

Current position

Senior Curator - Corals Queensland Museum Network, Townsville, May 2016 - present

Previous positions

Postdoctoral Research Fellow ARC Centre of Excellence for Coral Reef Studies, James Cook University and Australian Institute of Marine Science
June 2013 – May 2016

Postdoctoral Research Fellow ARC Centre of Excellence for Coral Reef Studies, James Cook University
January 2012 – June 2013

Education

Ph.D (2012) *Thesis: Habitats and Sessile Benthic Megafaunal Communities in the Mesophotic Zone of the Great Barrier Reef World Heritage Area, Australia.*
James Cook University, Townsville, Australia

BSc Marine Science (Hons) (2004) *Thesis: Recruitment and Distribution of juvenile black marlin off eastern Australia.* University of Sydney, Sydney, Australia

Publications in refereed journals

*I have published **34 peer-reviewed articles**, 2 conference papers, 4 book chapters and 1 commissioned scientific report. My publications have received **635 citations** (4/4/2017), my **h-index is 13** and my **i10-index is 19** (Google Scholar). My research has been published with **164 different co-authors from 62 institutions across 14 countries**. I have a **Field-weighted Citation Impact of 2.35** (SciVal), indicating that my research impact is 135% above the world average. **44% of my publications are in the top 10% most cited worldwide, 80% of my publications are in the top 10% journals**, and 40% of my publications include international co-authors. Impact Factors are given for all journals with 2015 ISI IF's > 3.0. Underlined author names are postgraduate students that I supervise.*

Hughes T, Kerry J, Alvarez-Noriega M, Alvarez-Romero J, Anderson K, Baird A, Babcock R, Beger M, Bellwood D, Berkelmans R, **Bridge T et al.** (2017) Global warming and recurrent mass bleaching of corals. *Nature* 543: 373–377. **IF = 38.14, 2 citations.**

Nature is the top-ranked journal globally in multidisciplinary sciences. This paper reports on the results of an international research effort to quantify the effects of bleaching on coral reefs. The paper has received exception media interest: the Altmetric score of 2461 five days after publication places this paper 7th out of 105,878 articles of similar age in all journals.

Bongiorno D, Bryson M, **Bridge T**, Dansereau D, Williams S (2017) Co-registered hyperspectral and stereo imagine seafloor mapping from an autonomous underwater vehicle. *Journal of Field Robotics*. doi: 10.1002/rob.21713. **IF = 2.06**

Scheffers B, De Meester L, **Bridge T**, Hoffman A, Pandolfi J et al. (2016) The broad footprint of climate change from genes to biomes to people. *Science*. 354(6313): aaf7671. **IF = 34.66**, 6 citations.

Science is ranked second in multidisciplinary sciences. This paper demonstrates that the effects of climate change are already evident across all biomes on earth and all scales of biological organisation. The paper received considerable media interest, is ranked in the top 5% of all research publications scored by Altmetric, and was ranked 8th most featured climate change paper in the media in 2016.

Smallhorn-West P, **Bridge T**, Munday P, Jones G (2016) Depth distributions and abundance of a coral-associated reef fish: roles of recruitment and post-recruitment processes. *Coral Reefs*. doi: 10.1007/s00338-016-1509-x **IF = 3.0**

Macdonald C, **Bridge T**, Jones G (2016) Depth, bay position and habitat structure as determinants of coral reef fish distributions: are deep reefs a potential refuge? *Marine Ecology Progress Series*. 561: 217-231.

- Bridge T**, Luiz O, Coleman R, Kane C, Kosaki R (2016) Ecological and morphological traits predict depth-generalist fishes on coral reefs. *Proceedings of the Royal Society B: Biological Sciences*. 283: 20152332. **IF = 5.85**, 6 citations
- Laverick J, Andradi-Brown D, Exton D, Bongaerts P, **Bridge T**, Lesser M, Pyle R, Slattery M, Wagner D, Rogers A (2016) To what extent do mesophotic coral ecosystems and shallow reefs share species of conservation interest? *Environmental Evidence*. 5: 1-16. 1 citation
- Roberts T, **Bridge T**, Caley MJ, Baird A (2016) The point count transect method for estimates of biodiversity on coral reefs: improving the sampling of rare species. *PLoS One*. 11(3): e0152335. **IF = 3.06**, 1 citation
- Madin J, Anderson K, Andreasen M, **Bridge T et al.** (2016) The Coral Trait Database, a curated database of trait information for coral species from the global oceans. *Nature Scientific Data*. doi:10.1038/sdata.2016.17, 11 citations
- Bridge T**, Grech A, Pressey R (2016) Factors influencing incidental representation of previously unknown features in Marine Protected Areas. *Conservation Biology*. 30 (1), 154-165. **IF = 4.27**, 7 citations
- Beaman R, **Bridge T**, Lüter C, Reitner R, Wörheide G (2016) Spatial patterns in the distribution of benthic assemblages across a large depth gradient in the Coral Sea, Australia. *Marine Biodiversity*. 46(4): 795-808
- Ferrari R, Bryson M, **Bridge T**, Hustache J, Williams SB, Byrne M, Figueira W (2015) Quantifying the response of structural complexity and community composition to environmental change in marine communities. *Global Change Biology*. 22: 1965-1975. **IF = 8.44**, 4 citations
- Przeslawski R, Alvarez B, Kool J, **Bridge T**, Caley MJ, Nichol S (2015) Implications of sponge biodiversity patterns for the management of a marine reserve in northern Australia. *PLoS One*. 10(11): e0141813. **IF = 3.06**, 4 citations
- Hill N, Tobin A, Reside A, Pepperell J, **Bridge T** (2015) Dynamic habitat suitability modelling reveals rapid poleward distribution shift in a mobile apex predator. *Global Change Biology*. 22(3): 1365-2486. **IF = 8.44**, 5 citations
- Thomas C*, **Bridge T***, Figueiredo J, Deleersnijder E, Hanert E (*co-lead authors) (2015) Connectivity between submerged and near-sea surface coral reefs: can submerged reef populations act as refuges? *Diversity and Distributions*. 21: 1254-1266. **IF = 4.57**, 11 citations
- Ainsworth T, Krause L, **Bridge T**, Torda G, Raina J-B, Gates R, et al. (2015) The coral core microbiome identifies rare bacterial taxa as ubiquitous endosymbionts. *ISME Journal*. 9: 2261-2274. **IF = 9.3**, 61 citations.
ISME is ranked 4/150 in Ecology and 8/123 in Microbiology. This paper was the first to characterize the rare bacterial taxa in corals at various spatial levels. ISI has identified this as a highly cited paper in the top 1% of microbiology papers.
- Muir P, Wallace C, **Bridge T**, Bongaerts P (2015) Diverse staghorn coral fauna on the mesophotic reefs of north-east Australia. *PLoS One* 10(2): e0117933. **IF = 3.06**, 12 citations
- Roberts T, Moloney J, Sweatman H, **Bridge T** (2015) Benthic community composition on submerged reefs in the central Great Barrier Reef. *Coral Reefs*. 34: 569-580. **IF = 3.0**, 12 citations
- Bridge T**, Ferrari R, Bryson M, Hovey R, Figueira W, Williams S, Pizarro O, Harborne A, Byrne M (2014) Variable response of benthic communities to anomalously warm sea temperatures on a high-latitude coral reef. *PLoS One*. 9(11): e113079. **IF = 3.06**, 10 citations
- Bridge T**, Hoey A, Campbell S, Muttaqin E, Rudi E, Fadli N, Baird A (2014) Depth-dependent mortality of reef corals following a severe bleaching event: implications for thermal refuges and population recovery. *F1000Research*. 2:187 doi: 10.12688/f1000research.2-187.v3. 11 citations
- Pontasch S, Scott A, Hill R, **Bridge T**, Fisher P, Davy S (2014). Symbiodinium diversity in the sea anemone *Entacmaea quadricolor* on the east Australian coast. *Coral Reefs*. 33: 537-542. **IF = 3.0**, 4 citations

Bridge T, Hughes T, Guinotte J, Bongaerts P (2013) Call to protect all coral reefs. *Nature Climate Change*. 3: 527-530. **IF = 17.18**, 58 citations

Bongaerts P, Muir P, Englebert N, **Bridge T**, Hoegh-Guldberg O (2013) Cyclone damage at mesophotic depths on Myrmidon Reef. *Coral Reefs*. 32: 935-935. **IF = 3.0**, 10 citations

Harris P, **Bridge T**, Beaman R, Webster J, Nichol S, Brooke B (2013) Submerged banks in the Great Barrier Reef, Australia, greatly increase available coral reef habitat. *ICES Journal of Marine Science*. 70: 284-293. 38 citations

Bridge T, Beaman R, Done T, Webster J (2012) Predicting the location and spatial extent of submerged coral reef habitat in the Great Barrier Reef World Heritage Area, Australia. *PLoS One*. 7(10): e48203. **IF = 3.06**, 23 citations

Bridge T, Scott A, Steinberg D (2012) Abundance and diversity of anemonefishes and their host sea anemones at two mesophotic sites on the Great Barrier Reef, Australia. *Coral Reefs*. 31: 1057-1062. **IF = 3.0**, 14 citations

Bridge T, Fabricius K, Bongaerts P, Wallace C, Muir P, Done T, Webster J (2012). Diversity of Scleractinia and Octocorallia in the mesophotic zone of the Great Barrier Reef, Australia. *Coral Reefs*. 31: 179-189. **IF = 3.0**, 49 citations

Foster R, **Bridge T**, Bongaerts P (2012) The first record of *Hippocampus denise* (Syngnathidae) from Australia. *Aqua: International Journal of Ichthyology*. 18: 55-57. 3 citations

Bridge T, Done T, Friedman A, Beaman R, Williams S, Pizarro O, Webster J (2011) Variability in mesophotic coral reef communities along the Great Barrier Reef, Australia. *Marine Ecology Progress Series*. 428: 63-75. 39 citations

Bridge T, Done T, Beaman R, Friedman A, Williams S, Pizarro O, Webster J (2011) Topography, substratum and benthic macrofaunal relationships on a tropical mesophotic shelf margin, central Great Barrier Reef. *Coral Reefs*. 30: 143-153. **IF = 3.0**, 56 citations

Bongaerts P*, **Bridge T***, Kline D, Muir P, Wallace C, Beaman R, Hoegh-Guldberg O (* co-lead authors) (2011) Mesophotic coral ecosystems on the walls of Coral Sea atolls. *Coral Reefs*. 30: 335-335. **IF = 3.0**, 26 citations.

Bongaerts P, Sampayo E, **Bridge T**, Ridgway T, Vermeulen F, Englebert N, Webster J, and Hoegh-Guldberg O (2011) Symbiodinium diversity of mesophotic coral communities on the Great Barrier Reef: a first assessment. *Marine Ecology Progress Series*. 439: 117-126. 25 citations

Williams S, Pizarro, O, Webster J, Beaman R, Mahon I, Johnson-Roberson, M, **Bridge T** (2010) Autonomous Underwater Vehicle-assisted surveying of drowned reefs on the shelf-edge of the Great Barrier Reef, Australia. *Journal of Field Robotics*. 27: 675-697. 50 citations.

Scientific Reports

Bridge T, Guinotte J (2012) Mesophotic coral reef ecosystems in the Great Barrier Reef World Heritage Area: Their distribution and possible role as refugia from disturbance. Great Barrier Reef Marine Park Authority, Townsville 57 pp.

Research Grants >\$20,000

I have been awarded competitive research funding totalling \$1,069,500

Great Barrier Reef Foundation Quantification of coral reef habitat structural complexity and community composition in a changing ocean using 3D models
\$450,000 (2013-2015) (Partner Investigator)

Schmidt Ocean Institute Autonomous survey technologies for large scale ocean observing \$500 000 (2012)
(Partner Investigator)

Ian Potter Foundation Life in the Twilight Zone: Biodiversity of mesophotic coral reef ecosystems on the Great Barrier Reef \$20 000 (2012) (Chief Investigator)

Research Impact

As an early career researcher I have published research in top international journals *Science* and *Nature*, and have published as lead author in the leading journals in my field, such as *Nature Climate Change*, *Proceedings of the Royal Society B* and *Conservation Biology*.

My standing in my field is demonstrated by my invitations to participate in expert panels, steering committees and as a journal reviewer. I am an invited member of the **Federal Government's Integrated Marine Observing System (IMOS) National Benthic Monitoring Program Steering Committee** and the **Reef 2050 Integrated Monitoring and Reporting Program (RIMREP) Coral Expert Group**.

My expertise is often requested to review articles for prestigious journals, including *Nature Climate Change*, *Global Change Biology* and *Proceedings of the Royal Society B*.

Public Outreach

I am passionate about and strongly committed to public outreach and the dissemination of scientific outputs to the general public, and use numerous platforms for public communication of science.

Social Media: I actively promote my research and other scientific subjects on Twitter, where I have >850 followers. I also communicate issues of environmental science and conservation to the broader public through visual media, particularly my website www.tethys-images.com. Tethys Images uses photography, particularly underwater photography, to visually communicate the natural world and human impacts on nature to a wide audience. Our images have been featured in numerous public fora, including on the covers of scientific journals, in public aquaria, and government reports.

Mainstream Media: My research has been featured on National TV and Radio. For example, in the month I have conducted two radio interviews with the ABC in Brisbane, and been interviewed for the 'Talking Technology' show on commercial radio station 2UE, broadcast into Sydney, Melbourne and Brisbane. I have continued to use conventional and social media to promote my science; for example, I appeared in a recent episode of the television series *Coasts Australia*, which featured a segment on my research on deep-water reefs. My research has also been featured in national and international popular science magazines, including *Australian Geographic*.

Public Seminars: My current position of Senior Curator of Corals at the Queensland Museum provides an opportunity to communicate with a wide cross-section of the community on biodiversity and conservation issues. For example, I was invited to present two shows at the recent **World Science Festival in Brisbane**: 'Cool Jobs', which aims to inspire school children to pursue careers in science, and 'Let's Talk', which provides an overview of my research targeted towards a public audience. The 2016 World Science Festival last year attracted over 120,000 visitors, 1,439 media stories, and reached a cumulative audience of over 28 million people. I have also presented public seminars about my research at events including the Australian Festival of Chamber Music, where I was invited to present the Virginia Chadwick Memorial Reef Talk. I have extensive experience in this area, having worked as a presenter at Reef Teach, a public education show about the Great Barrier Reef based in Cairns, prior to commencing my PhD. Through my background and research career, I have developed relationships with the dive tourism industry. I regularly conduct presentations to tourists to raise awareness of environmental science and conservation issues among the broader public.

Government and Management Engagement

I believe that conveying my research findings to policymakers is an important component of my job. I regularly meet with members of Federal Government management agencies such as the Great Barrier Reef Marine Park Authority (GBRMPA). I have presented my research as part of the GBRMPA seminar series, and have been an invited expert advisor at numerous workshops regarding management of the Great Barrier Reef. I have also presented my research to government agencies in foreign countries where I have worked, including the Republic of the Maldives. I have passed on my technical expertise to high school science teachers in Cairns by running workshops on how to classify seafloor images, which are adopted as part of the science curriculum.

HDR Supervision

I have supervised 4 Honours students to completion. All four students received 1st Class Honours, and have had their Honours research published in peer-reviewed journals. I currently supervise 3 PhD students, two of whom will complete their PhDs in the next 12 months.