

# Marine debris publication list

## Peer-reviewed publications

### 2024

Le, PTD, BD Hardesty, HJ Auman and AM Fisher. 2024. **Frontal processes as drivers of floating marine debris in coastal areas.** Marine Environmental Research, 200, 106654, [Access here](#).

Willis, KA, I Van Putten, and BD Hardesty. 2024. **Addressing cultural context is needed in solutions to plastic pollution is the missing piece in policy and action plan discussions.** Environmental Science and Policy, 159, 103829, [Access here](#).

Zhu, X., CM Rochman, BD Hardesty and C Wilcox. 2024. **Plastics in the deep sea – a global estimate of the ocean floor reservoir.** Deep Sea Research Part I. Oceanographic Research Papers, 206, 104266, [Access here](#).

Cowger, W, KA Willis, S Bullock, K Conlon, J Emmanuel, LM Erdle, M Eriksen, TS Farrelly, BD Hardesty, K Kerge, N Li, Y Li, A Liebman, N Tangri, M Thiel, P Villarubia-Gomez, TR Walker, M Wang. 2024. **Global producer responsibility for plastic pollution.** Science Advances, 10, 17, [Access here](#).

Le, PTD, AM Fischer, BD Hardesty, HJ Auman, C Wilcox. 2024. **Relationship between floating marine debris accumulation and coastal fronts in the NE coast of the USA.** Marine Pollution Bulletin, 198, 115818, [Access here](#).

### 2023

Reid, T, QA Schuyler, C Wilcox, R Mofokeng and BD Hardesty. 2023. **Debris surveys in three African cities demonstrate local clean-up efforts,** Sustainability, 15(9), 7583. [Access here](#).

Hendrawan, IG, PBP Pamungkas, MN Adibhusana, IPRF Maharta, RA Saraswati, C Wilcox and BD Hardesty. 2023. **Characteristics and distribution of stranded plastic pollution on Bali Conservation Areas,** Marine Pollution Bulletin, 197, 115770, [Access here](#).

Perez-Venegas, DJ, BD Hardesty, C Wilcox and C Galban-Malagon. 2023. **The hotspots of entanglement for pinnipeds of the world,** Marine Pollution Bulletin, 195, 115491, [Access here](#).

Fortibuoni, T, J Jambeck, BD Hardesty, AM Addamo and OC Basurko. 2023. **The plastics problem - Pathways towards sustainable solutions against plastic pollution,** Frontiers in Sustainability Waste Management, 4, [Access here](#).

Schuyler, Q, L Roman, TJ Lawson and BD Hardesty. 2023. **Modelling the relative risk of plastic pollution to migratory wildlife in the Ganges and Mekong river basins,** Environmental Research Letters, 18, 074019, [Access here](#).

Ranatunga, RRMKP, D Wijetunge, C-C Hung, S-Y Liu, QA Schuyler, TJ Lawson and BD Hardesty. 2023. **Ranking Sri Lanka among the world's top polluters: does model data change the story?** Sustainability, 15(3), 2687. [Access here](#).

Senathirajah, K, M Bonner, Q Schuyler, T Palinisami. 2023. **A disaster risk reduction framework for the new global instrument to end plastic pollution,** Journal of Hazardous Materials, Volume 449. [Access here](#).

Mofokeng, RP, A Faltynkova, MB Alfonso, I Boujmil, IRB Carvalho, K Lunzalu, NB Mohd Zanuri, ES Nyadjro, PS Puskic, D J Lindsay, K Willis, TM Adyel, C Serra-Gonçalves, A Zolich, TS Eriksen, HC Evans, D Gabriel, S Hajbane, G Suaria, KL Law, and D Lobelle. 2023. **The future of ocean plastics: designing diverse collaboration frameworks,** ICES Journal of Marine Science, fsad055. [Access here](#).

Hansen, HH, E Bergman, IG Cowx, L Lind, VH Pauna and K Willis. 2023. **Resilient rivers and connected marine systems: A review of mutual sustainability opportunities,** Global Sustainability, 6, E2. [Access here](#).

### 2022

Willis, K, T Jones, R Cohen, H Burgess, J Lindsey and J Parish. 2022. **Using long-term citizen science data to distinguish zones of debris accumulation,** Marine Pollution Bulletin, 182, 114028. [Access here](#).

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 place-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

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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.](#)

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## 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.](#)

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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](#).

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

van Sebille, 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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**successful are waste abatement campaigns and government policies at reducing plastic waste into the marine environment?** Marine Policy, 96, pp.243-249. [Access here.](#)

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## 2010 - 2015

Wilcox C, E van Seville 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.](#)

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## Book Chapters

Hardesty, BD, K Willis, J Barrett and C Wilcox (eds). 2023. **Ending Plastic Waste, Community Actions Around the World.** CSIRO publishing, CABI Publishing.

Vince, J, TR Walker, KA Willis, PJ Stoett, V Komyakova, BD Hardesty, J Schofield, J van Leeuwen, and K Townsend. 2024. **Governance and socio-ecological aspects of plastic pollution in coastal and marine environments.** In *Treatise on Estuarine and Coastal Science*, 2<sup>nd</sup> Edition. Elsevier Books.

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.](#)

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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, Shanghai, China.** CSIRO, Australia. EP197493. [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.](#)

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.](#)

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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.

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#### CONTACT US

**t** 1300 363 400  
+61 3 9545 2176  
**e** [enquiries@csiro.au](mailto:enquiries@csiro.au)  
**w** [www.csiro.au](http://www.csiro.au)

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#### FOR FURTHER INFORMATION

**Oceans and Atmosphere**  
Britta Denise Hardesty  
**e** [denise.hardesty@csiro.au](mailto:denise.hardesty@csiro.au)