

# Steve Dalton

## PUBLICATIONS

### Book chapters

**Dalton, S. J.**, Harrison, M., Carroll, A. G., Smith, S. D. A., and Pereg, L. (2010). Spatial and temporal patterns of Australian subtropical white syndrome at eastern Australian reefs: host range, prevalence and progression of tissue necrosis. In *Handbook of disease outbreaks: Prevention, Detection and Control* (Ed. A. Holmgren & G. Borg) Pp. 187-210. Nova Science Publishers Inc, NY.

### Peer-reviewed journal articles

Hughes, T.P., **Dalton, S. J.**, Kerry, J.T., *et al.* (2017). Global warming and recurrent mass bleaching of corals. *Nature*, 543, 373-377.

Boulotte, N.M., **Dalton, S.J.**, Carroll, A.G., Harrison, P.L., Putnam, H.M., Peplow, L.M. *et al.* (2016). Exploring the Symbiodinium rare biosphere provides evidence for symbiont switching in reef-building corals. *The ISME journal*, 10, 2693-2701.

Purcell, S.W., Piddocke, T.P., **Dalton, S.J.** & Wang, Y-G. (2016). Movement and growth of the coral reef holothuroids *Bohadschia argus* and *Thelenota ananas*. *Mar Ecol Prog Ser*, 551, 201-214.

Scott, A., Rushworth, K., **Dalton, S.J.** & Smith, S.D. (2015). Subtropical anemonefish *Amphiprion latezonatus* recorded in two additional host sea anemone species. *Marine Biodiversity*, 46, 327-328.

Purcell, S.W., Clarke, K.R., Rushworth, K. & **Dalton, S.J.** (2014). Defining critical habitats of threatened and endemic reef fishes with a multivariate approach. *Conserv Biol*, 28, 1688-1698.

**Dalton, S.J.** & Roff, G. (2013). Spatial and temporal patterns of eastern Australia subtropical coral communities. *PLoS ONE*, 8, e75873.

Hammerton, Z., Dimmock, K., Hahn, C., **Dalton, S. J.** & Smith S. D. A. (2012). SCUBA diving, collaboration and marine conservation at two Australian subtropical destinations. *Tourism in Marine Environment*, Vol. 8 (1).

**Dalton, S.J.** & Carroll, A. G. (2011). Monitoring coral health to determine bleaching response at high latitude eastern Australian reefs: An applied model for a changing climate. *Diversity*, 4, 592-610; DOI 10.3390/d3040592

Harrison, P. L., **Dalton, S. J.** and Carroll, A. G. (2011). Extensive coral bleaching on the world's southernmost coral reef at Lord Howe Island, Australia. *Coral Reefs*, Published online. DOI 10.1007/s00338-011-0778-7

Beger M., Babcock R., Booth D. J., Bucher D., Condie S. A., Creese B., Cvitanovic, C., **Dalton S. J.**, *et al.* (2011). Research challenges to improve the management and conservation of subtropical reefs to tackle climate change threats. *Ecological Management and Restoration*, 12 (1): e7–e10. DOI: 10.1111/j.14428903.2011.00573.x.

**Dalton, S. J.**, Godwin, S., Smith, S. D. A. & Pereg, L. (2010). Australian subtropical white syndrome: a transmissible, temperature dependent coral disease. *Marine and Freshwater Research* 61:342-350.

Smith, S. D. A., Rule, M. J., Harrison, M., & **Dalton, S. J.** (2008). Monitoring the sea change: Preliminary assessment of the conservation value of nearshore reefs, and existing impacts, in a high-growth, coastal region of subtropical eastern Australia. *Marine Pollution Bulletin* 56, 525-534.

**Dalton, S.J.** & Smith, S.D.A. (2006). Coral disease dynamics at a subtropical location, Solitary Islands Marine Park, eastern Australia. *Coral Reefs* 25, 37-45.

**Dalton, S. J.** & Godwin, S. (2006). Progressive coral tissue mortality following predation by a corallivorous nudibranch (*Phestilla* sp.). *Coral Reefs* 25: 529.

### Peer-reviewed technical reports

**Dalton, S.J.**, Carroll, A.G., van Oppen, M.J.H., Boulotte, N., Peplow, L., Salih, A. *et al.* (2013). Determining the resilience capacity of Lord Howe Island hard coral community to successive coral bleaching events: Symbiont shuffling potential and recovery. Report to the Northern Rivers Catchment Management Authority. Southern Cross University, National Marine Science Centre Coffs Harbour, p. 50.

**Dalton, S. J.**, Carroll, A. C., Hammerton, Z. & Hartley, S. (2011). Implementation of best practice marine resource use-recreational diving community. Report to the Northern Rivers Catchment Management Authority. National Marine Science Centre, SCU, Coffs Harbour. Pp. 28

**Dalton, S. J.**, Carroll, A. G., Harrison, P. L., Salih, A. & Diamond-Tissue, S. (2011). Distribution of Nearshore Reef Assemblages and Resilience of Lagoon Benthic Communities on Lord Howe Island: Impact of the 2010 Coral Bleaching Event. Report to the NRCMA. National Marine Science Centre, SCU, Coffs Harbour. Pp. 34

- Smith, S.D., **Dalton, S.J.**, Edgar, R.J., Schultz, A.L. & Shaw, I.V. (2011). A long-term program to monitor the health of nearshore reefs: report cards for 2011. *Report to the Northern Rivers Catchment Management Authority June*.
- Smith, S. D. A., **Dalton, S. J.** & Purcell, S. W. (2010). Distribution of threatened and protected species in marine habitats of the northern rivers region of New South Wales. Report prepared for the NRCMA. NMSC, SCU, Coffs Harbour. Pp. 36
- Purcell, S.W., **Dalton, S.J.** & Smith, S.D.A. (2010). Critical habitats of selected threatened marine species in northern NSW. Report to the NRCMA. NMSC, SCU, Coffs Harbour. Pp. 31
- Smith, S. D. A, **Dalton, S. J.**, Harrison, M. A., Bowling, T. & Purcell, S. W. (2010) A long-term program to monitor the health of nearshore reefs. Reports cards for 2009/10. Report to the NRCMA. Pp. 27
- Dalton, S. J.** & Smith, S. D. A. (2009). A review of underwater volunteer groups in NSW. Report to the NRCMA. NMSC, SCU, Coffs Harbour. Pp. 39
- Smith, S. D. A, **Dalton, S. J.**, Harrison, M. A. & Bowling, T. (2009). Long-term program to monitor the health of nearshore reefs: regional evaluation and site selection. Report to the NRCMA and the NSW DECCW. NMSC, Coffs Harbour. Pp. 24
- Green, M., **Dalton S. J.**, Harrison, A., Scott. A. & McIlgorm, A. (2007). National Marine Science Centre school activity program: field and laboratory activity resource book. National Marine Science Centre, Pp. 134 ISBN 9781921324017
- Dalton, S. J.** & Godwin, S. (2005). Preliminary evaluation of coral stressors (disease, bleaching and predation) at Lord Howe Island Marine Park. Report prepared for the Lord Howe Island Marine Park Authority. NMSC. Pp. 34
- Smith, S. D. A., Edwards, R. A., **Dalton, S. J.** & Harrison, M. (2005). Biological assessment of fish and benthic communities at Palm Beach Bait Reef, Gold Coast, Queensland. Report prepared for The Centre for Coastal Management, Griffith University Gold Coast. Pp. 25
- Dalton, S. J.** (2004). State of knowledge of the Sapphire Coast marine environment. Report prepared on behalf of the Sapphire Coast Whale and Marine Discovery Centre, Eden. Pp. 71
- Edgar, R. J., Malcolm, H. & **Dalton, S. J.** (2003). Coral bleaching in the Solitary Islands Marine Park, NSW. Technical data report. NSW Marine Parks Authority, Coffs Harbour. Pp. 41

## Theses

- Dalton S. J.** (2009). Stressors of eastern Australian subtropical corals: Australian subtropical white syndrome and coral bleaching. PhD thesis, UNE. Accepted. Pp. 186
- Dalton, S. J.** (2003). Stressors of Scleractinian Corals: Coral Bleaching and Coral Disease within the Solitary Islands Marine Park (South West Solitary Island). B.Sc (Honours) thesis, UNE. Pp. 102

## Conference presentations

- Dalton, S.J.** & Carroll, A. G. (2012.) An applied high latitude eastern Australian coral bleaching model. *12<sup>th</sup> International Coral Reef Symposium*, Cairns, Queensland, Australia.
- Carroll, A. G., **Dalton, S.J.** & Harrison, P. L. (2012) Successive coral bleaching events on the world's southernmost coral reef. *12<sup>th</sup> International Coral Reef Symposium*, Cairns, Queensland, Australia.
- Salih, A., Geny, D., Francesco, C., Digman, M., Diamond, S., Carroll, A., **Dalton, S.**, Larkum, A., Gratton, E., Gudge, S. & Kerr, I. (2012). Corals as solar modulators in ambient sunlight and following coral bleaching. *12<sup>th</sup> International Coral Reef Symposium*, Cairns, Queensland, Australia.
- Dalton S. J.** & Carroll A. G. (2010). Patterns of coral bleaching response in subtropical eastern Australia: differential bleaching susceptibility and bleaching threshold. *85<sup>th</sup> Australian Coral Reef Society Conference*, National Marine Science Centre, Coffs Harbour, New South Wales, Australia.
- Dalton, S. J.**, Godwin, S. & Pereg, L. (2007). Characteristics of the coral disease subtropical white syndrome: mode of transmission and temperature effects. *82<sup>nd</sup> Australian Coral Reef Society Conference*, Fremantle, Western Australia.
- Dalton, S. J.** (2007). Life on subtropical reefs, it could be contagious: it's more than a social disease. *UNTAMED Conference*, University of New England, Armidale, Australia.
- Dalton, S. J.** & Smith, S. D. A. (2003). Coral disease within the Solitary Islands Marine Park (South West Solitary Island), NSW, Australia. *Australian Marine Sciences Association*, Brisbane, Queensland, Australia.