

# Marine debris publication list

## Peer-reviewed publications

Roman, L, L Lowenstine, K Gilardi, C Wilcox, BD Hardesty. 2020. **The need for attention to confirmation bias and confounding in the field of plastic pollution and wildlife impacts: Comment on 'Clinical pathology of plastic ingestion in marine birds and relationships with blood chemistry'.** Environmental Science and Technology. [Access here.](#)

Roman L, BD Hardesty, GH Leonard, H Pragnell-Raasch, N Mallos, I Campbell, et al. 2020. **A global assessment of the relationship between anthropogenic debris on land and the seafloor.** Environmental Pollution. [Access here](#)

Roman L, Q Schuyler, C Wilcox, BD Hardesty. 2020. **Plastic pollution is killing marine megafauna, but how do we prioritize policies to reduce mortality?** Conservation Letters. [Access here](#)

Roman L, F Kastury, S Petit, R Aleman, C Wilcox, BD Hardesty, et al. 2020. **Plastic, nutrition and pollution; relationships between ingested plastic and metal concentrations in the livers of two Pachyptila seabirds.** Scientific Reports. [Access here](#)

Roman L, Hardesty BD, Hindell MA, Wilcox C. 2020. **Disentangling the influence of taxa, behaviour and debris ingestion on seabird mortality.** Environmental Research Letters. [Access here](#)

Barrett, J, Z Chase, J Zhang, MM Banaszak Holl, K Willis, BD Hardesty and C Wilcox. 2020. **Microplastic pollution in deep-sea sediments from the Great Australian Bight.** Frontiers in Marine Science. [Access here](#)

Jambeck, J., E. Moss, B. Dubey, Z Arifin, L Godfrey, BD Hardesty, IG Hendrawan, TT Hien, L Junguo, M Matlock, S Pahl, K Raubenheimer, M Thiel, R Thompson and L Woodall. 2020. **Leveraging Multi-Target Strategies to Address Plastic Pollution in the Context of an Already Stressed Ocean.** Washington DC: World Resources Institute. [Access here](#)

Galloway, T, M Haward, SA Mason, JO Babayemi, BD Hardesty, S Krause, J Lamb, IA Hinojosa and A. Horton. 2020. **Science-based solutions to plastic pollution.** One Earth 2: 5-7. [Access here.](#)

Olivelli A, BD Hardesty and C Wilcox. 2020. **Coastal margins and backshores represent a major sink for marine debris: insights from a continental-scale analysis.** Environmental Research Letters. [Access here](#)

van Seville, E et al. (37 co-authors). 2020. **The physical oceanography of the transport of floating marine debris.** Environmental Research Letters. [Access here.](#)

Willis, K, BD Hardesty, J Vince and C Wilcox. 2019. **The success of water refill stations reducing single-use plastic bottle litter.** Sustainability. [Access here.](#)

Wilcox, C, BD Hardesty, KL Law. 2019. **Abundance of floating plastic particles is increasing in the Western North Atlantic Ocean.** Environmental Science and Technology. [Access here.](#)

Maximenko, N et al. (61 co-authors). 2019. **Towards the integrated marine debris observing system.** Frontiers in Marine Science. [Access here.](#)

van Seville, E, P Delandmeter, J Scholfield, BD Hardesty, J Jones and A Donnelly. 2019. **Basin-scale sources and pathways of microplastic that ends up in the Galapagos Archipelago.** Ocean Science. [Access here.](#)

Richardson, K, BD Hardesty and C Wilcox. 2019. **Estimates of fishing gear loss rates at a global scale: a literature review and meta-analysis.** Fish and Fisheries. [Access here.](#)

Compa, M, C Alomar, C Wilcox, E van Seville, L Lebreton, BD Hardesty and A Deudero. 2019. **Risk assessment of plastic pollution on marine biodiversity in the Mediterranean Sea.** Science of the Total Environment. [Access here.](#)

Hardesty BD, B Polidoro, M Compa, WJ Shim, B Wudianto and C Wilcox. 2019. **Multiple approaches to assessing the risk posed by anthropogenic plastic debris.** Marine Pollution Bulletin. [Access here.](#)

Roman L, H Patterson, K Townsend, C Wilcox, BD Hardesty and M Hindell. 2019. **The size of marine debris items ingested and retained by petrels.** Marine Pollution Bulletin. [Access here.](#)

Roman L, BD Hardesty, M Hindell and C Wilcox. 2019. **A quantitative analysis linking seabird mortality and marine debris ingestion.** Nature Scientific Reports. [Access here.](#)

Claro F, MC Fossi, C Loakeimidis, M Bains, AL Lusher, W McFee, RR McIntosh, T Pelamatti, M Sorce, F Galgani and BD Hardesty. 2019. **Tools and constraints in monitoring interactions between litter and megafauna: insights from case studies around the world.** Marine Pollution Bulletin, 141, pp.147-160. [Access here.](#)

Roman L, L Lowenstine, LM Parsley, C Wilcox, BD Hardesty, K Gilardi and M Hindell. 2019. **Is plastic ingestion as toxic as we think? Insights from a plastic feeding experiment.** Science of the total environment, 665, pp.660-667. [Access here.](#)

Roman L, E Bell, C Wilcox, BD Hardesty and M Hindell. 2019. **Ecological drivers of marine debris ingestion in Procellariiforme seabirds.** Nature Scientific Reports, 9(916). [Access here.](#)

Richardson K, R Asmutis-Silvia, J Drinkwin and E Hogan. 2019. **Building evidence around ghost gear: global trends and analysis for sustainable solutions at scale.** Marine Pollution Bulletin, 138, pp.222-229. [Access here.](#)

Wilcox C, M Puckridge, Q Schuyler, K Townsend and BD Hardesty. 2018. **A quantitative analysis linking sea turtle mortality and plastic debris ingestion.** Nature Scientific Reports, 8(12538). [Access here.](#)

Vince J and BD Hardesty. 2018. **Governance solutions to the tragedy of the commons that marine plastics have become.** Frontiers in Marine Science, 5(214). [Access here.](#)

Brennan E, C Wilcox and BD Hardesty. 2018. **Connecting flux, deposition and resuspension in coastal debris surveys.** Science of the Total Environment, 644, pp.1019-1026. [Access here.](#)

Richardson K, R Gunn, C Wilcox and BD Hardesty. 2018. **Understanding causes of gear loss provides a sound basis for fisheries management.** Marine Policy, 96, pp.278-284. [Access here.](#)

Schuyler Q, BD Hardesty, TJ Lawson, K Opie and C Wilcox. 2018. **Economic incentives reduce plastic inputs to the ocean.** Marine Policy, 96, pp.250-255. [Access here.](#)

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Worm B, HK Lotze, I Jubinville, C Wilcox and J Jambeck. 2017. **Plastic as a Persistent Marine Pollutant.** Annual Review of Environment and Resources, 42, pp.1-26. [Access here.](#)

Willis K, R Eriksen, C Wilcox and BD Hardesty. 2017. **Microplastic distribution at different sediment depths in an urban estuary.** Frontiers in Marine Science, 4(419). [Access here.](#)

Willis K, C Maureaud, C Wilcox and BD Hardesty. 2017. **How successful are waste abatement campaigns and government policies at reducing plastic waste into the marine environment?** Marine Policy, 96, pp.243-249. [Access here.](#)

Hardesty BD, J Harari, A Isobe, L Lebreton, N Maximenko, J Potemra, E van Sebille, AD Vethaak and C Wilcox. 2017. **Using numerical model simulations to improve the understanding of micro-plastic distribution and pathways in the marine environment.** Frontiers in Marine Science, 4(30). [Access here.](#)

Willis K, BD Hardesty, L Kriwoken and C Wilcox. 2017. **Differentiating littering, urban runoff and marine transport as sources of marine debris in coastal and estuarine environments.** Nature Scientific Reports, 7(44479). [Access here.](#)

Hardesty BD and C Wilcox. 2017. **A risk framework for tackling marine debris.** Analytical Methods, 9, pp.1429-1436. [Access here.](#)

Hardesty BD, TJ Lawson, T van der Velde, M Lansdell, G Perkins and C Wilcox. 2016. **Estimating quantities and sources of marine debris at a continental scale.** Frontiers in Ecology and the Environment, 15(1), pp.18-25. [Access here.](#)

Roman L, Q Schuyler, BD Hardesty and K Townsend. 2016. **Anthropogenic Debris Ingestion by Avifauna in Eastern Australia,** PLoS ONE, 11(8). [Access here.](#)

van der Velde T, DA Milton, TJ Lawson, M Lansdell, C Wilcox, G Davis, G Perkins and BD Hardesty. 2016. **Comparison of marine data collected researchers and citizen scientists. Is citizen science data worth the effort?** Biological Conservation, 208, pp.127-138. [Access here.](#)

Vince J and BD Hardesty. 2016. **Plastic pollution challenges in the marine and coastal environments: from local to global governance.** Restoration Ecology, 25(1), pp.123-128. [Access here.](#)

Wilcox C and BD Hardesty. 2016. **Biodegradable nets are not a panacea, but can contribute to addressing the ghost fishing problem.** Animal Conservation. [Access here.](#)

Wilcox C, E van Sebille and BD Hardesty. 2015. **The threat of plastic pollution to seabirds is global, pervasive and increasing.** Proceedings of the National Academy of Sciences, 112(38), pp.11899-11904. [Access here.](#)

van Sebille E, C Wilcox, L Lebreton, N Maximenko, BD Hardesty, J van Franeker, M Erikson, D Siegel, F Galgani and KL Law. 2015. **A global inventory of small floating plastic debris.** Environmental Research Letters, 10(12). [Access here.](#)

Schuyler Q, C Wilcox, K Townsend, KR Wedemeyer-Strombel, G Balazs, E van Sebille and BD Hardesty. 2015. **Risk assessment reveals hotspots for marine debris ingestion by sea turtles.** Global Change Biology, 22(2), pp.567-576. [Access here.](#)

Wilcox C, N Mallos, GH Leonard, A Rodriguez and BD Hardesty. 2015. **Using expert elicitation to estimate the impacts of plastic pollution on marine wildlife.** Marine Policy, 65, pp.107-114. [Access here.](#)

Jambeck, JA, R Geyer, C Wilcox, T. Siegler, M. Perryman, Andrady, R. Marayan and KL Law. 2015. **Plastic waste inputs to the oceans from land.** Science, 347(6223), pp.768-771. [Access here.](#)

Hardesty BD, T Good and C Wilcox. 2015. **Novel methods, new results and science-based solutions to tackle marine debris impacts on wildlife.** Ocean and Coastal Management, 115, pp.4-9. [Access here.](#)

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Hardesty BD, D Holdsworth, A Revill and C Wilcox. 2015. **A biochemical approach for identifying plastics exposure in live wildlife.** Methods in Ecology and Evolution, 6(1), pp.92-98. [Access here.](#)

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Wilcox C, G Heathcote, J Goldberg, R Gunn, D Peel and BD Hardesty. 2014. **Understanding the sources, drivers and impacts of abandoned, lost and discarded fishing gear in northern Australia.** *Conservation Biology*, 29(1), pp.198-206. [Access here.](#)

Reisser J, J Shaw, G Hallegraeff, M Proietti, D Barnes, M Thums, C Wilcox, BD Hardesty and C Pattiaratchi. 2014. **Millimeter-sized marine plastics: a new pelagic habitat for microorganisms and invertebrates.** *PLoS ONE*, 9(6). [Access here.](#)

Schuyler Q, K Townsend, C Wilcox, BD Hardesty and J Marshall. 2014. **Mistaken identity? Visual similarities of marine debris to natural prey items of sea turtles.** *BMC Ecology*, 14(14). [Access here.](#)

Reisser J, J Shaw, C Wilcox, BD Hardesty, M Proietti, M Thums and C Pattiaratchi. 2013. **Marine plastic pollution in waters around Australia: characteristics, concentrations and pathways.** *PLoS ONE*, 8(11). [Access here.](#)

Acampora, H, Q Schuyler, K Townsend and BD Hardesty. 2013. **Comparing plastic ingestion between juvenile and adult stranded Short-tailed Shearwaters (*Puffinus tenuirostris*) in Eastern Australia.** *Marine Pollution Bulletin*, 78(1-2), pp.63-68. [Access here.](#)

Schuyler Q, BD Hardesty, C. Wilcox and K Townsend. 2013. **A global analysis of anthropogenic debris ingestion by sea turtles.** *Conservation Biology*, 28(1), pp.120-139. [Access here.](#)

Butler JRA, R Gunn, HL Berry, GA Wagey, BD Hardesty and C Wilcox. 2013. **A value chain analysis of ghost nets in the Arafura Sea: Identifying trans-boundary stakeholders, intervention points and livelihood trade-offs.** *Journal of Environmental Management*, 123, pp.14-25. [Access here.](#)

Wilcox C, BD Hardesty, R Sharples, DA Griffin, TJ Lawson and R Gunn. 2013. **Ghost net impacts on globally threatened turtles, a spatial risk analysis for northern Australia.** *Conservation Letters*, 6(4), pp.247-254. [Access here.](#)

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Gunn R, BD Hardesty and J Butler. 2010. **Tackling 'ghost nets': Local solutions to a global issue in northern Australia.** *Ecological Management and Restoration*, 11(2), pp.88-98. [Access here.](#)

Donlan CJ, DK Wingfield, LB Crowder and C Wilcox. 2010. **Using expert opinion surveys to rank threats to endangered species: a case study with sea turtles.** *Conservation Biology*, 24(6), pp.1586-1595. [Access here.](#)

## Publications in process

Roman, L, R Butcher, D Stewart, S Hunter, P Kowalski, P, BD Hardesty, B Lenting. 2020. **Plastic ingestion is an underestimated cause of death for southern hemisphere albatrosses.** *Accepted.* *Conservation Letters*.

Willis, K, CS Goncalves, K Richardson, QA Schuyler, H Pedersen, K Anderson, J Stark, J Vince, BD Hardesty, C Wilcox, B Nowak, JL Lavers, JM Semmens, D Greeno, C McLeod, N Frederiksen and PS Puskic. 2020. **Cleaner seas: reducing marine pollution.** *In press.* *Reviews in Fish Biology and Fisheries*.

Willis, K, BD Hardesty and C Wilcox. **State and local pressures drive plastic pollution compliance strategies.** *In review.* *Proceedings of the National Academy of Sciences of the USA*.

Hardesty, BD, L Roman, GH Leonard, N Mallos, H Pragnell-Raasch, I Campbell, C Wilcox. 2020. **Socioeconomic effects on global hotspots of common debris items on land and the seafloor.** *In review.* *Global Environmental Change*.

Hardesty, BD, QA Schuyler, G Leonard, S Lippiatt, Amy Uhrin, C Herring, TJ Lawson and C Wilcox. 2020. **Designing surveys and using litter data to answer questions about the sources, fates, impacts of and solutions to marine debris.** *In review.* *Frontiers in Environmental Science*.

Schuyler, QA, C Wilcox, TJ Lawson RRMKP Ranatunga, C-S Hu, Global Plastics Project Partners and BD Hardesty. 2020. **Human population density is a poor predictor of debris in the environment.** *In review.* *Frontiers in Environmental Science*.

Roman, L, BD Hardesty, M Hindell, and Wilcox, C. 2020. **Estimating global seabird mortality from plastic pollution.** *In review.* *Frontiers in Ecology and the Environment*.

Velis, C., BD Hardesty, J Cottom and C Wilcox. 2020. **Enabling the informal recycling sector to prevent plastic pollution – a rapid, inexpensive solution, benefitting workers and the environment.** *In review.* *Global Environmental Change*.

## Book Chapters

Stoll T, P Stoett, J Vince and BD Hardesty. 2020. **Governance and measures for the prevention of marine debris.** Book chapter in *Handbook of microplastics in the environment.* [Access here.](#)

Hardesty BD, P Sobral, S Barry and C Wilcox. 2017. **Ocean Pollution: risks, costs and consequences.** Book chapter in *Oceans: Science and Solutions for Australia.* CSIRO Publishing. [Access here.](#)

## Selected popular articles, edited volumes, conference proceedings and technical reports (2010-present)

Grémillet, D, BD Hardesty, HK Lotze, D Obura, D Pauly, Y-J Shin, UR Sumaila. 2021. **The oceans and COVID-19: A ten-point agenda for action**, p. 41-44. In: D. Pauly and E. Chu (eds). *Marine and Freshwater Miscellanea III*. Fisheries Centre Research Reports 29(1). [Access here](#).

Butler, Richelle, BD Hardesty and L Roman. 17 February 2021. **Plastic in the ocean kills more threatened albatrosses than we thought**. The Conversation. [Access here](#).

CSIRO Marine Debris Team, February 2021. **Global Plastic Leakage Baseline Data Summary Report, Cape Town, South Africa**. CSIRO, Australia. EP211106.

CSIRO Marine Debris Team, February 2021. **Global plastics leakage baseline data summary report, Chandpur, Bangladesh**. CSIRO, Australia. EP211104.

CSIRO Marine Debris Team, February 2021. **Global plastics leakage baseline data summary report, Durban, South Africa**. CSIRO, Australia. EP211107.

CSIRO Marine Debris Team, February 2021. **Global Plastics Leakage Baseline Data Summary Report, Kisumu, Kenya**. CSIRO, Australia. EP211109.

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CSIRO Marine Debris Team, February 2021. **Global plastics leakage baseline data summary report, Mahé, Seychelles**. CSIRO, Australia. EP196997. [Access here](#).

CSIRO Marine Debris Team, February 2021. **Global plastics leakage baseline data summary report, Mombasa, Kenya**. CSIRO, Australia. EP196996.

Schuyler Q, BD Hardesty, TJ Lawson, J Barrett, V Mann, and C Wilcox (2020) **Global Plastics Leakage Baseline Data Summary Report, Shanghai, China**. CSIRO, Australia. EP197493.

CSIRO Marine Debris Team and Center for Marine Science and Technology, University of Sri Jayewardenepura, Nugegoda, Sri Lanka team, February 2021. **Global plastics leakage baseline data summary report, Sri Lanka**. CSIRO, Australia. EP197472.

CSIRO Marine Debris Team, February 2021. **Global plastics leakage baseline data summary report, Taiwan**. CSIRO, Australia. EP197477. [Access here](#).

CSIRO Marine Debris Team and GreenHub, February 2021. **Global Plastics Leakage Baseline Data Summary Report, Viet Nam**. CSIRO, Australia. EP197486.

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Roman, L, BD Hardesty, C Wilcox and Q Schuyler. 14 December 2020. **These are the plastic items that most kill whales, dolphins, turtles and seabirds**. The Conversation. [Access here](#).

Olivelli, A and U Rosebrock. 1 December 2020. **From Hobart to London, to Dhaka: using cameras and AI to build an automatic litter detection system**. The Conversation. [Access here](#).

Hardesty, BD, C Wilcox and J Barrett. 6 October 2020. **We estimate up to 14 million tonnes of microplastic lie on the sea floor. It's worse than we thought**. The Conversation. [Access here](#).

Hardesty BD and C Wilcox. 13 March 2020. **For decades, scientists puzzled over the plastics 'missing' from our oceans – but now it's been found**. The Conversation. [Access here](#).

Denise Hardesty features in this article by One Earth called **Science-based solutions to plastic pollution** (2020). [Access here](#).

Roman, L. November 2018. **Assessing the risks of marine debris ingestion to Procellariiform seabirds**, (doctoral dissertation). Institute for Marine and Antarctic Studies, University of Tasmania. [Access here](#).

Hardesty BD, R Gunn and C Wilcox. 20 October 2019. **Addressing ghost nets in Australia and beyond – update of EMR feature**. Journal of Ecological Management & Restoration. [Access here](#).

Schuyler Q, BD Hardesty and C Wilcox. 20 February 2018. **Deposit schemes reduce drink containers in the ocean by 40%**. The Conversation. [Access here](#).

Hardesty BD, Q Schuyler, K Willis, TJ Lawson and C Wilcox. 2017. **Policy and Practices Analysis to Reduce Debris Inputs to the Environment Phase II**. A Final Report to the National Packaging Covenant Industry Association. CSIRO: EP178048.

Hardesty BD, Q Schuyler, K Willis, TJ Lawson and C Wilcox. 2017. **Assessing the effectiveness of waste management in reducing the levels of plastics entering Australia's marine environment**. A final report to the National Environmental Science Programme Marine Biodiversity Hub. CSIRO. [Access here](#).

Hardesty BD, Q Schuyler, TJ Lawson, K Opie and C Wilcox. 2016. **Understanding debris sources and transport from the coastal margin to the ocean**. A final report to the Australian Packaging Covenant Organisation Ltd.

Hardesty BD, C Wilcox, Q Schuyler, TJ Lawson and K Opie. 2016. **Developing a baseline estimate of amounts, types, sources and distribution of coastal litter – an analysis of US marine debris data**. A final report for Ocean Conservancy and the National Oceanic and Atmospheric Administration of the United States. [Access here](#).

Hardesty BD and C Wilcox. 2015. **Modelling and monitoring marine litter movement, transport and accumulation. The state of knowledge on litter in the marine environment**. A final report to the United Nations Environment Program. [Access here](#).



Hardesty BD, L Lebreton and C Wilcox. 2015. **Plastics accumulation and monitoring efforts around the globe**. A final report to the United Nations Environment Program. [Access here.](#)

Hardesty BD and C Wilcox. 2015. **Modelling and monitoring of marine litter**. A final report to the United Nations Environment Program. [Access here.](#)

Hardesty BD and C Wilcox. 2015. **Modelling workshop summary report**. A final report to the United Nations Environment Program. [Access here.](#)

Hardesty BD and C Wilcox. 13 February 2015. **Eight million tons of plastic are going into the ocean each year**. The Conversation [Access here.](#)

Hardesty BD and C Wilcox. 15 September 2014. **The oceans are full of our plastic – here's what we can do about it**. The Conversation. [Access here.](#)

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Acampora H, BD Hardesty, K Townsend and K Erzini. 2014. **Plastic ingestion by short-tailed shearwaters (*Puffinus tenuirostris*) in northern Australia**. Proceedings of the International workshop on fate and impacts of microplastics in marine ecosystems.

Hardesty BD, C Wilcox, J Butler and R Gunn. 2013. **Exploring sources, impacts and methods for amelioration of ghost nets as a threat to marine species**. A final report of the CSIRO and GhostNets Australia Partnership: 2009-2013.

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Hardesty BD and C Wilcox. 31 January 2013. **Ghostnets fish on: marine rubbish threatens northern Australian turtles**. The Conversation. [Access here.](#)

Hardesty BD and C Wilcox. 2011. **Understanding the types, sources and at-sea distribution of marine debris in Australian Waters**. Final report to the Department of Sustainability, Environment, Water, Health, Population and Communities. [Access here.](#)

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Hardesty BD and C Wilcox. 23 August 2011. **Marine debris: biodiversity impacts and potential solutions**. The Conversation. [Access here.](#)

Wilcox C and BD Hardesty. 2011. **Cluster Analysis: a novel approach to identify types of derelict nets that comprise ghost nets**. Final Report to GhostNets Australia and the Northern Gulf Resource Management Group. [Access here.](#)

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