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#### Foreword



To begin with, the Niutao Coastal Fisheries Management Plan is called MAKAIA LAA.

The island slogan MAKAIA LAA refers to the lead fisher's call to the front paddlers, to hold fast to his paddle as the wahoo is about to be caught. In reference to fisheries and island developments, it reminds the community, as well as scattered Niutao civil- servants, to hold fast to their paddles amidst the forward shift of the people for a better livelihood.

lal

Tuitonga Pelosa Ulualiki o Niutao



### Statement from the Minister



The idea to develop fisheries management plans for the outer islands of Tuvalu came to light in 2021 as a result of the respective Island Strategic Plans that highlight fisheries as a key priority area.

In 2022, the Tuvalu Fisheries Department (the Department) commenced its work to collect fisheries information through a series of consultations with the outer islands' communities. A second series of consultations was held in the following year to validate the information collected previously. The Department also found that these communities find great value in having a management plan that provides guidance in their aspirations to sustainably manage and improve their coastal fisheries.

In light of the results from these consultations, the Department started to draft and formulate the different fisheries management plans for all the outer islands and to align them with the key objectives of existing plans like Te Kete (Tuvalu National Strategy for Sustainable Development 2021-2030), Tuvalu Fisheries Corporate Plan 2023-2025, and the respective Island Strategic Plans.

The successful management of each island's coastal fisheries resources lies heavily in the hands of the Falekaupule, Kaupule, and the people on the island. The Department will stand ready to provide technical and also partly financial assistance to each island community as requested.

Throughout the years, most of the work and services provided by the Department's Coastal Fisheries Section has contributed to the development process of the fisheries management plans. But these efforts would have been impossible without the continued support and financial assistance provided by our donor partners, for which I share my profound gratitude and appreciation – thank you!

I would like to express my sincere thanks to all the island communities in the outer islands, from the Falekaupule, the Kaupule, to groups of women, youth, and fishermen, for their continued support and trusting us to invest in this program. I look forward to your future cooperation in implementing this plan.

Also, fakafetai lasi to the New Zealand Ministry of Foreign Affairs and Trade for the financial and technical support of this work through the Tuvalu Fisheries Support Programme. I would also like to acknowledge the external review by the Pacific Community (SPC) and New Zealand Ministry for Primary Industries.

Lastly, my big fakafetai lasi to all staff of the Tuvalu Fisheries Department for their tireless efforts in achieving this important task.

Hon. Sa'aga Talu Teafa Minister of Natural Resources Development

This plan comes into effect on the day it is signed and approved.

Signed on this Lock day of August 2024

Photograph credits

WanTech, Lotokufaki Kaitu, Niutao Kaupule



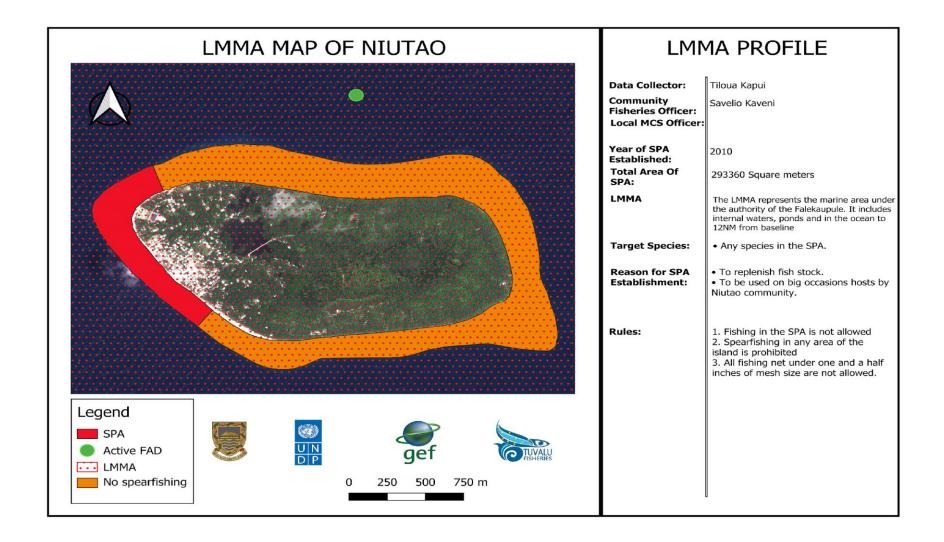
## Definitions

Unless otherwise expressed, words and expressions used in this plan have the same meaning as defined in the Marine Resources Act 2006 and Falekaupule Act 2008.

Aquaculture	The cultivation, propagation or farming of fish, whether from eggs, spawn, spat or seed, including rearing fish lawfully taken from the wild or lawfully imported into the country, or by other similar process
Baseline	The low-water line of the seaward side of the reef fringing the coast of any part of Tuvalu or bounding any lagoon waters adjacent to any part of the coast, or where a reef is not present, the low-waterline of the coast itself
Bye-law	A local law made by a specific island Falekaupule or as defined in the Falekaupule Act 2008
Creel Survey	A method to collect coastal fisheries data by interviewing fishers about the catch they have landed and their effort (i.e., fishing method and how long they have spent fishing)
FAD	A Fish Aggregating Device, and includes any floating object, whether anchored or drifting, used for the purpose of aggregating fish
Fish	Any marine or aquatic animal or plant, whether piscine or not, and includes shellfish, crustaceans, sponges, holothurians (beche-de-mer), sea urchins and turtles and their eggs
Gleaning	The hand gathering of fish from the intertidal zone
Locally Managed Marine Area (LMMA)	An area of nearshore waters and coastal resources out to 12 nautical miles that is largely or wholly managed at a local level by the coastal communities, land- owning groups, partner organisations, and/or collaborative government representatives who reside or are based in the immediate area
Natural ponds	Any naturally made body of still waters
Restocking	The deliberate and controlled introduction of additional individuals of a particular species into a body of water, such as a pond or the ocean, for the purpose of replenishing or enhancing the natural population
Special Protected Area (SPA)	A Special Protected Area within the LMMA under the Falekaupule area
Territorial Sea	that part of the sea adjacent to the coast of any island of Tuvalu that is within the 12 nautical miles measured from the baseline

## **Abbreviations**

LMMA	Locally Managed Marine Area
SPA	Special Protected Area
TFD	Tuvalu Fisheries Department
FAD	Fish Aggregating Device



#### Part 1: Introduction

#### 1.1 Why do we need a fisheries management plan?

Niutao Island community relies heavily on its coastal marine resources as a primary source of protein. Niutao also has natural ponds that have the potential to provide alternative livelihoods for the community.

The Niutao community traditionally managed its coastal resources prior to the introduction and implementation of the Special Protected Area (SPA). The SPA aims to protect these resources and restore biodiversity by safeguarding breeding hotspots and allowing fish populations to recover. This can be beneficial by allowing more fish to repopulate adjacent and nearby areas. However, it has unintentionally limited access for people without canoes and boats, who rely heavily on reef resources.

Outside of the SPA, there has been depletion of coral reef fish species such as Manini (*Acanthurus triostegus*), mato, safole, nanue, ula, kanase and loli. However, even though fishing is more challenging, these species can still be caught using a variety of both modern and traditional fishing techniques. In addition, certain species like uga koa, alili (which the community has agreed to stop fishing to allow the populations to recover) and kalo have not been observed for a long time. These issues collectively highlight the need for improved fisheries management in the Niutao community, so that future generations have the opportunity to witness and sustainably harvest these fisheries resources.

The purpose of this Coastal Fisheries Management Plan (the Plan) is to guide the Niutao community to effectively and sustainably manage their coastal fisheries resources. This includes strategies to restore coastal ecosystems and habitats, and encourage offshore fishing to reduce the pressure on inshore reefs.



This fish pond was built by the Ridge to Reef project. Unfortunately, it was not a success. There were a lot of questions why it failed but after doing some research it was found that the main reason was due to a lack of supply of oxygen because the pond was not deep enough, resulting in the mass fish deaths.

#### 1.2 Scope

This Plan applies to the area of authority of the Niutao Falekaupule under the Falekaupule Act 2008. This is the Locally Managed Marine Area (LMMA), which includes the lagoons, coastal, and all other waters extending out 12 nautical miles from the baseline. This Plan includes all coastal fisheries, and aquaculture and fisheries related activities within the LMMA, including traditional fishing.

This Plan does not include pelagic and oceanic fisheries.

#### 1.3 Goal

An improved, sustained, and well-managed coastal reef fisheries and ecosystems.

#### 1.4 Policy and legislation

This Plan is aligned to the:

- Te Kete National Strategy for Sustainable Development (2021-2030)
- Te Lagai Fakalaga Fenua III, Niutao (2021-2024)
- Tuvalu Fisheries Department Corporate Plan (2023-2025)
- Falekaupule Act 2008
- Marine Resources Act 2008
- Maritime Zones Act 2012
- Wildlife Conservation Act 1975

The development and implementation of the Plan is guided by the following attributes, as listed in the Te Lagai Fakalaga Fenua III (2021-2024)

- Kindness
- Healthy, well-educated and sincere
- Honesty and discipline
- Peaceful
- Respect
- Having foresight in planning ahead and taking good care of the people
- Dedicated and take actions as and where appropriate.
- Playing fair at all times
- Fair distribution of opportunities
- Be courageous
- Not to be biased towards friend and relatives
- People of God and fearful of the Almighty
- Perseverance, humility and never take sides

## Part 2: Authorities and Roles

Table 1 states the authorities and roles involved in the development and implementation of this Plan.

Specific responsibilities pertaining to the Plan's activities are outlined in the Implementation, Monitoring and Evaluation Plan (Appendix I).

#### **Table 1: Authorities and Roles**

Aut	hority	Role
1.	Minister for Natural Resources Development	Approves the Coastal Fisheries Management Plan.
2.	Falekaupule	Development of bye-laws, decision-making, and governance under the Falekaupule Act 2008 in relation to this Plan.
3.	Kaupule	Co-ordinate implementation of the Plan, key liaison between the community and government departments, and has responsibilities to enforce and ensure compliance with management measures and rules under the Plan.
4.	Coastal Fisheries Management Committee	Oversee the implementation and progress of the Plan. Work with the community, Tuvalu Fisheries Department, and other agencies to ensure timely implementation of the Plan, including provision of annual progress reports.
5.	Fishermen's Association	Represent fishers' rights and interests, FAD maintenance, and provide fisheries information.
6.	Women's Association	Represent women's rights and interests in the fishery especially with gleaning and rod fishing, post-harvest activities, and raising awareness.
7.	Youth Association	Represent youth's rights and interests in the fishery, coordinate social participation in community events, and raising awareness.
8.	Tuvalu Fisheries Department	Provide technical and financial assistance where appropriate, support and co-ordinate aquaculture and fisheries-related activities, and implement national plans and strategies.
9.	Department of Environment	Assist with technical and financial assistance, and implement other relevant national plans and strategies.
10.	Non-Government Organisations (NGOs)	Assist with technical and financial assistance.

## Part 3: Status of the Fishery

While the people of Niutao rely heavily on offshore fisheries resources, coastal fisheries remain very important as a source of food security and livelihood (approximately 33% of recorded catch).

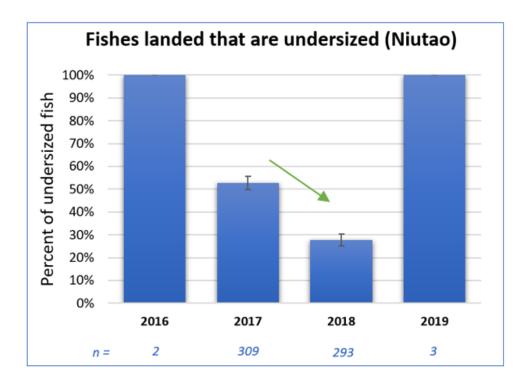
Among the coastal catch records, *Acanthurus triostegus* (locally known as Manini or Koinava) and *Cirrhitus pinnulatus* (Patuki) are the most frequently landed species (Table 2). Fishers typically use casting nets, rod fishing, reel fishing and float rod fishing to catch coastal fish.

	Coastal Species*	Local Name	Family	Number	Total Weight (kg)	Fishing methods used
1	Acanthurus triostegus	Manini, Koinava	Acanthuridae	255	21	Casting net
2	Cirrhitus pinnulatus	Patuki	Cirrhitidae	232	41	Rod fishing
3	Acanthurus leucopareius	Maono	Acanthuridae	128	18	Reel fishing
4	Epinephelus merra	Gatalaliki	Serranidae	117	8	Float Rod fishing
5	Epinephelus macrospilos	Gatala , fapuku	Serranidae	109	5	Float Rod fishing
6	Abudefduf saxatilis	Mutumutu	Pomacentrida e	47	7	Casting net
7	Acanthurus lineatus	Ponelolo, Alogo, Pone hamoa	Acanthuridae	41	8	Casting net
8	Kyphosus vaigiensis	Nanue	Kyphosidae	36	37	Casting net
9	Myripristis pralinia?	Malau puku	Holocentridae	32	4	Slow trolling
10	Conger macrocephalus	Tuna	Congridae	21	61	Trolling
11	Cephalopholis sonnerati	Pula	Serranidae	19	7	Lead jigging
12	Aphareus furca	Palusega, Kotua, Taelepe, Takuoga	Lutjanidae	17	3	Lead jigging
13	Trachinotus baillonii	Lai	Carangidae	13	3	Casting net
14	Anyperodon leucogrammicus	Gatala lautalo, Gatala lautala	Serranidae	11	5	Lead jigging
15	Neoniphon argenteus	Talakisi	Holocentridae	10		Reef scoop net

Table 2: Most frequently landed species in Niutao based on creel surveys conducted from 2016 to
2022

\*Other fish species are listed in Appendix II.

Recent Creel Survey Reports indicate overall status of Niutao's coastal fisheries resources has been poor, with an average of 49% of the fishes caught being undersized (2016 - 2019, Figure 2). This is well above the national average of 36%. Ideally, no undersize fish should be landed; hence management actions will be necessary to reduce catch of undersize fish and this would lead to improvements in the resources.



**Figure 2**. Percentage of fishes being landed undersized by year. The sample size (n) is reported in blue. Green arrow = good trend red arrow = bad trend. There is not enough data in 2016, 2019-2022 to make any accurate assessments for Niutao.



## Part 4: Objectives and Strategies: What we want to achieve

For the Niutao coastal fishery to become sustainable and better-managed, our community needs to embark on the following objectives and strategies that will strengthen our ecosystems, cultural fishing practices, and introduce alternative livelihoods such as aquaculture.

OBJECTIVES	STRATEGIES
1. To strengthen the rules and encourage compliance	<ul><li>1.1 Strengthen awareness on rules and regulations.</li><li>1.2 Strengthen resources and capacity for effective implementation of rules and regulations.</li></ul>
2. To restore coral ecosystems and habitats	<ul> <li>2.1 Improve understanding and information of coral ecosystems and marine habitats.</li> <li>2.2 Investigate transplanting activity based on coral survey results.</li> <li>2.3 Evaluate and establish suitable size limits for coastal species.</li> <li>2.4 Strengthen programmes to reduce marine pollution.</li> </ul>
3. To improve food security	<ul> <li>3.1 Investigate potential aquaculture opportunities for the community.</li> <li>3.2 Investigate the feasibility of restocking the natural ponds with selected native species.</li> <li>3.3 Maintain and strengthen the FAD program and improve seasafety measures.</li> <li>3.4 Enhance the capacity of the community in post-harvest programmes (i.e. preservative methods, value added, and safety storage)</li> </ul>
4. To preserve traditional fishing knowledge and encourage participation by all the community	<ul><li>4.1 Develop community skills (including women and youth) on traditional fishing methods.</li><li>4.2 Develop material to document traditional fishing knowledge.</li></ul>

#### Table 3. Management objectives and strategies



## Part 5: Management Measures

The following management measures will be implemented to sustainably manage our coastal fisheries resources.

These measures will be given legal effect through the national coastal fisheries regulations and bye laws in accordance with the Marine Resources Act 2008 and Falekaupule Act 2008.

Mana	agement Measures
1	All fishing activity in the Special Protected Area (SPA) is strictly prohibited.
2	Spearfishing (any fishing with a spear, stick, or spear gun) is strictly prohibited in the entire LMMA.
3	All fishing nets with a mesh size of one and a half (1.5) inches and less are not allowed in the entire LMMA.
4	Fishing of <b>alili (turbo snail)</b> is strictly prohibited.

#### Part 6: Review & Amendment

The Plan will be effective for three years (2024-2027) following date of approval by the Minister for Natural Resources Development.

A mid-term review will be conducted before the end of 2026, during which minor adjustments may be made to ensure the successful implementation of the Plan. An end-of-term review will take place by the end of 2027. The review will evaluate the current Plan and provide up-to-date scientific information for the drafting of the next plan.

The Fisheries Management Committee will produce an annual report on the status of the Plan, working together with the Kaupule Secretary.

# Part 7: Funding Strategy for the Plan

The activities outlined in this Plan will be supported by a combination of funding sources to ensure sustainability and self-reliance.

Communities will not solely depend on government funds. Instead, they will also utilise their island budgets and the Vessel Day Scheme community funds allocated to each Kaupule.

Additionally, external financial assistance may be sought through funding proposals and collaboration with ongoing projects supported by external partners. This diversified funding approach will enhance the effectiveness and resilience of the activities stated in this Plan.

# Appendix I Implementation, Monitoring and Evaluation

Strategies	Actions	Responsibilities	Resources	Timeline	Indicators	Target	Progress	Reporting	Risks
Objective 1: To strengthen the rules and encourage compliance									
	<ul> <li>Procure billboards</li> </ul>		Niutao	2024				Niutao	
Strategy 1.1: Strengthen awareness on rules and regulations	<ul> <li>Install billboards in identified sites around Niutao community</li> </ul>	Coastal Section, TFD in collaboration with Niutao Kaupule	Kaupule Tuvalu Fisheries Department Billboard materials	2025	Billboards procured and installed	Billboards installed at key access points on Niutao island	Planned	Kaupule Tuvalu Fisheries Department Niutao community	Lack of funding Lack of staff and equipment resources
Strategy 1.2: Strengthen	<ul> <li>Advertise the compliance officer's new post</li> </ul>		Niutao Kaupule Tuvalu Fisheries	2024		New		Niutao Kaupule Tuvalu	
Strengthen resources and capacity for effective implementation of rules and regulation	<ul> <li>Recruit the new compliance officer</li> </ul>	Niutao Kaupule in collaboration with Coastal Section, TFD	Department New Compliance officer	2025	Compliance officer's new post advertised New compliance officer recruited	New compliance officer's post advertised and recruited	Planned	Fisheries Department Niutao community	Lack of funding

Objective 2: To re	store coral ecosys	tem and habitat							
Strategy 2.1: Improve understanding and information of coral ecosystems and marine habitats	<ul> <li>Send formal request to Tuvalu</li> <li>Fisheries</li> <li>Department</li> <li>Conduct a survey to investigate areas with low coral cover</li> <li>Present the coral survey report to Niutao community</li> <li>Deploy anchorage buoys for big</li> </ul>	Coastal Section, TFD in collaboration with Niutao community	Niutao Kaupule Niutao community Tuvalu Fisheries Department Coral assessment survey materials Anchorage buoys	2024 2024 2025 2025 or 2026	Copy of formal request submitted to TFD Coral assessment survey report published and shared Anchorage buoys deployed	Coral assessment survey completed and shared results with community Anchorage buoys procured and deployed	Planned	Niutao Kaupule Tuvalu Fisheries Department Niutao community	Lack of funding Lack of staff and equipment resources
Strategy 2.2: Investigate	• Send formal request to SPC	Coastal Section,	Tuvalu Fisheries Department	RTCMFA 2024	Formal request submitted to SPC	Research on stress- tolerant		Niutao	Lack of funding
transplanting activity based on coral survey results	<ul> <li>Conduct research on stress- tolerant coral species</li> </ul>	TFD in collaboration with SPC Expert and Youths	SPC Expert Youth Association	2025	Report on research of Stress- tolerant corals published and shared	coral - species completed Coral planting	Planned	Kaupule Tuvalu Fisheries Department	Lack of staff and equipment resources

	<ul> <li>Plant fast growing coral species</li> </ul>		Niutao Kaupule Fuligafou NGO Coral planting materials	2025 or 2026	Fast growing corals planted	activities undertaken		Niutao community	
Strategy 2.3: Evaluate and establish suitable size	<ul> <li>Investigate size limits on key coastal species (1. Manini,2. Maono, 3. Malau puku (<i>Myripristis</i> berndti).</li> </ul>	Coastal Section, TFD in collaboration with the	Tuvalu Fisheries Department Kaupule Niutao	2025-27	Size limits for key coastal species investigated Local communities	Minimum size limits of key species	Planned	Niutao Kaupule Tuvalu Fisheries Department	Lack of funding Lack of staff and equipment resources
limits for key coastal species	<ul> <li>Train youths and local communities on how to undertake size limit study</li> </ul>	community	Niutao Community Niutao Data Collector	2025	and youths trained	investigated		Niutao community	
Strategy 2.4:	<ul> <li>Draft a cleaning campaign timetable</li> </ul>	Kaupule Niutao in collaboration	Niutao Youth association	2025	Cleaning campaign timetable drafted	Cleaning campaign timetable		Niutao Kaupule	Lack of funding
Strengthen programmes to reduce marine pollution	<ul> <li>Conduct weekly beach clean- ups</li> </ul>	with Niutao CFMC and Coastal Section, TFD	Primary students Niutao Community	2026-27 (weekly/fortnightly)	Cleaning campaign reports published and shared		Planned	d Tuvalu Fisheries Department	Lack of human and equipment resources

Objective 3: To im	prove food securi	ity	CFMC Cleaning Campaign materials					Niutao community	
Strategy 3.1: Investigate potential aquaculture opportunities for the community	<ul> <li>Consult with SPC to carry out a feasibility study on farming fish in natural ponds</li> <li>Conduct a feasibility study on farming fish in natural ponds</li> <li>Report back</li> </ul>	Coastal Section, TFD in collaboration with SPC and Kaupule Niutao	Niutao Kaupule Tuvalu Fisheries Department SPC Aquaculture specialist Niutao CFO Study	RTCMFA 2024 2025	Copy of formal request submitted to SPC Feasibility study report published and shared with the community	Formal request submitted to SPC Feasibility study undertaken Feasibility study results published and shared	Planned	Niutao Kaupule Tuvalu Fisheries Department Niutao community	Lack of funding Lack of staff and equipment resources
	study results to Niutao community		materials	2025 or 2026					
Strategy 3.2: Investigate the feasibility of restocking the natural ponds with selected native species	<ul> <li>Select key species by Niutao</li> <li>Falekaupule to culture in natural ponds</li> </ul>	Kaupule Niutao in collaboration with Niutao Youth association and Coastal Section, TFD	Niutao Kaupule Niutao Youth Association	2025	Key Species selected by Falekaupule Key species transferred to natural ponds	Key species selected by Niutao Falekaupule Key species transferred	Planned	Niutao Kaupule Tuvalu Fisheries Department	Lack of funding Lack of staff and equipment resources

	<ul> <li>Transfer key species into natural ponds</li> <li>Monitor the fish regularly by recruiting a data collector</li> </ul>		Tuvalu Fisheries Department Data collector	2025 2026-27	Fish monitoring reports published and shared	to natural ponds		Niutao community	
Strategy 3.3: Maintain and strengthen the FAD program and improve sea safety measures	<ul> <li>Deploy nearshore FADs at selected sites</li> <li>Install a beacon to improve navigation and safety</li> <li>Procure and restock first aid kits for fishers</li> <li>Procure more safety grab bags for fishers</li> </ul>	Operation Development Section, TFD un collaboration with Niutao Fishermen Association	Tuvalu Fisheries Department Niutao Fishermen association Niutao Kaupule	Metronome 2024 2025 2025 2025	FADs deployed Beacon installed First Aid Kits procured Safety grab bags procured	FADs deployed Beacon installed First Aid Kits for all fishers procured and distributed Safety grab bags procured, registered and	Planned	Niutao Kaupule Tuvalu Fisheries Department Niutao community	Lack of funding Lack of staff and equipment resources
Strategy 3.4: Enhance the capacity of the community in post-harvest programmes	Upskill staff in the Community fisheries centre on fish preservation	Operation Development Section, TFD in collaboration with Niutao Kaupule	Tuvalu Fisheries Department CFC staffs	Metronome trip 2024 or 2025	Training workshop with CFC staff conducted Post-harvest Awareness	distributed Training workshop with CFC staffs and post-harvest awareness	Planned	Niutao Kaupule Tuvalu Fisheries Department	Lack of funding Lack of staff and equipment resources

	and seafood safety • Conduct awareness program to build capacity on post-harvest techniques		Niutao Kaupule Secretary	Metronome 2024	program conducted	program conducted		Niutao community	
Objective 4: To p		l fishing knowledg	-	ge participation by all t	he community			Niutao	Γ
Strategy 4.1: Develop community skills (including women and youth) on traditional	<ul> <li>Develop a community awareness program on traditional fishing methods</li> </ul>	Niutao CFMC in collaboration with Niutao	Niutao CFMC Niutao Kaupule Local experts	Metronome trip 2024 or 2025	Community awareness program developed Training workshop with community conducted	Community awareness program and training workshop developed and conducted	Planned	Niutao Kaupule, Community, Tuvalu Fisheries Department	Lack of funding Lack of staff and equipment resources
fishing methods	<ul> <li>Conduct training workshops with the community</li> </ul>	Local Experts	Niutao community TFD	Metronome trip 2024 or 2025					
Strategy 4.2: Develop material to document traditional fishing	<ul> <li>Conduct a household survey on traditional fishing knowledge</li> </ul>	Coastal Section, TFD in collaboration with Niutao	Niutao Kaupule Coastal Section, TFD	2025	Household survey conducted Video documentary produced	Traditional fishing knowledge recorded, stored in database	Planned	Niutao Kaupule, Community, Tuvalu Fisheries Department	Lack of funding Lack of staff and equipment resources
fishing knowledge	<ul> <li>Produce a video documentary on</li> </ul>	Kaupule	Niutao community	2025	Database on traditional fishing knowledge developed	and documented by video			

traditional fishing knowledge and methods				
<ul> <li>Record and develop a database on traditional fishing knowledge</li> </ul>	2026			

# Appendix II Niutao landings reported from creel surveys (2016-2022)

	Species	Local Name	Family	Weight (kg)	Number landed
1	Abudefduf saxatilis	Mutumutu	Pomacentridae	7.0	47
2	Abudefduf sexfasciatus?	Matagi, Katoatoa	Pomacentridae	1.9	2
3	Acanthocybium solandri	Paala	Scombridae	343.8	44
4	Acanthurus leucopareius	Maono	Acanthuridae	18.4	128
5	Acanthurus lineatus	Ponelolo, Alogo, Pone hamoa	Acanthuridae	7.6	41
6	Acanthurus nigrofuscus	Pone	Acanthuridae	0.1	1
7	Acanthurus triostegus	Manini, Koinava	Acanthuridae	20.8	255
8	Anyperodon leucogrammicus	Gatala lautalo, Gatala lautala	Serranidae	4.7	11
9	Aphareus furca	Palusega, Kotua, Taelepe, Takuoga	Lutjanidae	3.4	17
10	Aprion virescens	Utu	Lutjanidae	4.2	1
11	Balistidae spp	Sumu magasega, Suma, Sumu lautalo, Sumu niu	Balistidae	3.0	2
12	Carangoides fulvogttatus	Lupolupo	Carangidae	0.2	1
13	Caranx ignobilis	Tino ulua (lge), Lupo (small), Aseu (med); Mea tal	Carangidae	0.2	9
14	Caranx lugubris	Tafauli, Tino tafauli (large), Aheu tafauli, Uluat	Carangidae	7.0	15
15	Caranx melampygus	Aseu, Ulua, Fuaika	Carangidae	1.8	7
16	Caranx sexfasciatus	Teu	Carangidae	3.7	3
17	Carcharinus limbatus	Mago	Carcharhinidae	65.0	1
18	Cephalopholis leopardus	Mataele (Ff, Nm)	Serranidae	0.3	3
19	Cephalopholis miniata	Pula (Ff, Nm), pula kula (Ff)	Serranidae	0.7	1
20	Cephalopholis sonnerati	Pula (Ff, Nm)	Serranidae	7.1	19
21	Chaetodon lunula	Моерере	Chaetodontidae	0.3	2
22	Chanos chanos	Paneava, Awa	Chanidae	9.2	1
23	Chlorurus (Scarus) microrhino	Laea	Scaridae	0.4	1
24	Chlorurus japanensis	Laea (Ff), kamutu maga (Nm)	Scaridae	2.0	1
25	Cirrhitus pinnulatus	Patuki	Cirrhitidae	41.1	232

26	Conger macrocephalus	Tuna (Ff)	Congridae	60.6	21
27	Ctenochaetus binotatus	Pone uli	Acanthuridae	0.5	3
28	Elagatis bipinnulata	Kamai, Kamaa, Kami	Carangidae	25.7	9
29	Epinephelus macrospilos	Gatala (Ff), fÄpuku (Nm)	Serranidae	5.0	109
30	Epinephelus malabaricus	Gatala (Ff, Nm)	Serranidae	0.3	4
31	Epinephelus merra	Gatalaliki	Serranidae	8.1	117
32	Epinephelus retouti (truncat	palu patuki	Serranidae	116.0	4
33	Exocoetus volitans	Isave, Sasave	Exocoetidae	102.6	188
34	Forcipiger flavissimus	Moipepe, Maninipapa	Chaetodontidae	0.5	4
35	Gnathanodon speciosus	Filu, Fua'ala'ala, Fuaika, Kautea, Pakeva	Carangidae	1.8	10
36	Grammatorcynus bilineatus	Tavatava	Scombridae	227.6	55
37	Gymnosarda unicolor	Valu	Scombridae	7.3	1
38	Halichoeres melanurus	Ulo'ulo (Ff, Nm)	Labridae	2.4	6
39	Hemiramphus far		Hemiramphidae	0.2	4
40	Hemiramphus sp	lse	Hemiramphidae	0.3	15
41	Katsuwonus pelamis	Atu	Scombridae	3699.9	1153
42	Kyphosus vaigiensis	Nanue (Ff, Nm)	Kyphosidae	36.8	36
43	LABRIDAE spp	Uloulo, Kimoa, Kiole	Labridae	1.0	6
44	Liza vaigiensis	Kafakafa	Mugilidae	0.3	1
45	LUTJANIDAE spp	Takuoga	Lutjanidae	2.8	13
46	Lutjanus bohar	Fakamea, Fagamea	Lutjanidae	0.4	1
47	Lutjanus kasmira	Savane	Lutjanidae	0.2	1
48	Mulloidichthys vanicolensis	Kalo	Mullidae	0.3	9
49	Myripristis amaena	Malau	Holocentridae	1.1	3
50	Myripristis berndti	Malau	Holocentridae	0.1	2
51	Myripristis pralinia?	Malau puku	Holocentridae	4.1	32
52	Naso lituratus	Maninilakau	Acanthuridae	0.4	1
53	Neomyxus chaptalii	Fua gutuloa (Ff, Nm)	Mugilidae	0.3	6
54	Neoniphon argenteus	Talakisi	Holocentridae	0.3	10
55	Oxycheilinus digrammus	Gole (Ff)	Labridae	1.2	5

56	Panulirus longipes bispinosus	Ula	Palinuridae	0.4	1
57	Parupeneus barberinus	Malili, Kaivete	Mullidae	0.2	2
58	Pempheris oualensis	Maanifi, Cooper sweeper	Pempheridae	0.3	2
59	Priacanthus hamrur	Matapa	Priacanthidae	0.4	3
60	Pristipomoides flavipinnis	Palu sega	Lutjanidae	0.3	2
61	Pseudobalistes flavimarginatus	Umu	Balistidae	9.7	4
62	Rastrelliger kanagurta	Salala	Scombridae	2.0	3
63	Rhinecanthus aculeatus	Sumu	Balistidae	0.2	2
64	Sargocentron spiniferum	Tamalau	Holocentridae	0.0	1
65	Sargocentron tiere	Malau gutu loa, Malua mata loa	Holocentridae	0.5	4
66	SERRANIDAE spp	Gatala	Serranidae	2.1	6
67	Sphyraena barracuda	Ono, Pauea	Sphyraenidae	162.4	17
68	Sphyraena jello?	Ono, Oso, Nn	Sphyraenidae	13.3	7
69	Tetrapturus audax	SakulÄ, HakulÄ	Istiophoridae	31.1	1
70	Thunnus albacares	Kasi, Takuo, Takua, Tavatava	Scombridae	2091.0	470
71	Thunnus obesus	Kasi matalasi	Scombridae	1492.9	410
72	Trachinotus baillonii	Lai	Carangidae	2.7	13
73	Triaenodon obesus	Mago	Carcharhinidae	13.5	1
74	Tylosurus crocodilus	Maliolio	Belonidae	10.1	24
75	Uraspis helvola	Lupolupo	Carangidae	3.1	4
76	Valenciennea muralis	Manoko	Gobiidae	0.5	1
	(blank)			5.7	
	Grand Total			8704.0	3652