

T: +678 5551114 or +61 418760225
E: j.johnson@c2o.net.au
W: www.c2o.net.au
Skype: jo.dave1

Dr Johanna Eleonor Johnson

Partner & Senior Scientist

C₂O Consulting: coasts, climate, oceans



Adjunct Research Fellow

College of Marine & Environmental Sciences, James Cook University

PLOS Climate Academic Editor



QUALIFICATIONS

- 2018 Doctor of Philosophy – Climate change vulnerability and adaptation assessments**
James Cook University, College of Science & Engineering, Australia
- 2001 Master of Science – Conservation & Marine Ecology**
James Cook University, Tropical Environmental Studies & Geography, Townsville, Australia
- 1997 Post Graduate Diploma – Environmental Ecology & Management**
James Cook University, Tropical Environmental Studies & Geography, Townsville, Australia
- 1991 Bachelor of Science – double major in Physiology & Psychology**
Monash University, Faculty of Science, Melbourne, Australia
- 1998 ADAS Commercial Diver (2815 Level 1)**

CAREER GOALS & RESEARCH INTERESTS

Deliver robust science as the foundation for effective natural resource management to facilitate a sustainable future for marine and coastal ecosystems and dependent communities. Experience and expertise span a range of topics including supporting community-based marine managed areas, delivering climate change adaptation, food security and sustainable livelihoods, and translating science to inform decision-making at local and national levels. My focus is on applied research to facilitate a sustainable future for marine ecosystems and dependent people.

COUNTRY EXPERIENCE

Australia, Vanuatu, Fiji, Papua New Guinea, Solomon Islands, Samoa, Tonga, Cook Islands, Marshall Islands, New Caledonia, Pitcairn Islands, Wallis & Futuna, Niue, Indonesia, Timor Leste, Saudi Arabia, India, Ecuador, USA, UK

LANGUAGES

English (proficient; native), Greek (working level proficiency), Bislama/Pigin (conversation)

ACADEMIC STATISTICS

80+ peer-review publications ♦ h-index 28 ♦ RG Score 25.9 ♦ 3329 citations (May 2021) ♦ 13 books/chapters

PROJECTS AND RESEARCH GRANTS

- 2020 – 2021 Vanuatu community-based climate resilience** **Save the Children/GCF**
Chief of Party to lead the design of the 8-year project including feasibility study and baseline data analysis.
- 2020 – 2021 Arafura & Timor Seas Ecosystem Action Program** **United Nations Development Programme**
Conduct a climate change vulnerability assessment for the large marine ecosystem of Arafura and Timor Seas, including habitats and fisheries in marine waters of Indonesia, Timor Leste, PNG and northern Australia.
- 2020 – 2021 Cook Islands Marae Moana Outlook Report** **Cook Islands National Environment Service**
Lead reviewer of Cook Islands Outlook Report, and re-development of 2020 Outlook Report.
- 2020 – 2021 Vanuatu Climate Adaptation Project: Phase 2** **United Nations Development Programme**
Marine specialist to deliver the design for the 5-year Phase 2 of VCAP with a ridge to reef focus.
- 2019 – 2022 Australia Pacific Climate Partnership** **Palladium & DFAT**
Technical expert to provide support and science advice to DFAT investments in the Pacific region, including integrating climate science into sectors, projects and adaptation programs.
- 2020 – 2021 Community Monitoring Toolkit** **Marshall Islands Marine Resources Auth.**
Develop tailored community monitoring toolkit for the Marshall Islands and deliver training for government.
- 2021 NEOM Climate change assessment and policy** **NEOM (Red Sea)**
Deliver a climate change situational analysis & vulnerability assessment for the NEOM region to inform policy
- 2021 NEOM Inaugural Outlook Report** **NEOM (Red Sea)**
Lead scientific team developing the first Outlook Report for the NEOM (northern Red Sea) region.
- 2019 – 2021 National Environmental Science Program** **Reef & Rainforest Research Centre**
Lead synthesis of Tropical Water Quality hub projects to inform future government investment in science.
- 2020 Vanuatu crown-of-thorns starfish control project** **New Zealand Ministry Foreign Affairs (MFAT)**
Oversee the Vanuatu COTS control project, including coordination of activities, data analysis and reporting.
- 2019 – 2020 Fisheries adaptation to climate change** **Food & Agriculture Organization of UN**
Analyse practical experiences on fisheries management adaptation to climate change (case studies) and identify examples of good practices to increase fisheries resilience.
- 2016 – 2020 Influence of the Fly River, PNG on Torres Strait** **National Environment Science Programme**
Research grant: Identify water quality and ecosystem health threats of Papua New Guinea Fly River runoff to the Torres Strait and far northern Great Barrier Reef (co-investigator).
- 2014 – 2020 Resilient communities in the South Fly, PNG** **Australian Dept of Foreign Affairs (DFAT)**
Coordinate on-ground actions to deliver environmental sustainability, enhance community livelihoods, food security, and healthy ecosystems through local Ranger program and natural resource management.
- 2018 – 2019 Climate Information Services for Resilient Development, Vanuatu** **SPREP & GCF**
Manage the implementation of a national project to delivery climate information tools and products for five target sectors and communities in Vanuatu to inform decision-making and adaptation.
- 2017 – 2018 Evaluation: Community-based Sustainable Development** **WWF**
Conduct a terminal evaluation of a 4-year project in PNG and Solomon Islands, providing recommendations
- 2017 – 2018 Marine managed areas in New Ireland, PNG** **Wildlife Conservation Society, Fiji**
Support delivery of improved biodiversity and fisheries-associated livelihoods and well-being by promoting the development of new marine managed areas (MMAs) in New Ireland, PNG.

- 2017 – 2018 Reef connectivity and values** **National Environment Science Programme**
Research grant: Define the values of the ecological systems that influence the Great Barrier Reef and lie outside the marine park and world heritage area boundaries (principle investigator).
- 2016 – 2018 Community adaptation & sustainable ecosystems** **USAID Pacific-American Climate Fund**
Integrating climate change planning into community-based adaptation to reduce vulnerability and support environmental sustainability in Western Province coastal communities, Solomon Islands.
- 2015 – 2018 Vanuatu RESCCUE** **Pacific Community (SPC)**
Contribute to increased resilience of north Efate communities in Vanuatu in the context of global change by assessing vulnerability and supporting adaptation to climate change.
- 2016 – 2017 Climate change loss & damage in the Pacific** **GIZ, Germany**
Analysis of options for minimising climate change induced loss and damage in artisanal fisheries and aquaculture in the Pacific region and identifying adaptation options.
- 2016 – 2017 FishAdapt Conference: Scientific Committee** **Food & Agriculture Organization of UN**
Coordinate FishAdapt conference proceedings & FAO United Nations policy brief; Chair Scientific Committee.
- 2015 – 2016 Coral reefs and pollution policy brief** **United Nations Environment Programme**
Evaluate international investment and prepare a Policy brief addressing pollution on coral reefs.
- 2015 Pacific regional ocean acidification assessment** **SPREP, Samoa**
Assess the vulnerability of the Pacific region to ocean acidification at sub-regional and national scales, particularly focusing on food security, livelihoods and economic revenue, to inform the adaptation program.
- 2015 & 2019 State of the marine environment, Fitzroy region** **Fitzroy Basin Association**
Lead the review and synthesis of the state of the marine environment for the Fitzroy region of the Great Barrier Reef and contribute to development of targets for the regional Water Quality Improvement Plan.
- 2014 Sustainable Agriculture & Fisheries in Wallis & Futuna** **Wallis Ministry of Agriculture & Fisheries**
Expert advisory member to provide input on marine fisheries, habitats and climate change adaptation to inform the development of a national Sustainability Plan in the French Pacific Territory of Wallis & Futuna.
- 2014 Torres Strait Coral Reef Response** **Torres Strait Regional Authority**
Lead the development of a Torres Strait response strategy in consultation with rangers that includes coral reef monitoring, assessment, and direct action to address impacts such as coral bleaching, and flood plumes.
- 2014 Integrating climate change into assessment policies** **Great Barrier Reef Marine Park Authority**
Identify key climate change issues for marine protected area impact assessments and mainstream climate change into government policies, guidelines and procedures.
- 2013 – 2014 State of the marine environment, Wet Tropics** **Terrain Natural Resource Management**
Lead the review and synthesis of the state of the marine environment for the Wet Tropics region of the Great Barrier Reef and contribute to development of targets for the regional Water Quality Improvement Plan.
- 2013 – 2014 Torres Strait Climate Change Strategy** **Torres Strait Regional Authority**
Lead the development of a five-year Torres Strait Climate Change Strategy 2014-2018, including a community adaptation and resilience plan that mainstreams climate resilience into government policy and planning.
- 2012 – 2014 Community-based adaptation to climate change** **WorldFish, Malaysia**
Synthesise research findings on enabling community adaptation to climate change in Timor Leste and Solomon Islands and building resilience in resource-dependent communities in the Pacific region.
- 2013 Torres Strait habitats, fisheries and climate change** **Aust. Fisheries Management Authority**
Assess the vulnerability of fisheries and habitats to future climate drivers of change using a quantitative approach that assessed ecosystem resilience and climate change projections.

- 2012 – 2013 Climate change adaptation in Melanesia** **Secretariat of the Pacific Community (SPC)**
Delivery of in-country workshops to identify climate change adaptations for Fiji, Solomon Island and PNG communities reliant on fisheries and aquaculture, and mechanisms for implementing actions.
- 2012 – 2013 Reef health exposure mapping** **Great Barrier Reef Marine Park Authority**
Map the historical exposure of coral reefs to key drivers of change (sea temperature, cyclones, floods and pest outbreaks) to target protection and conservation measures on the Great Barrier Reef.
- 2012 – 2013 Supporting Caribbean coral reef managers** **Great Barrier Reef Marine Park Authority**
Facilitate knowledge exchange platform and capacity building on climate change and reef resilience.
- 2012 – 2013 GBR Scientific Consensus Statement** **Qld Department of Premier & Cabinet**
Lead Great Barrier Reef Resilience chapter and contribute to overall Water Quality Consensus Statement.
- 2012 Pacific Climate Change Adaptation Workshop** **Pacific Community (SPC) & FAO**
Expert delivery of Pacific regional workshop on climate change adaptation for fisheries and aquaculture.
- 2011 – 2014 Climate change & tropical Australian fisheries** **James Cook University**
Lead climate projections and exposure analysis for fisheries and habitat vulnerability assessment.
- 2011 – 2014 Environmental & Water Quality Research** **Reef and Rainforest Research Centre**
Grants management under National Environment Research Program & Reef Rescue Water Quality R&D.
- 2008 – 2012 Climate change vulnerability of Pacific fisheries** **Secretariat of the Pacific Community (SPC)**
Co-edit international publication, co-author, technical working group, and co-lead companion publication assessing climate change vulnerability and adaptations for 22 Pacific Island countries and territories.
- 2009 – 2011 GBR Reef Rescue Marine Monitoring Program** **Reef and Rainforest Research Centre (RRRC)**
Grants management of multi-disciplinary program to monitor & report on status and trends of GBR and WQ.
- 2010 Monitoring climate change impacts on Pacific fisheries** **Secretariat of the Pacific Community (SPC)**
Design a Pacific-wide monitoring program to detect climate change effects on coastal fisheries and habitats.
- 2009 – 2010 Supporting Indonesian reef managers** **University of Queensland**
Develop tools, training package and online networks for MPA managers on reef resilience to climate change.
- 2009 – 2010 Reef Health & Impact Survey program** **Great Barrier Reef Marine Park Authority**
Design monitoring protocol and training package for MPA rangers to monitor coral reef health.
- 2009 – 2010 Great Barrier Reef resilience indicators** **Great Barrier Reef Marine Park Authority**
Lead the development of indicators for mapping resilience of tropical marine ecosystems to climate change.
- 2009 – 2010 Paddock to Reef Integrated Program** **Qld Department of Premier and Cabinet**
Facilitate 10 regional workshops to develop a Paddock to Reef monitoring program; contribute to final report

PUBLICATIONS

Peer Review Journals

Johnson JE, Jones P, Welch D, Hooper E, Moore B, Duce S (in review) Current status and recovery potential of coastal reefs of North Efate, Vanuatu. Coral Reefs

Thiault, L., Jupiter, S.D., **Johnson, J.E.**, Cinner, J.E., Jarvis, R.M., Heron, S.F., Maina, J.M., Marshall, N.A., Marshall, P.A., Claudet, J. (2021) Harnessing the potential of vulnerability assessments for managing social-ecological systems. Ecology and Society, 26, (2):1. URL: <https://www.ecologyandsociety.org/vol26/iss2/art1/>

Dutra LX, Haywood MD, Singh SS, Ferreira M, **Johnson JE**, Veitayaki J, Kininmonth S, Morris CW, Piovano S (2021) Synergies between local and climate-driven impacts on coral reefs from Pacific Island Countries and Territories: A review of issues and adaptation opportunities. Marine Pollution Bulletin, Special Issue

Johnson JE, Hooper E, Welch DJ (2020) Community Marine Monitoring Toolkit: A tool developed in the Pacific to inform community-based marine resource management. Marine Pollution Bulletin, 159, 111498

Basel B, Goby G, **Johnson JE** (2020) Community-based adaptation to climate change in remote villages of Western Province, Solomon Islands. *Marine Pollution Bulletin*, 156, 111266

Johnson JE, Monnereau I, Welch DJ, McConney P, Szuster B, Gasalla MA (2019) Climate change adaptation: Vulnerability and challenges facing small-scale fisheries in small islands. FishAdapt Conference Proceedings, Food & Agriculture Organization of the United Nations, FAO Fisheries & Aquaculture Proceedings 61. Rome.

Johnson JE, Bertram I, Chin A, Moore BR, Pratchett MS, Welch DJ, Williams A, Bell JD, Govan H (2018) Impacts of Climate Change on Fish and Shellfish Relevant to the Pacific Islands. CMES Pacific Marine Climate Change Report Card: Science Review 2018, 74-98.

Johnson, J.E., Allain, V., Bell, J., Lehodey, P., Nicol, S., Senina, I. (2018) Impacts of Climate Change on Oceanic Fisheries Relevant to the Pacific Islands. CMES Pacific Marine Report Card: Science Review 2018, 177-188.

Dutra, L.X.C., Haywood, M.D.E., Singh, S.S., Ferreira, M., **Johnson, J.E.**, Joeli, V., Kininmonth, S., Morris, C.W. (2018) Impacts of Climate Change on Corals Relevant to the Pacific Islands. CMES Pacific Marine Climate Change Report Card: Science Review 2018, 132-158.

Bell JD, Cisneros-Montemayor A, Hanich Q, **Johnson JE**, Lehodey P, Moore B, Pratchett M, Reygondeau G, Senina I, Viridin J, Wabnitz C (2018) Adaptations to maintain the contributions of small-scale fisheries to food security in the Pacific Islands. *Marine Policy*, 88, 303-314. doi.org/10.1016/j.marpol.2017.05.019

Johnson JE, Welch, DJ, Maynard JA, Bell JD, Pecl G, Robins, J and Saunders T (2016) Assessing and reducing vulnerability to climate change: Moving from theory to practical decision-support. *Marine Pol.*, 74, 220-229.

Ensor JE, Park SE, Attwood SJ, Kaminski AM and **Johnson JE** (2016) Can community-based adaptation increase resilience? *Climate and Development*, 1-18. doi.org/10.1080/17565529.2016.1223595

Johnson JE and Welch DJ (2016) Climate change implications for Torres Strait fisheries: Assessing vulnerability to inform adaptation. *Climatic Change*, 135(3), 611-624. DOI: 10.1007/s10584-015-1583-z

Maynard JA, Beeden R, Puotinen M, **Johnson JE**, Marshall PA, van Hoodonk R, Heron SF, Devlin M, Lawrey E, Dryden J, Ban N, Anthony K, Wachenfeld D and Planes S (2015) Great Barrier Reef no-take areas include a range of disturbance regimes. *Conservation Letters*, 9(3), 191-199. DOI: 10.1111/conl.12198

Beeden R, Maynard J, **Johnson J**, Dryden J, Kininmonth S and Marshall P (2014) No-anchoring areas reduce coral damage in an effort to build resilience in Keppel Bay, southern Great Barrier Reef. *Australasian Journal of Environmental Management*, 21(3), 311–319. DOI:10.1080/14486563.2014.881307

Johnson JE and Holbrook NJ (2014) Adaptation of Australia's marine ecosystems to climate change: Using science to inform conservation management. *International J. of Ecology*, doi.org/10.1155/2014/140354

Holbrook NJ and **Johnson JE** (2014) Climate change impacts and adaptation of commercial marine fisheries in Australia: A review of the science. *Climatic Change*, 124, 703–715. DOI 10.1007/s10584-014-1110-7

Bell JD, Ganachaud AS, Gehrke PC, Griffiths SP, Hobday AJ, Hoegh-Guldberg O, **Johnson JE**, Le Borgne R, Lehodey P, Lough JM, Matear RJ, Pickering TD, Pratchett MS, Sen Gupta A and Waycott M (2013) Mixed responses of tropical Pacific fisheries and aquaculture to climate change. *Nature Climate Change*, 3, 591-599

Bell JD, Reid C, Batty MJ, Lehodey P, Rodwell L, Hobday AJ, **Johnson JE** and Demmke A (2012) Effects of climate change on oceanic fisheries in the tropical Pacific: Implications for economic development and food security. *Climatic Change*, 19(1), 199–212. DOI: 10.1007/s10584-012-0606-2

Johnson JE and Welch DJ (2010) Marine fisheries management in a changing climate: a review of vulnerability. *Reviews in Fisheries Science*, 18(1), 106-124

Maynard JA, Marshall PA, **Johnson JE** and Harman S (2010) Building resilience into practical conservation: targeting management responses to climate change in southern Great Barrier Reef. *Coral Reefs*, 29, 381-391

Keller BD, Gleason DF, McLeod E, Woodley CS, Airamé S, Causey BD, Friedlander AM, Grober-Dunsmore R, **Johnson JE**, Miller SL and Steneck RS (2009) Climate change, coral reef ecosystems, and management options for Marine Protected Areas. *Environmental Management*, 44(6), 1069-1088

Maynard JA, **Johnson JE**, Marshall PA, Eakin CM, Goby G, Schuttenberg H and Spillman CM (2009) A strategic framework for responding to coral bleaching events in a changing climate. *Environmental Mgt*, 44(1), 1-11.

Maynard JA, Turner PJ, Anthony KR, Baird A, Berkelmans R, Eakin M, **Johnson J**, Marshall PA, Packer GR, Rea A and Willis BL (2008) *ReefTemp*: an interactive monitoring system for coral bleaching using high-resolution SST and improved stress predictors. *Geophysical Research Letters*, 35(5), L05603

Maynard JA, Marshall PM, **Johnson JE** and Davidson J (2007) Biophysical assessment of the reefs within Keppel Bay. *Reef Research*, Vol 87

Shu L, Schneider P, Jegatheesan V and **Johnson J** (2006) An economic evaluation of phosphorus recovery as struvite from digester supernatant. *Bioresource Technology*, 97, 2211-2216

Codi-King S, **Johnson JE**, Haasch ML, Ryan D, Ahokas JT and Burns KA (2005) Summary results from a pilot study conducted around an oil production platform on the NW shelf, Australia. *Mar Poll Bull*, 50, 1163-1172

Johnson JE and Hill RT (2003) Sediment microbes of deep-sea bioherms on the Northwest shelf of Australia. *Microbial Ecology*, 46(1), 55-61

Waterhouse J and **Johnson JE** (2002) Sewage discharges in the Great Barrier Reef Region. *Water Journal, Australian Water Association*, August Issue, NSW, Australia

Haynes D and **Johnson JE** (2000) Organochlorine, heavy metal and polyaromatic hydrocarbon pollutant concentrations in the Great Barrier Reef: a review. *Marine Pollution Bulletin*, 41, No. 7-12, 267-278

Books and Book Chapters

Johnson JE, Allain V, Basel B, Bell JD, Chin A, Dutra LXC, Hooper E, Loubser D, Lough J, Moore BR, Nicol S (2020) Chapter 10: Impacts of climate change on marine resources in the Pacific Island region. In: *Climate Change Impacts in the Pacific*, Lalit Kumar (Editor), Springer, Cham.

Johnson JE, Hooper E, Waterhouse J, Dwyer S, Kaltavara J (2018) Republic of Vanuatu Chapter. In: Moritz, C., Vii, J., Tamelander, J., Thomassin, A., Anderson, P., Lee Long, W., Planes, S. (Editors) *Status and Trends of Coral Reefs of the Pacific*. Global Coral Reef Monitoring Network, French Polynesia.

Johnson JE, Bell JD, Allain V, Hanich Q, Lehodey P, Moore B, Nicol S and Pickering T (2017) Chapter 11 – The Pacific Islands: Fisheries and Aquaculture and Climate Change. In: Philips B, Ramirez M (Editors) *Climate Change Impacts on Fisheries & Aquaculture: a global analysis*. *Wiley Pubs*, New York, USA

Bell JD, **Johnson JE**, Hobday AJ, Ganachaud A, Gehrke P, Hoegh-Guldberg O, Le Borgne R, Lehodey P, Lough J, Pickering T, Pratchett M and Waycott M (2011) Vulnerability of tropical Pacific fisheries and aquaculture to climate change: Summary for countries and territories. *Secretariat of the Pacific Community*, Noumea

Bell JD, **Johnson JE** and Hobday AJ (2011) Vulnerability of tropical Pacific fisheries and aquaculture to climate change, *Secretariat of the Pacific Community*, Noumea, New Caledonia

Bell JD, Adams TJH, **Johnson JE**, Hobday AJ and Sen Gupta A (2011) Chapter 1: The Pacific Community, fisheries, aquaculture and climate change: An introduction. In: *Vulnerability of tropical Pacific fisheries and aquaculture to climate change*, eds Bell J, **Johnson JE** and Hobday AJ. *Secretariat of the Pacific Community*

Waycott M, McKenzie L, Mellors J, Ellison J, Sheaves M, Collier C, Schwarz AM, Webb A, **Johnson JE** and Payri C (2011) Chapter 6: Vulnerability of mangrove, seagrass and intertidal sand and mud flat habitats in the tropical

Pacific to climate change In: *Vulnerability of tropical Pacific fisheries and aquaculture to climate change*, eds Bell J, **Johnson JE** and Hobday AJ. *Secretariat of the Pacific Community*, Noumea, New Caledonia

Bell JD, Reid C, Batty MJ, Allison EH, Lehodey P, Rodwell L, Pickering T, Gillett R, **Johnson JE**, Hobday AJ and Demmke A (2011) Chapter 12: Economic and social implications of climate change for contributions by fisheries and aquaculture to the Pacific Community. In: *Vulnerability of tropical Pacific fisheries and aquaculture to climate change*, eds Bell J, **Johnson JE** and Hobday AJ. *Secretariat of the Pacific Community*

Keller B, Causey B, Airame S, Friedlander A, **Johnson JE**, West J (2008) Chapter 5: Marine Protected Areas. In: *Review of adaptation options for climate-sensitive ecosystems & resources, USA Climate Change Program*

Johnson JE and Marshall PA (Editors) (2007) *Climate change and the Great Barrier Reef: a vulnerability assessment*. *Great Barrier Reef Marine Park Authority, Australian Government*

Wachenfeld D, **Johnson JE**, Skeat A, Kenchington R, Marshall PA, Innes J (2007) Chapter 1: Introduction to GBR & climate change. In: *Climate Change & the GBR*, eds **Johnson JE**, Marshall PA. *GBRMPA, Australian Gov*

Fabricius KE, Hoegh-Guldberg O, **Johnson JE**, McCook LJ, Lough J (2007) Chapter 17: Vulnerability of coral reefs of the GBR. In: *Climate Change & the GBR*, eds **Johnson JE**, Marshall PA. *GBRMPA, Australian Gov*

Marshall PA and **Johnson JE** (2007) Chapter 24: The GBR and climate change: vulnerability and management implications. In: *Climate Change & the GBR*, eds **Johnson JE**, Marshall PA. *GBRMPA, Australian Government*

Selected Technical Reports

Johnson, J.E., Ceccarelli, D., Smith, A. (2021) Outlook Report 2021 for Marae Moana (Cook Islands Marine Park). Report prepared for the Cook Islands Ridge to Reef project. Government of the Cook Islands. 185pp.

Bahri, T., Vasconcellos, M., Welch, D., **Johnson, J.**, Perry, I., Ma, X., Sharma, R. (Eds)(2021) Adaptive management of fisheries in response to climate change. FAO Fisheries and Aquaculture Technical Paper. Rome, Food & Agriculture Organization of the United Nations (FAO).

Johnson J, Welch D, Whitelaw P, Shaw C (2020) Vanuatu crown-of-thorns starfish (COTS) control project report to New Zealand MFAT. Vanuatu Scuba Operators Association and C₂O Pacific, Port Vila, Vanuatu.

Johnson J, De Young C, Bahri T, Soto D, Virapat C (Editors) (2019) Proceedings of FishAdapt: A Global Conference on Climate Change Adaptation for Fisheries and Aquaculture, Bangkok, 8–10 August, 2016. FAO Fisheries and Aquaculture Proceedings No. 61. Rome, FAO. 240 pp. Licence: CC BY-NC-SA 3.0 IGO.

Brodie J, **Johnson JE**, Waterhouse J, Erdmann S (2019) Wastewater Pollution and Coral Reefs: Supporting Science. C₂O (Coasts Climate Oceans) for the United Nations Environment Programme (UNEP).

Johnson JE, Welch DJ, Hooper E, Moore B, Edney G, Waterhouse J (2018) *Community Marine Monitoring Toolkit: Vanuatu*. Prepared under the Restoration of Ecosystem Services and Adaptation to Climate Change (RESCCUE) Vanuatu project for the Pacific Community (SPC), Noumea, New Caledonia (104pp).

Johnson JE, Welch DJ, Marshall PA, Day J, Marshall N, Steinberg CR, Benthuyesen JA, Sun C, Brodie J, Marsh H, Hamann M, Simpfendorfer C (2018) Characterising the values and connectivity of the northeast Australia seascape: Great Barrier Reef, Torres Strait, Coral Sea and Great Sandy Strait. National Environmental Science Programme (NESP). Reef and Rainforest Research Centre, Cairns, 81pp.

Johnson JE, Welch DJ, Marshall PA, Day J, Marshall N, Steinberg CR, Benthuyesen JA, Sun C, Brodie J, Marsh H, Hamann M, Simpfendorfer C (2018) Supplementary Synthesis Report: Connectivity and inter-dependencies of values in the northeast Australia seascape. Report to NESP. Reef & Rainforest Research Centre, 67pp.

Bell JD, Allain V, Sen Gupta A, **Johnson JE**, Hampton J, Hobday AJ, Lehodey P, Lenton A, Moore BR, Pratchett MS, Senina I, Smith N, Williams P (2018) Chapter 14: Climate change impacts, vulnerabilities & adaptations: Western & Central Pacific Ocean marine fisheries. In: *Impacts of climate change on fisheries & aquaculture*.

Barange M, Bahri T, Beveridge MCM, Cochrane KL, Funge-Smith S, Poulain F (Eds) FAO Tech Paper No. 627.

Maynard JA, Gove J, Tracey D, **Johnson JE**, Lecky J, Conklin E, van Hoodonk R, Donovan M, Hospital J, Kleiber D, Brainard R, Williams I, Swanson D, Oliver T, Walsh W, Wiggins C, Kramer L (2018) Coral Reefs Vulnerability to Climate Change in West Hawai'i. NOAA, Hawaii.

United Nations Environment Programme [UNEP] (2017) Wastewater Pollution and Coral Reefs: Science-to-Policy Brief. **Johnson, J.E.**, Brodie, J., Waterhouse, J. (Authors). United Nations Environment Programme, Nairobi, Kenya, 16pp.

Welch DJ, **Johnson JE** (2017) Management of climate change-induced loss and damage in artisanal fisheries and aquaculture in the Pacific region. Commissioned by the BMZ-funded GIZ Global Programme on Risk Assessment and Management for Adaptation to Climate Change, Germany, 79pp.

Johnson JE, Basel B (2017) Vulnerability Assessment & Local Early Action Planning (VA-LEAP): Community-based Assessments on Rendova Island, Solomon Islands. Report to the Pacific-American Climate Fund (PACAM), USAID Program, March 2017.

Johnson JE, Waterhouse J, Devlin, MJ, Hooper E (2016) Marine Ecosystem Assessment: North Efate, Vanuatu. Report to the Pacific Community (SPC), Noumea, New Caledonia, and Agence Francaise de Developpement, Paris, France. Vanuatu RESCCUE project

Johnson JE, Basel B, Goby G, Tooler, N, Maui S (2016) Integrating climate change planning into community-based adaptation to reduce vulnerability in Solomon Islands: Synthesis of lessons learnt. Report prepared by the Solomon Islands Community Conservation Program for the USAID Pacific-American Climate Fund.

Johnson JE, Bell JD, Sen Gupta A (2016) Pacific Islands Ocean Acidification Vulnerability Assessment. Secretariat of the Pacific Regional Environment Programme (SPREP) Technical Series, Apia, Samoa, 40pp

Johnson, JE, Welch DJ (2016) Climate change impacts and adaptation in North Efate, Vanuatu. Report to the Pacific Community (SPC), and Agence Francaise de Developpement, Paris, France. Vanuatu RESCCUE project.

Johnson J, Brodie J, Flint N (2019 & 2015) Status of marine and coastal natural assets in the Fitzroy NRM region. Report to Fitzroy Basin Association for the Fitzroy Water Quality Improvement Plan. Fitzroy Basin Association

Johnson JE, Marsh H, Hamann M, Duke N, Burrows D, Bainbridge S, Sweatman H, Brodie J, Bohensky E, Butler J, Laurance S (2015) Tropical Research in Australia's Torres Strait region. Report to the National Environmental Research Program. RRRRC, Cairns, 33 pp, DOI: 10.13140/2.1.2391.1209

Johnson JE (2014) Status of marine and coastal assets in the Wet Tropics region of the Great Barrier Reef. Report for the Water Quality Improvement Plan. C₂O Consulting, Cairns, 46pp. 10.13140/RG.2.1.2073.5523

TSRA (2014) Torres Strait Climate Change Strategy 2014–2018. Report prepared by Land and Sea Management Unit, **J.E. Johnson** & J. Rainbird (Authors), Torres Strait Regional Authority, Thursday Island, 29pp.

Welch DJ, Saunders T, Robins, J, Harry A, **Johnson JE**, Maynard J, Saunders R, Pecl G, Sawynok B, Tobin A (2014) Implications of climate change on fisheries resources of northern Australia. Part 1: Vulnerability assessment and adaptations. FRDC Project No: 2010/565 Report. James Cook University, Townsville, 236pp

Welch DJ, **Johnson JE** (2013) Assessing the vulnerability of Torres Strait fisheries & supporting habitats to climate change. Report to Aust. Fisheries Mgt Authority. C₂O Fisheries, 114pp. DOI 10.13140/2.1.4002.3846

Brodie JE, Waterhouse J, Schaffelke B, Kroon F, Thorburn P, Rolfe J, **Johnson J**, Fabricius K, Lewis S, Devlin M, Warne M, McKenzie L (2013) Scientific Consensus Statement: Land use impacts on Great Barrier Reef water quality and ecosystems. Reef Water Quality Protection Plan. State of Queensland, Brisbane, 12pp

Johnson JE, Maynard JA, Devlin MJ, Wilkinson S, Anthony KRN, Yorkston H, Heron SF, Puotinen ML, van Hoodonk, R (2013) Chapter 2: Resilience of GBR marine ecosystems & drivers of change. In: Synthesis of evidence to support the Reef WQ Scientific Consensus Statement. *Dept Premier & Cabinet*, Qld Gov, 35pp

- Maynard JA, **Johnson JE**, Puotinen M, van Hooidek R, Devlin M, Lawrey E, Carrigan A (2013) Historic and projected future exposure of habitats in the GBR to disturbances. GBR Marine Park Authority, Townsville, 77pp
- Johnson JE**, Bell JD, De Young C (2013) Priority adaptations to climate change for Pacific fisheries and aquaculture: reducing risks and capitalizing on opportunities. *Food and Agriculture Organization of the United Nations*, FAO Fisheries & Aquaculture Proceedings No. 28. Rome, 76pp. DOI: 10.13140/2.1.4395.6000
- Butler JR, Bohensky E, Skewes T, Maru Y, Hunter C, Busilacchi S, Rochester W, **Johnson JE**, Doupe J (2012) Torres Strait Futures. NERP Technical Report. Reef and Rainforest Research Centre, Cairns, 64pp
- Holbrook NJ, **Johnson JE** (2012) Australia's marine biodiversity and resources in a changing climate: a review of impacts and adaptation 2009-2012. *National Climate Change Adaptation Research*, Australia, 45pp
- Johnson JE**, Martin K (2011) Water quality and climate change: managing for resilience. A Report of the Marine and Tropical Science and Research Facility 2006–2010, *Reef & Rainforest Research Centre Ltd*, Cairns
- Johnson JE**, Martin K (2011) Managing for Great Barrier Reef resilience: Socio-economic influences. A Report of the Marine and Tropical Science and Research Facility 2006–2010, *RRRC*, Cairns, Australia
- Johnson JE**, Brando V, Devlin M, McKenzie LE, Kennedy K, Morris S, Schaffelke B, Thompson A, Waterhouse J, Waycott M (2011) Reef Rescue Marine Monitoring Program: 2009/10 Synthesis. *RRRC*, Cairns, Australia
- Johnson JE** (2010) Vulnerability and adaptation of coastal fisheries to climate change: Monitoring indicators and survey design for implementation in the Pacific. *Report to the Secretariat of the Pacific Community*
- Johnson JE**, Waterhouse J, Maynard JA, Morris S (writing team) (2010) Reef Rescue Marine Monitoring Program: 2008/2009 Synthesis Report. *Reef and Rainforest Research Centre Limited*, Cairns, Australia
- Prange J, **Johnson JE**, Morris S (2009) Reef Water Quality Marine Monitoring Program 2007/2008 Summary Report. *Reef and Rainforest Research Centre Limited*, Cairns, Australia
- Johnson JE** (2008) Marine habitat assessment and impact of sediment runoff at Clarkes Cove, Whitsunday Region. Report for *Queensland Environmental Protection Agency*, Brisbane
- Hilbert DW, Hughes L, **Johnson J**, et al. (2007) Biodiversity Conservation Research in a Changing Climate. Technical report. National Biodiversity & Climate Change Action Plan. *Dept of Env & Water, Aust Government*

EMPLOYMENT HISTORY

- 2004 – 2008 **Great Barrier Reef Marine Park Authority**, Townsville, Australia
Manager – Climate Change Adaptation
- 2002 – 2004 **Great Barrier Reef Marine Park Authority**, Townsville, Australia
Project Manager – Water Quality & Coastal Development
- 2001 – 2002 **Centre for Environment, Fisheries & Aquaculture Science**, United Kingdom
Team Leader – Environmental Management Science Area
- 1999 – 2001 **Great Barrier Reef Marine Park Authority**, Townsville, Australia
Project Manager – Environmental Impact Management
- 1994 – 1999 **Australian Institute of Marine Science**, Townsville, Australia
Experimental Scientist – Marine Biology & Ecology Group

REFEREES

Dr Kate Duggan
Team Leader
Australia Pacific Climate Partnership
Tel: +61 (0) 439305225
Email: kduggan@griffin-nrm.com.au

Dr Johann Bell
Senior Director – Pacific Tuna Fisheries
Conservation International
Tel: +61 412657319
Email: jbelle@conservation.org