

## Associate Professor Stewart Frusher

Program Leader

Institute for Marine and Antarctic Studies  
University of Tasmania

<p><b>Education</b></p> <ul style="list-style-type: none"><li>• Doctor of Philosophy, University of Tasmania (2002)</li><li>• Master of Science, Deakin University (1996)</li><li>• Bachelor of Science, James Cook University (1977)</li></ul>	<p><b>Summary of professional achievements</b></p> <ul style="list-style-type: none"><li>-Vice Chancellors Award for Outstanding Community Engagement, 2011</li><li>-Whitely Award for Best Interactive Resource: REDMAP</li><li>-Faculty of Science and Engineering: Dean's Research Excellence Award 2002</li><li>- Convenor: 7<sup>th</sup> International Conference and Workshop on Lobster Biology and Management</li></ul> <p><b>External grants (1998–2013):</b></p> <ul style="list-style-type: none"><li>• Chief investigator \$3,257,376</li><li>• Co-investigator \$6,024,959</li></ul> <p>Journal and book publications: 72 Fishery assessments: 14 Conference presentations: 85 Industry articles: 25 Minor publications: 5 Invited chairs: 7 Invited presentations: 8 Post-graduate students: 16</p>
<p><b>Research interests</b></p> <ul style="list-style-type: none"><li>• Impacts and adaptation to climate change,</li><li>• Anthropogenic impacts on marine systems,</li><li>• Trans-disciplinary approaches to link biophysical and human systems for sustainable and optimal utilisation of marine resources and biodiversity</li></ul>	<p><b>Memberships of committees and working groups</b></p> <ul style="list-style-type: none"><li>• Quantitative Marine Science Advisory Group – University of Tasmania/Commonwealth Scientific and Industrial Research Organisation, Australia</li><li>• Marine Expert Group – University of Tasmania</li><li>• Fisheries and Marine Environment Research Advisory Groups – Tasmanian Government</li><li>• Fisheries Assessment Working Groups – Tasmanian Aquaculture and Fisheries Institute</li></ul>
<p><b>Employment history</b></p> <p>2010 – present: <b>Associate Professor and Program Leader</b> – IMAS, University of Tasmania</p> <p>2008–2010: <b>Associate Professor and Theme Leader</b> – Climate Change, TAFI, University of Tasmania</p> <p>2005–2007: <b>Associate Professor and Program Leader</b> – Sustainable Fisheries, TAFI, University of Tasmania</p> <p>2003–2005: <b>Senior Research Fellow and Program Leader</b> – Sustainable Fisheries, TAFI, University of Tasmania</p> <p>1998–2003: <b>Senior Research Fellow and Section Leader</b> – Crustacean Fisheries, TAFI, University of Tasmania</p> <p>1992–1998: <b>Program Leader</b> – Crustacean Fisheries, Department of Primary Industries, Tasmania</p> <p>1986–1991: <b>Experimental Scientist</b> – Australian Institute of Marine Science, North Queensland</p> <p>1980–1986: <b>Senior Research Scientist</b> – Department of Primary Industry, Papua New Guinea</p> <p>1978–1980: <b>Research Scientist</b> – Department of Primary Industry, Papua New Guinea</p>	

### Major publications

- Metcalf SJ, van Putten EI, **Frusher** SD, Tull M, Marshall N (accepted) Adaptation options for marine-industries and coastal communities using community structure and dynamics. *Sustainability Science*
- Van Putten IE, Metcalf S, **Frusher** SD, Marshall N, Tull M (accepted). Fishing for the impacts of climate change in the marine sector: A case study. *International Journal of Climate Change Strategies and Management*.
- **Frusher** SD, Hobday AJ, Jennings SM, Creighton C, D'Silva D, Haward M, Holbrook NJ, Nursey-Bray M, Pecl GT and van Putten IE (in press). The short history of research in a marine climate change hotspot – from anecdote to adaptation in south-east Australia. *Reviews in Fish Biology and Fisheries*
- Bird TJ, Bates AE, Lefcheck JS, Hill N, Thomson RJ, Edgar GJ, Stuart-Smith RD, Wotherspoon S, Krkosek M, Stuart-Smith JF, Pecl G, Barrett N, **Frusher** S (2013) Statistical solutions for error and bias in global citizen science datasets. *Biol. Conserv.* DOI10.1016/j.biocon.2013.07.037.
- Van Putten IE, Jennings S, **Frusher** SD, Gardner C, Haward M, Hobday AJ, Nursey-Bray M, Pecl GT, Punt A and Reville H (2013). Building blocks of economic resilience to climate change: A south east Australian fisheries example. *Regional Environmental Change*. DOI 10.1007/s10113-013-0456-0
- Marzloff MP, Johnson CR, Little LR, Soulié J-C, Ling SD and **Frusher**, SD (2013). Sensitivity analysis and pattern-oriented validation of TRITON, a model with alternative community states: Insights on temperate rocky reefs dynamics. *Ecological Modelling* 258: 16– 32.
- Caputi, N., de Lestang, S., **Frusher**, S., & Wahle, R.A. (2013). The impacts of climate change on exploited lobster stocks. In: *Lobsters: Biology, Management Aquaculture and Fisheries*, Second Edition (ed: Bruce Phillips). Wiley-Blackwell Ch4: 129-165.
- Doubleday, Z., Clarke, S., Li, X., Pecl, G., Ward, T., Battaglene, S., **Frusher**, S., Gibbs, P., Hobday, A., Hutchinson, N., Jennings, S., Spooner, D., & Stocklosa, R. (2013). Assessing the risk of climate change to aquaculture: a case study from south-eastern Australia. *Aquaculture Environment Interactions* 3: 163-175.
- Watson R, Nowara G, Tracey S, Fulton E, Bulman C, Edgar G, Barrett N, Lyle J, **Frusher** SD, Buxton, C (2013) . Ecosystem model of Tasmanian waters explores impacts of climate-change induced changes in primary productivity. *Ecological Modelling*.
- Hamon, K.G., **Frusher**, SD, Thébaud, O, Little, L.R, Punt, AE (2013). Adaptive behaviour of fishers to external perturbations: simulation of the Tasmanian rock lobster fishery *Reviews in fish biology and fisheries*. (DOI) 10.1007/s11160-013-9302-1
- Nursey-Bray M, Pecl G, **Frusher** SD, Gardner C, Haward M, Hobday AJ, Jennings S, Punt A, Reville H, van Putten, I (2012) Communicating climate change: climate change risk perceptions and rock lobster fishers, Tasmania. *Marine Policy*, 36: 753-759.
- Awruch C A, **Frusher** SD, Stevens JD, Barnett A. (2012). Movement patterns of the draughtboard shark, *Cephaloscyllium laticeps* (Scyliorhinidae), determined by passive tracking and conventional tagging. *Journal of Fish Biology*, 80: 1417-1435.
- Godwin RM, Brown I, Montgomery S, **Frusher** SD, Green T, Ovenden J, PhD (2012) Telomere dynamics in the Sydney rock oyster (*Saccostrea glomerata*): an investigation of the effects of age, tissue type, location and time of sampling. *Marine Biology*, 159: 77-86.
- Godwin RM, **Frusher** SD, Montgomery S, Ovenden J (2011). Telomere length analysis in crustacean species: *Metapenaeus macleayi*, *Sagmariasus verreauxi* and *Jasus edwardsii*. *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsr144.
- Linnane A, Hobday D, **Frusher** S, Gardner C (2011). Growth rates of juvenile southern rock lobster (*Jasus edwardsii*) estimated through a diver-based tag-recapture program. *Marine and Freshwater Research*, <http://dx.doi.org/10.1071/MF11121>
- Marzloff MP, Dambacher JM, Johnson CR, Little LR, **Frusher** SD (2011). Exploring alternative states in ecological systems with a qualitative analysis of community feedback. *Ecological Modelling*, 222: 2651-2662
- Johnson CR, Banks SC, Barrett NS, Cazassus F, Dunstan PK, Edgar GJ, **Frusher** SD, Gardner C, Haddon M, Helidoniotis F, Hill KL, Holbrook NJ, Hosie GW, Last PR, Ling SD, Melbourne-Thomas J, Miller K, Pecl GT, Richardson AJ, Ridgway KR, Rintoul SR, Ritzi DA, Ross DJ, Sanderson JC, Shepherd SA, Slotwinski A, Swadling KM, Taw N (2011). Climate change cascades: Shifts in oceanography, species' ranges and subtidal marine community dynamics in eastern Tasmania. *J. Exp. Mar. Biol. Ecol.* 400: 17-32.

- Barnett A, Abrantes K, Stevens JD, Yick JL, **Frusher SD**, Semmens JM (2010) Inferring predator-prey relationships and foraging ecology of a marine apex predator with a wide temperate distribution. *Marine Ecology Progress Series* 416: 189-200.
- Barnett A, Stevens JD, **Frusher SD**, Semmens JM (2010) Seasonal occurrence and population structure of the broadnose sevengill shark *Notorynchus cepedianus*. *Journal of Fish Biology* 77: 1688–1701.
- Barnett A, Redd KS, **Frusher SD**, Stevens JD, Semmens JM (2010) Non-lethal method to obtain stomach samples from a large marine predator and the use of DNA analysis to improve dietary information. *Journal of Experimental Marine Biology and Ecology* 393: 188-192.
- Valentine J, Mundy C, Tarbath D, **Frusher SD**, Buxton C (2010) Limited evidence for ecosystem level change on reefs exposed to *Haliotis rubra* ('blacklip abalone') exploitation. *Austral Ecology* 35: 806-817.
- Guest MA, Hirst AJ, Nichols PD, **Frusher SD** (2010) Multi-scale spatial variation of stable isotope and fatty acid profiles amongst temperate reef species: implications for design and interpretation of trophic studies. *Marine Ecology Progress Series* 410: 25 – 41.
- Ling SD, Johnson CR, **Frusher S**, Ridgway K (2009) Overfishing reduces resilience of kelp beds to climate-driven catastrophic phase shift *Proceedings of the National Academy of Sciences*. DOI\_10.1073\_pnas.0907529106
- Awruch CA, Pankhurst NW, **Frusher SD** & Stevens JD (2009). Reproductive seasonality in the draughtboard shark *Cephaloscyllium laticeps*. *Marine and Freshwater Research* 60:1265-1272.
- Hamon, K.G., Thébaud, O., **Frusher, S.** and Little, L.R.( 2009). A retrospective analysis of the effects of adopting individual transferable quotas in the Tasmanian red rock lobster, *Jasus edwardsii*, fishery. *Aquatic Living Resource* 22: DOI: 10.1051/alr/2009039
- Guest MA, **Frusher SD**, Nichols PA, Johnson CR & Wheatley KE (2009). The trophic effects of fishing southern rock lobster (*Jasus edwardsii*): what can combined fatty acid and stable isotope analyses tell us? *Marine Ecology Progress Series* 388:169–184.
- **Frusher SD**, Hall D, Burch P & Gardner C (2009). Combining passive integrated transponder tags with conventional T-bar tags to improve tag reporting rate independent of fishers. *New Zealand Journal of Marine and Freshwater Research*. 43: 347-353.
- Burch P, **Frusher SD** & Wotherspoon S (2009). A modeled cost-benefit analysis of hybrid PIT and conventional tagging scenarios. *New Zealand Journal of Marine and Freshwater Research*. 43: 339-346.
- Pederson HG, Barrett N, **Frusher SD** & Buxton C (2008). The effect of predator-prey and competitive interactions on size at emergence in black-lip abalone (*Haliotis rubra*) in a Tasmanian MPA. *Marine Ecology Progress Series*.
- Redd K, Jarman S, **Frusher S** & Johnson C (2008). A molecular approach to identify prey of the southern rock lobster. *Bulletin of Entomological Research*.
- Awruch CA, Pankhurst NW, **Frusher SD** & Stevens JD (2008). Endocrine and morphological correlates of reproduction in the draughtboard shark *Cephaloscyllium laticeps* (Elasmobranchii: Scyliorhinidae). *Journal of Experimental Zoology*. 309A: 184–197.
- Ling SD, Johnson CR, **Frusher SD** & King CK (2008). Reproductive potential of a marine ecosystem engineer at the edge of a newly expanded range. *Global Change Biology*. 14: 1–9.
- Ihde TF, Hoenig JM & **Frusher SD** (2008). An index-removal abundance estimator that allows for seasonal change in catchability, with application to rock lobster. *Transactions of the American Fisheries Society* 137(3): 720–735.
- Guest MA, Nichols PA, **Frusher SD** & Hirst AJ (2008). Evidence of abalone (*Haliotis rubra*) diet from combined fatty acid and stable isotope analysis. *Marine Ecology*. 153: 579–588.
- Awruch CA, **Frusher SD**, Pankhurst NW & Stevens JD (2008). Non-lethal assessment of reproductive parameters for the management and conservation of sharks. *Marine Ecology Progress Series*. 355: 277–285.
- Stuart-Smith RD, Barrett NS, Crawford CM, **Frusher SD**, Stevenson DG & Edgar GJ (2008). Spatial patterns in impacts of fishing on temperate rocky reefs: are fish abundance and mean size related to proximity to fisher access points? *Journal of Experimental Marine Biology and Ecology*. 365: 116–125.
- Ihde TF, Hoenig JM & **Frusher SD** (2008). Evaluation of a multi-year index-removal abundance estimator, with application to a Tasmanian rock lobster fishery. *Fisheries Research*. 89: 26–36.
- **Frusher SD**, Hoenig JM & Ihde TF (2007) Evaluating catchability assumptions for change-in-ratio and index-removal estimators, with

- application to southern rock lobster. *Fisheries Research*. 84: 254–262.
- Aquarone MC, Adams S, Frusher S, Suthers IM (2007). IX-21 Southeast Australian Shelf: LME# 42. In The UNEP Large Marine Ecosystem Report. A perspective on changing conditions in LMEs of the world's regional seas. UNEP regional seas and report No. 182. <http://www.lme.noaa.gov/>; [http://www.lme.noaa.gov/LMEWeb/LME\\_Report/lme\\_42.pdf](http://www.lme.noaa.gov/LMEWeb/LME_Report/lme_42.pdf)
  - Ihde TF, Frusher SD, & Hoenig JM (2006). Do large rock lobsters inhibit smaller ones from entering traps? A field experiment. *Marine and Freshwater Research*. 57: 665–674.
  - Gardner C, Frusher SD, Barrett N, Haddon M & Buxton C (2006). Spatial variation in size at onset of maturity of female southern rock lobster (*Jasus edwardsii*) around Tasmania, Australia. *Scientia Marina*. 70: 423–430.
  - Harrington JJ, Semmens JM, Gardner C & Frusher SD (2006). Predation of trap caught southern rock lobsters (*Jasus edwardsii*) in Tasmanian waters by the maori octopus (*Octopus maorum*): spatial and temporal trends. *Fisheries Research*. 77: 10–16.
  - Gardner C, Frusher S, Mills D & Oliver M (2006). Simultaneous enhancement of rock lobster fisheries and provision of puerulus for aquaculture. *Fisheries Research*. 80: 122–128.
  - Mills DJ, Verdouw G & Frusher SD (2005). A remote multi-camera system for in situ observations of behaviour and predator/prey interactions of marine benthic macrofauna. *New Zealand Journal of Marine and Freshwater Research*. 39: 347–352.
  - Gardner C, Mills D & Frusher SD (2005). Does pleopod setation provide a measure of maturity in female southern rock lobsters *Jasus edwardsii*? *Scientia Marina*. 69: 123–131.
  - Ziegler PE, Haddon M, Frusher SD & Johnson CR (2004). Modelling seasonal catchability of the southern rock lobster *Jasus edwardsii* by water temperature, moulting, and mating. *Marine Biology*. 145: 179–190.
  - Gardner C, Frusher S, Haddon M & Buxton C (2003). Movements of the southern rock lobster *Jasus edwardsii* in Tasmania, Australia. *Bulletin of Marine Science*. 73: 653–671.
  - Frusher SD & Hoenig JM (2003). Recent developments in estimating fishing and natural mortality and tag reporting rate of lobsters using multi-year tagging models. *Fisheries Research*, 65: 379–390.
  - Frusher SD, Hoenig JM & Gardner C (2003). Have inappropriate selectivity curves masked recruitment declines in a lobster fishery in Tasmania. *Fisheries Research*. 65: 467–474.
  - Latour RJ, Hoenig JM, Hepworth DA & Frusher SD (2003). A novel tag-recovery model with two size classes for estimating fishing and natural mortality, with implications for the southern rock lobster (*Jasus edwardsii*) in Tasmania, Australia. *ICES Journal of Marine Science*. 60: 1075–1085.
  - Zielger PE, Frusher SD & Johnson CR (2003). Space-time variation in catchability of southern rock lobster *Jasus edwardsii* in Tasmania explained by environmental, physiological and density-dependent processes. *Fisheries Research*. 61: 107–123.
  - Zielger PE, Frusher SD, Johnson CR & Gardner C (2002). Catchability of the southern rock lobster *Jasus edwardsii*. I. Effects of sex, season and catch history. *Marine and Freshwater Research*. 53: 1143–1148.
  - Zielger PE, Johnson CR & Frusher SD (2002). Catchability of the southern rock lobster *Jasus edwardsii*. II. Effects of size. *Marine and Freshwater Research*. 53: 1149–1159.
  - Frusher SD & Hoenig JM (2001). Estimating natural and fishing mortality and tag reporting rate from up to three tagging events within a year in a multi-year tagging model. *Canadian Journal of Fisheries and Aquatic Sciences*. 58: 2490–2501.
  - Frusher SD & Hoenig JM (2001). Impact of size related dominance hierarchies on selectivity of traps for southern rock lobster (*Jasus edwardsii*). *Canadian Journal of Fisheries and Aquatic Sciences*. 58: 2482–2489.
  - Frusher SD & Hoenig JM (2001). Strategies for improving the precision of fishing and natural mortality estimates from multi-year tagging models: a case study. *Marine and Freshwater Research*. 52:1649–1655.
  - Gardner C, Frusher SD, Kennedy RB & Cawthorn A (2001). Relationship between settlement of southern rock lobster puerulus *Jasus edwardsii* and recruitment to the fishery in Tasmania, Australia. *Marine and Freshwater Research*. 52: 1271–1275.
  - Ibbott S, Gardner C & Frusher SD (2001). The effect of cooking on carapace length of Southern Rock Lobster, *Jasus edwardsii* (Hutton), 1875 (Decapoda, Palinuridae). *Crustaceana*. 74: 221–224.
  - Frusher SD, Prescott J & Edmunds M (1999). Southern rock lobsters. In: *Under southern seas – The ecology of Australia's rock reefs* (Ed. N

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- **Frusher SD, Kennedy RB & Gibson ID (1998).** Preliminary estimates of exploitation rates in the Tasmanian rock lobster (*Jasus edwardsii*) fishery using the change-in-ratio and index-removal techniques with tag-recapture data. In: *Proceedings of the North Pacific Symposium on Invertebrate Stock Assessment and Management* (Ed. GS Jamieson & A Campbell). *Canadian Special Publication of Fisheries and Aquatic Sciences*. 125: 63–71.
  - **Frusher SD, Kennedy RB & Gibson ID (1997).** Precision of exploitation rate estimates in the Tasmanian rock lobster fishery using change-in-ratio techniques. *Marine and Freshwater Research*. 48: 1069–1074.
  - **Punt AE, Kennedy RB & Frusher SD (1997).** Estimating the size transition matrix for Tasmanian rock lobster. *Marine and Freshwater Research*. 48: 981–992.
  - **Macmillan DL, Sandow SL, Wikeley DM & Frusher S (1997).** Feeding activity and morphology of the digestive tract in stage 1 phyllosoma larvae of the rock lobster *Jasus edwardsii*. *Marine and Freshwater Research*. 48: 19–26.
  - **Benzie JAH, Frusher SD, Kenway M & Trott L (1995).** Utility of streamer tags to assess survival and growth of juvenile tiger prawns (*Penaeus monodon*) in aquaculture environments. *Aquaculture*. 136: 57–69.
  - **Benzie JAH, Kenway M, Ballment E, Frusher SD & Trott L (1995).** Interspecific hybridization of the tiger prawns *Penaeus monodon* and *Penaeus esculentus*. *Aquaculture*. 133: 103–111.
  - **Frusher SD, Giddins RL & Smith TJ III (1994).** Distribution and abundance of Grapsid crabs (GRAPSIDAE) in a mangrove estuary: effects of sediment characteristics, salinity tolerances and osmoregulatory ability. *Estuaries*. 17(3): 647–654.
  - **Benzie JAH, Ballment E & Frusher SD (1993).** Genetic structure of *Penaeus monodon* populations in Australia: concordant results from mtDNA and allozymes. *Aquaculture*. 111: 89–93.
  - **Benzie JAH, Frusher SD & Ballment E (1992).** Geographical variation in allozyme frequencies of *Penaeus monodon* (Crustacea: Decapoda) populations in Australia. *Australian Journal of Marine and Freshwater Research*. 43: 715–725.
  - **Frusher SD, Giddins RL & Smith TJ III (1991).** Distribution of mangrove sesamid crabs (Crustacea: Brachyura) in north-eastern Australia. *Memoirs of the Queensland Museum*. 31: 93.
  - **Smith TJ III, Boto KG, Frusher SD & Giddins RL (1991).** Keystone species and mangrove forest dynamics: the influence of burrowing by crabs on soil nutrient status and forest productivity. *Estuarine, Coastal and Shelf Science*. 33: 419–432.
  - **Frusher SD (1986).** Utilisation of small scale fish aggregation devices by Papua New Guinea's artisanal fishermen. In: *The First Asian Fisheries Forum* (Ed. JL Maclean LB Dizone & LV Hosillos). Asian Fisheries Society, Manila, Philippines: 371–374.
  - **Frusher SD, Gwyther D & Lindholm RY (1985).** Growth of the banana prawn *Penaeus merguensis*, De Man, as estimated from tagging studies in the Gulf of Papua. *Australian Journal of Marine and Freshwater Research*. 36(6): 793–796.
  - **Frusher SD (1984).** Tagging of *Penaeus merguensis* (De Man) in the Gulf of Papua, Papua New Guinea. In: *Second Australian National Prawn Seminar* (Ed. PC Rothlisberg, BJ Hill & DJ Staples), NPS2, Cleveland, Australia: 65–70.
  - **Frusher SD (1983).** The ecology of juvenile penaeid prawns, mangrove crab (*Scylla serrata*) and the giant freshwater prawn (*Macrobrachium rosenbergii*) in the Purari Delta. In: *The Purari-tropical environment of a high rainfall river basin* (Ed. T Petr). *Monographica biologicae*. 51: 341–354.

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#### **Organisation: Conference and workshops**

- Co-convenor: International symposium: Climate variability and change on marine resources and fisheries in the South Pacific. Concepcion, Chile 2013.
- Co-convenor: International Workshop: Towards a South Pacific integrated ecosystems studies program (SPICES). Concepcion, Chile 2013.
- Co-convenor: Workshop 6: Climate change and range shifts in the ocean: detection, prediction and adaptation. Effects of the Climate Change on the World's Oceans. Yeosu, Korea 2012

- Co-convenor: *Global Marine Hotspots*. World Fisheries Congress. Edinburgh, Scotland 2012
- Convenor: Workshops: Preparing for climate change on marine systems in Australia and India. Hobart, Australia and Cochin, India. 2012
- Co-Convenor: Workshop 5: Networking across global marine 'hotspots'. Climate Change Effects on Fish and Fisheries: Forecasting Impacts, Assessing Ecosystem Responses, and Evaluating Management Strategies: Sendai, Japan 2010.
- Co-convenor: Workshops: Integrated simulation tools for the bio-economic assessment of renewable resource systems. Hobart, Australia 2008 and Brest, France 2009.
- Convenor: 6th International Conference and Workshop on Lobster Biology and Management, 2004, Hobart, Australia

### *Chairs, presentations and reviews*

#### *Invited chairs*

- Assessment of the local population. Life Histories, assessment and management of crustacean fisheries. A Coruna, Galicia, Spain. 8–12 October 2001.
- Environment and ecosystem interactions. 7<sup>th</sup> International Conference and Workshop on Lobster Biology and Management. Hobart, Tasmania, Australia. 8–13 February 2004.
- Primary Production. Indian Ocean Marine Environmental Conference: linking science, engineering and management. Perth, Western Australia, Australia. 14–18 February 2005.
- Fisheries and by-catch. Australian Society for Fish Biology Conference. Hobart, Tasmania, Australia. 28 August – 1 September 2006.
- Climate change. 8<sup>th</sup> International Conference and Workshop on Lobster Biology and Management. Charlottetown, Prince Edward Island, Canada. 23–28 September 2007.
- Climate change. Seafood Directions 2007. Hobart, Tasmania. 31 October – 2 November 2007.

#### *Invited presentations*

- Marine Climate Change Research in Australia and the SPICES Initiative. XXXIII Congress of Marine Science Antofagasta, Chile, 27<sup>th</sup> – 30<sup>th</sup> May, 2013
- From physics to folk via fish – connecting the socio-ecological system to understand the ramifications of climate change on coastal rural communities. International symposium on Climate Variability and Change on Marine

Resources and Fisheries in the South Pacific. Concepcion, Chile, 2013

- Networking across global marine hotspots. Coastal Zone Asia-Pacific Conference and World Small-Scale Fisheries Congress, Bangkok, 2010
- REDMAP – 5 minute speed play. ANZ Southern Exposure Conference, Hobart, 2010
- Marine information and communication technologies. Pathways to Engagement Forum. School of Computing and Information Systems. 10 December 2007.
- Tagging and tracking: Conventional tags – New tricks with 'old' technology. Australian Society for Fish Biology 2006 Workshop 'Cutting edge technologies in fish and fisheries science'. Hobart, Tasmania, Australia. 28 August – 1 September 2006.
- Roles of fisheries species in structuring benthic ecosystems: Drivers for ecosystem based fisheries management in Australia. National Symposium on Ecosystem Research and Management of Fisheries. Adelaide, South Australia, Australia. 19–20 September 2004.
- Roles of fisheries species in structuring benthic ecosystems: Multi-layered approaches to evaluating impacts of lobster fishing. National Symposium on Ecosystem Research and Management of Fisheries. Adelaide, South Australia, Australia. September 19-20th, 2004.
- Roles of fisheries species in structuring benthic ecosystems: Focused case study-abalone and rock lobster on temperate reefs. The Tasmanian southern rock lobster fishery-ecosystem implications. National Symposium on Ecosystem Research and Management of Fisheries. Adelaide, South Australia, Australia. 19-20th September 2004.
- A scientific perspective: Ecosystem based fisheries management. Fisheries Co-Management Council- Victoria's Fisheries and Aquaculture Research and Development Strategy. Melbourne, Victoria, Australia. 19 April 2005.
- University of Concepcion, Chile – presented a postgraduate summer school session on tagging methodologies in fisheries science.

#### *Invited reviews*

- Review of Seikai National Fisheries Laboratory's lobster programme. Nagasaki, Japan. 1997.
- Review of Sultanate of Oman's lobster research programme. Muscat, Oman. 2003 and 2004.
- Review of Northern Territory mudcrab fishery assessment. Darwin, Australia. 2004.
- Review of Gulf of Mexico red grouper Assessment. Atlanta, USA. 2007.

- Review of WA Puerulus settlement project, 2010 & 2011
- Review of New England lobster fishery assessment, 2010
- Marine Stewardship Assessment for Western Australia Rock Lobster Fishery, 2010
- State of the Environment: Coasts, 2011

*Journal reviewer*

- Canadian Journal of Fisheries and Aquatic Sciences
- Fisheries Bulletin
- Fisheries Research
- Marine Biology
- Marine Ecology Progress Series

- Aquaculture
- Marine and Freshwater Research
- Continental Shelf Research
- ICES Journal of Marine Science
- New Zealand Journal of Marine and Freshwater Research.

*Grants reviewer*

- American Sea Grant Foundation, USA.
- Fisheries Research and Development Corporation, Australia.