

References

- 5 Gyres Institute, 2014. Summary of the 2014 expedition to study plastic marine pollution across the subtropical and subpolar gyres of the North Atlantic.
- Access Alliance Multicultural Health and Community Services, 2011. Community-Based Research Toolkit: Resource for Doing Research with Community for Social Change. Access Alliance Multicultural Health and Community Services, Toronto.
- Al-Masroori, H., Al-Oufi, H., McIlwain, J.L., McLean, E., 2004. Catches of lost fish traps (ghost fishing) from fishing grounds near Muscat, Sultanate of Oman. Fish. Res. 69, 407–414. doi:10.1016/j.fishres.2004.05.014
- Anastasopoulou, A., Mytilineou, C., Smith, C.J., Papadopoulou, K.N., 2013. Plastic debris ingested by deep-water fish of the Ionian Sea (Eastern Mediterranean). Deep Sea Res. Part Oceanogr. Res. Pap. 74, 11–13. doi:10.1016/j.dsr.2012.12.008
- Andrady, A.L., 2011. Microplastics in the marine environment. Mar. Pollut. Bull. 62, 1596–1605. doi:10.1016/j.marpolbul.2011.05.030
- Andrady, A.L. (Ed.), 2003. Plastics and the environment. John Wiley & Sons, Inc., Hoboken, New Jersey.
- Andrady, A.L., 1994. Assessment of Environmental Biodegradation of Synthetic Polymers. J. Macromol. Sci. Part C 34, 25–76. doi:10.1080/15321799408009632
- Antonelis, K., Huppert, D., Velasquez, D., June, J., 2011. Dungeness Crab Mortality Due to Lost Traps and a Cost–Benefit Analysis of Trap Removal in Washington State Waters of the Salish Sea. North Am. J. Fish. Manag. 31, 880–893. doi:10.1080/02755947.2011.590113
- Arctic Monitoring and Assessment Programme, 2015. AMAP Assessment 2015: Human Health in the Arctic. Oslo, Norway.
- Arnot, J.A., Gobas, F.A., 2006. A review of bioconcentration factor (BCF) and bioaccumulation factor (BAF) assessments for organic chemicals in aquatic organisms. Environ. Rev. 14, 257–297. doi:10.1139/a06-005
- Arthur, C., Sutton-Grier, A.E., Murphy, P., Bamford, H., 2014. Out of sight but not out of mind: Harmful effects of derelict traps in selected U.S. coastal waters. Mar. Pollut. Bull. 86, 19–28. doi:10.1016/j.marpolbul.2014.06.050
- Auman, H.J., Ludwig, J.P., Giesy, J.P., 1998. Plastic ingestion by Laysan Albatross chicks on Sand Island, Midway Atoll, in 1994 and 1995. ResearchGate.
- Avery-Gomm, S., Valliant, M., Schacter, C.R., Robbins, K.F., Liboiron, M., Daoust, P.-Y., Rios, L.M., Jones, I.L., 2016. A study of wrecked Dovekies (*Alle alle*) in the western North Atlantic highlights the importance of using standardized methods to quantify plastic ingestion. Mar. Pollut. Bull. 113, 75–80. doi:10.1016/j.marpolbul.2016.08.062
- Avio, C.G., Gorbi, S., Regoli, F., 2015. Experimental development of a new protocol for extraction and characterization of microplastics in fish tissues: First observations in commercial species from Adriatic Sea. Mar. Environ. Res., Particles in the Oceans: Implication for a safe marine environment 111, 18–26. doi:10.1016/j.marenvres.2015.06.014
- Azzarello, M.Y., Van Vleet, E.S., 1987. Marine birds and plastic pollution. Mar. Ecol. Prog. Ser. 37, 295–303.

- Bakir, A., O'Connor, I.A., Rowland, S.J., Hendriks, A.J., Thompson, R.C., 2016. Relative importance of microplastics as a pathway for the transfer of hydrophobic organic chemicals to marine life. *Environ. Pollut.* 219, 56–65.
doi:10.1016/j.envpol.2016.09.046
- Balazs, G.H., 1985. Impact of ocean debris on marine turtles: entanglement and ingestion, in: Proceedings of the Workshop on the Fate and Impacts of Marine Debris. NOAA, Honolulu, pp. 387–429.
- Barnes, D.K.A., Galgani, F., Thompson, R.C., Barlaz, M., 2009. Accumulation and fragmentation of plastic debris in global environments. *Philos. Trans. R. Soc. B Biol. Sci.* 364, 1985–1998. doi:10.1098/rstb.2008.0205
- Bergmann, M., Gutow, L., Klages, M. (Eds.), 2015. *Marine Anthropogenic Litter*. Springer, Switzerland.
- Besseling, E., Wegner, A., Foekema, E.M., van den Heuvel-Greve, M.J., Koelmans, A.A., 2013. Effects of Microplastic on Fitness and PCB Bioaccumulation by the Lugworm *Arenicola marina* (L.). *Environ. Sci. Technol.* 47, 593–600. doi:10.1021/es302763x
- Bjorndal, K.A., Bolten, A.B., Lagueux, C.J., 1994. Ingestion of marine debris by juvenile sea turtles in coastal Florida habitats. *Mar. Pollut. Bull.* 28, 154–158. doi:10.1016/0025-326X(94)90391-3
- Boerger, C.M., Lattin, G.L., Moore, S.L., Moore, C.J., 2010. Plastic ingestion by planktivorous fishes in the North Pacific Central Gyre. *Mar. Pollut. Bull.* 60, 2275–2278. doi:10.1016/j.marpolbul.2010.08.007
- Bond, A.L., Lavers, J.L., 2013. Effectiveness of emetics to study plastic ingestion by Leach's Storm-petrels (*Oceanodroma leucorhoa*). *Mar. Pollut. Bull.* 70, 171–175.
doi:10.1016/j.marpolbul.2013.02.030
- Bond, A.L., Provencher, J.F., Daoust, P.-Y., Lucas, Z.N., 2014. Plastic ingestion by fulmars and shearwaters at Sable Island, Nova Scotia, Canada. *Mar. Pollut. Bull.* 87, 68–75.
doi:10.1016/j.marpolbul.2014.08.010
- Bond, A.L., Provencher, J.F., Elliot, R.D., Ryan, P.C., Rowe, S., Jones, I.L., Robertson, G.J., Wilhelm, S.I., 2013. Ingestion of plastic marine debris by Common and Thick-billed Murres in the northwestern Atlantic from 1985 to 2012. *Mar. Pollut. Bull.* 77, 192–195. doi:10.1016/j.marpolbul.2013.10.005
- Boudreau, S.A., Yan, N.D., 2004. Auditing the accuracy of a volunteer-based surveillance program for an aquatic invader *Bythotrephes*. *Environ. Monit. Assess.* 91, 17–26.
- Bråte, I.L.N., Eidsvoll, D.P., Steindal, C.C., Thomas, K.V., 2016. Plastic ingestion by Atlantic cod (*Gadus morhua*) from the Norwegian coast. *Mar. Pollut. Bull.* 112, 105–110.
doi:10.1016/j.marpolbul.2016.08.034
- Breen, P.A., 1987. Mortality of Dungeness Crabs Caused by Lost Traps in the Fraser River Estuary, British Columbia. *North Am. J. Fish. Manag.* 7, 429–435. doi:10.1577/1548-8659(1987)7<429:MODCCB>2.0.CO;2
- British Plastics Federation, n.d. A History of Plastics [WWW Document]. Plastipedia. URL http://www.bpf.co.uk/Plastipedia/Plastics_History/Default.aspx (accessed 12.28.16).
- Browne, M.A., Crump, P., Niven, S.J., Teuten, E., Tonkin, A., Galloway, T., Thompson, R., 2011. Accumulation of Microplastic on Shorelines Worldwide: Sources and Sinks. *Environ. Sci. Technol.* 45, 9175–9179. doi:10.1021/es201811s
- Browne, M.A., Galloway, T., Thompson, R., 2007. Microplastic—an emerging contaminant of potential concern? *Integr. Environ. Assess. Manag.* 3, 559–561.
doi:10.1002/ieam.5630030412

- Browne, M.A., Niven, S.J., Galloway, T.S., Rowland, S.J., Thompson, R.C., 2013. Microplastic Moves Pollutants and Additives to Worms, Reducing Functions Linked to Health and Biodiversity. *Curr. Biol.* 23, 2388–2392. doi:10.1016/j.cub.2013.10.012
- Bugoni, L., Krause, L., Virgínia Petry, M., 2001. Marine Debris and Human Impacts on Sea Turtles in Southern Brazil. *Mar. Pollut. Bull.* 42, 1330–1334. doi:10.1016/S0025-326X(01)00147-3
- Bu-Olayan, A.H., Thomas, B.V., 2015. Combined toxicity of mercury and plastic wastes to crustacean and gastropod inhabiting the waters in Kuwait. *J. Environ. Biol. Lucknow* 36, 1291–1296.
- Cadogan, D.F., Howick, C.J., 2000. Plasticizers, in: Ullmann's Encyclopedia of Industrial Chemistry. Wiley-VCH Verlag GmbH & Co. KGaA.
- Camedda, A., Marra, S., Matiddi, M., Massaro, G., Coppa, S., Perilli, A., Ruiu, A., Briguglio, P., de Lucia, G.A., 2014. Interaction between loggerhead sea turtles (*Caretta caretta*) and marine litter in Sardinia (Western Mediterranean Sea). *Mar. Environ. Res.*, Large marine vertebrates as sentinels of GES in the European MSFD 100, 25–32. doi:10.1016/j.marenvres.2013.12.004
- Carpenter, E.J., Anderson, S.J., Harvey, G.R., Miklas, H.P., Peck, B.B., 1972. Polystyrene spherules in coastal waters. *Science* 178, 749–750.
- Carpenter, E.J., Smith, K.L., 1972. Plastics on the Sargasso Sea Surface. *Science* 175, 1240–1241.
- Carr, A., 1987. Impact of nondegradable marine debris on the ecology and survival outlook of sea turtles. *Mar. Pollut. Bull.* 18, 352–356. doi:10.1016/S0025-326X(87)80025-5
- Carr, A.J.L., 2004. Policy Reviews and Essays. *Soc. Nat. Resour.* 17, 841–849. doi:10.1080/08941920490493846
- Cawthron, M.W., 1985. Entanglement in, and ingestion of plastic litter by marine mammals, sharks, and turtles in New Zealand waters, Proceedings of the workshop on the fate and impact of marine debris, 27-29 November 1984. NMFS, Honolulu, Hawaii.
- Choy, A., Drazen, J.C., 2013. Plastic for dinner? Observations of frequent debris ingestion by pelagic predatory fishes from the central North Pacific. *ResearchGate* 485, 155–163. doi:10.3354/meps10342
- Ciglano, J.A., Meyer, R., Ballard, H.L., Freitag, A., Phillips, T.B., Wasser, A., 2015. Making marine and coastal citizen science matter. *Ocean Coast. Manag.*, Making Marine Science Matter: Issues and Solutions from the 3rd International Marine Conservation Congress 115, 77–87. doi:10.1016/j.ocecoaman.2015.06.012
- Cisneros-Montemayor, A.M., Pauly, D., Weatherdon, L.V., Ota, Y., 2016. A Global Estimate of Seafood Consumption by Coastal Indigenous Peoples. *PLOS ONE* 11, e0166681. doi:10.1371/journal.pone.0166681
- Claessens, M., De Meester, S., Van Landuyt, L., De Clerck, K., Janssen, C.R., 2011. Occurrence and distribution of microplastics in marine sediments along the Belgian coast. *Mar. Pollut. Bull.* 62, 2199–2204. doi:10.1016/j.marpolbul.2011.06.030
- Clark, R.B., 1997. Marine Pollution. Clarendon Press, Oxford.
- Cole, M., Lindeque, P., Halsband, C., Galloway, T.S., 2011. Microplastics as contaminants in the marine environment: A review. *Mar. Pollut. Bull.* 62, 2588–2597. doi:10.1016/j.marpolbul.2011.09.025
- Cole, M., Webb, H., Lindeque, P.K., Fileman, E.S., Halsband, C., Galloway, T.S., 2014. Isolation of microplastics in biota-rich seawater samples and marine organisms. *Sci. Rep.* 4, 4528. doi:10.1038/srep04528

- Collard, F., Gilbert, B., Eppe, G., Parmentier, E., Das, K., 2015. Detection of Anthropogenic Particles in Fish Stomachs: An Isolation Method Adapted to Identification by Raman Spectroscopy. *Arch. Environ. Contam. Toxicol.* 69, 331–339. doi:10.1007/s00244-015-0221-0
- Colton, J.B., Knapp, F.D., Burns, B.R., 1974. Plastic Particles in Surface Waters of the Northwestern Atlantic. *Science* 185, 491–497.
- Corcoran, P.L., Biesinger, M.C., Grifi, M., 2009. Plastics and beaches: A degrading relationship. *Mar. Pollut. Bull.* 58, 80–84. doi:10.1016/j.marpolbul.2008.08.022
- Cózar, A., Echevarría, F., González-Gordillo, J.I., Irigoien, X., Úbeda, B., Hernández-León, S., Palma, Á.T., Navarro, S., García-de-Lomas, J., Ruiz, A., Fernández-de-Puelles, M.L., Duarte, C.M., 2014. Plastic debris in the open ocean. *Proc. Natl. Acad. Sci.* 111, 10239–10244. doi:10.1073/pnas.1314705111
- Daan, N., 1973. A quantitative analysis of the food intake of North Sea cod, *Gadus Morhua*. *Neth. J. Sea Res.* 6, 479–517. doi:10.1016/0077-7579(73)90002-1
- Dantas, D.V., Barletta, M., Costa, M.F. da, 2012. The seasonal and spatial patterns of ingestion of polyfilament nylon fragments by estuarine drums (Sciaenidae). *Environ. Sci. Pollut. Res.* 19, 600–606. doi:10.1007/s11356-011-0579-0
- Darwall, W.R.T., Dulvy, N.K., 1996. An evaluation of the suitability of non-specialist volunteer researchers for coral reef fish surveys. Mafia Island, Tanzania — A case study. *Biol. Conserv.* 78, 223–231. doi:10.1016/0006-3207(95)00147-6
- Davison, P., Asch, R.G., 2011. Plastic ingestion by mesopelagic fishes in the North Pacific Subtropical Gyre. *ResearchGate* 432, 173–180. doi:10.3354/meps09142
- Day, R.H., Shaw, D.G., Ignell, S.E., 1990. The quantitative distribution and characteristics of neuston plastic in the North Pacific Ocean. 1985–1988 (NOAA Technical Memo. No. NOAA-TM-NMFS-SWFSC-154), Proceedings of the Second International Conference on Marine Debris, 2–7 April, 1989. NMFS, Honolulu, Hawaii.
- de Stephanis, R., Giménez, J., Carpinelli, E., Gutierrez-Exposito, C., Cañadas, A., 2013. As main meal for sperm whales: Plastics debris. *Mar. Pollut. Bull.* 69, 206–214. doi:10.1016/j.marpolbul.2013.01.033
- Deanin, R.D., 1975. Additives in plastics. *Environ. Health Perspect.* 11, 35–39.
- Delaney, D.G., Sperling, C.D., Adams, C.S., Leung, B., 2008. Marine invasive species: validation of citizen science and implications for national monitoring networks. *Biol. Invasions* 10, 117–128. doi:10.1007/s10530-007-9114-0
- Derraik, J.G.B., 2002. The pollution of the marine environment by plastic debris: a review. *Mar. Pollut. Bull.* 44, 842–852. doi:10.1016/S0025-326X(02)00220-5
- Desforges, J.-P.W., Galbraith, M., Ross, P.S., 2015. Ingestion of Microplastics by Zooplankton in the Northeast Pacific Ocean. *Arch. Environ. Contam. Toxicol.* 69, 320–330. doi:10.1007/s00244-015-0172-5
- Deudero, S., Alomar, C., 2015. Mediterranean marine biodiversity under threat: Reviewing influence of marine litter on species. *Mar. Pollut. Bull.* 98, 58–68. doi:10.1016/j.marpolbul.2015.07.012
- Di Benedetto, A.P.M., Awabdi, D.R., 2014. How marine debris ingestion differs among megafauna species in a tropical coastal area. *Mar. Pollut. Bull.* 88, 86–90. doi:10.1016/j.marpolbul.2014.09.020
- DiPinto, L.M., 1996. Trophic transfer of a sediment-associated organophosphate pesticide from meiobenthos to bottom feeding fish. *Arch. Environ. Contam. Toxicol.* 30, 459–466. doi:10.1007/BF00213396

- Endo, S., Takizawa, R., Okuda, K., Takada, H., Chiba, K., Kanehiro, H., Ogi, H., Yamashita, R., Date, T., 2005. Concentration of polychlorinated biphenyls (PCBs) in beached resin pellets: Variability among individual particles and regional differences. *Mar. Pollut. Bull.* 50, 1103–1114. doi:10.1016/j.marpolbul.2005.04.030
- Engler, R.E., 2012. The Complex Interaction between Marine Debris and Toxic Chemicals in the Ocean. *Environ. Sci. Technol.* 46, 12302–12315. doi:10.1021/es3027105
- English, M.D., Robertson, G.J., Avery-Gomm, S., Pirie-Hay, D., Roul, S., Ryan, P.C., Wilhelm, S.I., Mallory, M.L., 2015. Plastic and metal ingestion in three species of coastal waterfowl wintering in Atlantic Canada. *Mar. Pollut. Bull.* 98, 349–353. doi:10.1016/j.marpolbul.2015.05.063
- Eriksen, M., Lebreton, L.C.M., Carson, H.S., Thiel, M., Moore, C.J., Borerro, J.C., Galgani, F., Ryan, P.G., Reisser, J., 2014. Plastic Pollution in the World's Oceans: More than 5 Trillion Plastic Pieces Weighing over 250,000 Tons Afloat at Sea. *PLOS ONE* 9, e111913. doi:10.1371/journal.pone.0111913
- Eriksson, C., Burton, H., 2003. Origins and Biological Accumulation of Small Plastic Particles in Fur Seals from Macquarie Island. *Ambio* 32, 380–384.
- Fendall, L.S., Sewell, M.A., 2009. Contributing to marine pollution by washing your face: Microplastics in facial cleansers. *Mar. Pollut. Bull.* 58, 1225–1228. doi:10.1016/j.marpolbul.2009.04.025
- Fife, D.T., Robertson, G.J., Shutler, D., Braune, B.M., Mallory, M.L., 2015. Trace elements and ingested plastic debris in wintering dovekies (*Alle alle*). *Mar. Pollut. Bull.* 91, 368–371. doi:10.1016/j.marpolbul.2014.11.029
- Fisheries and Oceans Canada, 2016a. 2016 Northern Cod Stewardship / By-catch Fishery 2J3KL management approach [WWW Document]. URL <http://www.dfo-mpo.gc.ca/decisions/fm-2016-gp/atl-14-eng.htm> (accessed 12.1.16).
- Fisheries and Oceans Canada, 2016b. 2016 Newfoundland and Labrador Recreational Groundfish Fishery [WWW Document]. *Fish. Oceans Can.* URL <http://www.dfo-mpo.gc.ca/decisions/fm-2016-gp/atl-08-eng.htm> (accessed 12.1.16).
- Fisheries and Oceans Canada, 2012. Survey of Recreational Fishing in Canada, 2010 (No. DFO/2012-1804). Ottawa.
- Fisheries and Oceans Statistical Services, 2016. Canada's Fisheries Fast Facts 2015 [WWW Document]. URL <http://www.dfo-mpo.gc.ca/stats/facts-Info-15-eng.htm> (accessed 2.21.17).
- Foekema, E.M., De Gruijter, C., Mergia, M.T., van Franeker, J.A., Murk, A.J., Koelmans, A.A., 2013. Plastic in North Sea Fish. *Environ. Sci. Technol.* 47, 8818–8824. doi:10.1021/es400931b
- Fore, L.S., Paulsen, K., O'Laughlin, K., 2001. Assessing the performance of volunteers in monitoring streams. *Freshw. Biol.* 46, 109–123. doi:10.1111/j.1365-2427.2001.00640.x
- Foster-Smith, J., Evans, S.M., 2003. The value of marine ecological data collected by volunteers. *Biol. Conserv.* 113, 199–213. doi:10.1016/S0006-3207(02)00373-7
- Fries, E., Dekiff, J.H., Willmeyer, J., Nuelle, M.-T., Ebert, M., Remy, D., 2013. Identification of polymer types and additives in marine microplastic particles using pyrolysis-GC/MS and scanning electron microscopy. *Environ. Sci.: Processes Impacts* 15, 1949–1956. doi:10.1039/C3EM00214D

- Galgani, F., Hanke, G., Maes, T., 2015. Global Distribution, Composition and Abundance of Marine Litter, in: Bergmann, M., Gutow, L., Klages, M. (Eds.), *Marine Anthropogenic Litter*. Springer International Publishing, pp. 29–56. doi:10.1007/978-3-319-16510-3_2
- GESAMP, 2015. Sources, fate and effects of microplastics in the marine environment: a global assessment. GESAMP.
- Gouin, T., Roche, N., Lohmann, R., Hodges, G., 2011. A Thermodynamic Approach for Assessing the Environmental Exposure of Chemicals Absorbed to Microplastic. *Environ. Sci. Technol.* 45, 1466–1472. doi:10.1021/es1032025
- Government of Canada, 2015. Microbeads in Toiletries Regulations [WWW Document]. *Environ. Clim. Change Can.* URL <https://www.ec.gc.ca/lcpe-cepa/eng/regulations/DetailReg.cfm?intReg=238> (accessed 12.30.16).
- Government of Newfoundland and Labrador, 2016. Newfoundland and Labrador Fishing Industry Highlights 2014 (Revised) and 2015 (Preliminary).
- Government of Newfoundland and Labrador, 2014. Solid waste management strategy: performance monitoring report. Department of Municipal Affairs, Newfoundland and Labrador, Canada.
- Graca, B., Beldowska, M., Wrzesień, P., Zgrundo, A., 2014. Styrofoam debris as a potential carrier of mercury within ecosystems. *Environ. Sci. Pollut. Res.* 21, 2263–2271. doi:10.1007/s11356-013-2153-4
- Gramentz, D., 1988. Involvement of loggerhead turtle with the plastic, metal, and hydrocarbon pollution in the central Mediterranean. *Mar. Pollut. Bull.* 19, 11–13. doi:10.1016/0025-326X(88)90746-1
- Gregory, M.R., 2009. Environmental implications of plastic debris in marine settings—entanglement, ingestion, smothering, hangers-on, hitch-hiking and alien invasions. *Philos. Trans. R. Soc. B Biol. Sci.* 364, 2013–2025. doi:10.1098/rstb.2008.0265
- Grigorakis, S., Mason, S.A., Drouillard, K.G., 2017. Determination of the gut retention of plastic microbeads and microfibers in goldfish (*Carassius auratus*). *Chemosphere* 169, 233–238. doi:10.1016/j.chemosphere.2016.11.055
- Hanni, K.D., Pyle, P., 2000. Entanglement of Pinnipeds in Synthetic Materials at South-east Farallon Island, California, 1976–1998. *Mar. Pollut. Bull.* 40, 1076–1081. doi:10.1016/S0025-326X(00)00050-3
- Harper, 1987. Plastic pellets in New Zealand storm-killed prions (*Pachyptila* spp.) 1958–1977. *Notornis* 34, 65–70.
- Havens, K., Bilkovic, D.M., Stanhope, D., Angstadt, K., 2011. Fishery failure, unemployed commercial fishers, and lost blue crab pots: An unexpected success story. *Environ. Sci. Policy* 14, 445–450. doi:10.1016/j.envsci.2011.01.002
- Havens, K.J., Bilkovic, D.M., Stanhope, D., Angstadt, K., Hershner, C., 2008. The Effects of Derelict Blue Crab Traps on Marine Organisms in the Lower York River, Virginia. *North Am. J. Fish. Manag.* 28, 1194–1200. doi:10.1577/M07-014.1
- Hidalgo-Ruz, V., Gutow, L., Thompson, R.C., Thiel, M., 2012. Microplastics in the Marine Environment: A Review of the Methods Used for Identification and Quantification. *Environ. Sci. Technol.* 46, 3060–3075. doi:10.1021/es2031505
- Hopewell, J., Dvorak, R., Kosior, E., 2009. Plastics recycling: challenges and opportunities. *Philos. Trans. R. Soc. B Biol. Sci.* 364, 2115–2126. doi:10.1098/rstb.2008.0311
- Horsman, P.V., 1982. The amount of garbage pollution from merchant ships. *Mar. Pollut. Bull.* 13, 167–169. doi:10.1016/0025-326X(82)90088-1

- Humborstad, O.-B., Løkkeborg, S., Hareide, N.-R., Furevik, D.M., 2003. Catches of Greenland halibut (*Reinhardtius hippoglossoides*) in deepwater ghost-fishing gillnets on the Norwegian continental slope. *Fish. Res.* 64, 163–170. doi:10.1016/S0165-7836(03)00215-7
- Imhof, H.K., Schmid, J., Niessner, R., Ivleva, N.P., Laforsch, C., 2012. A novel, highly efficient method for the separation and quantification of plastic particles in sediments of aquatic environments. *Limnol. Oceanogr. Methods* 10, 524–537. doi:10.4319/lom.2012.10.524
- Israel, B.A., Schulz, A.J., Parker, E.A., Becker, A.B., 1998. Review of community-based research: assessing partnership approaches to improve public health. *Annu. Rev. Public Health* 19, 173–202. doi:10.1146/annurev.publhealth.19.1.173
- Jackson, G.D., Buxton, N.G., George, M.J.A., 2000. Diet of the southern opah *Lampris immaculatus* on the Patagonian Shelf; the significance of the squid *Moroteuthis ingens* and anthropogenic plastic. *ResearchGate* 206, 261–271. doi:10.3354/meps206261
- Jambeck, J.R., Geyer, R., Wilcox, C., Siegler, T.R., Perryman, M., Andrady, A., Narayan, R., Law, K.L., 2015. Plastic waste inputs from land into the ocean. *Science* 347, 768–771. doi:10.1126/science.1260352
- Jambeck, J.R., Johnsen, K., 2017. Marine Debris Tracker [WWW Document]. URL <http://www.marinedebris.enr.uga.edu/> (accessed 3.21.17).
- Jantz, L.A., Morishige, C.L., Bruland, G.L., Lepczyk, C.A., 2013. Ingestion of plastic marine debris by longnose lancetfish (*Alepisaurus ferox*) in the North Pacific Ocean. *Mar. Pollut. Bull.* 69, 97–104. doi:10.1016/j.marpolbul.2013.01.019
- Jochem, G., Lehnert, R.J., 2002. On the potential of Raman microscopy for the forensic analysis of coloured textile fibres. *Sci. Justice* 42, 215–221. doi:10.1016/S1355-0306(02)71831-5
- Johansen, S.D., Coucheron, D.H., Andreassen, M., Karlsen, B.O., Furmanek, T., Jørgensen, T.E., Emblem, A., Breines, R., Nordeide, J.T., Moum, T., Nederbragt, A.J., Stenseth, N.C., Jakobsen, K.S., 2009. Large-scale sequence analyses of Atlantic cod. *New Biotechnol.* 25, 263–271. doi:10.1016/j.nbt.2009.03.014
- Kartar, S., Abou-Seedo, F., Sainsbury, M., 1976. Polystyrene spherules in the Severn Estuary — A progress report. *Mar. Pollut. Bull.* 7, 52. doi:10.1016/0025-326X(76)90092-8
- Keats, D.W., Steele, D.H., South, G.R., 1987. The rôle of fleshy macroalgae in the ecology of juvenile cod (*Gadus morhua* L.) in inshore waters off eastern Newfoundland. *Can. J. Zool.* 65, 49–53. doi:10.1139/z87-008
- Kenyon, K.W., Kridler, E., 1969. Laysan Albatrosses Swallow Indigestible Matter. *The Auk* 86, 339–343. doi:10.2307/4083505
- Kim, E.-J., Kim, J.-W., Lee, S.-K., 2002. Inhibition of oocyte development in Japanese medaka (*Oryzias latipes*) exposed to di-2-ethylhexyl phthalate. *Environ. Int.* 28, 359–365.
- Koelmans, A.A., Besseling, E., Foekema, E.M., 2014. Leaching of plastic additives to marine organisms. *Environ. Pollut.* 187, 49–54. doi:10.1016/j.envpol.2013.12.013
- Kolok, A.S., Huckins, J.N., Petty, J.D., Oris, J.T., 1996. The role of water ventilation and sediment ingestion in the uptake of benzo[A]pyrene in gizzard shad (*dorosoma cepedianum*). *Environ. Toxicol. Chem.* 15, 1752–1759. doi:10.1002/etc.5620151015
- Kühn, S., Rebolledo, E.L.B., Franeker, J.A. van, 2015. Deleterious Effects of Litter on Marine Life, in: Bergmann, M., Gutow, L., Klages, M. (Eds.), *Marine Anthropogenic Litter*. Springer International Publishing, pp. 75–116. doi:10.1007/978-3-319-16510-3_4

- Kullenberg, C., Kasperowski, D., 2016. What Is Citizen Science? – A Scientometric Meta-Analysis. PLOS ONE 11, e0147152. doi:10.1371/journal.pone.0147152
- Laist, D.W., 1996. Marine Debris Entanglement and Ghost Fishing: A cryptic and significant type of bycatch? (No. 96–3), Proceedings of the Solving Bycatch Workshop: Considerations for Today and Tomorrow. 25-27 September 1995. Alaska Sea Grant College Program, Seattle, Washington.
- Laist, D.W., 1987. Overview of the biological effects of lost and discarded plastic debris in the marine environment. Mar. Pollut. Bull. 18, 319–326. doi:10.1016/S0025-326X(87)80019-X
- Lang, I.A., Galloway, T.S., Scarlett, A., Henley, W.E., Depledge, M., Wallace, R.B., Melzer, D., 2008. Association of urinary bisphenol A concentration with medical disorders and laboratory abnormalities in adults. JAMA 300, 1303–1310. doi:10.1001/jama.300.11.1303
- Lavers, J.L., Bond, A.L., Hutton, I., 2014. Plastic ingestion by Flesh-footed Shearwaters (*Puffinus carneipes*): Implications for fledgling body condition and the accumulation of plastic-derived chemicals. Environ. Pollut. 187, 124–129. doi:10.1016/j.envpol.2013.12.020
- Law, K.L., Morét-Ferguson, S., Maximenko, N.A., Proskurowski, G., Peacock, E.E., Hafner, J., Reddy, C.M., 2010. Plastic Accumulation in the North Atlantic Subtropical Gyre. Science 329, 1185–1188. doi:10.1126/science.1192321
- Lenz, R., Enders, K., Stedmon, C.A., Mackenzie, D.M.A., Nielsen, T.G., 2015. A critical assessment of visual identification of marine microplastic using Raman spectroscopy for analysis improvement. Mar. Pollut. Bull. 100, 82–91. doi:10.1016/j.marpolbul.2015.09.026
- Liboiron, M., 2016a. Redefining pollution and action: The matter of plastics. J. Mater. Cult. 21, 87–110. doi:10.1177/1359183515622966
- Liboiron, M., 2016b. DIY Microscopes. Civ. Lab.
- Liboiron, M., 2016c. LADI Trawl. Civ. Lab.
- Liboiron, M., 2015. BabyLegs. Civ. Lab.
- Liboiron, M., Liboiron, F., Wells, E., Richard, N., Zahara, A., Mather, C., Bradshaw, H., Murichi, J., 2016. Low plastic ingestion rate in Atlantic Cod (*Gadus morhua*) from Newfoundland destined for human consumption collected through citizen science methods. bioRxiv 80986. doi:10.1101/080986
- Lilly, G.R., Shelton, P.A., Brattey, J., Cadigan, N.G., Healey, B.P., Murphy, E.F., Stansbury, D.E., Chen, N., 2003. An assessment of the cod stock in NAFO Divisions 2J+3KL in February 2003 (Research Document No. 2003/023). DFO Canadian Science Advisory Secretariat.
- Link, J.S., Bogstad, B., Sparholt, H., Lilly, G.R., 2009. Trophic role of Atlantic cod in the ecosystem. Fish Fish. 10, 58–87. doi:10.1111/j.1467-2979.2008.00295.x
- Lithner, D., Nordensvan, I., Dave, G., 2012. Comparative acute toxicity of leachates from plastic products made of polypropylene, polyethylene, PVC, acrylonitrile–butadiene–styrene, and epoxy to *Daphnia magna*. Environ. Sci. Pollut. Res. 19, 1763–1772. doi:10.1007/s11356-011-0663-5
- Löder, M., Gerdts, G., 2015. Methodology Used for the Detection and Identification of Microplastics—A Critical Appraisal [WWW Document]. Mar. Anthropol. Litter. URL http://link.springer.com/chapter/10.1007/978-3-319-16510-3_8 (accessed 11.30.16).

- Lowitt, K., 2013. Examining Fisheries Contributions to Community Food Security: Findings from a Household Seafood Consumption Survey on the West Coast of Newfoundland. *J. Hunger Environ. Nutr.* 8, 221–241. doi:10.1080/19320248.2013.786668
- Lu, Y., Zhang, Y., Deng, Y., Jiang, W., Zhao, Y., Geng, J., Ding, L., Ren, H., 2016. Uptake and Accumulation of Polystyrene Microplastics in Zebrafish (*Danio rerio*) and Toxic Effects in Liver. *Environ. Sci. Technol.* 50, 4054–4060. doi:10.1021/acs.est.6b00183
- Lusher, A.L., McHugh, M., Thompson, R.C., 2013. Occurrence of microplastics in the gastrointestinal tract of pelagic and demersal fish from the English Channel. *Mar. Pollut. Bull.* 67, 94–99. doi:10.1016/j.marpolbul.2012.11.028
- Lusher, A.L., O'Donnell, C., Officer, R., O'Connor, I., 2015a. Microplastic interactions with North Atlantic mesopelagic fish. *ICES J. Mar. Sci. J. Cons.* fsv241. doi:10.1093/icesjms/fsv241
- Lusher, A.L., Tirelli, V., O'Connor, I., Officer, R., 2015b. Microplastics in Arctic polar waters: the first reported values of particles in surface and sub-surface samples. *Sci. Rep.* 5, 14947. doi:10.1038/srep14947
- Macfadyen, G., Huntington, T., Cappell, R., 2009. Abandoned, lost or otherwise discarded fishing gear, in: UNEP Regional Seas Reports and Studies, FAO Fisheries and Aquaculture Technical Paper. UNEP/FAO, Rome, p. 115.
- Mallory, M.L., 2008. Marine plastic debris in northern fulmars from the Canadian high Arctic. *Mar. Pollut. Bull.* 56, 1501–1504. doi:10.1016/j.marpolbul.2008.04.017
- Mallory, M.L., Roberston, G.J., Moenting, A., 2006. Marine plastic debris in northern fulmars from Davis Strait, Nunavut, Canada. *Mar. Pollut. Bull.* 52, 813–815. doi:10.1016/j.marpolbul.2006.04.005
- Marshall, N.J., Kleine, D.A., Dean, A.J., 2012. CoralWatch: education, monitoring, and sustainability through citizen science. *Front. Ecol. Environ.* 10, 332–334. doi:10.1890/110266
- Martinez, E., Maamaatauaiahutapu, K., Taillardier, V., 2009. Floating marine debris surface drift: Convergence and accumulation toward the South Pacific subtropical gyre. *Mar. Pollut. Bull.* 58, 1347–1355. doi:10.1016/j.marpolbul.2009.04.022
- Mato, Y., Isobe, T., Takada, H., Kanehiro, H., Ohtake, C., Kaminuma, T., 2001. Plastic Resin Pellets as a Transport Medium for Toxic Chemicals in the Marine Environment. *Environ. Sci. Technol.* 35, 318–324. doi:10.1021/es0010498
- Matranga, V., Corsi, I., 2012. Toxic effects of engineered nanoparticles in the marine environment: model organisms and molecular approaches. *Mar. Environ. Res.* 76, 32–40. doi:10.1016/j.marenvres.2012.01.006
- Mazurais, D., Ernande, B., Quazuguel, P., Severe, A., Huelvan, C., Madec, L., Mouchel, O., Soudant, P., Robbins, J., Huvet, A., Zambonino-Infante, J., 2015. Evaluation of the impact of polyethylene microbeads ingestion in European sea bass (*Dicentrarchus labrax*) larvae. *Mar. Environ. Res.* 112, Part A, 78–85. doi:10.1016/j.marenvres.2015.09.009
- McCauley, S.J., Bjorndal, K.A., 1999. Conservation Implications of Dietary Dilution from Debris Ingestion: Sublethal Effects in Post-Hatchling Loggerhead Sea Turtles. *Conserv. Biol.* 13, 925–929. doi:10.1046/j.1523-1739.1999.98264.x
- McElwee, K., Donohue, M.J., Courtney, C.A., Morishige, C., Rivera-Vicente, A., 2012. A strategy for detecting derelict fishing gear at sea. *Mar. Pollut. Bull.*, At-sea Detection of Derelict Fishing Gear 65, 7–15. doi:10.1016/j.marpolbul.2011.09.006

- Meeker, J.D., Sathyarayana, S., Swan, S.H., 2009. Phthalates and Other Additives in Plastics: Human Exposure and Associated Health Outcomes. *Philos. Trans. Biol. Sci.* 364, 2097–2113.
- Meikle, J.L., 1997. Material Doubts: The Consequences of Plastic. *Environ. Hist.* 2, 278–300. doi:10.2307/3985351
- Melzer, D., Rice, N.E., Lewis, C., Henley, W.E., Galloway, T.S., 2010. Association of Urinary Bisphenol A Concentration with Heart Disease: Evidence from NHANES 2003/06. *PLoS ONE* 5. doi:10.1371/journal.pone.0008673
- Miranda, D. de A., de Carvalho-Souza, G.F., 2016. Are we eating plastic-ingesting fish? *Mar. Pollut. Bull.* 103, 109–114. doi:10.1016/j.marpolbul.2015.12.035
- Moore, C.J., 2008. Synthetic polymers in the marine environment: a rapidly increasing, long-term threat. *Environ. Res.* 108, 131–139.
- Morris, C., Sargent, P., Porter, D., Gregory, R., Drover, D., Matheson, K., Maddigan, T., Holloway, C., Sheppard, L., 2016. Garbage in Newfoundland harbours. *J. Ocean Technol.* 11, 18–26. doi:10.13140/RG.2.1.1799.5763
- Moser, M.L., Lee, D.S., 1992. A Fourteen-Year Survey of Plastic Ingestion by Western North Atlantic Seabirds. *Colon. Waterbirds* 15, 83–94. doi:10.2307/1521357
- Muir, W.D., Durkin, J.T., Coley, T.C., JR, G.T.M., 1984. Escape of Captured Dungeness Crabs from Commercial Crab Pots in the Columbia River Estuary. *North Am. J. Fish. Manag.* 4, 552–555. doi:10.1577/1548-8659(1984)4<552:EOCDCF>2.0.CO;2
- Murray, F., Cowie, P.R., 2011. Plastic contamination in the decapod crustacean *Nephrops norvegicus* (Linnaeus, 1758). *Mar. Pollut. Bull.* 62, 1207–1217. doi:10.1016/j.marpolbul.2011.03.032
- National Research Council (U S.) Study Panel on Assessing Potential Ocean, 1975. Assessing potential ocean pollutants: a report of the Study Panel on Assessing Potential Ocean Pollutants to the Ocean Affairs Board, Commission on Natural Resources, National Research Council. National Academy of Sciences, Washington, DC.
- Nerland, I.L., Halsband, C., Allan, I., Thomas, K.V., 2014. Microplastics in marine environments: Occurrence, distribution and effects (No. 6754–2014). Norwegian Institute for Water Research, Oslo.
- Neves, D., Sobral, P., Ferreira, J.L., Pereira, T., 2015. Ingestion of microplastics by commercial fish off the Portuguese coast. *Mar. Pollut. Bull.* 101, 119–126. doi:10.1016/j.marpolbul.2015.11.008
- Newman, S., Watkins, E., Farmer, A., Brink, P. ten, Schweitzer, J.-P., 2015. The Economics of Marine Litter, in: Bergmann, M., Gutow, L., Klages, M. (Eds.), *Marine Anthropogenic Litter*. Springer International Publishing, pp. 367–394. doi:10.1007/978-3-319-16510-3_14
- NOAA Marine Debris Program, 2015. Report on the impacts of “ghost fishing” via derelict fishing gear. Silver Spring, MD.
- Norén, F., 2007. Small plastic particles in Coastal Swedish waters. KIMO Swed.
- NSIDC, 2016. Sluggish ice growth in the Arctic [WWW Document]. Arctic Sea Ice News Anal. URL <https://nsidc.org/arcticseaicenews/2016/> (accessed 12.1.16).
- Nuelle, M.-T., Dekiff, J.H., Remy, D., Fries, E., 2014. A new analytical approach for monitoring microplastics in marine sediments. *Environ. Pollut.* 184, 161–169. doi:10.1016/j.envpol.2013.07.027

- Obbard, R.W., Sadri, S., Wong, Y.Q., Khitun, A.A., Baker, I., Thompson, R.C., 2014. Global warming releases microplastic legacy frozen in Arctic Sea ice. *Earths Future* 2, 2014EF000240. doi:10.1002/2014EF000240
- Oehlmann, J., Schulte-Oehlmann, U., Kloas, W., Jagnytsch, O., Lutz, I., Kusk, K.O., Wollenberger, L., Santos, E.M., Paull, G.C., Van Look, K.J.W., Tyler, C.R., 2009. A Critical Analysis of the Biological Impacts of Plasticizers on Wildlife. *Philos. Trans. Biol. Sci.* 364, 2047–2062.
- Ogata, Y., Takada, H., Mizukawa, K., Hirai, H., Iwasa, S., Endo, S., Mato, Y., Saha, M., Okuda, K., Nakashima, A., Murakami, M., Zurcher, N., Booyatumanondo, R., Zakaria, M.P., Dung, L.Q., Gordon, M., Miguez, C., Suzuki, S., Moore, C., Karapanagioti, H.K., Weerts, S., McClurg, T., Burres, E., Smith, W., Velkenburg, M.V., Lang, J.S., Lang, R.C., Laursen, D., Danner, B., Stewardson, N., Thompson, R.C., 2009. International Pellet Watch: Global monitoring of persistent organic pollutants (POPs) in coastal waters. 1. Initial phase data on PCBs, DDTs, and HCHs. *Mar. Pollut. Bull.* 58, 1437–1446. doi:10.1016/j.marpolbul.2009.06.014
- Olsen, E.M., Lilly, G.R., Heino, M., Morgan, M.J., Brattey, J., Dieckmann, U., 2005. Assessing changes in age and size at maturation in collapsing populations of Atlantic cod (*Gadus morhua*). *Can. J. Fish. Aquat. Sci.* 62, 811–823. doi:10.1139/f05-065
- OSPAR Commission, 2010. The OSPAR System of Ecological Quality Objectives for the North Sea (OSPAR Publication No. 404/2009), Quality Status Report 2010. OSPAR Commission, London, United Kingdom.
- OSPAR Commission, 2009. Marine litter in the North-East Atlantic Region: Assessment and priorities for response. OSPAR Commission and UNEP, London, United Kingdom.
- OSPAR Commission, n.d. Plastic particles in fulmars' stomachs [WWW Document]. Mar. Litter Indic. URL <http://www.ospar.org/work-areas/eiha/marine-litter/marine-litter-indicators> (accessed 1.3.17).
- Peakall, D.B., 1970. p,p'-DDT: Effect on Calcium Metabolism and Concentration of Estradiol in the Blood. *Science* 168, 592–594. doi:10.1126/science.168.3931.592
- Pham, C.K., Ramirez-Llodra, E., Alt, C.H.S., Amaro, T., Bergmann, M., Canals, M., Company, J.B., Davies, J., Duineveld, G., Galgani, F., Howell, K.L., Huvenne, V.A.I., Isidro, E., Jones, D.O.B., Lastras, G., Morato, T., Gomes-Pereira, J.N., Purser, A., Stewart, H., Tojeira, I., Tubau, X., Rooij, D.V., Tyler, P.A., 2014. Marine Litter Distribution and Density in European Seas, from the Shelves to Deep Basins. *PLOS ONE* 9, e95839. doi:10.1371/journal.pone.0095839
- Phillips, M.B., Bonner, T.H., 2015. Occurrence and amount of microplastic ingested by fishes in watersheds of the Gulf of Mexico. *Mar. Pollut. Bull.* 100, 264–269. doi:10.1016/j.marpolbul.2015.08.041
- Pierce, K.E., Harris, R.J., Larned, L.S., Pokras, M.A., 2004. Obstruction and starvation associated with plastic ingestion in a Northern gannet *Morus bassanus* and a Greater shearwater *Puffinus gravis*. *Mar. Ornithol.* 32, 187–189.
- Plastics Europe, 2016. Plastics - the Facts 2016 An analysis of European plastics production, demand and waste data.
- Possatto, F.E., Barletta, M., Costa, M.F., Ivar do Sul, J.A., Dantas, D.V., 2011. Plastic debris ingestion by marine catfish: An unexpected fisheries impact. *Mar. Pollut. Bull.* 62, 1098–1102. doi:10.1016/j.marpolbul.2011.01.036
- Provencher, J.F., Bond, A.L., Avery-Gomm, S., Borrelle, S.B., Rebollo, E.L.B., Hammer, S., Kühn, S., Lavers, J.L., Mallory, M.L., Trevail, A., Franeker, J.A. van, 2016.

- Quantifying ingested debris in marine megafauna: a review and recommendations for standardization. *Anal. Methods.* doi:10.1039/C6AY02419J
- Provencher, J.F., Bond, A.L., Hedd, A., Monteverchi, W.A., Muzaffar, S.B., Courchesne, S.J., Gilchrist, H.G., Jamieson, S.E., Merkel, F.R., Falk, K., Durinck, J., Mallory, M.L., 2014a. Prevalence of marine debris in marine birds from the North Atlantic. *Mar. Pollut. Bull.* 84, 411–417. doi:10.1016/j.marpolbul.2014.04.044
- Provencher, J.F., Bond, A.L., Mallory, M.L., 2014b. Marine birds and plastic debris in Canada: a national synthesis and a way forward. *Environ. Rev.* 23, 1–13. doi:10.1139/er-2014-0039
- Provencher, J.F., Gaston, A.J., Mallory, M.L., O'hara, P.D., Gilchrist, H.G., 2010. Ingested plastic in a diving seabird, the thick-billed murre (*Uria lomvia*), in the eastern Canadian Arctic. *Mar. Pollut. Bull.* 60, 1406–1411. doi:10.1016/j.marpolbul.2010.05.017
- Pruter, A.T., 1987. Sources, quantities and distribution of persistent plastics in the marine environment. *Mar. Pollut. Bull.* 18, 305–310. doi:10.1016/S0025-326X(87)80016-4
- Radfar, F., Ansari, H., Gerami, M.H., Dastbaz, M., 2015. Economic performance efficiency of gillnet based on mesh size and net color. *Int. J. Mar. Sci. Richmond* 5.
- Ramirez-Llodra, E., De Mol, B., Company, J.B., Coll, M., Sardà, F., 2013. Effects of natural and anthropogenic processes in the distribution of marine litter in the deep Mediterranean Sea. *Prog. Oceanogr.*, Integrated study of a deep submarine canyon and adjacent open slopes in the Western Mediterranean Sea: an essential habitat 118, 273–287. doi:10.1016/j.pocean.2013.07.027
- Ramos, J.A.A., Barletta, M., Costa, M.F., 2012. Ingestion of nylon threads by Gerreidae while using a tropical estuary as foraging grounds. *Aquat. Biol.* 17, 29–34. doi:10.3354/ab00461
- Ribic, C.A., Sheavly, S.B., Rugg, D.J., Erdmann, E.S., 2010. Trends and drivers of marine debris on the Atlantic coast of the United States 1997–2007. *Mar. Pollut. Bull.* 60, 1231–1242. doi:10.1016/j.marpolbul.2010.03.021
- Robards, M.D., Piatt, J.F., Wohl, K.D., 1995. Increasing Frequency of Plastic Particles Ingested by Seabirds in the Subarctic North Pacific. *ResearchGate* 30, 151–157. doi:10.1016/0025-326X(94)00121-O
- Rochman, C.M., Browne, M.A., Halpern, B.S., Hentschel, B.T., Hoh, E., Karapanagioti, H.K., Rios-Mendoza, L.M., Takada, H., Teh, S., Thompson, R.C., 2013a. Policy: Classify plastic waste as hazardous. *Nature* 494, 169–171. doi:10.1038/494169a
- Rochman, C.M., Hoh, E., Hentschel, B.T., Kaye, S., 2013b. Long-Term Field Measurement of Sorption of Organic Contaminants to Five Types of Plastic Pellets: Implications for Plastic Marine Debris. *Environ. Sci. Technol.* 47, 1646–1654. doi:10.1021/es303700s
- Rochman, C.M., Hoh, E., Kurobe, T., Teh, S.J., 2013c. Ingested plastic transfers hazardous chemicals to fish and induces hepatic stress. *Sci. Rep.* 3, 3263. doi:10.1038/srep03263
- Rochman, C.M., Kurobe, T., Flores, I., Teh, S.J., 2014. Early warning signs of endocrine disruption in adult fish from the ingestion of polyethylene with and without sorbed chemical pollutants from the marine environment. *Sci. Total Environ.* 493, 656–661. doi:10.1016/j.scitotenv.2014.06.051
- Rochman, C.M., Tahir, A., Williams, S.L., Baxa, D.V., Lam, R., Miller, J.T., Teh, F.-C., Werorilangi, S., Teh, S.J., 2015. Anthropogenic debris in seafood: Plastic debris and fibers from textiles in fish and bivalves sold for human consumption. *Sci. Rep.* 5, 14340. doi:10.1038/srep14340

- Romeo, T., Pietro, B., Pedà, C., Consoli, P., Andaloro, F., Fossi, M.C., 2015. First evidence of presence of plastic debris in stomach of large pelagic fish in the Mediterranean Sea. Mar. Pollut. Bull. 95, 358–361. doi:10.1016/j.marpolbul.2015.04.048
- Ross, J.B., Parker, R., Strickland, M., 1991. A survey of shoreline litter in Halifax Harbour 1989. Mar. Pollut. Bull. 22, 245–248. doi:10.1016/0025-326X(91)90919-J
- Rummel, C.D., Löder, M.G.J., Fricke, N.F., Lang, T., Griebeler, E.-M., Janke, M., Gerdts, G., 2016. Plastic ingestion by pelagic and demersal fish from the North Sea and Baltic Sea. Mar. Pollut. Bull. 102, 134–141. doi:10.1016/j.marpolbul.2015.11.043
- Ryan, P.G., 1988. Effects of ingested plastic on seabird feeding: Evidence from chickens. Mar. Pollut. Bull. 19, 125–128. doi:10.1016/0025-326X(88)90708-4
- Ryan, P.G., Jackson, S., 1987. The lifespan of ingested plastic particles in seabirds and their effect on digestive efficiency. Mar. Pollut. Bull. 18, 217–219. doi:10.1016/0025-326X(87)90461-9
- Ryan, P.G., Moore, C.J., Franeker, J.A. van, Moloney, C.L., 2009. Monitoring the abundance of plastic debris in the marine environment. Philos. Trans. R. Soc. Lond. B Biol. Sci. 364, 1999–2012. doi:10.1098/rstb.2008.0207
- Sakurai, T., Kobayashi, J., Kinoshita, K., Ito, N., Serizawa, S., Shiraishi, H., Lee, J.-H., Horiguchi, T., Maki, H., Mizukawa, K., Imaizumi, Y., Kawai, T., Suzuki, N., 2013. Transfer kinetics of perfluorooctane sulfonate from water and sediment to a marine benthic fish, the marbled flounder (*Pseudopleuronectes yokohamae*). Environ. Toxicol. Chem. 32, 2009–2017. doi:10.1002/etc.2270
- Savoca, M.S., Wohlfeil, M.E., Ebeler, S.E., Nevitt, G.A., 2016. Marine plastic debris emits a keystone infochemical for olfactory foraging seabirds. Sci. Adv. 2, e1600395. doi:10.1126/sciadv.1600395
- Sazima, I., Gadig, O.B.F., Namora, R.C., Motta, F.S., 2002. Plastic debris collars on juvenile carcharhinid sharks (*Rhizoprionodon lalandii*) in southwest Atlantic. Mar. Pollut. Bull. 44, 1149–1151. doi:10.1016/S0025-326X(02)00141-8
- Scarsbrook, J.R., McFarlane, G.A., Shaw, W., 1988. Effectiveness of Experimental Escape Mechanisms in Sablefish Traps. North Am. J. Fish. Manag. 8, 158–161. doi:10.1577/1548-8675(1988)008<0158:EOEEMI>2.3.CO;2
- Schrank, W.E., Roy, N., 2013. The Newfoundland Fishery and Economy Twenty Years after the Northern Cod Moratorium. ResearchGate 28, 397–413. doi:10.5950/0738-1360-28.4.397
- Sebille, E. van, England, M.H., Froyland, G., 2012. Origin, dynamics and evolution of ocean garbage patches from observed surface drifters. ResearchGate 7, 44040. doi:10.1088/1748-9326/7/4/044040
- Shaughnessy, P.D., 1980. Entanglement of Cape fur seals with man-made objects. Mar. Pollut. Bull. 11, 332–336. doi:10.1016/0025-326X(80)90052-1
- Shepard, P.M., Northridge, M.E., Prakash, S., Stover, G., 2002. Preface: Advancing Environmental Justice through Community-Based Participatory Research. Environ. Health Perspect. 110, 139–140.
- Song, Y.K., Hong, S.H., Jang, M., Han, G.M., Rani, M., Lee, J., Shim, W.J., 2015. A comparison of microscopic and spectroscopic identification methods for analysis of microplastics in environmental samples. Mar. Pollut. Bull. 93, 202–209. doi:10.1016/j.marpolbul.2015.01.015

- Spear, L.B., Ainley, D.G., Ribic, C.A., 1995. Incidence of plastic in seabirds from the tropical pacific, 1984–1991: Relation with distribution of species, sex, age, season, year and body weight. *Mar. Environ. Res.* 40, 123–146. doi:10.1016/0141-1136(94)00140-K
- Stål, J., Pihl, L., Wennhage, H., 2007. Food utilisation by coastal fish assemblages in rocky and soft bottoms on the Swedish west coast: Inference for identification of essential fish habitats. *Estuar. Coast. Shelf Sci.* 71, 593–607. doi:10.1016/j.ecss.2006.09.008
- Statistics Canada, 2013. Household access to and use of recycling programs [WWW Document]. Recycl. Can. URL <http://www.statcan.gc.ca/pub/16-002-x/2007001/article/10174-eng.htm> (accessed 1.3.17).
- Statistics Canada, 2012. Newfoundland and Labrador - Focus on Geography Series - 2011 Census [WWW Document]. URL <http://www12.statcan.gc.ca/census-recensement/2011/as-sa/fogs-spg/Facts-pr-eng.cfm?Lang=Eng&GC=10> (accessed 12.1.16).
- Stickel, B.H., Jahn, A., Kier, W., 2012. The Cost to West Coast Communities of Dealing with Trash, Reducing Marine Debris (No. pursuant to Order for Services EPG12900098). Kier Associates for U.S. Environmental Protection Agency, Region 9.
- Teuten, E.L., Saquing, J.M., Knappe, D.R.U., Barlaz, M.A., Jonsson, S., Björn, A., Rowland, S.J., Thompson, R.C., Galloway, T.S., Yamashita, R., Ochi, D., Watanuki, Y., Moore, C., Viet, P.H., Tana, T.S., Prudente, M., Boonyatumanond, R., Zakaria, M.P., Akkhavong, K., Ogata, Y., Hirai, H., Iwasa, S., Mizukawa, K., Hagino, Y., Imamura, A., Saha, M., Takada, H., 2009. Transport and release of chemicals from plastics to the environment and to wildlife. *Philos. Trans. R. Soc. B Biol. Sci.* 364, 2027–2045. doi:10.1098/rstb.2008.0284
- Thompson, R.C., 2006. Plastic debris in the marine environment: Consequences and solutions, in: Krause, J.C., Nordheim, H., Bräger, S. (Eds.), *Marine Nature Conservation in Europe*. Bundesamt für Naturschutz, Stralsund, Germany, pp. 107–115.
- Tibbetts, J.H., 2015. Managing Marine Plastic Pollution: Policy Initiatives to Address Wayward Waste. *Environ. Health Perspect.* 123, A90–A93. doi:10.1289/ehp.123-A90
- Turner, A., 2016. Trace elements in fragments of fishing net and other filamentous plastic litter from two beaches in SW England. *Environ. Pollut.* 1–7. doi:10.1016/j.envpol.2016.11.034
- UNEP, 2014. Plastic Debris in the Ocean, in: UNEP Year Book: Emerging Issues in Our Global Environment 2014. UNEP, Nairobi, Kenya, pp. 48–53.
- UNEP, 2009. Marine Litter: A Global Challenge. UNEP, Nairobi.
- UNESCO, 1994. Marine debris: solid waste management action plan for the wider Caribbean, in: IOC Technical Series. p. 21.
- United States Environmental Protection Agency, 2016. Persistent, Bioaccumulative and Toxic Chemicals (PBTs) [WWW Document]. *Pollut. Prev.* URL <https://www3.epa.gov/region9/waste/p2/projects/pbts.html> (accessed 1.3.17).
- USEPA, 2016. Toxic and Priority Pollutants Under the Clean Water Act [WWW Document]. URL <https://www.epa.gov/eg/toxic-and-priority-pollutants-under-clean-water-act> (accessed 12.1.16).
- Van Cauwenberghe, L., Janssen, C.R., 2014. Microplastics in bivalves cultured for human consumption. *Environ. Pollut.* 193, 65–70. doi:10.1016/j.envpol.2014.06.010
- van Franeker, J.A., Blaize, C., Danielsen, J., Fairclough, K., Gollan, J., Guse, N., Hansen, P.-L., Heubeck, M., Jensen, J.-K., Le Guillou, G., Olsen, B., Olsen, K.-O., Pedersen, J., Stienen, E.W.M., Turner, D.M., 2011. Monitoring plastic ingestion by the northern

- fulmar *Fulmarus glacialis* in the North Sea. Environ. Pollut., Nitrogen Deposition, Critical Loads and Biodiversity 159, 2609–2615. doi:10.1016/j.envpol.2011.06.008
- van Franeker, J.A., Meijboom, A., 2002. Litter NSV: marine litter monitoring by Northern Fulmars (a pilot study). Alterra-Rapp. Neth.
- Vandeperre, F., Methven, D.A., 2007. Do bigger fish arrive and spawn at the spawning grounds before smaller fish: Cod (*Gadus morhua*) predation on beach spawning capelin (*Mallotus villosus*) from coastal Newfoundland. Estuar. Coast. Shelf Sci. 71, 391–400. doi:10.1016/j.ecss.2006.07.020
- Verlis, K.M., Campbell, M.L., Wilson, S.P., 2013. Ingestion of marine debris plastic by the wedge-tailed shearwater *Ardenna pacifica* in the Great Barrier Reef, Australia. Mar. Pollut. Bull. 72, 244–249. doi:10.1016/j.marpolbul.2013.03.017
- WHO, 2016. Mercury and health [WWW Document]. World Health Organ. URL <http://www.who.int/mediacentre/factsheets/fs361/en/> (accessed 3.9.17).
- Woodall, L.C., Gwinnett, C., Packer, M., Thompson, R.C., Robinson, L.F., Paterson, G.L.J., 2015. Using a forensic science approach to minimize environmental contamination and to identify microfibres in marine sediments. Mar. Pollut. Bull. 95, 40–46. doi:10.1016/j.marpolbul.2015.04.044
- World Health Organization, 2010. Toxicological and health aspects of bisphenol A (No. 978 92 17 156427 4), Report of Joint FAO/WHO Expert Meeting. Ottawa, Canada.
- Wright, S.L., Thompson, R.C., Galloway, T.S., 2013. The physical impacts of microplastics on marine organisms: A review. Environ. Pollut. 178, 483–492. doi:10.1016/j.envpol.2013.02.031
- Zarfl, C., Matthies, M., 2010. Are marine plastic particles transport vectors for organic pollutants to the Arctic? Mar. Pollut. Bull. 60, 1810–1814. doi:10.1016/j.marpolbul.2010.05.026
- Zettler, E.R., Mincer, T.J., Amaral-Zettler, L.A., 2013. Life in the “Plastisphere”: Microbial Communities on Plastic Marine Debris. Environ. Sci. Technol. 47, 7137–7146. doi:10.1021/es401288x
- Zitko, V., Hanlon, M., 1991. Another source of pollution by plastics: Skin cleaners with plastic scrubbers. Mar. Pollut. Bull. 22, 41–42. doi:10.1016/0025-326X(91)90444-W