insights for dredging management. *Marine Pollution Bulletin* 62: 270–283
  37. Gartner A, Lavery PS, McMahon K, Brearley A, Barwick H (2010). Light reductions drive macroinvertebrate changes in *Amphibolis griffithii* seagrass habitat. *Marine Ecology Progress Series* 401: 87-100.
  38. Collier CJ, Prado, P, Lavery PS (2010). Carbon and nitrogen translocation in response to shading of the seagrass *Posidonia sinuosa*. *Aquatic Botany* 93: 47-54
  39. Svensson CJ, Hyndes GA, Lavery PS (2010). An efficient method for collecting large samples of live copepods free from detritus. *Marine & Freshwater Research* 61:621-624.
  40. Eklöf JS, McMahon K and Lavery PS (2009) Effects of multiple disturbances in seagrass meadows: shading decreases resilience to grazing. *Marine & Freshwater Research* 60: 1317-1327.
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  42. Doropoulos C Hyndes GA, Lavery PS, Tuya F (2009) Dietary preferences of two seagrass inhabiting gastropods: allochthonous vs autochthonous resources. *Estuarine, Coastal & Shelf Science* 83: 13-18.
  43. Vanderklift MA, Lavery PS, Waddington KI (2009) Intensity of herbivory on kelp by fish and sea urchins differs between inshore and offshore reefs. *Marine Ecology Progress Series* 376:203-211.
  44. Collier CJ, Lavery PS, Ralph PJ, Masini RJ, (2009) Shade-induced response and recovery of the seagrass *Posidonia sinuosa* *Journal Experimental Marine Biology & Ecology* 370:89-103.
  45. Prado P, Collier CJ and Lavery PS (2008) Within-shoot and among-shoot <sup>13</sup>C and <sup>15</sup>N translocation in two *Posidonia* species from Western Australia. *Marine Ecology Progress Series* 361: 69-82.
  46. Collier CJ, Lavery PS, Masini RJ, Ralph PJ (2008) Physiological characteristics of the seagrass *Posidonia sinuosa* along a depth-related gradient of light availability. *Marine Ecology Progress Series* 353:65-79.
  47. Cambridge ML, How JR, Lavery PS & Vanderklift MA (2007) Retrospective analysis of epiphyte assemblages in relation to seagrass loss in a eutrophic coastal embayment. *Marine Ecology Progress Series* 346: 97-107.
  48. Svensson CJ, Hyndes GA and Lavery PS (2007) Food web analysis in two permanently open temperate estuaries: Consequences of saltmarsh loss? *Marine Environmental Research* 64: 286-304.
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  51. Lavery, PS, Reid, T, Hyndes, GA, van Elven, BR. (2007) Effect of leaf movement on the standing crop of algal epiphytes on seagrasses. *Marine Ecology Progress Series*. 338: 97-106
  52. Collier CJ, Lavery PS, Masini RJ, Ralph PJ (2007) Morphological, growth and meadow characteristics of the seagrass *Posidonia sinuosa* along a depth-related gradient of light availability. *Marine Ecology Progress Series*. 337:103-115
  53. Westera M & Lavery PS 2006 A comparison of hole punch and needle punch methods for the measurement of seagrass productivity. *Aquatic Botany* 85:267-269
  54. Smit AJ, Brearley A, Hyndes GA, Lavery PS and Walker DI 2006. δ <sup>15</sup>N and δ <sup>13</sup>C analysis of an *Posidonia sinuosa* seagrass bed. *Aquatic Botany* 84: 277-282

55. Wernberg T, Vanderklift MA, How J and Lavery PS. 2006 Export of detached macroalgae to seagrass beds from adjacent reefs. *Oecologia* 147:692-701
56. Smit AJ, Brearley A, Hyndes GA, Lavery PS and Walker DI 2005. Carbon and nitrogen stable isotope analysis of an *Amphibolis griffithii* seagrass bed. *Estuarine, Coastal & Shelf Sci.* 65: 545-556
57. Young E.B, Lavery, P.S., van Elven, B., Dring, M.J. and Burges, J.A. 2005. Nitrate reductase activity in macroalgae and its vertical distribution in macroalgal epiphytes of seagrasses. *Marine Ecology Progress Series* 288: 103-114
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60. Astill, H.L. and Lavery, P.S. 2004. Distribution and abundance of benthic macroalgae in the Swan-Canning Estuary, south-Western Australia. *Journal of the Royal Society of Western Australia* 87: 9-14.
61. Westera, M. Lavery, P and Hyndes, G. (2003) Recreationally targeted fish assemblages differ between protected and fished areas in a fringing coral reef marine park. *Journal of Experimental Marine Biology and Ecology* 294: 145-168
62. Lavery, P.S. & Vanderklift, M.A. (2002) A comparison of spatial and temporal patterns in epiphytic algal assemblages of the seagrasses *Amphibolis griffithii* and *Posidonia coriacea*. *Marine Ecology Progress Series* 236: 99-112
63. Gartner, A., Lavery, P.S. and Smit, A.J. (2002) Using the  $\delta^{15}\text{N}$  values of different functional forms of macroalgae and filter-feeders to reveal temporal and spatial patterns in sewage distribution. *Marine Ecology Progress Series* 235: 63-73
64. Walker, D.I., Kendrick, G.A., Hillman, K.A. and Lavery, P. (2001) Ecological significance of seagrasses: assessment for management of environmental impacts in Western Australia. *Ecological Engineering*. 16: 323-330
65. Lund, M.A., Lavery, P.S. and Froend, R.F. (2001) Removing filterable reactive phosphorus from highly coloured stormwater using constructed wetlands. *Water Science and Technology* 44: 85-92.
66. Lavery, P., Oldham, C. and Ghisalberti, M. (2001) The use of Fick's First Law for predicting porewater nutrient fluxes under diffusive conditions *Hydrological Processes* 15: 2435-2451
67. Boyce, M., Lavery, P., Bennett, I. and Horwitz, P. (2001) Variability in the stable carbon isotope signature of *Ruppia megacarpa* in estuaries of south-western Australia. *Aquatic Botany* 71: 83-92
68. Astill, H and Lavery, P. (2001) The dynamics of unattached benthic macroalgal accumulations in the Swan-Canning Estuary. *Hydrological Processes* 15: 2387-2399
69. Vanderklift, M.A. and Lavery, P. (2000) Small-scale spatial patterns in epiphyte assemblages of *Posidonia coriacea* and *Amphibolis griffithii*. *Soc. Ital. Di Biol. Mar.* 7: 294-297
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72. Vanderklift, M.A. and Lavery, P.S. (2000). Patchiness in assemblages of epiphytic macroalgae on *Posidonia coriacea* at a hierarchy of spatial scales. *Marine Ecology Progress Series* 192: 127-135.
73. Lavery, P., Bootle, S and Vanderklift, M. (1999) Ecological effects of algal harvesting on beaches in the Peel-harvey Estuary, Western Australia. *Estuarine Coastal and Shelf Science*, 49: 295
74. Kendrick, GA, Lavery, PS and Phillips, JC. (1999). Influence of *Ecklonia radiata* kelp canopy on macroalgal assemblages in Marmion Lagoon, Western Australia. *Hydrobiologia* 398/399: 275-283.
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80. Lavery P., Pattiaratchi C., Wyllie A. and Hick P. 1993. Remote sensing of macrophytes and phytoplankton in a shallow, south-west Australian estuary. *Rem. Sens. Env.* 46: 268 - 280.
81. Lavery P. and McComb A.J. 1991. The nutritional eco-physiology of *Chaetomorpha linum* and *Ulva rigida* in Peel Inlet, West. Australia. *Botanica Marina*. 34: 251-260.
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88. Henry, H., G. Bennett, I. J., Lavery, P. and Horwitz, P. 1999. Propagation of seagrasses using tissue culture. pp. 99-101. In: Johnson, K. A. and McFarlane, I. J. (eds.). *Proceedings of the International Association of Plant Tissue Culture & Biotechnology (Australian branch) VIth National Meeting*. University of Technology, Sydney.
89. Lavery P and Pattiaratchi, C. B. 1990. Multidate algorithms for estimating water quality in estuaries from T M data. *Proceedings of the Fifth Australasian Remote Sensing Conference, Perth, Western Australia, Oct. 1990*
90. Lavery, P 1990. Remote sensing of macrophytes and phytoplankton in a eutrophic estuary. *Proceedings of the Fifth Australasian Remote Sensing Conference, Perth, Western Australia, Oct. 1990*

#### Published Data sets

- Serrano, O., Ricart, A. M., Lavery, P. S., Mateo, M., Arias-Ortiz, A., Masque, P., Steven, A., & Duarte, C. M. (2016). Key Biogeochemical Factors Affecting Soil Carbon Storage In Posidonia Meadows. Retrieved from <http://ro.ecu.edu.au/datasets/24>. DOI : [10.4225/75/56b2fd48b92d5](https://doi.org/10.4225/75/56b2fd48b92d5)

#### Non-Refereed Journals

- Lavery, P. and Summers, R. (1992). The Spectacle of Nutrient Removal. *Land Wat. Res. News* 14:15-19

Lavery, P. (1991). The Jandakot Gropundwater Scheme Stage 2: Environmental Management Assessment. Land & Wat. Res. News **13**: 26-32

## Reports

Braid, J. and Lavery, P. (1996). Constructed wetland design criteria for treatment of urban stormwater. Centre for Ecosystem Management commissioned report 96/1. Edith Cowan University Perth.

Lavery, P, Hillman, K., Bastyan, G and McComb, A.J. (1995). Seasonal changes in macrophyte abundance and composition in the Peel-Harvey estuarine system. Institute for Environmental Science Report MAFRA 95/11, Murdoch University.

Hillman, K., Lord, D.A., McComb, A.J. and Lavery, P. (1995). Perth Coastal Waters Study. Environmental Values. Report to the Water Authority of WA. ISBN 0 7309 7228 3.

Connor, M., Coughlan, K., Lavery, P and Steinhauer, M. (1994) The State of Boston Harbor Report -1993. Massachusetts Water Resources Authority, Boston MA, USA.

Lavery, P. (1994). Changes in Seagrass Cover and The Current State of Seagrass Health in the Success Bank to Warnbro Sound Region. Two Reports prepared for The Department of Environmental Protection Commissioned Reports 1994-05 & 1994-06. November 1994

Lavery, P. (1993) Perth Coastal Waters Study: Macroalgal processes: their importance to nitrogen dynamics in coastal waters. Report to the Water Authority of WA, February 1993.

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Bootle, S and Lavery, P (1998). Macroalgal harvesting in the Peel-Harvey Estuary, Western Australia. Center for Ecosystem Management Report 1/98 to the Water & Rivers Commission, Perth , Western Australia.

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Lavery, P. and Westera, M. (1998). A survey of selected seagrass meadows in the Fremantle – Becher Point region: February 1998. Report by the Centre for Ecosystem Management to the Department of Environmental Protection of Western Australia. May 1998.

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- Lavery, P. (2002). Monitoring of seagrass meadows on the Eastern Shore of Garden Island, Western Australia. Report by the Centre for Ecosystem Management to the Department of Defence. CEM Report 2002-01.
- Lavery, P., Vanderklift, M., Brearley, A., Hyndes, G. and Wells, F. (1998) Cockburn Cement Shellsand Dredging Environmental Management Programme. The Ecological Significance of Seagrasses on Success Bank; Flora and Fauna Diversity. Final report of project S-1 Task 6 to Cockburn Cement Pty. Ltd. Dec 1998
- Kendrick G.A., Campey M., Lavery P. Westera M. and Wheeler K., 2000. *Shellsand Dredging Environmental Management Programme, Project S1: Ecological Significance Of Seagrass. Primary Production, Phase 3 Report.* Report prepared for Cockburn Cement Limited, Western Australia.
- Lavery, P., Westera, M., Kendrick, G. and Campey, M. (1998) Cockburn Cement Shellsand Dredging Environmental Management Programme. The Ecological Significance of Seagrasses on Success Bank; Nitrogen and Carbonate Turnover. Final report of project S-1 Task 5 to Cockburn Cement Pty. Ltd. Dec 1998
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### Other Conference Proceedings/Presentations

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