

Program	Case study title	Authors	Published in	Chapter	Report Authors	Date published
Seagrass	Leaf tissue nutrient C:N ratio in relation to water quality: Model assessment and implications for report card metrics	Lucas Langlois, Catherine J. Collier, Stephen Lewis, Dieter Tracey, Renee Gruber, Len J. McKenzie	Marine Monitoring Program: Annual Report for inshore seagrass monitoring 2018-2019	Appendix 1	McKenzie, L.J., Collier, C.J., Langlois, L.A., Yoshida, R.L., Uusitalo, and Waycott, M	2021
Seagrass	Developing a computer program to predict cumulative light and temperature stress on seagrass in the Great Barrier Reef	Adams, M. P., Koh, E. J. Y., Vilas, M. P. , Collier, C. J., McKenzie, L. J., and O'Brien, K. R.	Marine Monitoring Program: Annual Report for inshore seagrass monitoring 2017-2018.	Appendix 1	McKenzie, L.J., Collier, C.J., Langlois, L.A., Yoshida, R.L., Uusitalo, J., Smith, N. and Waycott, M.	2019
Seagrass	Reproductive effort as a predictor of future seagrass cover: Model assessment and implications for report card metrics and the development of a seagrass resilience indicator	Collier, C.J, Lawrence, E., Waycott, M., Langlois, L.A., and McKenzie, L.J.	Marine Monitoring Program: Annual Report for inshore seagrass monitoring 2017-2018.	Appendix 2	McKenzie, L.J., Collier, C.J., Langlois, L.A., Yoshida, R.L., Uusitalo, J., Smith, N. and Waycott, M.	2019
Seagrass	Modelling the environmental drivers and abundance of seagrass communities in Cleveland Bay	Lawrence, E.	Modelling the environmental drivers and abundance of seagrass communities in Cleveland Bay		Lawrence, E.	2019
Seagrass	Assessment of reproductive effort as an indicator of seagrass health for the Marine Monitoring Program	Lawrence, E. and Gladish, D.	Assessment of reproductive effort as an indicator of seagrass health for the Marine Monitoring Program		Lawrence, E.	2019
Seagrass	Response of seagrass abundance to temperature and light among habitat types	na	Marine Monitoring Program Annual Report for inshore seagrass monitoring 2016 to 2017	6	McKenzie, LJ, Collier, CJ, Langlois, LA, Yoshida, RL, Smith, N and Waycott, M	2018
Seagrass	Response of seagrass abundance to temperature among habitat types	na	Marine Monitoring Program. Annual Report for inshore seagrass monitoring: 2015 to 2016	6	McKenzie, LJ, Collier, CJ, Langlois, LA, Yoshida, RL, Smith, N and Waycott, M	2017
Seagrass	Using life history traits to classify seagrass species – a preliminary assessment.	na	Marine Monitoring Program. Annual Report for inshore seagrass monitoring: 2014 to 2015	6	McKenzie, LJ, Collier, CJ, Langlois, LA, Yoshida, RL, Smith, N and Waycott, M	2016

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Seagrass	Estimating the exposure of coral reefs and seagrass meadows to land-sourced contaminants in river flood plumes of the Great Barrier Reef: Validating a simple satellite risk framework with environmental data.	Petus, C., Devlin, M., Thompson, A., McKenzie, L., Teixeira da Silva, E., Collier, C., Tracey, D. and Martin, K	Published in Remote Sensing 2016: 8:210	7	McKenzie, L.J. , Collier, C.J. , Langlois, LA. , Yoshida, R.L. , Smith, N and Waycott, M	2016

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Coral	Coral bleaching 2017	na	Marine Monitoring Program Annual Report for inshore coral reef monitoring 2016 to 2017	7	Thompson A, Costello P, Davidson J, Logan M, Coleman G, Gunn K	2018
Coral	Selection of environmental covariates for reporting against coral index and indicator scores	na	Marine Monitoring Program Annual Report for inshore coral reef monitoring 2016 to 2017	8	Thompson A, Costello P, Davidson J, Logan M, Coleman G, Gunn K	2018
Coral	Inclusion of Reef Check Australia data into the Reef Report Card	na	Marine Monitoring Program Annual Report for inshore coral reef monitoring 2016 to 2017	9	Thompson A, Costello P, Davidson J, Logan M, Coleman G, Gunn K	2018
Coral	Coral bleaching 2015-16		Marine Monitoring Program. Annual Report for inshore coral reef monitoring: 2015 to 2016	7	Thompson A, Costello P, Davidson J, Logan M, Coleman G, Gunn K, Schaffelke B	2017
Coral	Water quality constraints on the abundance of brown macroalgae	na	Marine Monitoring Program. Annual Report for inshore coral reef monitoring: 2015 to 2016	8	Thompson A, Costello P, Davidson J, Logan M, Coleman G, Gunn K, Schaffelke B	2017
Coral	Revision of report card indicator metrics	na	Marine Monitoring Program. Annual Report for inshore coral reef monitoring: 2014 to 2015	6	Thompson A, Costello P, Davidson J, Logan M, Coleman G, Gunn K, Schaffelke B	2016
Coral	Potential coral community composition metric for inclusion into the coral health index	na	Marine Monitoring Program. Annual Report of AIMS Activities 2013 to 2014– Inshore water quality and coral reef monitoring	3	Thompson A, Lønborg C, Logan M, Costello P, Davidson J, Furnas M, Gunn K, Liddy M, Skuza M, Uthicke S, Wright M, Zagorskis I, and Schaffelke B	2014
Coral	Trends in coral settlement	na	Reef Rescue Marine Monitoring Program. Annual Report of AIMS Activities 2012 to 2013– Inshore water quality and coral reef monitoring	3.2	Thompson A, Schaffelke B, Logan M, Costello P, Davidson J, Doyle J, Furnas M, Gunn K, Liddy M, Skuza M, Uthicke S, Wright M and Zagorskis I	2013

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Water quality	Patterns of fluorescent dissolved organic matter in the inshore Reef lagoon	Renee Gruber, Jordan Iles, and Dan Moran	Marine Monitoring Program: Annual Report for Inshore Water Quality Monitoring 2018-2019	Appendix A	Gruber, R., Waterhouse, J., Logan, M., Petus, C., Howley, C., Lewis, S., Tracey, D., Langlois, L., Tonin, H., Skuza, M., Costello, P., Davidson, J., Gunn, K., Lefevre, C., Moran, D., Robson, B., Shanahan, M., Zagorskis, I., Shellberg, J., Neilen	2020
Water quality	The dissipation of suspended particulate matter in river flood plumes and implications for marine ecosystems	Stephen Lewis, Lucas Langlois, Caroline Petus, Zoe Bainbridge, Jane Waterhouse, Jon Brodie, Tom Stevens, Jane Mellors, Scott Smithers, and Michelle Devlin	Marine Monitoring Program: Annual Report for Inshore Water Quality Monitoring 2018-2019	Appendix B	Gruber, R., Waterhouse, J., Logan, M., Petus, C., Howley, C., Lewis, S., Tracey, D., Langlois, L., Tonin, H., Skuza, M., Costello, P., Davidson, J., Gunn, K., Lefevre, C., Moran, D., Robson, B., Shanahan, M., Zagorskis, I., Shellberg, J., Neilen	2020
Water quality	Analysis of variability in chlorophyll and turbidity time-series	Gruber, R.	Marine Monitoring Program: Annual Report for Inshore Water Quality Monitoring 2017-2018	Appendix A	Gruber, R., Waterhouse, J., Logan, M., Petus, C., Howley, C., Lewis, S., Tracey, D., Langlois, L., Tonin, H., Skuza, M., Costello, P., Davidson, J., Gunn, K., Wright, M., Zagorskis, I., Kroon, F. and Neilen, A.	2019
Water quality	Assessing continuity between satellite-derived water colour monitoring products	Petus, C., and Tracey, D.	Marine Monitoring Program: Annual Report for Inshore Water Quality Monitoring 2017-2018	Appendix B	Gruber, R., Waterhouse, J., Logan, M., Petus, C., Howley, C., Lewis, S., Tracey, D., Langlois, L., Tonin, H., Skuza, M., Costello, P., Davidson, J., Gunn, K., Wright, M., Zagorskis, I., Kroon, F. and Neilen, A.	2019
Water quality	Phytoplankton pigment composition and environmental conditions – is there a link in the Great Barrier Reef?	Doyle, J.; Lønborg, C.; and Schaffelke, B.	Marine Monitoring Program Annual Report for inshore water quality monitoring 2016 to 2017	Appendix A	Waterhouse J, Lønborg C, Logan M, Petus C, Tracey D, Lewis S, Howley C, Harper E, Tonin H, Skuza M, Doyle J, Costello P, Davidson J, Gunn K, Wright M, Zagorskis I and Kroon F.	2018
Water quality	Assessing continuity between satellite-derived water type products	Petus, C., and Tracey, D.	Marine Monitoring Program Annual Report for inshore water quality monitoring 2016 to 2017	Appendix B	Waterhouse J, Lønborg C, Logan M, Petus C, Tracey D, Lewis S, Howley C, Harper E, Tonin H, Skuza M, Doyle J, Costello P, Davidson J, Gunn K, Wright M, Zagorskis I and Kroon F.	2018

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Water quality	Non-target suspect screening of selected passive and grab samples	n/a	Marine Monitoring Program Annual Report for inshore pesticide monitoring 2016 to 2017	7	Grant S, Thompson, K, Paxman C, Elisei G, Gallen C, Tracey D, Kaserzon S, Jiang H, Samanipur S, and Mueller J	2018
Water quality	DOC-CDOM relationships in the Great Barrier Reef Lagoon	Christian Lønborg and Cátia Carreira	Marine Monitoring Program Annual Report for inshore water quality monitoring: 2015 to 2016	Appendix A	Waterhouse J, Lønborg C, Logan M, Petus C, Tracey D, Lewis S, Tonin H, Skuza M, da Silva E, Carreira C, Costello P, Davidson J, Gunn K, Wright M, Zagorskis I, Brinkman R, Schaffelke B.	2017
Water quality	Testing pesticide modelling in the GBR marine environment to inform development of a pesticide metric	Stephen Lewis, Dieter Tracey, Hemerson Tonin, Eduardo da Silva and Rachael Smith	Marine Monitoring Program Annual Report for inshore water quality monitoring: 2015 to 2016	Appendix B	Waterhouse J, Lønborg C, Logan M, Petus C, Tracey D, Lewis S, Tonin H, Skuza M, da Silva E, Carreira C, Costello P, Davidson J, Gunn K, Wright M, Zagorskis I, Brinkman R, Schaffelke B.	2017
Water quality	A framework for defining coastal water quality target concentrations for ecosystem conservation in the Great Barrier Reef using empirical light attenuation models	Caroline Petus, Michelle Devlin, Eduardo Teixeira da Silva, Stephen Lewis, Jane Waterhouse, Amelia Wenger, Zoe Bainbridge, Dieter Tracey	Marine Monitoring Program Annual Report for inshore water quality monitoring: 2015 to 2016	Appendix C	Waterhouse J, Lønborg C, Logan M, Petus C, Tracey D, Lewis S, Tonin H, Skuza M, da Silva E, Carreira C, Costello P, Davidson J, Gunn K, Wright M, Zagorskis I, Brinkman R, Schaffelke B.	2017
Water quality	Preliminary investigation of alternative approaches for the Reef Plan Report Card Water Quality Metric report	Tracey, D., Waterhouse, J. and da Silva, E.	TropWATER Report 16/63			2017
Water quality	Detecting decadal changes in the water quality of Great Barrier Reef waters using the Cairns Time Series (CaTS) transect	Christian Lønborg, Miles Furnas, Murray Logan & Britta Schaffelke	Marine Monitoring Program Annual Report for inshore water quality monitoring: 2014 to 2015	7	Lønborg C, Devlin M, Waterhouse J, Brinkman R, Costello P, da Silva E, Davidson J, Gunn K, Logan M, Petus C, Schaffelke B, Skuza M, Tonin H, Tracey D, Wright M and Zagorskis I	2016
Water quality	Estimating the exposure of coral reefs and seagrass meadows to land-sourced contaminants in river flood plumes of the Great Barrier Reef: Validating a simple satellite risk framework with environmental data.	Petus, C., Devlin, M., Thompson, A., McKenzie, L., Teixeira da Silva, E., Collier, C., Tracey, D. and Martin, K	Published in Remote Sensing 2016: 8:210	8 in Marine Monitoring Program: Annual Report for inshore water quality monitoring: 2014 to 2015	Lønborg C, Devlin M, Waterhouse J, Brinkman R, Costello P, da Silva E, Davidson J, Gunn K, Logan M, Petus C, Schaffelke B, Skuza M, Tonin H, Tracey D, Wright M and Zagorskis I	2016

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Water quality	Case study: The importance of long-term time series in water quality monitoring	na	Reef Rescue Marine Monitoring Program. Annual Report of AIMS Activities 2012 to 2013– Inshore water quality and coral reef monitoring	3.3	Thompson A, Schaffelke B, Logan M, Costello P, Davidson J, Doyle J, Furnas M, Gunn K, Liddy M, Skuza M, Uthicke S, Wright M and Zagorskis I	2013
Water quality	Case study: Ongoing efforts to improve calibration and validation of chlorophyll estimates from WET Labs ECO FLNTUSB loggers	na	Reef Rescue Marine Monitoring Program. Annual Report of AIMS Activities 2012 to 2013– Inshore water quality and coral reef monitoring	Appendix 4	Thompson A, Schaffelke B, Logan M, Costello P, Davidson J, Doyle J, Furnas M, Gunn K, Liddy M, Skuza M, Uthicke S, Wright M and Zagorskis I	2013

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Pesticides	Non-target suspect screening of selected passive and grab samples	n/a	Marine Monitoring Program Annual Report for inshore pesticide monitoring 2016 to 2017	7	Grant S, Thompson, K, Paxman C, Elisei G, Gallen C, Tracey D, Kaserzon S, Jiang H, Samanipur S, and Mueller J	2018
Pesticide	Comparison of the multisubstance- potentially affected fraction (ms-PAF) and PSII-HEq methods	na	Marine Monitoring Program. Annual Report for inshore pesticide monitoring: 2015 to 2016	8	Grant, S., Gallen, C., Thompson, K., Paxman, C., Tracey, D. and Mueller, J.	2017
Pesticides	Comparison of the multi-substance potentially affected fraction (ms-PAF) and PSII-HEQ methods	na	Annual Report for inshore pesticide monitoring: 2014 to 2015	Appendix 17	Gallen, C., Thompson, K., Paxman, C., Devlin, M., Mueller, J.	2016