

**PUBLICATIONS (August 2010)**  
(Categorised as for the DEST index)

**Books, authored other (A2)**

1. Dale, P.E.R. (1991). *Managing Australian Coastlands*, Longman-Cheshire, Melbourne.
2. Dale, P.E.R. & McColl-Kennedy, J. (1988). *Living in Australian Cities*. Longman-Cheshire, Melbourne.

**Books, edited (A3)**

1. PA Ryan, JG Aaskov, TD St George, PER Dale (2005) Eds. *Arbovirus Research in Australia*, vol 9, QIMR, QUT, Griffith University. ISSN0725-4989
2. Morris, C.D., Dale P.E.R., & Standfast, H. eds.(2002) *Australian Mosquito Control Manual*, Mosquito Control Association of Australia, 2<sup>nd</sup> edition, Brisbane ISBN 0-646-35310-1.
3. Dale, P.E.R. & Hulsman, K. (eds.) (1989). *Management and administration of mosquito control programmes*. I.A.E.R., Griffith University, Queensland, Australia, 6-16.

**Book Chapter (B1)**

1. PER Dale and MJ Breifuss (2009) Chapter 8: Ecology and management of mosquitoes. In (Ed) N Saintilan *Australian Saltmarsh Ecology*, CSIRO Press, pp167-179.
2. Sheaves M, Brodie J, Brooke B, Dale P, Lovelock C, Waycott M, Gehrke P, Johnston R, Baker R (2007) *Assessing Climate Change Vulnerability of the Great Barrier Reef*. Part 3, Chapter 19: Vulnerability of coastal and estuarine habitats in the GBR to climate change. GBRMPA. pp 593-620.
3. P Dale, P. E. R., M. B. Dale, J. Anorov, J. Knight, M. C. Minno, B. Powell, R. C. Raynie and J M. Visser. (2006). Chapter 9: Aspects of adaptive management of coastal wetlands: Case studies of processes, conservation, restoration, impacts and assessment. In *Wetlands as a natural resource*. (Eds) J.T.A. Verhoeven, B. Beltman, R. Bobbink & D.F. Whigham, Volume 2. *Wetlands: functioning, biodiversity conservation and restoration*, *Ecological Studies 191*, Springer Berlin, pp197-222.
4. Pat Dale, Heather Chapman and Margaret Greenway (2001) Treatment constructed wetlands for sewage effluent treatment: do they encourage mosquito breeding? In J Pries Ed. *Treatment Wetlands for Water Quality improvement* CH2M Hill, Canada
5. Dale P.E.R., Ritchie, S.A., Territo, B.M., Hulsman. K. and Kay, B.H. (1998) Use of remote sensing to map intertidal wetland water distribution. In ed. A.J. McComb and J.A. Davis, *Wetlands for the Future*, Gleneagle Press Adelaide, Australia, pp 581-595.

6. Ritchie, A.S. & Dale, P.E.R. (1994). *Modern technology for salt marsh mosquito surveillance*. In (ed.) W J Mitsch, *Wetlands of the World, Part V, Section II*, Elsevier, Utrecht: 781-797.
7. Dale, P.E.R. (1994). *An Australian perspective on coastal wetland management and vector borne disease*. In (ed.) W J Mitsch, *Wetlands of the World, Part V, Section II*, Elsevier, Utrecht: 771-781.
8. Dale, P.E.R., Ward, D., Chandica, A.L., & Hulsman, K. (1991). *Colour infra red aerial photography for saltmarsh management in subtropical Australia*, in Sakata, T. & Nakane, K. *Application of Remote Sensing for resources monitoring and vegetation mapping*, Research and Information Centre, Tokai University, Tokyo, 71-80.
9. Dale, P.E.R. & Hulsman, K. (1990). *Conflict in the Mud*, in *Issues in Human Geography*, ed. Ritchie, R. McGraw-Hill.

### **Book chapter (B2)**

1. Sheaves M, Collins J, Houston W, Dale P, Revill A, Johnston R, Abrantes K (2006) Contribution of Floodplain Wetland Pools to the Ecological Functioning of the Fitzroy River Estuary. *Cooperative Research Centre for Coastal Zone, Estuarine and Waterway Management. Brisbane*. ISBN 1 921017 70 8. 279 p.
2. Dale, P.E.R. (1989). Cost effectiveness of control methods, in *Management and administration of mosquito control programmes*, I.A.E.R., Griffith University, Queensland, Australia.
3. Dale, P.E.R. (1989). Identifying the Problem, in *Management and administration of mosquito control programmes*, I.A.E.R., Griffith University, Queensland, 30-48.
4. Thyer, N. Dale, P.E.R. (1987). Recent Fire History, in *An Island in Suburbia*, Catterall, C.P. & Wallace, C.J. (eds.), I.A.E.R., Griffith University, Queensland, 83-87.
5. Coutts, R.H. & Dale, P.E.R. (1987). Patterns of vegetation, in *An Island in Suburbia*, Catterall, C.P. & Wallace, C.J. (eds.), I.A.E.R., Griffith University, Queensland, 58-83.
6. Dale, P.E.R. & Stock, E. (1987). Microclimate, in *An Island in Suburbia*, Catterall, C.P. & Wallace, C.J. (eds.), I.A.E.R., Griffith University, Queensland, 32-38.
7. Dale, P. & Stock, E. (1983). Mining and Environment. Ch. 8 in *Essays on Mining in Australia*, ed. P.C. Sharma & W.H. Richmond, University of Queensland Press.

### **Refereed article in a scholarly journal (C1)**

**Under review**

Jon Knight, Lachlan Griffin, Pat Dale, Stuart Phinn, Oviposition and larval habitat preferences of the saltwater mosquito, *Aedes vigilax*, in a subtropical mangrove forest in Queensland, Australia. *J Insect Science*

Zhaofei Wen , Shuqing Zhang, Yan Sun and Patricia Dale. Agricultural landscape heterogeneity quantification and imagery selection of satellite monitoring in Jiansanjiang reclamation area, Northeast China," *Journal of Applied Remote Sensing (JARS)* .

Shibani, N, Hughes JM, Dale PER An investigation of patterns of connectivity among populations of the Australian mosquito (*Aedes vigilax*) using mitochondrial sequences. *J of Biogeography*

Ermi Ndoen Clyde Wild, Pat Dale, Neil Sipe, Mike Dale (under review), aspects of the vector capacity of anopheline mosquitoes in West Timor and Central Java, Indonesia. *Southeast Asian Journal of Tropical Medicine and Public Health*

Shilu Tong, Wenbiao Hu, Neville Nicholls, Jonathan Patz, Pat Dale, John S Mackenzie, Anthony J McMichael. (under review) Climate Variability, Mosquito Density and the Transmission of Ross River Virus. *J American Medical Assoc*

Tong, Dale et al (under review) Spatial analysis of social and environmental factors associated with the transmission of Ross River virus. *Ecohealth*

Suchithra Naish Mrs, Wenbiao Hu Dr, Neville Nicholls Dr, John Mackenzie Dr, Pat Dale Dr and Shilu Tong Dr Climate variability and Barmah Forest virus disease transmission in Brisbane, Australia, *Environmental Health*

Suchithra Naish, Wenbiao Hu, Neville Nicholls, John Mackenzie, Pat Dale and Shilu Tong Climate variability and the transmission of Barmah Forest Virus disease in Brisbane, Australia. *Vector-Borne and Zoonotic Diseases*.

### Accepted subject to revision

NA Xiaodong<sup>1,2</sup>, ZHANG Shuqing<sup>1\*</sup>, ZHANG Huaiqing<sup>3</sup>, LI Xiaofeng<sup>1</sup>, WANG Zongming<sup>1</sup>, YU Huan<sup>1,2</sup>, LIU Chunyue<sup>1,2</sup>, Patricia DALE<sup>4</sup> Integrating TM and Ancillary Geographical Data with Classification Trees for Land Cover Classification in Small Sanjiang Plain. *Chin Geogr Sci* )\_

**In press**

Ermi Ndoen Clyde Wild, Pat Dale, Neil Sipe, Mike Dale (in press ) Dusk to dawn activity patterns of anopheline mosquitoes in West Timor and Java, Indonesia, Southeast Asian Journal of Tropical Medicine and Public Health (accepted Feb 1 2011 ) May 2011 volume 42 ,3 May 2011

Tomerini, D, Dale, PER, Sipe, N (in press) Does mosquito control have an effect on mosquito-borne disease? The case of Ross River Virus disease and mosquito management in Queensland, Australia. *J American Mosquito Control Assoc* 27 (1) accepted 18 December 2010

William F. Laurance<sup>1\*</sup>, Bernard Dell<sup>2</sup>, Stephen M. Turton<sup>3</sup>, Michael J. Lawes<sup>4</sup>, Lindsay B. Hutley<sup>5</sup>, Hamish McCallum<sup>6</sup>, Patricia Dale<sup>6</sup>, Michael Bird<sup>3</sup>, Giles Hardy<sup>2</sup>, Gavin Prideaux<sup>7</sup>, Ben Gawne<sup>8</sup>, Clive R. McMahon<sup>4</sup>, Richard Yu<sup>9</sup>, Jean-Marc Hero<sup>10</sup>, Lin Schwarzkopf<sup>11</sup>, Andrew Krockenberger<sup>1</sup>, Michael Douglas<sup>4</sup>, Ewen Silvester<sup>12</sup>, Michael Mahony<sup>13</sup>, Karen Vella<sup>14</sup>, Udoy Saikia<sup>9</sup>, Carl-Henrik Wahren<sup>15</sup>, Zhihong Xu<sup>6</sup>, Bradley Smith<sup>16</sup>, Chris Cocklin<sup>16</sup> (in press) The ten Australian ecosystems most vulnerable to tipping points, *Biological Conservation* (Accepted 22 Jan 2011)

## Published

1. Griffin L. F., Dale P. E. R. & Knight J. M. (2010) Identifying mosquito habitat microtopography in an Australian mangrove forest using LiDAR derived elevation data. *Wetlands* 30: 929-937.
- 2.
3. Dale MB, Allison, L, Dale PER (2010) Model Selection using Minimal Message Length: an example using pollen data, *Community Ecology* 11(2): 187-201
4. Xiaofeng Li, Shuqing Zhang, Xin Pan, Pat Dale, Roger Cropp. Straight Road Edge Detection from High-resolution Remote Sensing Images Based on Ridgelet Transform with Revised Parallel-Beam Radon Transform (RPRT) *International J Remote Sensing* 31, 19: 5041-5059.
5. Ermi Ndoen Clyde Wild, Pat Dale, Neil Sipe, Mike Dale (2010) Relationships between anopheline mosquitoes and topography in West Timor and Java, Indonesia. *Malaria Journal* 9: 242 (26 August 2010)
6. L Eslami- Andargoli, PER Dale, N Sipe , J Chaseling (2010) Local and landscape effects on spatial patterns of mangrove forest during wetter and drier periods: Moreton Bay, Southeast Queensland, Australia. *Estuarine and Coastal Shelf Science* 89 (1): 53-61
7. P Dale, M. Dale, D Dowe, J Knight, C Lemckert', D Low Choy, M Sheaves, I Sporne, (2010) A conceptual roadmap for integrating coastal wetland research and management: an example from Queensland, Australia. *Progress in Physical Geography* (accepted 20 March 2010, scheduled for vol 34(5): 605-624. first published on June 3, 2010 as doi:10.1177/0309133310369617
8. M. B. Dale, L. Allison and P. E. R. Dale (2010) A model for correlation within clusters and its use in pollen analysis. *Community Ecology* 11:51-58.

9. Hu, W; Mengersen, K; Tong, S; Dale, P (2010) Difference in mosquito species and the transmission of Ross River virus between coastline and inland areas in Brisbane, Australia. *Environmental Entomology* 39 88-97
10. L Eslami- Andargoli, PER Dale, N Sipe , J Chaseling (2009) Mangrove expansion and rainfall patterns in Moreton Bay, southeast Queensland, Australia, Australia) *Estuarine and Coastal Shelf Science*, 85: 292-298
11. Jon M. Knight, Pat E.R. Dale, Lachlan Griffin and John Spencer (2009) Exploring Lidar data for mapping the micro-topography and tidal hydrodynamics of mangrove systems: an example from south-east Queensland Australia. *Estuarine and Coastal Shelf Science* 85, 593-600 doi:10.1016/j.ecss.2009.10.002
12. Shuqing Zhang , Xiaodong Na, Bo Kong, Zongming Wang, Hongxing Jiang, Huan Yu, Zhichun Zhao, Xiaofeng Li, Chunyue Liu, **Patricia Dale** (2009) Identifying wetland change in China's Sanjiang Plain using remote sensing. *Wetlands* 29: 302-313.
13. Naish, S., Hu, W., Nicholls, N., Mackenzie, J.S., **Dale, P.**, McMichael, A.J., Tong, S. (2009) Socio-environmental predictors of Barmah forest virus transmission in coastal areas, Queensland, Australia. *Tropical Medicine & International Health* **14** (2): 247-256.
14. Anorov, J. Dale P.E.R., Powell, B. Greenway, M. (2009). An interdisciplinary approach for understanding and managing a sub-tropical coastal wetland ecosystem: Native Dog Creek, Southeast Queensland, Australia. *Procs Roy Soc Qld vol 114*: 19-32.
15. **J.M. Knight, P.E.R. Dale**, R.J.K. Dunn, G.J. Broadbent, C.J. Lemckert (2008) Patterns of tidal flooding within a mangrove forest: Coombabah Lake, South East Queensland, Australia. *Estuarine and Coastal Shelf Science* 76:580-593.
16. Xiaoyang Fu, P.E.R.Dale, Shuqing Zhang (2008) Evolving Neural Network Using Variable String Genetic Algorithms (VGA) for Color Infrared Aerial Image Classification. *Chinese Geographical Science* 18(2):162-170
17. Tong, S., Dale P., Nicholls, N. Mackenzie, J., Wolff, R. and McMichael A. 2008 Climate variability, social and environmental factors and Ross River virus transmission: research development and future research needs. *Environmental Health Perspectives* 116 (12): 1591-1597.
18. **Pat ER Dale**, Doug B Carlson, Clive Easton. (2008). 4 degrees of latitude: mosquito control on the "right" coasts of Florida and Australia. *J Amer Mosq Cont Assoc* 24(3): 427-437
19. **Dale PER**, Knight J (2008) Wetlands and mosquitoes: a review. *Wetlands Ecology and Management* DOI 10.1007/s11273-008-9098-2
20. **Dale PER**, Knight J, Kay BH, Chapman H, Ritchie SA, Brown MD. (2008). Habitat characteristics and eggshell distribution of the salt marsh mosquito, *Aedes vigilax*, in marshes in subtropical eastern Australia. 8pp. *Journal of Insect Science* 8:25, available online: [insectscience.org/8.25](http://insectscience.org/8.25)
21. **Dale P.E.R.** (2008) Assessing impacts of habitat modification on a subtropical salt marsh: 20 years of monitoring. *Wetlands Ecology and Management* 16: 77-87 DOI

10.1007/s11273-007-9058-2

22. Anorov, J, **Dale, PER**, Greenway, M and Powell, B. (2007) Impacts of human modification of coastal lowlands in sub-tropical Australia: a case study from south east Queensland. *Wetlands (Australia)* 24: 67-89.
23. Tong S, Hu W, Nicholls N, Mackenzie J, Dale P, Wolff R, McMichael T. 2007. The impact of climate variability on Ross River virus transmission in Queensland, Australia. *Epidemiology* 18:S103-S103
24. **Pat E.R. Dale**, Margaret Greenway, Heather Chapman, Mark J Breitfuss (2007) Constructed wetlands for sewage effluent treatment and mosquito larvae at two sites in subtropical Australia. *J Amer Mosq Cont Assoc.* 23: 109-117.
25. Daniel Franks, **Patricia Dale**, Richard Hindmarsh, Christy Fellows, Margaret Buckridge, Patti Cybinski (2007) Interdisciplinary Foundations :Reflecting on three decades of teaching and research at Griffith University, Australia, *Studies in Higher Education* vol 32, No 2, 167-185.  
(<http://dx.doi.org/10.1080/03075070701267228>)
26. M. B. Dale, L. Allison and **P. E. R. Dale**. (2007) Segmentation and Clustering as complementary sources of information. *Acta Oecologica* 30:1-10
27. Michael B. Dale, **Pat E.R.** Dale and Peter Tan (2007) Supervised clustering using decision trees and decision graphs: an ecological comparison. *Ecological Modelling* 204: 70-78. <http://dx.doi.org/10.1016/j.ecolmodel.2006.12.021>
28. **Pat E. Dale**, Neil G. Sipe, Jay T. Ratnayake, Peter L. Daniels (2006) Economic impact of biting midges on residential property values in Hervey Bay, Queensland, Australia. *J American Mosquito Control Association* 22:131-134.
29. Shilu Tong Neville Nicholls, Pat Dale, Tony McMichael, Michael Lindsay, John Mackenzie, Jonathan Patz (2006) Weather Variability, Tides and Barmah Forest Virus Disease in the Gladstone Region, Australia *Environ Hlth Perspectives* 114 (5) :678-683.
30. Dale P.E.R and Knight J.M. (2006) Managing salt marshes for mosquito control: impacts of runnelling, Open Marsh Water Management and grid-ditching in sub-tropical Australia, *Wetlands Ecology and Management* 14 (3): 211-220.  
<http://dx.doi.org/10.1007/s11273-005-1113-2>
31. S.Y. Lee, R.Dunn, R.A. Young, R.M. Connolly, P.E.R. Dale, R.DeHayr, C.J. Lemckert, S. McKinnon, B Powell, D.T. Welsh. (2006) Impact of urbanisation on coastal wetland structure and function. *Austral Ecology* 31: 149-163.
32. Hu, W., Tong, S., Mengersen, K., Oldenburg, B., and Dale, P. (2006). Mosquito species (Diptera: Culicidae) and the transmission of Ross River virus in Brisbane, Australia. *J Med Entomol* 43, 375-381.
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34. Glen Alsemgeest, Pat Dale and Darren Alsemgeest (2005) Evaluating the risk of potential acid sulfate soils and habitat modification for mosquito control (runnelling): comparing methods and managing the risk, *Environmental Management* 36 (1): 152-161, <http://dx.doi.org/10.1007/s00267-003-0112-4>
35. Patricia E.R. Dale, Jon Knight, Scott A. Ritchie and Brian H. Kay (2005) A practical tool to identify water bodies with potential for mosquito habitat under mangrove canopy: large scale airborne scanning in the thermal band 8-13  $\mu\text{m}$ . *Wetlands Ecology and Management* 13, 4: 389-394.
36. Shilu Tong, John F Hayes and Pat E.R. Dale (2005) Spatiotemporal variation of notified Barmah Forest virus infections in Queensland, Australia, 1993-2001. *Int J Env Health Res* vol 15: 89-98.
37. Pat Dale, Neil Sipe, Sugi Anto, Bangkit Hutajulu, Ermi Ndoen, Meisy Papayungan Akhmad Saikhu, Y.Tri Prabowa (2005) Malaria in Indonesia: a synthesis of recent research into its environmental relationships, *Southeast Asian Journal of Tropical Medicine and Public Health* vol 36 1: 1-13.
38. Hu, W., Nicholls, N., Lindsay, M., Dale, P., McMichael, A., Mackenzie, J., and Tong, S., 2004. Development of a predictive model for Ross River virus disease in Brisbane, Australia. *Am J Trop Med Hyg* 71, 129-137.
39. Chapman, H.F., Breitfuss, M. J., Dale, P.E.R. and Thomas, P (2004) Influence of saltmarsh habitat modification for mosquito control on shore crab populations in southeast Queensland. *Wetlands Australia* 22(1): 1-10.
40. M. B. Dale and P.E.R. Dale (2004) Sources of Uncertainty in Ecological Modelling: Predicting Vegetation Types from Environmental Attributes. *Community Ecology* 5 (2): 203-225.
41. J. Jones, P.E.R. Dale, A.L. Chandica, M. J. Breitfuss (2004) Distribution changes of the Grey Mangrove *Avicennia marina* (Forsk.) using large scale aerial color infrared photographs: are the changes related to habitat modification for mosquito control? *Estuarine and Coastal Shelf Science* 61(1):45-54.
42. M. J. Breitfuss & P. E. R. Dale (2004) The endangered Illidge's Ant Blue Butterfly, *Acrodipsas illidgei*, from an intertidal habitat managed for mosquito control. *J Amer. Mosq. Cont. Assoc* vol 20 (4) 91-93.
43. S. Tong, N Nicholls, P,Dale, R.Wolff, T. McMichael, M Lindsay, J. Mackenzie (2004) Development of a predictive model for Ross River virus disease using environmental data. *Am J Trop. Med Hyg.* 71:129-137.
44. Breitfuss, M. J. Connolly, R. M. and Dale, P. E. R. (2004). Densities and aperture sizes of burrows constructed by *Helograpsus haswellianus* (Decapoda: Varunidae) in saltmarshes with and without mosquito control runnels. *Wetlands*, 24(1): 14-22.
45. Neil G. Sipe & Pat Dale (2003) Challenges in using geographic information systems (GIS) to understand and control malaria in Indonesia, *Malaria journal*,2:36

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47. Tong S, Nichols N, Wolff R, Dale P, McMichael T, Mackenzie J, Lindsay M (2003) Potential impact of climate variation on Ross River virus within a socio-ecological context: Research design and development. *Epidemiology* 14:S47-S47.
48. Margaret Greenway, Pat Dale and Heather Chapman (2003) An assessment of mosquito breeding and control in 4 surface flow wetlands in tropical-subtropical Australia. *Water Science and Technology* Vol48, no5: 249-256.
49. Breitfuss, M. J., Connolly, R. M. and Dale. P. E. R. (2003). Mangrove distribution and mosquito control: transport of *Avicennia marina* (Forsk.) propagules by mosquito-control runnels in southeast Queensland saltmarshes. *Estuarine, Coastal and Shelf Science*, 56(3-4): 573-579.
50. Michael Dale, Patricia Dale, Tim Edgoose (2002) Using Markov models to incorporate serial dependence in studies of vegetation change. *Acta Oecologica* 23:261-269.
51. Dale, M. B. Dale, P. E. R., Li, C. and Biswas, G. (2002) Assessing impacts of small perturbations using a model-based approach. *Ecological Modelling* 156:185-199.
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53. P.E.R. Dale & M.B.Dale (2002) Optimal classification to describe environmental change: pictures from the exposition. *Community Ecology*, 3 (1): 19-29.
54. Dale P.E.R., Chapman H., Brown, M.D., Ritchie, S.A., Knight, J and Kay, B.H. (2002) Does habitat modification affect oviposition by the salt marsh mosquito *Ochlerotatus vigilax* (Skuse) (Diptera:Culicidae)? *Aust J Entomology*. 41:49-54.
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59. Saffigna, P.G. and Dale, P.E.R (1999) Acid sulfate soils in intertidal mosquito breeding habitats and implications for habitat modification. *J. Amer. Mosq. Cont. Assoc.* 15 (4): 520-525.
60. Dale, P.E.R., Ritchie, S.A., Chapman, H., and Brown, M.D.(1999) Eggshell sampling: quantitative or qualitative data? *J. Amer. Mosq. Cont. Assoc.* 15 (1):74-76.
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62. Chapman, H., Dale, P.E.R., and Kay, B.H. (1998). A method for assessing the effects of runnelling on salt-marsh grapsid crab populations. *J. Amer. Mosquito Assoc.* 14: 61-68.
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65. Dale, P.E.R. (1993). Australian Wetlands and Mosquito Control - Contain the Pest and Sustain the Environment. *Wetlands (Australia)*, 12, 2 : 1-12.
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#### Non refereed journal articles (C2)

1. , Jon Knight and Ilva Sporne (2010) Health in a changing world: wetlands and mosquito-borne disease. *Geog Teacher Journal* 44 (3) : 35-43
2. Ilva Sporne & Pat Dale (2008) Vegetation Management in Queensland: Integration Assessment of the Legal Framework *National Environmental Law Review*, 4: 40-50.
3. Ndoen E., Dale P., Sipe N., Dale M. (2008) Malaria vectors in West Timor, Indonesia – an overview. *Mosquito Bites in the Asia Pacific Region*, 3 (1) : 18-24.
4. J. Jones, P.E.R. Dale, A.L. Chandica, M. J. Breitfuss (2004) Changes in the distribution of the Grey Mangrove *Avicennia marina* (Forsk.) are they related to runnelling for mosquito control or to other factors? *Bulletin of the Mosquito Control Assoc Australia* 16 (1): 18-21.
5. P. E. R. Dale, H. Chapman, M. D. Brown, S. A. Ritchie J. Knight and B. H. Kay (2002) Is egg-laying by the salt marsh mosquito *Ochlerotatus vigilax* (Skuse)

affected by runnelling, Open Water Marsh Management or grid-ditching? *Bull Mosquito Control Assoc Australia* vol 14 (1): 17-21.

6. Knight, J., Phinn, S.R. and Dale, P. (2000) Integration of optical, thermal and synthetic aperture radar systems for mapping inundation in mangrove environments. Invited paper In: Proceedings of the 10<sup>th</sup> Australasian Remote Sensing and Photogrammetry Conference, Adelaide, August.
7. Andreas Muhar & Pat Dale (1998) Vector control through urban planning. *Wing Beats*, Summer 1998: 31-34.
8. Dale, P.E.R., Morris, C.D., Ritchie, S.A. & Kay B.H. (1996) Aerial remote sensing methods applied to mosquito control problems: a summary. *Bull. Mosquito Control Assoc. Australia*, 8 (2) :
9. Dale, P.E.R. (1995). The future of Australian Geography. *Geographical Education*, 8 (3):13-17.
10. Dale, P.E.R. and Morris, C.D. (1995). A potential tool to rapidly predict mosquito breeding areas. *Bull. Mosq. Control Assoc. Australia* 7(2): 16-24.
11. Dale, P.E.R. (1992). 1992 Mosquito Management Survey. *Mosquito Control Assoc. of Australia Bull.* 4, 2: 8-17.
12. Dale, P.E.R. (1990). Salt marsh management for mosquito control in coastal USA. *Mosquito Control Assoc., Aust. Bull.* 2, 2: 39-64.

### **Letter or note (C3)**

1. Hulsman, K. & Dale, P.E.R. (1988). Management of a sub-tropical coastal salt-marsh for mosquito control. *Proc. Ecol. Soc. Aust.* 15, 227-228.
2. Dale, P. & Hulsman, K. (1985). Mosquitoes and Wetland Ecology. *Water News*, 2, 13-14.

### **Conference publications - full written paper refereed (E1)**

1. Patricia Dale , Jon Knight (2007) Large-scale thermal remote sensing as a tool for mosquito management in a mangrove system. .In A.Koronios, C. Zhou, Y. Yang, S. Zhang, Y. Liang, J. Gao (eds) *Proceedings of the 1st International Conference of ICT Innovation & Application (ICIIA)*, Zhuhai China, 15- 17 November 2007, pp176-182. ISBN: 978-1-920927-77-6
2. Li, C. Biswas, G., Dale, M. B. and Dale, P. E. R. (2001) Building Models of Ecological Dynamics using HMM based Temporal Data Clustering, in *Advances in Intelligent Data Analysis, the Fourth International Conference on Intelligent Data Analysis, Lecture Notes in Computer Science Series, Vol 2189, Springer, pp. 53-62, 2001.*

### Conference publications - full written paper non-refereed (E2)

1. Sporne I and Dale P (2009) integration of the legal framework for ecosystem management in Queensland: the example of wetlands. Queensland Environmental Law Association Conference May 27-29, Sheraton Mirage, Surfers Paradise Gold Coast Queensland Australia
1. P. Dale (2008) Climate change and health, with a focus on mosquito-borne disease. International Seminar on Environmental health: the Professional Challenges in the 21<sup>st</sup> Century. Surabaya 12 -14 December 2008 Garden Palace Hotel.
2. Pat Dale, Neil Sipe Malaria In Indonesia And Its Environmental Relationships International Seminar And Workshop On Mosquito And Mosquito-Borne Disease Control Through Ecological Approaches, Gadjah Mada University, Yogyakarta, Indonesia Nov 28<sup>th</sup> 2007
3. Sipe N.G. Using geographic information systems to reduce malaria risk.(2003)
4. Dale, P.E.R., Ward, D. & Chandica, A.L. (1991). *Image subtraction of digital large scale colour infra red aerial photographs to monitor the impacts of habitat modification on a subtropical coastal wetland.* IGU Conference, Monitoring geosystems - Perspectives for the 21st Century, November 1991, Delhi, India.

### Conference publications (short extract) (E3)

1. Pat E.R.Dale Douglas B. Carlson , Clive Easton (2007) 4 Degrees Of Latitude: Mosquito Control On The "Right" Coasts Of Australia And Florida. Presented at the Annual Conference eof the American Mosquiot Control Association. Orlando Florida, February 2007
2. Shilu Tong,<sup>1</sup> Neville Nicholls,<sup>2</sup> John Mackenzie,<sup>3</sup> Pat Dale,<sup>4</sup> Rodney Wolff, <sup>5</sup>Tony McMichael (2007) The impact of climate variability on Ross River virus transmission in Queensland, Australia – Context and overview. ISEE07 conf
3. Ermi Ndoen, Neil Sipe, Peter Davey, Umar F Achmadi, Pat Dale, Pusparini, Ana Limbong, Bayu Aji (2006) Factors Associated With The Pattern Of Dengue Haemorrhagic Fever (Dhf) Incidence in Indonesia. Conference 13-17 March 2006 Malaysia.
4. Neil Sipe, Ermi Ndoen, Pat Dale (2006) Understanding spatial and temporal patterns of malaria in Indonesia, using Geographic Information Systems. Conference 13-17 March 2006 Malaysia.
5. Jon.M. Knight, Pat ER Dale, Ryan JK Dunn, Charles J Lemckert (2006) Patterns of Tidal Flushing within a Mangrove Forest: Lake Coombabah, South East Queensland Australia, Society of Wetland Scientists 27<sup>th</sup> Annual Meeting, Catchments to Coast, July 9-15, Cairns Convention Centre, Cairns Qld Australia.
6. Pat Dale, Mike Dale (2006) Assessing impacts of habitat modification on a subtropical saltmarsh. Society of Wetland Scientists 27<sup>th</sup> Annual Meeting, Catchments to Coast, July 9-15, Cairns Convention Centre, Cairns Qld Australia.

7. Jon M. Knight and Pat E.R. Dale (2006) Patterns of Tidal Connection into the 12 Mile Pools, Fitzroy River, South East Queensland Australia. Australian Marine Sciences Assoc 44<sup>th</sup> Annual Conference, Catchments to Coast, July 9-15, Cairns Convention Centre, Cairns Qld Australia.
8. Knight, J. Dale PER (2006) Remote Sensing Based Mapping of Mosquito Production Habitats in Mangroves of Southeast Queensland, Australia. Seminar 22 March at the 3<sup>rd</sup> Arbovirus and surveillance and mosquito control workshop, St Augustine Florida. (Extended version of the AMCA conference presentation)
9. Dale PER (2006) Runnelling for larval control - 20 years down the track Down Under. Annual Meeting American Mosquito Control Association, Detroit, February 26 – March 2.
10. Knight, J. Dale PER (2006) Remote Sensing Based Mapping of Mosquito Production Habitats in Mangroves of Southeast Queensland, Australia. Annual Meeting American Mosquito Control Association, Detroit, February 26 – March 2.
11. Neil Sipe, Ermi Ndoen, Pat Dale (2005) Understanding spatial and temporal patterns of malaria in Indonesia, using Geographic Information Systems, 1<sup>st</sup> Symposium on Health GIS, December 1 – 2, 2005, Bangkok, Thailand
12. Ansariadi, Pat Dale, Neil Sipe Joseph Affum, Peter Howard (2005) Typhoid Fever in Makassar, Indonesia: A study of selected demographic, socioeconomic and environmental factors, spatial patterns and the disease burden. World Congress Epidemiology 2005 Abstract number: 10012.
13. Dale P.E.R. and Dale, M.B. (2004) Impacts of disturbance on salt marsh processes: a multivariate approach. INTECOL7 25 -30 July Utrecht, Netherlands
14. Shilu Tong Wenbiao Hu Neville Nicholls Jonathan Patz Pat Dale John S Mackenzie, Tony McMichael (2004) Assessment of the inter-relationship between climate variability, mosquito density and the transmission of Ross River virus. Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
15. Jay Ratnayake, Peter Daniels, Pat Dale and Neil Sipe (2004) Ross River virus – a willingness-to-pay valuation of health-related aspects. Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
16. Pat Dale (2004) Long-term impacts of runnelling on an intertidal saltmarsh. Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
17. Mark Breitfuss Rod Connolly and Pat Dale (2004) Habitat modification: is there significant impact on saltmarsh fauna? Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
18. Wenbiao Hu Shilu Tong Kerrie Mengersen Brian Oldenburg Pat Dale Mike Lindsay John S Mackenzie. (2004) Spatial and temporal patterns of Ross River

- Virus in Brisbane, Australia. Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
19. Pusparini , Agung S. D. Laksana, Pat Dale, Neil Sipe, Joseph Affum<sup>4</sup>. (2004) Relationships between socio-environmental factors and the incidence of Dengue Haemorrhagic fever (DHF) in West Jakarta District, Indonesia (Poster) Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
  20. Jay Ratnayake, Peter Daniels, Pat Dale and Neil Sipe (2004) Biting Midge Menace: Social and Economic Implications for Residents and Business in Hervey Bay (Poster) Arbovirus research in Australia 9/Mosquito Control Association of Australia 6 conference, Noosa, Queensland, August 23-27 2004.
  21. Ian Fanning, Jessica Howie, Pat Dale, Darryl McGinn, Anne Neller and Michael Brown (2003) Biting midge and how it can affect public health 35<sup>th</sup> Public Health Association of Australia Annual Conference, Brisbane Convention Centre
  22. Margaret Greenway, Pat Dale and Heather Chapman (2002) Constructed wetlands for wastewater treatment – macrophytes, macroinvertebrates and mosquitoes 8<sup>th</sup> International Conference on Wetland Systems for Water Pollution Control Arusha, Tanzania, 16-19 September 2002.
  23. Knight, J.M., Dale, P.E.R. and Phinn, S.R. (2002) Airborne thermal imaging FOR MAPPING mosquito breeding habitats (water bodies) under mangrove canopies 11<sup>th</sup> Australasian Remote Sensing and Photogrammetry Conference, Brisbane, September 2-6, 2002.
  24. P.E.R.Dale, H.Chapman, M.Greenway (2002) Mosquitoes in constructed wetlands? Management for minimal nuisance. Paper presented at 2002 AMCA 68<sup>th</sup> Annual Meeting, Denver, Colorado, February 16-21,2002.
  25. P.E.R.Dale (2002) Environmental impacts of Ditching, Open Marsh Water Management and Runnelling in sub-tropical Australia. Paper presented at 2002 AMCA 68<sup>th</sup> Annual Meeting, Denver, Colorado, February 16-21,2002.
  26. Dale, P.E.R, Chapman. H. Greenway, M. and Polson, C. (2001) Constructed wetlands for wastewater treatment: does sustainable water management imply mosquito health risks? Poster presented at Society of Vector Ecology Annual Conference, Barcelona, Spain, September 15-21, 2001.
  27. Cen Li , Gautam Biswas, Mike Dale, Pat Dale (2001) Unsupervised Learning of Ecological Dynamics using Hidden Markov Models -- A Preliminary Study. IEEE IEEE Conference on Data Mining.
  28. Li, C. G. Biswas, M. B. Dale and P. E. R. Dale. 2001. Building Models of Ecological Dynamics using HMM based Temporal Data Clustering. in: *Advances in Intelligent Data Analysis, the Fourth International Conference on Intelligent Data Analysis, Lecture Notes in Computer Science, 2189*, Springer-Verlag, Berlin, pp. 53-62.
  29. Saffigna, P.G. and Dale P.E.R. (2001) Acid sulfate soils – implications with habitat modification for mosquito control in tropical. Technical Bulletin of the Florida Mosquito Control Assoc. v3 :7-8.

30. Muhar, A, Dale P.E.R, Thalib, L. and A. Erito. (2000) Wetlands and mosquito borne disease risk in subtropical Queensland, Australia. In Symposium Disease and Wetlands with P. Dale and M.Greenway. Intecol VI Wetlands Conference, Aug 6-12 2000, Quebec.
31. Dale, P.E.R. (2000) Wetlands of Conservation Significance: Mosquito Borne Disease And Its Control. In Symposium Disease and Wetlands with P. Dale and M.Greenway. Intecol VI Wetlands Conference, Aug 6-12 2000, Quebec.
32. M. Greenway, Dale, P.E.R. and Chapman H.F. (2000) Constructed Wetlands For Wastewater Treatment And Mosquito Borne Diseases In Australia. In Symposium Disease And Wetlands With P. Dale And M.Greenway. INTECOL VI Wetlands Conference, Aug 6-12 2000, Quebec.
33. Phinn, S.R. , Held, A, Lucas, R. , Knight, J. And Dale, P.E.R. (2000) Monitoring & Mapping The Composition, Structure And Dynamics Of Tropical Mangrove Environments In Australia: A Multi-Sensor Approach In Symposium Characterising Ecology And Hydrology Of Tropical Wetlands With Remotely Sensed Data with J. Melack and L. Hess. INTECOL VI Wetlands Conference, Aug 6-12 2000, Quebec.
34. Knight, J., Phinn, S.R. and Dale, P. (1999) Development of an Operational Approach for Mapping Mosquito Breeding Sites from Airborne Synthetic Aperture Radar, "NASA PACRIM Workshop, Maui High-Performance Computing Centre, Kihei, August 26-27.
35. Muhar, A., Dale, P.E.R., Thalib, L., Arito, E. (1999) Ross River virus disease, Brisbane, Australia : relationships with vegetation, risk assessment and management implications. Paper presented at 1999 AMCA Annual Meeting, St. Louis, Missouri, February 21-24, 1999.
36. Knight, J., Phinn, S.R. and Dale, P. (1998) "Identification of mosquito breeding sites under a mangrove forest canopy using quad-polarised SAR," NASA PACRIM Workshop, 9th Australasian Remote Sensing and Photogrammetry Conference, Sydney, July 26-28.
37. L.Thalib, A. Muhar, P.E.R. Dale & A.Erito (1998) Use of Principal Component Analysis in identifying the relationship between Ross River virus disease and vegetation types Proceeding of the the XIXth International Biometric Conference, IBC98, 14-18 Dec 98, Page 289.
38. P.E.R. Dale (1998) Management of intertidal wetlands for insect disease control and conservation. Paper presented at the VII International Congress of Ecology, 19-25 July 1998, Florence, Italy.
39. P.E.R. Dale, A. Muhar, L.Thalib & E.Arito (1998) The distribution of ross river virus disease in Brisbane and its relationship with wetlands and vegetation. Paper presented at the 3rd National Conference of the Mosquito Control Assoc. Of Australia, 23-25 September, Surfers Paradise, Queensland.
40. Dale P.E.R. and Morris, C.D. (1996) Aerial remote sensing methods applied to mosquito control problems. Paper presented at 62nd Annual International Meeting of the American Mosquito Control Association, Norfolk, Virginia, USA

41. Turner, P.A., Streever, W.J., Dale P.E.R. & Conroy, B.A. (1996) The relationship of *Aedes vigilax* (Diptera: Culicidae) eggshell densities to environmental factors on Kooragang Island NSW, Australia. Poster presented at the 7th Arbovirus Research in Australia/2nd Mosquito Control Association of Australia Conference, Gold Coast, November 24-29, 1996.
42. Dale, M.B. and Dale, P.E.R. (1995). Does scale matter? Assessing impacts of perturbation on the density of *Sporobolus orginicus* and *Sarcocornia quinqueflora* in a subtropical saltmarsh. 38th IAVS Symposium, Houston, Texas, 4-9 June 1995.
43. Dale, P.E.R. (1995) *Evaluating impacts of perturbation and the importance of scale: a saltmarsh example*. Paper presented at the 1995 Annual Conference of the Institute of Australian Geographers, 24-17th September 1995, Newcastle, New South Wales.
44. Dale, P.E.R. (1994). Runnelling in Australia to control *Aedes vigilax* : 8 years down the track. Ann.Meeting of American Mosq. Control Assoc., April 10-14, San Diego, Calif.
45. Dale, P.E.R. (1992). Salt Marsh Management for Vector Control in Australia. Bulletin of Florida Mosquito Control Assoc. 2, p. 15.
46. Dale, P.E.R. (1991). *Salt Marsh Mosquito vector of Ross River Virus habitat modification to effect long term cost effective control*, Inaugural Coastal Management Conference, Yamba, NSW, November 1991, NSW Public Works Dept & Local Government.
47. Dale, P.E.R. (1991). *Wetland Management in an Urban Environment*, Inaugural Coastal Management Conference, Yamba, NSW, November 1991, NSW Public Works Dept & Local Government.

#### **Edited conference publications (E4)**

1. Pat Dale (2005) Long-term impacts of runnelling on an intertidal saltmarsh. *Arbovirus Research in Australia*, 9: 80-85.
2. Mark Breidfuss Rod Connolly and Pat Dale (2005) Habitat modification: is there significant impact on saltmarsh fauna? *Arbovirus Research in Australia*, 9: 58-63.
3. J.M Knight, P.E.R. Dale and S.R. Phinn (2005) *Ochlerotatus vigilax* breeding within mangrove basin forests: information requirements for TIR remote sensing. *Arbovirus Research in Australia*, 9: 179-183.
4. Wenbiao Hu Shilu Tong Kerrie Mengersen Brian Oldenburg Pat Dale Mike Lindsay John S Mackenzie. (2005) Spatial and temporal patterns of Ross River Virus in Brisbane, Australia. *Arbovirus Research in Australia*, 9: 128-136.
5. Dale, P.E.R., Greenway, M. and Chapman, H.F. (2001) Constructed wetlands for wastewater treatment and mosquito borne diseases in Queensland, Australia. *Arbovirus Research in Australia*, 8: 109-118.
6. Dale, P.E.R. (2001) Wetlands of conservation significance: mosquito borne disease and its control, *Arbovirus Research in Australia*, 8: 102-108.

7. Dale P.E.R. (2000) Integrated water management for insect vector control. Integrated Water and Land Management, Essays on comparative approaches to the integration of land and water management, ed D.E. Fisher and N. McNamara, QUT, Publications and Printing, Brisbane, Australia, p. 437-453.
8. Saffigna, P. G., Hey, K., Holland, G. Dale, P.E.R. and Mulder, G. (1997) Impact of acid sulfate soils on habitat modification for mosquito control in coastal Australia. *Arbovirus Research in Australia*, 7: 252-257.
9. Barnes, P. Dale, P.E.R. & Muhar, A. (1997) Landscape Epidemiology, Risk And Mosquito Control, *Arbovirus Research in Australia*, 7: 8-11.
10. Dale, P.E.R., Morris, C.D., Ritchie, S.A. & Kay B.H. (1997) Remote sensing methods applied to mosquito control problems, with aerial survey examples. *Arbovirus Research in Australia*, 7: 61-65.
11. Dale, P.E.R., Hulsman, K., Easton, C. & Kay, B.H. (1989). Recent advances in environmental management for salt marsh mosquito control, Queensland and N. New South Wales. *Arbovirus Res. in Australia*, 5: 171 - 178.
12. Dale, P.E.R., Hulsman, K. & Kay, B.H. (1986). Development of salt-marsh mosquito management programmes in Queensland. *Arbovirus Research in Australia*, 4: 185-188.
13. P.E.R. Dale, K. Burmeister & G. Mulder (1998) Impacts of habitat modification on salt marshes in south east Queensland. Paper presented at the 3rd National Conference of the Mosquito Control Assoc. Of Australia, 23-25 September, Surfers Paradise, Queensland.
14. Muhar, P.E.R. Dale, L. Thalib & E. Arito (1998) Managing the environment to minimise risk of arbovirus disease. Procs of the 25th National Conference, The Australian Institute of Environmental Health, 25-30 October 1998, Surfers Paradise, Queensland, p 559-568.
15. Dale, P.E.R. (1994). Habitat modification (runnelling) to control saltmarsh mosquitoes - long term considerations. First National Conference of the Mosquito Control Assoc. Australia, Gold Coast, September 1994.
16. Dale, P.E.R., Hulsman, K. & Kay, B.H. (1990). *Habitat modification for mosquito control in subtropical salt marsh in Australia*. Ann. Meeting Florida Anti-Mosquito Assoc., April 1990.
17. Dale, P.E.R., Hulsman, K. & Kay, B.H. (1990). *Salt marsh mosquito control in subtropical Australia - environmentally benign marsh management*. Ann. Meeting Amer. Mosquito Control Assoc., Kentucky, April 1-5 1990.
18. Dale, P.E.R. (1989). Getting a feel for the flora. GTAQ 'Hands On' Conference, Brisbane, August 1989.
19. Dale, P.E.R., Hulsman, K. & Chandica, A.L. (1988). Large scale colour infra-red aerial photographs as a tool for identifying sub-tropical salt marsh types and

implications for mosquito management. Remote Sensing of the Coastal Zone, International Conference, September 1988.

20. Hulsman, K., Dale, P.E.R. & Kay, B.H. (1988). Science, Technology and Salt-marsh Management for Mosquito Control. Paper presented to the ANZAAS Centenary Congress, May 16-20th 1988, Sydney.
21. Hulsman, K., Dale, P.E.R., and Dale, P. (1986). Focused management of a pest problem. Procs. 12th National Conference Aust. Health Surveyors, Oct. 1985. Environmental Health Review: 21-37.

### **Keynote/Plenary addresses**

1. Pat Dale & Douglas Carlson (2007) 4 Degrees Of Latitude: Mosquito Control On The "Right" Coasts Of Australia And Florida. American Mosquito Control Association Annula Confernece, April 1-5, 2007 Orlando, Florida
2. Pat Dale (2004) Connectivity: Opportunity, Constraint And Impact Of Change. Invited keynote speaker at Coastal Estuaries and Change Conference Ballina 22 June 2004.
3. Pat Dale (2004) Biting midge and environment: economic, biophysical and planning considerations. Invited keynote address at the Biting Midge Conference, Hervey Bay, 30 August 2004.

### **Invited Papers**

1. Dale, P.E.R. (1995). *Responding to the challenge - biological and physical control of mosquitoes*. Mosquito Control Seminar, Sunshine Coast Mosquito Control Committee, Maroochydore, 11-12th September 1995.
2. Dale, P.E.R. (1992). *Australian salt marsh management and research for mosquito control*. II Workshop on Salt marsh management and research, Vero Beach, Florida, September, 1992.
3. Hulsman, K., Dale, P.E.R., and Dale, P. (1985). *Focused management of a pest problem*. Procs. Aust. Health Surveyors Conference, Oct. 1985.
4. Dale, P. (1983). *Environment and Perception: attitudes and actions*. Invited paper presented to the 44th Annual Conference of the Australian Institute of Health Survey, Qld. Divn., Sept.

### **Other reports**

Knight, J.M., Dale, P.E.R., Dunn, R.J.K., and Lemckert, C.J., 2006. Patterns of tidal flushing at the mangrove fringe of the lake. In: Lee, S.Y., Connolly, R.M., Dale, P.E.R., Dunn, R.J.K., Knight, J.M., Lemckert, C.J., McKinnon, S., Powell, B., Teasdale, P.R., Welsh, D.T. and Young, R., The impact of urbanisation on coastal wetlands: a case study of Coombabah Lake, southeast Queensland. Cooperative Research Centre for Coastal Zone, Estuary and Waterway Management, Indooroopilly, Australia, Technical Report 54, 129- 155. Available online, <http://www.coastal.crc.org.au/pdf/TechnicalReports/54-coombabah.pdf> (accessed 12 July 2007).

1. Pat Dale (2006) HABITAT MODIFICATION BY RUNNELLING: THE COOMERA EXPERIENCE OVER 20 YEARS. Final report to Gold Coast City Council
2. Wenbiao Hu, Shilu Tong, Kerrie Mengersen, Brian Oldenburg and Pat Dale Mosquito species and the transmission of Ross River virus in Brisbane, Australia Poster presentation at the Asia-Pacific Conference on Public Health 2004, Brisbane Australia Dec 1-3 2004 Brisbane.
3. Pat Dale (2004) Runnelling the Coomera salt marsh for mosquito control: summary of impacts REPORT to the Gold Coast City Council, November, 2004
4. Pat Dale (2004) Environmental Regulation and Health in Australia. Invited presentaion to Indonesian public health delegation from Jakarta and Jogjakarta. 3<sup>rd</sup> September 2004, Griffith University.
5. Dale, P., and J. Knight. 2003. Changes in Saltmarsh Areas. In: Coastal Indicator Knowledge and Information System I: Biophysical Indicators (Radke, L.C., Smith, C.S., Ryan D.A., Brooke, B., Heggie, D. and contributors) [Web Document]. Canberra: Geoscience Australia  
[http://www.ozestuaries.org/indicators/changes\\_saltmarsh\\_area.jsp](http://www.ozestuaries.org/indicators/changes_saltmarsh_area.jsp)
6. Jay Ratnayake Peter Daniels Pat Dale Neil Sipe Robyn Pugh(2003) Valuing health-related quality of life impacts of Ross River virus: a willingness-to-pay approach including quality-of-life measurement Annual Queensland health and Medical Scientific meeting, 25 and 26 November 2003
7. J.M. Knight S.R. Phinn and P.E.R. Dale (2003) Mapping mosquito breeding habitats in mangrove forest wetlands: Defining an appropriate spatial metric. 30<sup>th</sup> International Symposium on Remote Sensing of Environment, Hawaii, September 2003.
8. P.E.R. Dale (2001) Issues and conflicts in sustainability: managing the mosquito environment to reduce mosquito borne disease and improve community health. Queensland Environmental Law Assoc conference, Putting sustainability into practice, Kingfisher Bay, May 2001.
9. Jon Knight, Pat Dale, Stuart Phinn (2000) Integration of optical, thermal and synthetic aperture radar systems for mapping inundation in mangrove environments. Paper presented at 10<sup>th</sup> Australasian Remote Sensing and Photogrammetry Conference.
10. P. E. R. Dale, A. Muhar, L. Thalib, E. Arito (1999) Ross River Virus Distribution In Brisbane 1991 - 1996: The Effect Of Residential Location And The Natural Environment. Report to Local Authorities Research Committee, December 1999.
11. Dale P.E.R. (1997) Physical management of salt marsh mosquitoes in subtropical salt marsh systems: maximising pest control and minimising environmental impacts. PhD Submission, Griffith University. Nathan, Queensland 4111.
12. Dale P.E.R. (1996) Integrated water management for insect vector control. Paper presented at Integrated Water and Land Management, Inaugural Conference, QUT, Brisbane, Australia.

13. Dale, P.E.R. (1995). Role of remote sensing in assessing water and related environmental variables in mosquito management programmes. *Water Resources - Health, Environment and Development*, Townsville, April 26-28, 1995.
14. Dale, P.E.R. (1993). *Wetland Worth - Putting a Value on Intertidal Wetlands*. Paper presented at the "Future of Marine Science in Moreton Bay" Symposium, University of Qld, February 1993.
15. Dale, P.E.R. (1981). *Urban sub-areas - problems of definition and delimitation*, *AES Working Paper*, 2/81, Griffith University.

### **Other presentations /Reports**

#### **Consultancy Reports**

1. David Putland, Roger Kitching, Pat Dale (2008) Biodiversity monitoring programme : Northern Pipeline Interconnector Stage 2 Project for the Northern Network Alliance
2. Lara Wever, Pat Dale and Alan Chenoweth (2008 )EIANZ Professiinla development system.
3. Pat Dale (2004) Brief review of the Loganholme Marina Proposal. Report to Landmark
4. Ratnayake, J. Dale, P, Daniels,P, Sipe, N. (2003) Economic impact of biting midges in Hervey Bay. Report to Hervey Bay City Council
5. Chapman, H and Dale P (2003) Rainwater tanks: Alternate source of water or health risk? Report for Noosa Shire Council
6. Dale P.E.R.(2001) Final report: site assessment runnelling for mosquito control. Report to QAAC
7. Dale P.E.R.(2001) Final report: site assessment for Open Marsh Water Management. Report to QAAC
8. Pat Dale , Greg Mulder, Ken Burmeister (1999) *Habitat Modification Projects - Progress Report*. Report to Local Authorities Research Committee, December 1999.
9. Dale P.E.R. (1999) : Feasibility study of the value of trialling runnelling for mosquito control in the Gippsland Lakes. Report for Department of Natural Resources and East Gippsland Shire.
10. Dale P.E.R (1999) *Mosquito Environmental Management Program - Oyster Cove proposed Golf Course*
11. Dale P.E.R. (1998). *Carbrook intertidal wetlands - ditch monitoring (General Environmental Effects)*. Summary of Research 1998. Presentation to Logan City Council, November 24, 1998.
12. Dale P.E.R. (1997). *Caboolture Aedes vigilax: breeding sites Proposed runnelling to manage the salt marsh mosquito problem*. Report no 2 to Hervey Bay City Council.

13. Dale, P.E.R.(1997). *RUNNELLING PROCEDURES MANUAL* (including environmental management). Redland Shire Council.
14. Dale P.E.R. (1997). Caboolture Shire Suitability of salt marsh mosquito breeding sites for runnelling. Report to Caboolture Shire Council.
15. Dale P.E.R. (1997). Hervey Bay *Aedes vigilax* breeding sites. Proposed habitat modification to manage the salt marsh mosquito problem. Report no 2 to Hervey Bay City Council.
16. Dale P.E.R. (1996). Townsville - potential habitat modification. Report to Townsville City Council.
17. Dale P.E.R. (1996). Hervey Bay *Aedes vigilax*: Proposed habitat modification to manage the salt marsh mosquito problem. Report no 1 to Hervey Bay City Council.
18. Dale, P.E.R. (1996) Potential habitat modification for mosquito management - site identification and assessment. Report to Port Stephens Council, Raymond Terrace, NSW 2324.
19. Ritchie, S.A., Kay, B.H., Chapman, H., Dale, P.E.R. & Hughes, J.M. (1995) Integrated pest management for control of salt marsh mosquitoes in SE Queensland, Report to the Queensland Arbovirus Advisory Committee, September 1995.
20. Dale, P.E.R. (1995). Evaluation of mosquito breeding problem in the Wetland Reserve, Bli Bli, Maroochy Shire, and management options. Report to Maroochy Shire Council.
21. Dale, P.E.R. (1995). Mosquito control at Noosa Springs - general principles. Report to Pacific Resort Developments Pty Ltd.
22. Dale, P.E.R. (1995). Coolum Lakes - Mosquito breeding report. Report to Downes Survey Group.
23. Dale, P.E.R. (1995). Hervey Bay - potential habitat modification. Report to Hervey Bay City Council.
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