

# Marine debris publication list

## Peer-reviewed publications

### 2022

Richardson, K, BD Hardesty, J Vince and C Wilcox. 2022. **Global estimates of fishing gear lost to the ocean each year**, Science Advances, 8, 41. [Access here.](#)

Roman, L, BD Hardesty and Q Schuyler. 2022. **A systematic review and risk matrix of plastic litter impacts on aquatic wildlife: A case study of the Mekong and Ganges River Basins**, Science of The Total Environment, 843. [Access here.](#)

Velis, CA, BD Hardesty, JW Cottom and C Wilcox. 2022. **Enabling the informal sector to prevent plastic pollution and deliver an inclusive circular economy**, Environmental Science and Policy, 138, 20-25. [Access here.](#)

Hardesty, BD, K Willis and J Vince. 2022. **An imperative to focus the plastic pollution problem on placed-based solutions**, Frontiers in Sustainability. [Access here.](#)

Compa, M, C Wilcox, BD Hardesty, C Alomar, D March and S Deudero. 2022. **Quantifying the risk of plastic ingestion by ichthyofauna in the Balearic Islands (western Mediterranean Sea)**, Marine Pollution Bulletin, 183. [Access here.](#)

Willis, K, BD Hardesty, J Vince and C Wilcox. 2022. **Local waste management successfully reduces coastal plastic pollution**, One Earth. [Access here.](#)

Nguyen, TTT, NH Ha, TKL Bui, KLP Nguyen, DPT Tran, HQ Nguyen, A El-Arini, Q Schuyler and TTL Nguyen. 2022. **Baseline Marine Litter Surveys along Vietnam Coasts Using Citizen Science Approach**, Sustainability, 14, 9:4919, [Access here.](#)

Schuyler, Q, BD Hardesty, TJ Lawson and C Wilcox. 2022. **Environmental context and socio-economic status drive plastic pollution in Australian cities**, Environmental Research Letters, 17, 4. [Access here.](#)

Chen, CK, J Zhang, A Bhingarde, T Matotek, J Barrett, BD Hardesty, MM Banaszack-Holl and BL Khoon. 2022. **A portable purification system for the rapid removal of microplastics from environmental samples**, Chemical Engineering Journal, 428, 132614. [Access here.](#)

### 2021

Yamashita, R, N Hiki, F Kashiwada, H Takada, BD Hardesty, L Roman, D Hyrenbach, et al. 2021. **Plastic additives and legacy persistent organic pollutants (POPs) in preen gland oil from seabirds sampled across the globe**, Environmental Monitoring and Contaminants Research, 1, 97-112. [Access here.](#)

Hardesty, BD, L Roman, NC Duke, JR Mackenzie and C Wilcox. 2021. **Abandoned, lost and derelict fishing gear 'ghost nets' are increasing through time in Northern Australia**, Marine Pollution Bulletin, 173A, 112959. [Access here.](#)

Roman, L, A Warmbrunn, TJ Lawson, K Willis, C Wilcox and BD Hardesty. 2021. **Comparing marine debris on inhabited mainland beaches, coastal islands and uninhabited remote islands: a case study from Queensland and the Coral Sea, Australia**, Marine Pollution Bulletin, 172, 112919. [Access here.](#)

Hardesty, BD, L Roman, GH Leonard, N Mallos, H Pragnell-Raasch, I Campbell, C Wilcox. 2021. **Socioeconomic effects on global hotspots of common debris items on land and the seafloor**, Global Environmental Change. [Access here.](#)

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. 2021. **Cleaner seas: reducing marine pollution**, Reviews in Fish Biology and Fisheries. [Access here.](#)

Willis, K, BD Hardesty and C Wilcox. 2021. **State and local pressures drive plastic pollution compliance strategies**, Journal of Environmental Management, 289, 112281. [Access here.](#)

Richardson, K, BD Hardesty, JZ Vince and C Wilcox. 2021. **Global causes, drivers and prevention measures for lost fishing gear**, Frontiers in Marine Science, Marine Pollution. [Access here.](#)

Richardson, K, C Wilcox, JZ Vince and BD Hardesty. 2021. **Challenges and misperceptions around global fishing gear loss estimates**, Marine Policy, 129, 104522. [Access here.](#)

Wilcox C, N Carlile, BD Hardesty and T Reid. 2021. **Multi-decadal population dynamics of Flesh-footed Shearwaters considering multiple mortality sources.** Nature Scientific Reports, 11, 7196. [Access here.](#)

Schuyler, QA, C Wilcox, TJ Lawson, RRMKP Ranatunga, C-S Hu, Global Plastics Project Partners and BD Hardesty. 2021. **Human population density is a poor predictor of debris in the environment.** Frontiers in Environmental Science. [Access here.](#)

Roman, L, L Lowenstine, K Gilardi, C Wilcox, BD Hardesty. 2021. **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, 55, 1, pp. 801-804. [Access here.](#)

## 2020

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.** Conservation Letters, 14, 3. [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, 264, 114663. [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, 14, 2. [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, 10, 18023. [Access here.](#)

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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, 15, 074037. [Access here.](#)

van Sebillle, E et al. (37 co-authors). 2020. **The physical oceanography of the transport of floating marine debris.** Environmental Research Letters, 15, 023002. [Access here.](#)

## 2019

Willis, K, BD Hardesty, J Vince and C Wilcox. 2019. **The success of water refill stations reducing single-use plastic bottle litter.** Sustainability, 11, 19, 5232. [Access here.](#)

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van Sebillle, 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, 15, 5, pp. 1341-1349. [Access here.](#)

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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.](#)

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## 2016 - 2018

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Jambeck J, BD Hardesty, AL Brooks, T Friend, K Teleki, J Fabres, Y Beaudoin, A Bamba, J Francis, AJ Ribbink, T Baleta, H Bouwman, J Knox and C Wilcox. 2017. **Challenges and emerging solutions to the land-based plastic waste issue in Africa.** Marine Policy, 96, pp.256-263. [Access here.](#)

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.](#)

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## 2010 - 2015

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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.](#)

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## 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)

Hardesty, BD, C Wilcox, J Vince and K Richardson. 13 Oct 2022. **740,000km of fishing line and 14 billion hooks: we reveal just how much fishing gear is lost at sea each year.** *The Conversation*. [Access here.](#)

Willis, K, BD Hardesty and C Wilcox. 9 June 2022. **Local efforts have cut plastic waste on Australia's beaches by almost 30% in 6 years.** *The Conversation*. [Access here.](#)

COBSEA & CSIRO. 2022. **Regional guidance on harmonized national marine litter monitoring programmes. Monitoring Efforts and recommendations for national marine monitoring programmes.** Bangkok: UNEP. [Access here.](#)

Schuyler, QA, L Roman, BD Hardesty and C Wilcox C. 2021. **Assessment of plastic hotspots in the Lower Mekong and Ganga River Basins. Priority intervention areas for preventing, combating and removal of plastic in areas important for migratory species. A methodology and risk analysis.** CSIRO, Australia. EP 2021-2987. [Access here.](#)

Roman, L, BD Hardesty, C Wilcox. 16 September 2021. **We analysed data from 29,798 clean-ups around the world to uncover some of the worst litter hotspots.** *The Conversation*. [Access here.](#)

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

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CSIRO Marine Debris Team, February 2021. **Global plastics leakage baseline data summary report, Chandpur, Bangladesh.** CSIRO, Australia. EP211104. [Access here.](#)

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CSIRO Marine Debris Team, February 2021. **Global Plastics Leakage Baseline Data Summary Report, Lima, Peru.** CSIRO, Australia. EP194093. [Access here.](#)

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

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CSIRO Marine Debris Team, February 2021. **Global Plastics Leakage Baseline Data Summary Report, Shanghai, China.** CSIRO, Australia. EP197493. [Access here.](#)

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. [Access here.](#)

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. [Access here.](#)

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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.](#)

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

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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.](#)

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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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