Islands of Opportunity: Toward a Global Agreement on Plastic Pollution for Pacific Island Countries and Territories

April 2020
“No people on Earth are more suited to be guardians of the world’s largest ocean than those for whom it has been home for generations.

“No single country in the Pacific can by itself protect its own slice of the oceanic environment; the very nature of that environment prescribes regional effort, and to develop the ocean resources sustainably a regional unity is required.”

Epeli Hau’ofa
Tongan and Fijian writer and anthropologist

Introduction

Plastic pollution can now be found everywhere, from the remote shores of the Arctic to the deepest parts of the ocean. Up to 12 million tonnes of plastic leak into the marine environment annually, harming biodiversity and posing a threat to food security, sustainability and human health. As production continues to increase and waste management efforts are overwhelmed, we are only just beginning to comprehend the scale of the crisis.

The world is waking up to plastic pollution, yet current national, regional and international regulatory efforts are fragmented and insufficient to reduce the amount of plastic leaking into the environment. We urgently need global coordination and an ambitious plan to reduce the pervasive and transboundary impacts of pollution throughout the plastics lifecycle.
Plastic pollution in the Pacific

Pacific islanders have a deep connection to the marine environment, depending on its abundance for human and economic survival and wellbeing. Living at the very forefront of both climate change and marine pollution, Pacific islanders are uniquely positioned to recognise the connection between human activity and our surroundings, but, more importantly, to demonstrate leadership in pioneering the solutions that will avert an ever-worsening human and environmental health crisis.

Despite contributing as little as 1.3 per cent of the mismanaged plastic in the world’s oceans, Pacific Island Countries and Territories (PICTs) are one of its main recipients. As oceanic currents bring increasing volumes of plastic debris to shorelines, the situation on some Pacific islands has been described as a ‘waste disaster’.

At sea, the problem is no better. When plastic enters the marine environment, it is largely buoyant and drifts with prevailing currents and wind, accumulating in ocean gyres. The largest of these is the Great Pacific Garbage Patch – a 1.6 million km², 79,000 tonne mass of plastic debris in the North Pacific. Comprised predominantly of fisheries-derived plastic, the problem will only increase as fishing efforts intensify.

Even on the most remote island in the world – Henderson Island in the South Pacific – researchers found 17.6 tonnes of plastic and an estimated 2,000 pieces of microplastic per square metre. Other surveys have found hundreds of millions of pieces of microplastic on other Pacific islands, where they are killing off local wildlife.

Plastic is also polluting the very systems that uphold Pacific island economies: coral reefs. In a survey of 159 coral reefs in the Asia Pacific region, researchers estimated there to be 11.1 billion plastic items entangled in the corals, leading to abrasion, suffocation and, ultimately, mortality. This number is projected to increase by a further 40 per cent by 2025.

This accumulating plastic poses a serious threat to the integrity of regional ecosystems and resources and is now becoming ubiquitous in food chains. A recent study in the Pacific found plastic debris in 97 per cent of examined fish species and 25 per cent of all individuals. This is of extreme concern given how plastics bleach harmful toxic chemicals into the environment and that consumption of fish in the Pacific is three to six times higher per capita than the global average.

Furthermore, the economic cost (i.e. revenue losses to fisheries, aquaculture and marine tourism industries) associated with ocean-based consumer plastic pollution is also severe, amounting to an estimated $13 billion every year. With economies and livelihoods heavily dependent on marine resources, PICTs are disproportionately affected by the crisis.

Although the situation is dire, momentum is building towards tangible global action to address plastic pollution and there is no region better placed to lead international efforts to protect the ocean and coastal communities than the Pacific.
Regional conventions

There are five binding multilateral agreements with a mandate to manage some aspect of plastic pollution in the Pacific: the Noumea Convention (1990) (also known as The Convention for the Protection of Natural Resources and Environment of the South Pacific Region or SPREP Convention), the Noumea Emergencies Protocol (1990), the Noumea Dumping Protocol (1990), the Waigani Convention (1995), and the Convention for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean (WCPF Convention, 2004), which in 2017 agreed upon a binding Conservation Management Measure (CMM) on Marine Pollution (CMM 2017-04). Alongside international conventions, they comprise the legal architecture that governs plastic waste and pollution in the region (see Table 1).

Regional multilateral instruments

There are a range of national and regional instruments that address some aspect of plastic pollution in the Pacific. Broadly, regional instruments can be grouped into two categories: (i) the regional conventions that provide the legal basis for managing plastic pollution and (ii) regional strategies that aim to coordinate efforts across the region. As is the case with existing global conventions (see Convention on Plastic Pollution – Toward a New Global Convention with a Multi-Layered Governance Approach to Address Plastic Pollution), despite providing a valuable foundation on which to build, regional instruments over-emphasize waste management and have little scope to regulate the overwhelming quantities of plastic produced and imported into the Pacific region.
Regional strategies

Pacific Regional Waste and Pollution Management Strategy 2016–2025 (Cleaner Pacific 2025)

Cleaner Pacific 2025 is the comprehensive regional framework for sustainable waste management and pollution prevention in the Pacific region up until 2025. It was developed and endorsed by all 21 Secretariat of the Pacific Regional Environment Programme (SPREP) member PICTs in 2016, integrating strategic actions and past learnings to address all forms of waste and pollution in the region, including marine plastic pollution. The framework is guided by four strategic goals:

• to prevent the generation of waste and pollution;
• to recover resources from waste and pollutants;
• to improve management of residuals;
• to improve monitoring of the receiving environment.

These goals are being implemented through operationalising 15 strategic actions aimed at:

• strengthening institutional capacity;
• promoting public-private partnerships;
• promoting sustainable best practices in waste, chemicals and pollution management;
• developing human capacity;
• improving dissemination of outcomes and experiences;
• promoting regional and national cooperation.

Under its first strategic goal, Cleaner Pacific 2025 strives to prevent the generation of wastes yet holds limited scope for reducing the quantities of plastic entering the Pacific. Instead, the strategy is limited to tackling certain single-use plastics, addressing the data gap, national policies and material recovery. The mid-term review is due later this year.


The Pacific Marine Litter Action Plan 2018-2025 (MLAP) is the primary means through which the region is collaborating to address the plastic pollution crisis and sets out the key actions to minimise marine pollution across PICTs. It is a subset of both Cleaner Pacific 2025 and the pollution component of the Noumea Convention – the Pacific Oceans Pollution Prevention Programme (PACPOL) – which were developed in the context of the ‘Blue Pacific’ identity under the Framework for Pacific Regionalism and the ‘Pacific Oceanscape Framework’.

The action plan forms part of the United Nations Regional Seas Programme and the Global Partnership on Marine Litter (GPML), for which SPREP is the Pacific Regional Node.

There can be no doubt that SPREP and other national and regional bodies have done exceptional work in recent years to tackle the issue of marine plastic pollution through both the MLAP and other strategies. Funded partially through the Pacific Ocean Litter Project, the MLAP rightly intends to reduce the sources of certain single-use plastics such as straws and food containers.

Under Activity 1.1., the MLAP boldly commits to support the development of a global legal framework to address marine plastic pollution and microplastics. However, despite significant evidence that marine plastic pollution is mostly derived from land-based activities, the MLAP focuses primarily on sea-based sources and, like Cleaner Pacific 2025, holds limited scope for regulating the quantities of plastic entering the Pacific region.

Above: East Timorese workers sort mineral bottles at a used plastic processing factory in Manluena East Timor. Many countries have placed restrictions on single-use plastics but in the Pacific, there is a need to build capacity for collection, sorting and recycling of items such as plastic bottles, as well as providing infrastructure to facilitate re-use and sell-on in order to reduce the impacts of plastic pollution.
The case for global governance - a Pacific perspective

Recent developments

In recent years, momentum has been building to address the threat of plastic pollution at the global level. As part of the United Nations Agenda for Sustainable Development, SDG 14.1 states the aim: ‘by 2025, [to] prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution’, placing the issue of marine plastic pollution directly on the international agenda.33

Several international agreements, regional seas conventions and intergovernmental organisations have prioritised measures to achieve these ambitions. For example, the recent amendment to the Basel Convention restricting certain plastic waste exports, the International Maritime Organisation’s (IMO) endorsement of the ‘Voluntary Guidelines for the Marking of Fishing Gear’ to mitigate and prevent the problem of abandoned, lost or otherwise discarded fishing gear (ALDFG).34

Furthermore, the United Nations Environment Assembly (UNEA) has mandated an Ad-Hoc Open Ended Expert Working Group on Marine Litter and Microplastics (AHOEEG)35 to review national, regional and international efforts to combat plastic, financial and technical resources and to recommend potential policy options to accelerate action towards achieving SDG 14.1. These efforts are in addition to numerous regional seas conventions, national and regional action plans and policies, and industry and civil society initiatives to combat plastic pollution.

Why does the Pacific need a global agreement?

Plastic pollution is a global problem requiring a global solution. Given its transboundary nature, the Pacific region, despite producing and consuming very little of overall plastic waste, has shorelines littered with plastic carried by prevailing winds and oceanic currents (see Figure 3). Unwittingly, Pacific islanders find themselves on the frontline of the plastic pollution crisis and, while national and regional cooperation should continue, there is an opportunity for PICTs to lead the call for a global agreement on plastic pollution, ensuring its elements and design are responsive to the needs of the region and its measures effectively implemented.

As recognised by the United Nations Environment Programme (UNEP), existing governance frameworks which attempt to regulate plastic contain consistent regulatory and knowledge gaps.37

Moreover, despite marine plastic pollution originating largely from land-based activities,38 these sources are largely unregulated by regional treaties, Cleaner Pacific 2025 and MLAP, which focus largely on sea-based sources. Several voluntary, non-binding commitments to combat marine plastic pollution have also been formulated in the recent past, but limited evidence is available to evaluate their impact. These include the United Nations Clean Seas Initiative, the Global Partnership on Marine Litter (GPML), the Global Programme of Action for the Protection of the Marine Environment from Land-Based Activities (GP A) and pledges at Our Ocean Conferences and the 2017 United Nations Ocean Conference. Fundamentally, voluntary agreements alone cannot address the root of the problem, which is increasing volumes of virgin plastic production. The MLAP supports the development of a global legal framework. In fact, a global legal framework would represent the only effective way for the region to regulate production and industry due diligence – the most essential aspects of reducing plastic pollution. In relation to this, the first strategic goal of Cleaner Pacific 2025 is to prevent the generation of wastes and activities (GPA) and pledges at Our Ocean Conferences and the 2017 United Nations Ocean Conference.

Figure 3: Sources of Land-Based Plastic Debris in the South Pacific Ocean (Source: WWF)

<table>
<thead>
<tr>
<th>Relative contributions by country/region</th>
<th>Total estimated plastic count</th>
</tr>
</thead>
<tbody>
<tr>
<td>South America 36.6%</td>
<td>491 billion pieces</td>
</tr>
<tr>
<td>Indonesia 30.8%</td>
<td></td>
</tr>
<tr>
<td>Australia and New Zealand 20.2%</td>
<td></td>
</tr>
<tr>
<td>Other 6.0%</td>
<td></td>
</tr>
<tr>
<td>China 4.1%</td>
<td></td>
</tr>
<tr>
<td>South East Asia 2.2%</td>
<td></td>
</tr>
</tbody>
</table>

Footnotes:

However, with the petrochemical industry planning mass expansion, largely out of reach of PICT jurisdictions, there is little chance production (and thus the flow of plastic into the Pacific) can decrease without a global legal mechanism.

A global agreement on plastic and plastic pollution would provide a level of global coordination and accountability currently missing. It would provide a legal basis for technical resource and knowledge exchange, as well as access to sustainable finance mechanisms to develop and implement tailored PICT national action plans. Such an agreement could also mandate the elimination of toxic substances in plastics, set binding global reduction targets, ensure best-practice management for all stages of the plastics lifecycle and mandate the Polluter Pays Principle—(guiding principle 3 of Cleaner Pacific 2025) by requiring producers to pay for the full lifecycle costs of plastic.

Furthermore, as both Cleaner Pacific 2025 and MLAP recognise, plastic waste management and climate change are inextricably linked. The petrochemicals used to produce plastics are set to become the world’s biggest driver of oil and natural gas demand, further fueling the climate crisis. Management of wastes will likely become yet more challenging as sea levels rise, landfill sites become inoperable, harmful plastic chemicals leach into the environment, ecosystems degrade and disaster resilience is compromised. The Boe Declaration on Regional Security and the Kainaki II Declaration for Urgent Climate Change Action announced to the world that the Pacific will not stand for inaction. Indeed, during the 2018 Pacific Island Forum Leaders’ Meeting, it was observed that waste and pollution, particularly plastic, is now of equal importance to the region as climate change.

A new global agreement is the only tangible and effective means to introduce the restrictions on production necessary to ‘turn off the tap’, develop and implement national action plans, ensure best-practice management throughout the plastic lifecycle and ensure a reduction of plastic being produced and entering the Pacific environment.

Below: Despite the pressure on waste management infrastructure and bans on certain plastic products, the expansion of plastic production facilities is rapidly advancing around the world. This is part of a petrochemical plant being built on the Ohio River in Monaca, Pa., for the Royal Dutch Shell Company. The plant, which is capable of producing 1.6 million tons of raw plastic annually, is expected to begin operations by 2021.

Opportunities for Pacific engagement

This year has been dubbed ‘the year of ocean action’, during which we must ‘rise up’ to protect our marine environment. As we gather together to write the new story of our oceans, we recall the statement from Ambassadors Ngédikas Olai Uludong of Palau and Martin Hermann of Denmark, during the UN Ocean Conference preparatory meeting in New York: “2020 is a huge opportunity for the global community to come together and raise the level of ambition”.43

History has proven that PICTs are instrumental in steering tangible progress on environmental matters at the global level. They were highly influential in the formulation of securing a standalone Sustainable Development Goal for the ocean, SDG 14, as well as guiding the global narrative on climate change towards progressive action. As with climate change, addressing plastic pollution requires an urgent and concerted global response.

As some of the most severely impacted by plastic pollution and with such close cultural, economic and social ties to the ocean, PICTs are uniquely placed to build on the success of historic interventions by engaging in the United Nations Environment Assembly Ad Hoc Open Ended Expert Group process on Marine Litter and Microplastics. This would position the Pacific to be leaders in this space, working with other like-minded parties to build a critical mass of support to secure a negotiating mandate for a global agreement at UNEA-5 in 2021.
Recommendations

To support the process of engagement leading to UNEA-5, there are multiple opportunities to establish Pacific island leadership on engagement on the issue of plastic pollution. While many events are currently facing postponement and cancellation due to the recent global outbreak of COVID-19, the below recommendations highlight potential opportunities for the sharing of ideas and leadership for the region, whether they happen online or in-person.

- Demonstrate Pacific island leadership on the issue of plastic pollution by signing a regional declaration of support for a global agreement at key strategic events, such as the United Nations Oceans Conference, Our Oceans Conference and Pacific Island Leaders’ Forum.

- Ratification of existing regional instruments to strengthen and coordinate existing coverage of regional measures to address plastic pollution. Most importantly, as outlined in the MLPF, this includes the Noumea Convention, the Noumea Dumping Protocol, and the Waigani Convention.

- Ratification of existing global instruments to strengthen and coordinate existing coverage of international measures to address plastic pollution. These include ratifying international conventions, protocols, protocols and subregion agreements.

- Building on national and regional consultation around the Ad Hoc Open Ended Expert Group and other regional meetings, identify Pacific needs and priorities within a global agreement addressing the full life cycle of plastics.

- Strategic and active engagement at AHOEEG-4, AHOEEG-5 and UNEA-5 in order to secure a negotiating mandate at UNEA-5.

References:

28. Phillips, L. (2009). Building on national and regional consultation around the Ad Hoc Open Ended Expert Group and other regional meetings, identify Pacific needs and priorities within a global agreement addressing the full life cycle of plastics.
29. Strategic and active engagement at AHOEEG-4, AHOEEG-5 and UNEA-5 in order to secure a negotiating mandate at UNEA-5.