

# **MARINE POLLUTION, MARINE DEBRIS PARTNERSHIP DIALOGUE FROM A PACIFIC ISLANDS AND SIDS PERSPECTIVE**

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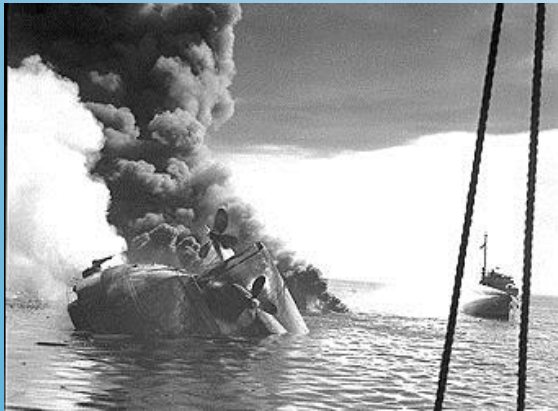
- Established in 1993 in Samoa
- 21 Pacific islands
- 5 metropolitan countries

## MANDATE

To promote cooperation in the Pacific islands region and to provide assistance in order to protect and improve the environment and to ensure sustainable development for present and future generations

## UN Oceans Conference Pacific Prep Meeting:

- **Urgent action for a Cleaner Pacific at all levels**
- **Reduce Plastics and all forms of pollution by 2025**
- **Recognise impacts by polluting practices from outside the Pacific region**
- **Called for Action on difficult and legacy marine pollution issues such as nuclear waste, radioactive and other contaminants, shipwrecks and WWII relics**



# WWII Wrecks

13 million tonnes of shipping sunk in the Pacific in WWII

Britain (1940 vessels), Japan (3322 vessels) and the US (1022 vessels)

Regional Strategy in place to address WWII Wrecks

- USS Mississinewa – Ulithi Atoll 9Mil Litres recovered

## Poor waste disposal contributes to 80% of marine debris

- Hazards to vessel navigation
- Potential vehicle for aquatic invasive species transport
- Transport and release of pesticides
- Loss of public amenity
- Marine animal entanglement and smothering

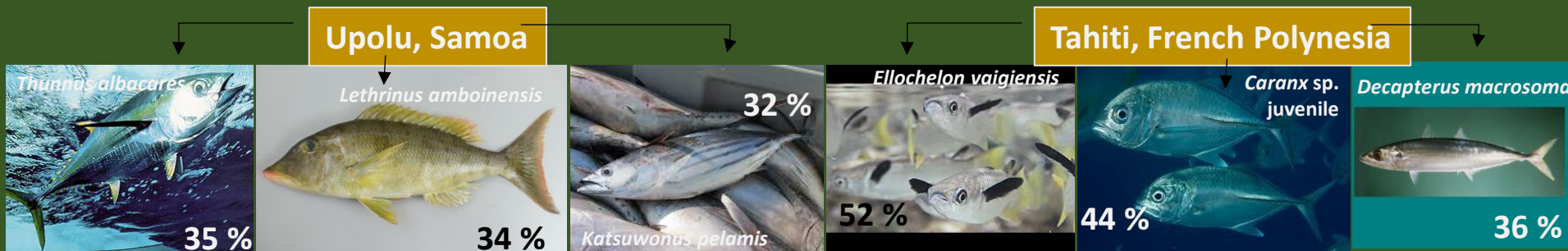


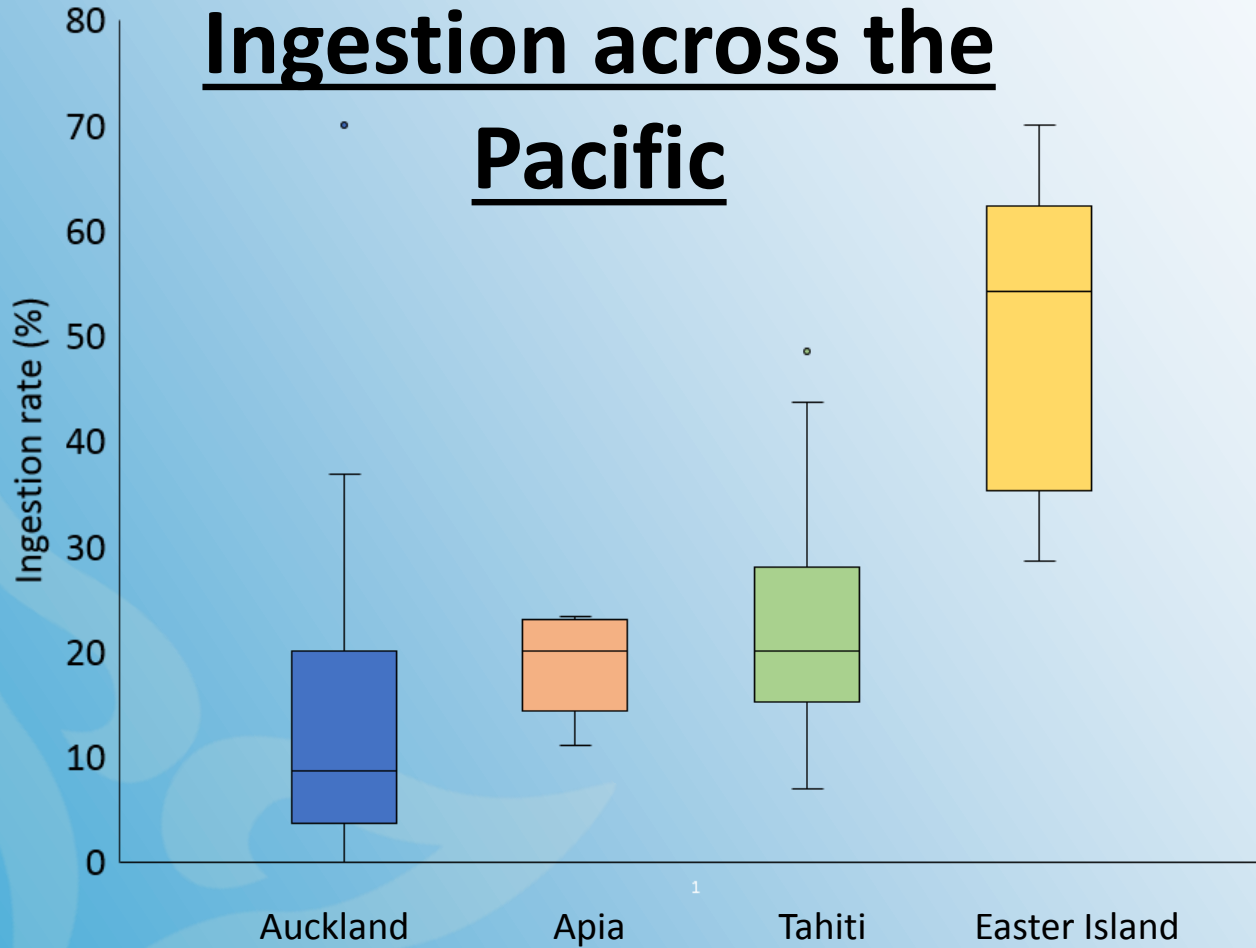
# PLASTIC INGESTION BY FISH

GLOBAL REVIEW - Out of 215 species of marine fish examined for the presence of marine plastics, plastic ingestion was found in **136 species**, of which **109** were of commercial value.



FIELD STUDY – 34 species collected from 3 locations: **Upolu (12), Tahiti (9), Rapa Nui (6)**, plastic found in **97%** of fish species. More plastic found as you go eastward





- **Waste management capacity and practices**
- **Solid waste collection and management**
- **National polices and legislation to control plastics**
- **Alternatives to replace single use plastics is sustainable**
- **Alternative still contain harmful plastic content**



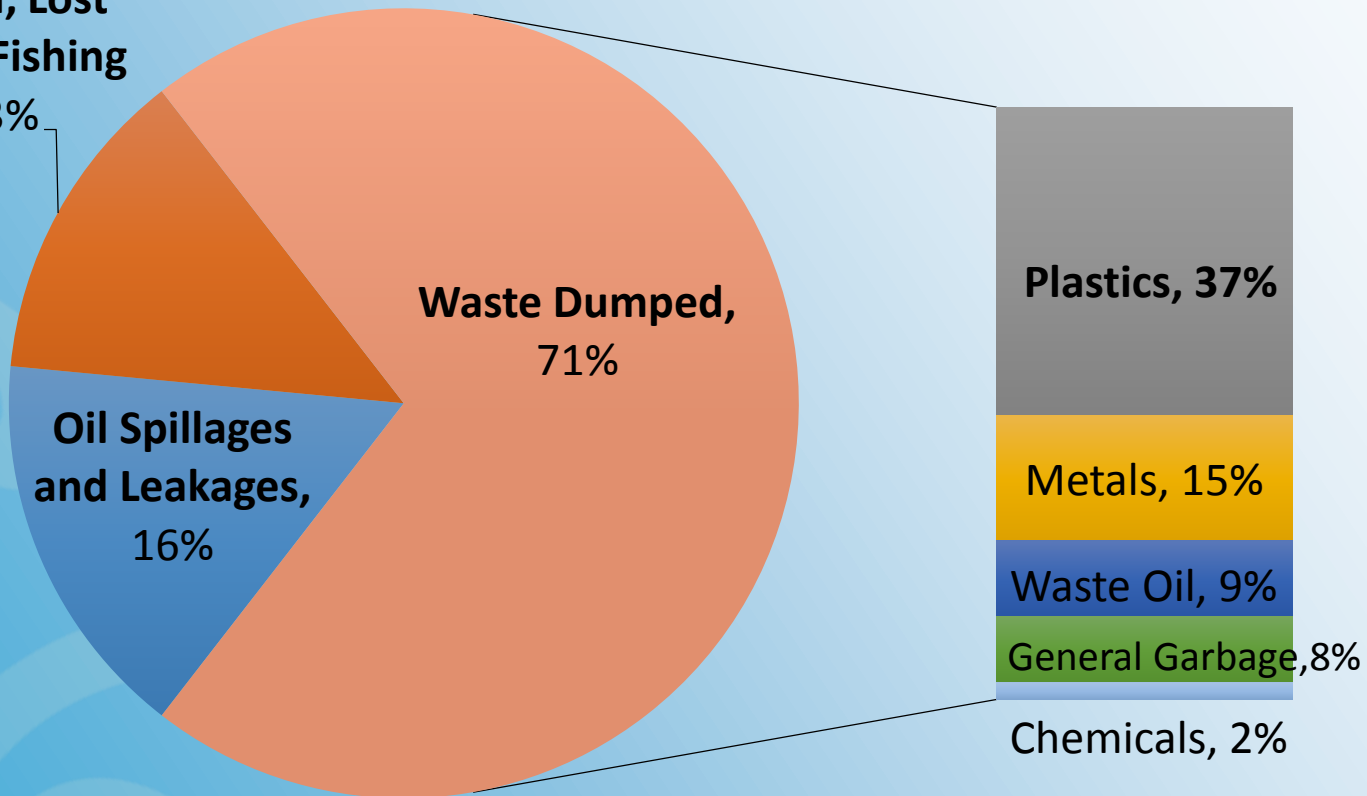
# OBSERVER REPORTS ON MARINE POLLUTION

SPC/FFA REGIONAL OBSERVER POLLUTION REPORT				FORM GEN-6		
<small>REVISED MARCH 2014</small>						
OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE OF			
- fill in one form for <u>each</u> pollution incident -						
<b>INCIDENT DETAILS</b>						
DD	Ship's DATE and TIME MM YY	LATITUDE (dd°mm.mmm')	N / S	LONGITUDE (ddd°mm.mmm')		
	hh mm			E / W		
				EEZ / HARBOUR		
WIND DIRECTION	WIND SPEED	SEA CONDITIONS (C, S, M, R)	CURRENT : (knts and direction *)	OBSERVER'S VESSEL ACTIVITY		
NAME OF OFFENDING VESSEL		IRCS	TYPE OF VESSEL	YOUR POSITION FROM OFFENDING VESSEL Compass Bearing Distance (nautical miles)		
<b>WASTE DUMPED OVERBOARD</b>						
Material	<small>Tick each box that applies</small>	Describe Type	Describe Quantity			
Plastics	<input type="checkbox"/>					
Metals	<input type="checkbox"/>					
Waste oil	<input type="checkbox"/>					
Chemicals	<input type="checkbox"/>					
General garbage <small>(within 12 miles of shoreline)</small>	<input type="checkbox"/>	describe:				
<b>OIL SPILLAGES AND LEAKAGES</b>						
Source	<small>Tick each box that applies</small>	Visual Appearance / Colour	Describe Area and Quantity			
Vessel Aground / Collision	<input type="checkbox"/>					
Vessel at Anchor / Berth	<input type="checkbox"/>					
Vessel Underway	<input type="checkbox"/>					
Land based source - Describe source	<input type="checkbox"/>					
Other - please specify	<input type="checkbox"/>					
<b>Abandoned or Lost Fishing Gear</b>						
Source	Activity	Describe Gear	Estimate Quantity			
Lost during fishing						
Abandoned						
Dumped						
Other comments:						
Were there any stickers/ posters displayed to remind the vessel about MARPOL Regulations? Did you take any photos? If yes, please state the number(s) of the photo frames or files.						
<table border="1"> <tr> <td>Y / N</td> </tr> <tr> <td>Y / N</td> </tr> </table>					Y / N	Y / N
Y / N						
Y / N						
<p><b>MARPOL Regulations - state</b> It is illegal for any vessel to discard any form of plastics into the sea at anytime. It is illegal for any vessel to discard any form of oil into the sea at anytime. It is illegal for any vessel to dump any form of rubbish into the sea within 12 nautical mile of the sea shore.</p>						

Observer Name	Put first name first, and your family name last.
<b>Observer Name</b>	Put first name first, and your family name last.
<b>Vessel Name</b>	Record the full name of the vessel. Do not use any abbreviations.
<b>Observer ID Number</b>	Use the number assigned by the observer programme e.g. AA 03-01
<b>Page of</b>	Number all GEN-6 pages in sequence from the start until the end of the trip
<b>Date of Incident (dd/mm/yy)</b>	Date pollution seen in day, month and year. <small>Use ship's time as defined in other observer data collection forms</small>
<b>Time (00.00 hrs)</b>	Report the time using the 24hr clock.
<b>Latitude / Longitude</b>	Record the GPS position of the host vessel when the pollution was first seen.
<b>EEZ / Harbour</b>	Record the EEZ or, for shorebase staff, mark port or Harbour name here.
<b>Wind Direction</b>	The prevailing wind direction. Use degree eg. 90 degrees for an east wind
<b>Wind Speed</b>	Record the prevailing wind speed.
<b>Sea Conditions</b>	C- Calm, S- Slight, M- Moderate, R - Rough.
<b>Current (knts and direction)</b>	If the vessel has a current meter find out what the current strength is.
<b>Observer's vessel activity</b>	State the host (observer's) vessel activity at the time of the pollution incident. Some activities to consider might be: fishing; transshipping; bunkering; transitting; aground.
<b>Name of offending vessel</b>	Make an effort to record the complete and proper name of offending vessel. Be careful not to make any spelling mistakes which may make it difficult to prosecute the vessel if the report goes through legal proceedings.
<b>IRCS</b>	The international callsign is marked in large letters on the side of the boat.
<b>Type of vessel</b>	Consider the full vessel and aircraft codes on the front of Form GEN-1.
<b>Your position from offending vessel.</b>	Use the vessel compass to get direction of offending vessel from host vessel. The radar can be used to get an exact distance in nautical miles. Otherwise give best estimate and note if it is the observer's or someone else's.
<b>WASTE DUMPED OVERBOARD</b>	
<b>Material</b>	Tick each correct box to show which types of materials were dumped. Only tick two or more materials if vessel has dumped more than one material type over at the same time - e.g.: it dumped plastic and metal at 10:00hrs. If plastic was dumped at 10:00hrs and metal at 16:00hrs - record separately. Give as good a description as possible of the type of dumped material. E.g.: - plastic bags; bait boxes plastic strapping; bait boxes plastic bags; etc.
<b>Describe type</b>	Give a best estimate of the amount dumped. Sometimes this will be easy - e.g., 12 metal oil drums were dumped. At other times the material might be too far away to see the amount. If it is too far away then estimate the amount as well as possible and make note that it is only a rough estimate at distance.
<b>Describe Quantities</b>	
<b>OIL SPILLAGES AND LEAKAGES</b>	
<b>Source</b>	Tick to indicate where the spillage or leak came from
<b>Visual Appearance / Colour</b>	Describe the colour/ thickness/depth of the spill as well as able.
<b>Describe Area and Quantity</b>	Give a best estimate of the size of the spill. The boat could be a size reference - e.g.: it was 4 times bigger than the boat.
<b>Abandoned or Lost Fishing Gear</b>	
<b>Lost during fishing</b>	Lost by host vessel. Describe activity when gear lost (setting/hauling/soak)
<b>Abandoned</b>	For any fishing gear abandoned by another vessel and found by host vessel
<b>Dumped</b>	For any gear dumped by host vessel, see above.

# Purse Seine Pollution Incidents by Pollution Type, 2003-2015

Abandoned, Lost  
or Dumped Fishing  
Gear, 13%



# What are the solutions?

- **Raise awareness**
- **Improved waste management capacity and practices**
- **3R's - Reduce, Reuse, Recycle**
- **Fast track policies and legislation control and ban**
- **Improve vessel on-board practices**
- **Improve port state facilities - Pacific Regional Reception Facilities Plan**
- **Meet international obligations such MARPOL, Cape Town Agreement**

# What are the solutions?

- **International Community can also assist SIDS as well**
- **Assist members and SIDS meet IMO Convention Obligations such as MARPOL**
- **Assist in resource mobilization to implement regional coordinated approaches – Cleaner Pacific 2025**
- **Ensure plastics are included into reduction and removal strategies**
- **Use practices that minimize the creation and accumulation of non-biodegradable waste**
- **Strengthen the Global initiatives such as Global Partnership Marine Litter including ALDFG**