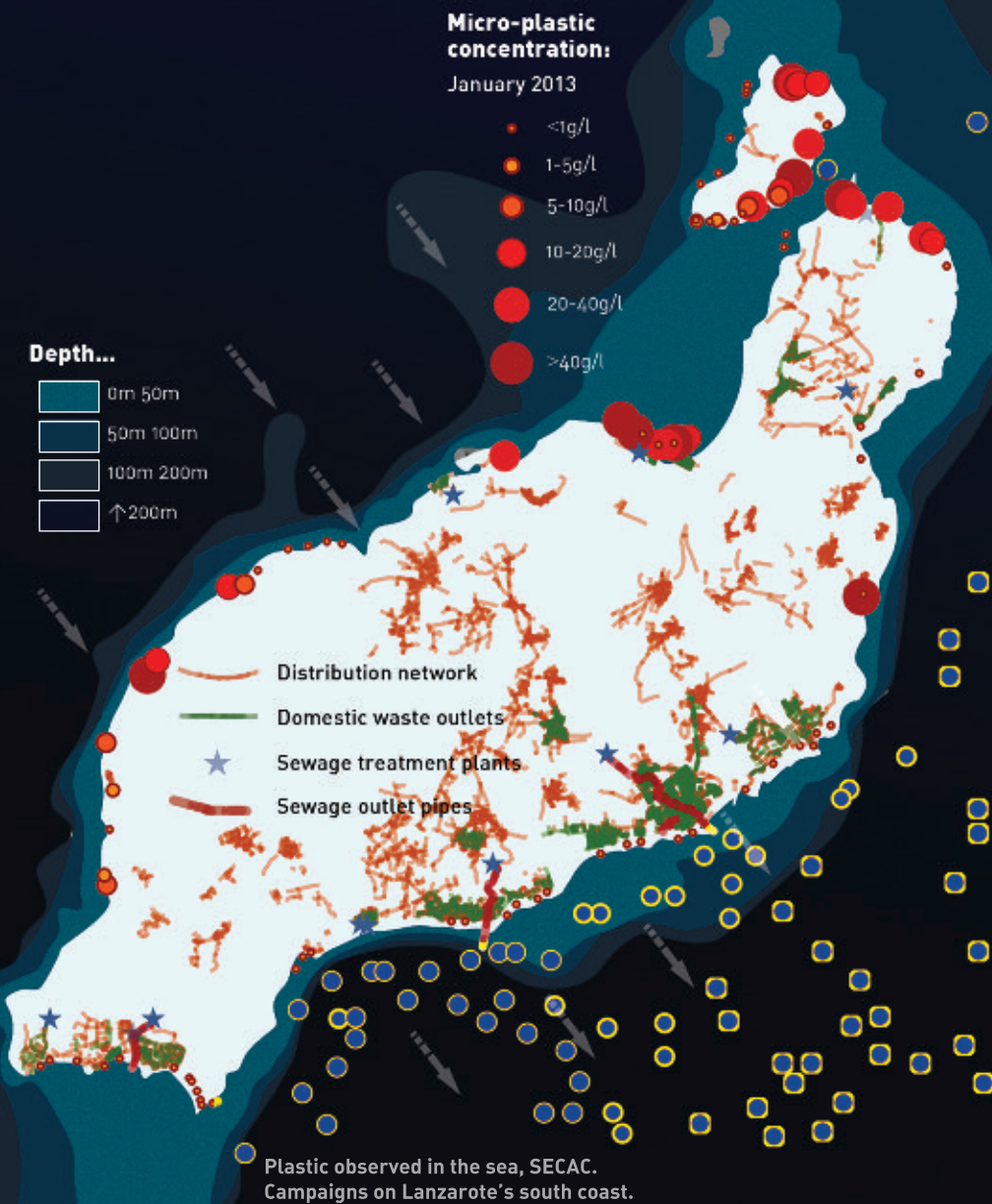


Plastic is highly useful since it is versatile, light, durable and cheap. These same qualities allow it to travel quickly and easily across the seas if we do not manage it carefully. Plastic is consequently becoming an ever-increasing problem due its low cost, toxicity, persistence and universal presence.



COLLECTIVE RESPONSES to a global problem

Solutions: Research, reduce, re-use, recycle.

- **Avoid** single-use products or those with a limited use like plastic cups, cutlery, sandwich bags, straws and razors, etc.
- **When shopping**, steer clear of over-packaged goods. Buy local, minimally-packaged produce. Use your own re-usable shopping bags or trolley. Refuse unnecessary plastic bags offered with purchases in shops.
- **Avoid purchasing** abrasive cosmetics that contain PEG plastics: facial scrubs, cleaning wipes, tooth-pastes, etc.
- **Recycle rubbish**, separating it according to the corresponding container.
- **Never discard** sanitary items, wipes or cotton swab sticks into the toilet.
- **Request** that your local shops and town offer a deposit-return system for bottles.

CLEAN-UP CAMPAIGNS ON LANZAROTE'S COAST. VOLUNTEERS. WHO'S ALREADY OUT TAKING ACTION?



Ayuntamientos
Cabildo de Lanzarote
CAS PASTINACA
Clandestino Surf
Clean Ocean Project
Lanzarote Limpia
Organismo Autónomo
Parques Nacionales
Reserva Marina de la Graciosa
Senderismo Lanzarote
WWF Adena
Famara Limpia
COUP Cleaner Ocean
Upcycling Productions



ZERO PLASTIC CAMPAIGN - LANZAROTE RESERVA DE LA BIOSFERA

Join us – follow us on Facebook: “aguita con el plástico”
www.facebook.com/Aguitaconelplastico

Voluntary Participation for companies, etc:
If your company would like to get involved, show your commitment by
signing up to “Agüita con el plástico”

Diseño: www.fernandobarbarin.com / Translations: Melanie Symes, Calero Marinas

PLASTIC: A ROUND TRIP TICKET ...a disposable world?



A local diagnostic... how are we affected?



Macro

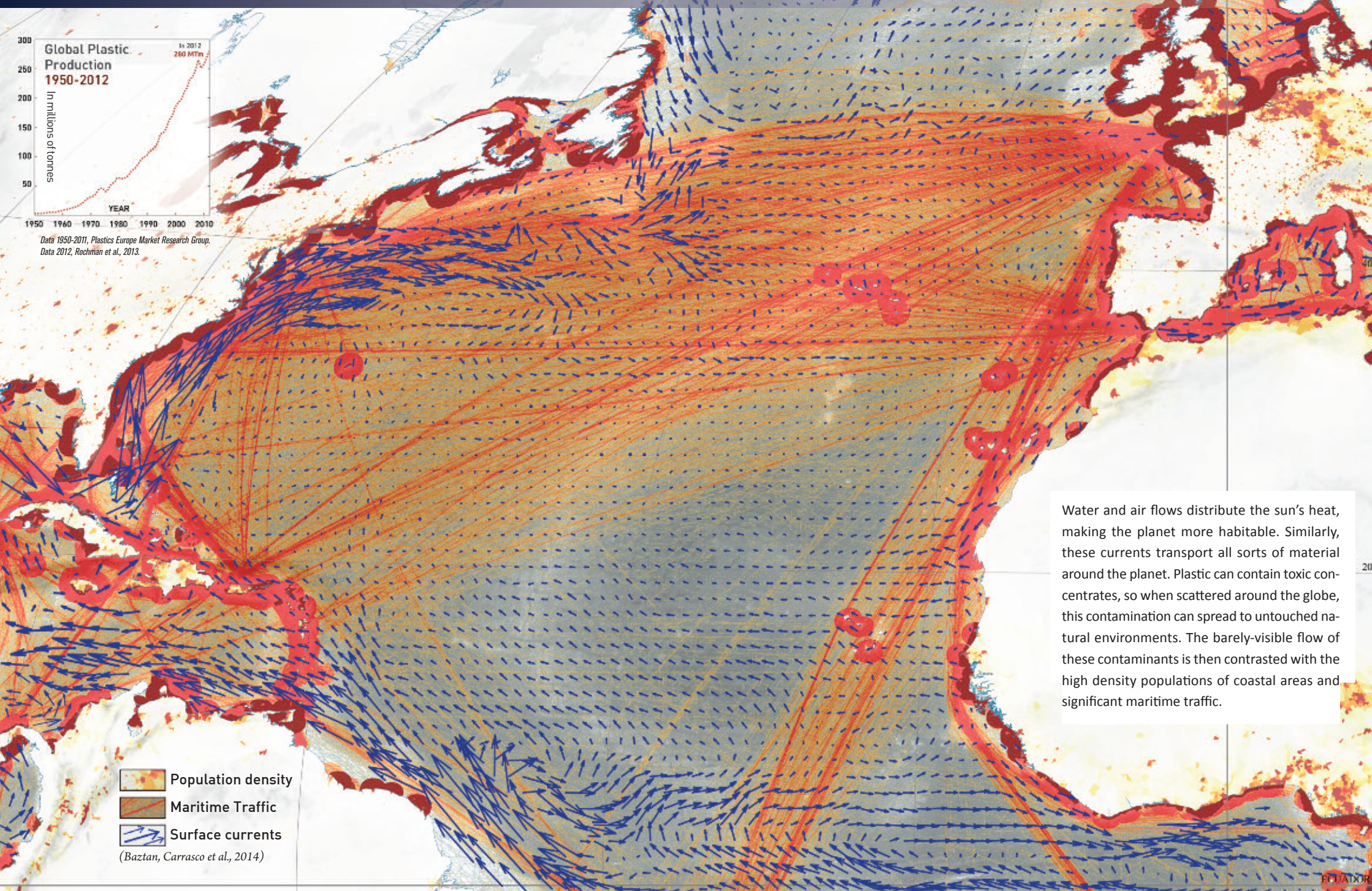
Plastic objects are photosensitive; they degrade progressively from larger parts (MACRO) to small fragments found on the coasts (MICRO). All are potentially toxic since they concentrate and transport Persistent Organic Pollutants. These fragments have revealed pesticides such as **dichloro-diphenyltrichloroethane (DDTs)** (Ryan 2012; Heskett et al., 2012), together with trace **metals** which can be ingested by animals, thus entering the food chain. (Ashton et al., 2010).

Micro

Our careless disposal of plastic bags, packaging and other single-use items offloads the cost of our consumer lifestyle onto nature, urban areas and public services. This thoughtlessness is fueled by commercial strategies to make our lives “easier,” while actually creating bigger problems for the future.

PHOTOGRAPHY: R. Mesa

A global problem... flows and interactions



Abandoned plastic: risks and consequences

Cetaceans and other marine mammals are victims of our dependence on plastic. When these magnificent creatures confuse plastic with food, they are unable to digest it, so it accumulates inside them and kills them by blocking their digestive system.

More than a third of "accidental" deaths in sea turtles are due to ingesting plastic. Beyond this, many others become fatally enmeshed in netting or plastic sheets.

Birds of all kinds become trapped in nets, bundles, and other plastic snares. Ingesting plastic is also lethal for birds, and for all animals.

Oceans have absorbed the waste of humanity for centuries. Currently, plastics make up more than 60% of the debris that accumulates on beaches and coastlines.



Origin, types, uses and toxicity

In 1869, Wesley Hyatt created the first plastic: celluloid. Now there are more than twenty basic categories of polymers and over 17,000 different varieties of plastic, which makes recycling them difficult. Approximately 4% of all consumed oil and gas becomes the primary material for creating plastics and another 4% is used to generate the energy needed for plastic production.

Resin codes	 PETE PET Polyethylene Terephthalate	 HDPE PEAD High density polyethylene	 PVC V Polyvinyl chloride	 LDPE PEBD Low density polyethylene	 PP Polypropylene	 PS Polystyrene	 OTROS Others
Everyday items							
Useful Life	1 hour 	1 hour 	15 hours 	1 hours 	30 minutes 	10 minutes 	1 week
Degradation	10 years 	100 years 	100 years 	500 years 	1000 years 	50 years 	50-100 years
Toxicity	A study published by Saido Katsuhiko's team in 2009 shows that plastics like polystyrene (PS) start to break down at 30°C, producing highly toxic monomers. Plastic is not an inert material; components such as Bisphenol A (BPA) cause			hormonal disruption associated with breast cancer (López-Carrillo et al., 2010), and phthalates can disrupt the hormonal development in babies (Swan et al., 2009).			

