Tuvalu Fisheries Department:
Coastal, NAPA II and Operations & Development Sections:
Trip Report

Metronome 5, Nanumea, Nanumaga, Niutao 21st May -21st June 2017

Lale Petaia, Maani Petaia, Paeniu Lopati, Semese Alefaio, Viliamu Petaia (authors alphabetical)

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1 Summary

An outer islands trip to Nanumea, Nanumaga and Niutao was undertaken by the Coastal, NAPA II and Operations & Development sections of the Tuvalu Fisheries Department from 21st May to 21st June 2017 , using the Fisheries research vessel MRV Manaui. The trip was funded under the World Bank Pacific Regional Oceanscape Programme (PROP).

The expedition was designed to collect data on the importance of fishing in the community (consultations), fishing capacity (all assets) and state of the resources (ciguatera and creel surveys). Workshops and materials focused on sea safety, distribution of grab bags, supply of an aluminium welder and welding techniques for maintaining boats were also carried out. The main datasets collected and activities completed were: (1) Key informant and Group consultations; (2) Ciguatera poisoning cases; (3) Creel surveys of fishers' catches; (4) Locally managed marine area / marine protected area (LMMA/MPA) location, size and rules; (5) Independent counts and measurements of boat assets on the island; (6) Fisheries assets including condition of the CFC and its assets; (7) Workshops / training on sea safety and distribution of grab bags; and (8) Inspection and assessment of FADs and Memorandum of Understanding with Fishers on their use and maintenance. All parts of the work requiring data collections were facilitated by the use of formal datasheets (some from SPC some developed internally for this work) and data stored in the Coastal Fisheries Database (CFD) for later analysis.

A total of 10 key informants, 1 case records of fish poisoning were collected by medical staff from Nanumea. Overall 41 creel surveys were completed on Nanumaga, 25 Nanumea and 19 Niutao.Boundaries of the LMMA/MPA were recorded by GPS and although tapu arrangements are working on all islands. The independent boat survey found a total of 178 boats and canoes on these islands (Nanumaga 66, Nanumea 73 and Niutao 39) All CFC on each island are all in good condition and many of the assets are also in good condition. Sea-safety training on the use of Global Positioning System (GPS) and FAD maintenance was carried out on each island.

Some of the main issues encountered during the expedition included the following. A more comprehensive list is given in the main body of this report.

- Poor records are available from the islands including by-laws, meeting records and assets, making collecting information difficult and in some cases impossible;
- The community has little information on the VDS funding available to them and are confused about its use and who controls the funding;
- In Niutao, the LMMA/MPA boundaries are not marked and rules are not clear resulting in confusion by fishers and the Kaupule;
- FADs were not being maintained well and no coconut fronds had been attached (All the islands). This led to poor catches around the FADs. Fishermen did not want to tie leaves on the FADs;

As a result the following recommendations were made for future work:

1. An MOU for work on the islands and a detailed request well in advance of the trip needs to be given to each Kaupule before arriving on island, with the request that the Kaupule warns the community of the work to be done. Acknowledgement from the Kaupules is needed before the trip begins. This should outline the work to be done so there is a realistic expectation from the community on what is required of them;

2. It may be worth establishing an information sharing technique on data collections and findings so that people are more likely to share their fishing information;
3. Managers should enter into inter-departmental discussions with the responsible ministries to improve record-keeping on the islands (e.g. Kaupules, CFC missing data);
4. Fisheries should work with Kaupules to improve business arrangements for the CFCs. This should be considered in 2018 work plan;
5. Fisheries should focus on involving women and youth more in fish processing, as planned in NAPA II;
6. Fisheries and Kaupule should carry out awareness on the VDS on outer islands;
7. R2R and NAPA II need to carry out the marking project for which they have been funded as soon as possible to demarcate the LMMAs. This should include redefining objectives of each LMMA;
8. Fisheries should investigate the use of non-biodegradable materials for use on the FADs. Use of VDS for setting up and maintaining FADs by the Kaupule should be investigated;
9. MOUs for FADs need to be reviewed and signed on next outer islands trip; and
10. R2R officers should work closer with Fisheries staff as many of their tasks overlap.

2 Introduction

Regular outer island trips have been incorporated as part of the Fisheries Department's work plan to gather regular information on coastal fisheries and fishery assets. The Departmental sections most involved in these tasks are the Coastal Fisheries and Operations & Development Sections. The 2016-2017 Workplans also call for surveys to be undertaken as part of the GEF-funded and UNDP-implemented National Adaptation Programme of Action (NAPA) II activities which focus on Locally Managed Marine Areas, improvements to the Community Fisheries Centres and several modules on canoe-building, traditional fishing techniques, preservation and Fish Aggregating Devices (FADs).

Most of these trips, at least one per island per year, rely on the regular metronome trips coordinated by the Fisheries Department under NAPA II. The remainder of the trips will be funded by TFD through its New Zealand TFSP and World Bank PROP. Four trips have been organised for 2017 to cover all of the outer islands:

- Fisheries Metronome trip to the central islands Vaitupu, Nui & Nukufetau in March-April;
- Fisheries Metronome trip to the northern islands Nanumea, Nanumaga and Niutao in May-June(This report);
- A NAPA II/ Fisheries Metronome trip in August to visit the two southern islands; and
- A NAPA II/ Fisheries Metronome to the northern islands Nanumea, Nanumaga & Niutao in October-November.

This expedition to the Northern islands focused on gathering data and carrying out activities in 10 major areas:

1. Key informant and Group consultations – including Kaupule, Falekaupule, Women, Fishers and the community in general;
2. Ciguatera poisoning cases, if any, on the island;
3. Creel surveys of fishers' catches;
4. Locally managed marine area / marine protected area (LMMA/MPA) location, size and rules
5. Independent counts and measurements of boat assets on the island[1] – including public and private boats;
6. Fisheries assets – including condition of the CFC and its assets and any other fisheries infrastructure to add to our understanding of fishing capacity;
7. Assessment of the Community Fisheries Centre (CFC) owned by the Kaupule as part of planning for a new training fale to be built by NAPA II on Vaitupu only;
8. Workshops / training on sea safety on all islands and distribution of grab bags on Vaitupu only;
9. Inspection and assessment of FADs and Memorandum of understanding with Fishers on their use and maintenance; and
10. Awareness program with the community, schools and fishermen.

These activities were designed to provide a basis for the island profiles to be produced for each island., Information on infrastructure and fishing were gathered to provide baseline information on the importance of fishing in the community (consultations), fishing capacity (all assets) and state of the resources (ciguatera and creel surveys). The Sea safety/grab bags and FAD work was carried out by the Operations and Development and coastal staff on each islands.

3 Methods

The expedition commenced on the 21st May and completed on 21st June 2017, using the Fisheries Research vessel, the RV Manuai. Ten days were planned for each island, allowing sufficient time for 5 TFD personnel to carry out all parts of the survey, assessment, training and maintenance work on each island.

All parts of the work requiring data collections were facilitated by the use of formal datasheets (see Appendix 2). The datasheets provided a structure that ensured all questions could be answered for all surveys on each islands. Some of the datasheets followed SPC protocols previously used on creel surveys and seafood poisoning reports by health professionals or our surveyors. Additional datasheets were developed for key informant and group surveys, attendance at group meetings, LMMA/MPA work and the independent boat survey. A data control sheet (see Section 7.1 on page 10) was used to ensure all replicates were completed as planned.

Data collected during the surveys were entered into the Coastal Fisheries Database. The Coastal Fisheries Database (CFD), built as a spilt database in Access 2010, was installed in the Coastal Fisheries temporary server which was taken into the field. A local area Wi-Fi network was established (without access to internet) to allow staff laptops to connect to the server for data entry and printing.

On each island several key informants among the Kaupule, Falekaupule, Women and Fishers, youth and community were consulted to capture fisheries-related concerns among each group. Awareness program targeting community, schools and fishers were also run on each island. Initial meeting and debriefing were also conducted with the Kaupule on each island.

The Health staffs were consulted to determine the number of cases of ciguatera or other types of seafood poisoning over the past few years. If the staff, previously given poisoning report forms (see Section 7.5 on page 26), had not completed the form, the affected persons were contacted and interviewed by the team.

Creel surveys were carried out around the island wherever fishers were landing their catch. Many of these tended to be boat landings at the main channel for the island, but there were fishers who cast nets across the reef crest by walking there and other forms of fishing. For each catch landed, data were collected on the vessel (or not) used, costs of fishing (fuel, time, other costs), fishers perceptions and length and weight of all seafoods landed. This included any oceanic fishes, reef fishes, invertebrates or other types of seafood that might be targeted. A total of 20-50 creel surveys was targeted for each island.

The Locally Managed Marine Area (LMMA/MPA) on each island was visited and its boundaries recorded using a GPS. Key information on the LMMA was collected and copies of any written rules or by-laws were also collected.

The independent boat survey was carried out during a period when those on the island were unlikely to be fishing (during Sunday or a community event). At that time all of the Coastal Fisheries Team split up and combed the island to locate every boat they could. At that time, they measured the length of the boat and recorded its materials (but not power) along with a GPS reading.

A full condition and assets survey of the CFCs was carried out on each island during this trip and the assessment for the new training fale is still outstanding.

4 Results & Data storage

4.1 Key Informant and Group Consultations

Two consultation meeting were held with Kaupules during the visit. A briefing meeting was held on both islands at the beginning of the trip and an exit meeting before the team departed the island. Also a total of 10 key informants were interviewed on each Island. These are people representing the Falekaupule, Kaupules, fishers, women and youth.

4.2 Ciguatera

A single case was found only on Nanumea island.

4.3 Creel Survey

A total of 25 creel data were collected from Nanumea, 40 from Nanumaga and 19 from Niutao Island.

4.4 LMMA/MPA Assessment

Demarcation of LMMA boundaries: around

4.5 Independent Boat Survey

The surveys found 47 boats and canoes on Vaitupu, 26 on Nui and 79 on Nukufetau.

Table 1: Boats and canoes counted on each island

Island name	Aluminium dingy	Aluminium Canoe	Wooden dingy	Wooden Canoe	Fibreglass dingy	Total
Nanumaga	33	5		28		66
Nanumea	14	8	12	36	3	73
Niutao	11	3		25		39
						178

4.5.1 Sea Safety Training

Sea safety training and GPS training was conducted to fishermen on each island.

4.6 Other work

School Awareness: A school awareness activity was delivered to educate children on each island on issues related to climate change and fisheries related issues. The target ranges of students were from form 1 to form 3.

Community Awareness: Additional comprehensive and detailed awareness were conducted on each island to build capacity level of community members in terms of fisheries related issues.

R2R & TFD LMMA Workshop: A joint workshop on each island was conducted to increase the communities' level of awareness in terms of LMMAs.

Community data collector/ local assistant: We acknowledge the great assistance provided by the officer and local assistant on each island during our stay.

VDS: Each islands showed very little knowledge on the Vessel Day Scheme (VDS).

5 Issues

Several issues were encountered on the islands and/or during the trip as follows:

- Key informants were often hard to interview on Vaitupu and Nukufetau because they were busy engaging with the election and the construction of the school.
- Poor records are available from the islands including by-laws, meeting records and assets, making collecting information difficult and in some cases impossible;
- Kaupules have not been successful at maintaining and running CFCs for the benefit of the community;
- Women have limited involvement in post-harvest processing. This is not related to limited knowledge but due to modernisation and falling interest and availability of freezers;
- The community has little information on the VDS funding available to them and are confused about its use and who controls the funding;
- The LMMA/MPA boundaries are not marked and rules are not clear resulting in confusion by fishers and the Kaupule;
- FADs were not being maintained well and no coconut fronds had been attached on each island. This led to poor catches around the FADs. Fishermen did not want to tie leaves on the FADs.
- On Vaitupu, local by-election prevented fishers from attending training resulting in losing one training day for fisher In future this will need to be taken into account during Metro trips.

6 Recommendations

A number of recommendations are made on improvements for future outer islands trips as follows:

1. Full review of database is required. There are lots of missing questions and misplace numbers on the database. Some questions on Data sheet may also need some clarification.
2. Creel activities on each island should be implemented by at least 3 people(data collector alone cannot do this). It is recommended that the R2R, Data collector and someone from either the Kaupule or the CFC to be trained and delegate to implement creel surveys.
3. Monthly FAD report to TFD from OI should be prepared by the data collector and not Kaupule.(FAD MOU)
4. The use of Manaui for the central island may be recommended.
5. Some amendment to the fisheries/Kaupule MOU should be considered before signing.
6. More awareness should be target to fisher, the community and Kaupule members.
7. OIDC should be based at the Kaupule. She/he can work along with R2R officer to implement creel surveys and monitored by the Kaupule.
8. Printed CFP form should available at hospital for recording CFP cases.
9. Business plans for CFC should be a priority for all islands.
10. Trip report should be written during metro trips. This will ensure that the report will be completed within the planned timeframe.
11. The use of local assistance should be encouraged for future mission.

12. Vessel should not be allowed for any charger during metro trip unless case of emergency. Priority should be given to team mission and this is to ensure that the team will be able to execute activities according to plans.
13. A TOR should be prepared and provided to each staffs to read before each metro trip.
14. Legal advisor should accompany the team to assist with legal issues such as by-laws, Act, etc.
15. CFC should be refurbished to accommodate visiting staffs to each island.
16. Other division of the department should be encouraged to make use of each metro trips.
17. Staff should not be more than 6 people to execute activities on the missions.
18. Right equipment for mission should be identified(camera, projector, PA system)
19. Arrangement for communication during the trip should be sort out with Telecom before mission.
20. Camping equipment should be procure for mission team(sleeping bag, fans, mosquito repellent, etc)

7 Appendix: Data Sheets

7.1 Data Control Sheet

Tuvalu Fisheries

Data Control Sheet for Coastal Fisheries Outer Islands Missions

Our tasks are: 1. Key Informant meetings – Women, Fishers; Community Dialogue Meeting; 2. SE surveys at HH level (including new boat component); 3. Ciguatera Report forms; 4. Creel/artisanal; 5. LMMA/MPA/CBM; 6. Independent Boat/canoe survey (independent of HH); 7. Fisheries assets; 8. CFC Assessment for NAPA II; 9. Grab bags; 10. FADs

Island:		Team Leader:	
Date Start:		Date Finished:	

List of documents and maps collected			
Document name	Type	Format	Copy obtained?
	(e.g. report, plan, map)	(e.g. PDF, paper copy)	(Y/N)

1 Key Informant / Community Surveys/Meetings		
	#Surveys	Comments
Kaupule fisheries plans / issues (2)		
Fisher's Representatives (1-2)		
Women's Group (1-2)		
Community Meeting (1)		

2 Socio-economic Surveys HH		
	#HH/Pers	Comments
Household demography & Consumption Survey		
Fin Fisher Survey Questionnaire		
Invert Fisher Survey Questionnaire		
Key Informant Questionnaire		
Middlemen/Agents/Shops	NA	NA
Additional Information		
Extra HH survey of boats		

3 Ciguatera		
	#Records	Comments
Hospital/Clinic records		

SPC poisoning survey forms		
GTX samples taken		

4 Creel & Artisanal Tuna Surveys		
	# Surveys	Comments
Creel surveys		
Artisanal surveys		

5 LMMA/MPA Information		
	Yes | No	Comments
Map of LMMA/MPA obtained?		
GPS Waypoints around Area?		
Copy LMMA/MPA rules/By-laws?		
Assessment of markers needed?		

6 Independent Vessel Survey		
	Yes | No	Comments
Count & description of Public vessels		
Count of private boats & canoes		

7 Fisheries Assets		
	Yes | No	Comments
Assessment of CFC building		
Listing of all assets in building		

8 CFC Assessment for NAPA II		
	Yes | No	Comments
Assessment for NAPA II addition		

9 Grab bags		
	#Bags	Comments
Grab bags distributed		

10 FADs		
	Yes | No	Comments
FAD assessment		
FAD repairs		
Other _____		

Any other data collected?
Please list all other types of information collected

7.2 Key informant and Community Meetings

Tuvalu Fisheries Survey Data Sheets

Key Informant / Community Meeting	
Target Groups:	Key Persons likely to have deep knowledge Island Community Women's Fishers, Youth Groups

Island:	Date:
Latitude (DD):	Longitude (DD):
Surveyor 1:	Surveyor 2:

Key Informant Name:			
Key Informant Position / Occupation:			
KI Contacts:		Village:	
Phone:		Email:	
or:			
Group or Community:		# Males:	# Females:
_____		_____	_____

Main topic(s) of discussions:
Main outcomes of meeting
Use reverse for more space →

Please ensure you have filled in the attendance sheet
for this meeting if there is more than 1 person.

7.3 Attendance sheet for Groups

Tuvalu Fisheries Survey Data Sheets

Attendance at Meetings			
Target Group:		Any group meeting	
Island:	Date:	Surveyor 1:	Surveyor 2:
Latitude (DD):		Longitude (DD):	

Name	Gender	Age	Occupation	Village	Phone/Email
THANK YOU					

7.4 Socio-economic Survey (SPC)

This sheet was adapted from the SPC SEMCOS datasheets for easier use in the field – some fields have been reduced in size for this report.

Tuvalu Fisheries Socio-economic Survey Data Sheets

Household Demography and Consumption Survey					
Target Group: (either)	☐ Head of HH	☐ Women preparing food for HH			
Objective: To gather detailed information on (i) average HH size / composition; (ii) consumption patterns; (iii) fishers by gender; (iv) boat and canoe information.					
Island:		Village:			
Latitude (DD):		Longitude (DD):			
Surveyor 1:		Surveyor 2:			
Date:		Household Number:			
Person interviewed (confidential, names will not be published)					
First name:		Last name:			
Date of birth:		Gender:	☐ Male	☐ Female	
Household information					
HH1. How many people usually live and eat in your household?	Number:				
HH2. What are the ages of the male and female members in this household? (Include children and older people; please only quote persons living permanently in this household).	Males		Females		
	Person	Year of birth	Person	Year of Birth	
	1		1		
	2		2		
	3		3		
	4		4		
	5		5		
	6		6		
HH3. How many people in your household fish or collect on reefs and in the lagoon regularly? (Do not include people who only fish once or twice a year)	Fisher type		Male	Female	
	Invertebrates				
	Finfish				
	Both				
HH4. **Does this household own any boats/canoes?**			☐ Yes	☐ No	
HH4a. How many of each type	Type		Number		
	Canoes				
	Sailboats				
	Motorised				
	Other (specify): _____ Number:				

HH4b. For each vessel please specify details:

Vessel	Type	Length (m)	Materials	Power	Hp	Safety gear?
0	Boat	6m	Wooden	Inboard	75	Yes
1						
2						
3						
4						
5						
6						

HH4c. If any safety gear, list all you use:

HH4d. Who built your boat / canoe?

Vessel #	Type	Built by:
0	Boat	☐ Me | ☑ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____
1		☐ Me | ☐ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____
2		☐ Me | ☐ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____
3		☐ Me | ☐ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____
4		☐ Me | ☐ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____
5		☐ Me | ☐ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____
6		☐ Me | ☐ Relatives | ☐ Local builder | ☐ Overseas | ☐ Other: _____

HH4e. Where do you normally store each vessel? Please mark on attached map.

Vessel #	Type	Lat:	Lon:
1			
2			
3			
4			
5			
6			

HH4f. What do you do to protect your boats / canoes, if anything, during a cyclone?

HH4g. Should boats in Tuvalu be licenced?

☺Strongly agree	Agree	Neutral	Disagree	☹Strongly disagree
☐	☐	☐	☐	☐

HH4h. What are the most important uses of your boats / canoes?
(please tick all that apply)

☐ Fishing	☐ Transport	☐ Feeding pigs	☐ Picnics
☐ Recreation	☐ Racing	☐ Other: _____	☐ Other: _____

HH5. Where does the cash money in this household come from? (only list the sources of money contributed by people who live here usually) Rank options, 1 = most money; 2 = second most important income source; 3 = third most important income source; 4 = least important income source)	Tick ✓	Source	Rank (1-4)
		Fishing / Seafood collection	
		Agriculture	
		Salary	
		Other: _____	
		Other: _____	

HH6. During an average/normal week, how many days do you prepare fish, other seafood and canned fish for your family? (Tick ✓ box)	Number of days per week							
	Type	7	6	5	4	3	2	1	Or Specify
	Fresh fish								
	Other seafood								
	Canned fish								
	Other: _____								

HH7. **On average, how much do you cook per day for your household?** (enter number per size class, using size chart - tool while interviewing)	FINFISH						
	Size class	A	B	C	D	E	E+ cm:
	# fish:						
	Or kg:						

7b. **Other seafood** (enter data using size charts – tools used while interviewing)	OTHER SEAFOOD			
	Seafood name	No.	Size	kg

HH8. **On a day when you prepare canned fish, how many cans do you use on average / normally for the household?** (Enter no. of cans per day)	Size of can	# Cans / day
	Small	
	Medium	
	Large	

HH9. **Where do you normally get your fresh fish from, and which source is the most common?** (Tick ✓ box and rank from 1 to 3) (1 = most common; 2 = second most common; 3 = least common source)		Tick ✓	Rank (1-3)
	Caught by me or someone else from this household:		
	Got it from someone else (no money paid):		
	Buy it (name place): _____		

HH10. Where do you normally get your invertebrates (creatures from		Tick ✓	Rank (1-3)

the sea other than fish) from, and which source is the most common? (Tick ✓ box and rank from 1 to 3) (1 = most common; 2 = second most common; 3 = least common source)	Caught by me or someone else from this household:		
	Got it from someone else (no money paid):		
	Buy it (name place): _____		
THANK YOU			

Finfisher Survey Questionnaire			
Target group: Fishers (men and women 15 years and older) from households surveyed			
Objective to gather detailed information on: (i) average catch size and composition; (ii) fishing techniques; (iii) proportions of catch for subsistence, gift and sale; (iv) methods of conserving and preserving seafood.			
Island:		Village:	
Latitude (DD):		Longitude (DD):	
Surveyor 1:		Surveyor 2:	
Date:		Household Number:	
Person interviewed (confidential, names will not be published)			
First name:		Last name:	
Date of birth:		Gender:	☐ Male ☐ Female

Household information			
F1. Which areas do you fish? (Tick ✓ boxes and use chart)	☐ Coastal reef	☐ Lagoon	☐ Mangrove
	☐ Outer reef (incl passages)	☐ Open ocean	☐ Other: _____

F2. Do you fish only one of the habitats that you target at a time—or do you usually visit several during one fishing trip? If so, which ones do you usually combine during one fishing trip? (please fill in)	Habitat	Only targeted (tick ✓)	Targeted together with habitat (fill in)
	Coastal reef		
	Lagoon		
	Mangrove		
	Outer reef (incl passages)		
	Pelagic / open ocean		
	Other: _____		

F3. How often do you visit each habitat in a week, or a combination of habitats? **How many hours does the average fishing trip take to this habitat, or combination of habitats?**			Times / week	Hours / trip	Months / year
	Coastal Reef	☐			
	Lagoon	☐			
	Mangrove	☐			
	Outer reef (incl passages)	☐			

How many months in a year do you fish this habitat / combination of habitats?	Pelagic / open ocean	☐			
	Other: _____	☐			

F3b. Please select your most important habitat (or combination of habitats mostly fished during one fishing trip) and answer the following questions:	Most important habitat (fill in): _____		
F4. Do you use a boat for fishing?	☐ Always	☐ Sometimes	☐ Never
F5. When do you go fishing? (Tick ✓ box)	☐ Only during DAY	☐ Only during NIGHT	☐ Day & Night

F6. Which fishing techniques do you use? (Tick all ✓ boxes that apply)

☐ Handlining	☐ Spearfishing (diving)	☐ Castnetting	☐ Trolling
☐ Gillnetting Mesh size (cm): _____		☐ Spear (walking)	☐ Spear (canoe)
☐ Deep bottom handlining	☐ Other (specify): _____	☐ Other (specify): _____	☐ Other (specify): _____

F7. Do you use only one technique per fishing trip, or do you use several during one trip? (Tick √ box) If you use more than one, which techniques do you combine during one trip? (List)	☐ One technique per trip	☐ More than one technique per trip. Which techniques?

F8. How much do you catch during a normal fishing trip (your catch or share of catch only)? (use size charts)

Size class:	A	B	C	D	E	E+	cm
# Fish:							
Or kg:							

F9. on an average/normal fishing trip as above, what kinds of fish do you catch? (Fill in the names and numbers per size class) — Figures are: ☐ Numbers | ☐ kg

Technique most often used to get this catch?

Size class ➔ ➘ Name of fish	A	B	C	D	E	E+	cm
e.g. Emperors	20			1			

F10. Do you sell your fish? (Tick ✓ box)		☐ Yes	☐ No
If Yes, where?	☐ Within community	☐ Outside community	Which place? _____

F11. To whom do you sell? (Tick ✓ boxes)

☐ Individuals (houses, roadside) | ☐ Shop | ☐ Agent | ☐ Market | ☐ Restaurant

F12. Which preservation method do you use for your catch? (Tick ✓ box)				☐ None
Tick ✓	Method	Always	Sometimes	Never
☐	Ice (during fishing trips)	☐	☐	☐
☐	Refrigeration	☐	☐	☐
☐	Freezing	☐	☐	☐
☐	Smoking	☐	☐	☐
☐	Drying	☐	☐	☐
☐	Other: _____	☐	☐	☐
☐	Other: _____	☐	☐	☐

Thank you !

Invertebrate Fisher Survey Questionnaire

Target group: Fishers (men and women 15 years and older) from households surveyed

Objective to gather detailed information on: (i) average catch size and composition; (ii) fishing techniques; (iii) proportions of catch for subsistence, gift and sale; (iv) methods of conserving and preserving seafood.

Island:		Village:	
Latitude (DD):		Longitude (DD):	
Surveyor 1:		Surveyor 2:	
Date:		Household Number:	

Person interviewed (confidential, names will not be published)

First name:		Last name:		
Date of birth:		Gender:	☐ Male	☐ Female

IF1. In which areas do you collect sea animals other than fish? *(Tick ✓boxes and use chart)*	☐ Soft bottom (seagrass, sand)	☐ Mangroves & mud	☐ Reef tops
IF2. Which sea animals other than fish do you dive for? (Tick ✓ boxes)	☐ Beche-de-mer / sea cucumber		
	☐ Lobsters		
	☐ Mother of pearl, Trochus, Pearl shell etc		
	☐ Other: _____		

	☐ Other: _____

IF3. Do you glean only one of the habitats that you target at a time—or do you usually visit several during one gleaning trip? **If so, which ones do you usually combine during one gleaning trip?** *(please fill in)*	Habitat	Only targeted in 1 gleaning trip	Gleaned **together** during 1 trip
	Soft bottom (seagrass, sand)	☐	☐
	Mangroves & mud	☐	☐
	Reef tops	☐	☐

IF4. Please answer the following questions for each habitat that you glean or the combined habitats that you glean during one fishing trip

Habitat	Tick ✓	Times /week	Boat	Hours /trip	Time of glean	# Months /year
Soft bottom (seagrass /sand)	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	
Mangrove / Mud	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	
Reef tops	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	

IF5. Please answer the following questions for each of your dive invertebrate fisheries

Habitat	Tick ✓	Times /week	Boat	Hours /trip	Time of glean	# Months /year
Beche-de-mer	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	
MoP (trochus, pearl)	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	
Lobster	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	
Other (clams, octopus etc)	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	
Other: _____	☐		☐ Always ☐ Sometimes ☐ Never		☐ Day ☐ Night ☐ Day/Night	

IF5b. Please select your most important habitat (or combination of habitats that you **GLEAN** during one fishing trip) and answer the following questions:	Most important habitat or habitat combination (fill in):

	_____

IF6. On a normal gleaning trip, what species do you catch?
(Fill in the names and numbers per size class) (use size charts)

Species / name	Total #/trip	Avg Size (cm)	Total kg/trip	Used for			
				Consumption	Gift	Sale	
						In Village	Elsewhere
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

IF7. On a normal dive trip, what do you usually catch? (Fill in the names and numbers or kg per size class and per fishery) (use size charts)

Species / name	Tick ✓	Total #/trip	Avg Size (cm)	Total kg/trip	Used for			
					Consumption	Gift	Sale	
							In Village	Elsewhere
Beche-de-mer	☐				☐	☐	☐	☐
MoP (trochus)	☐				☐	☐	☐	☐
Lobster	☐				☐	☐	☐	☐
Other (clams, octopus)	☐				☐	☐	☐	☐
Other: _____	☐				☐	☐	☐	☐
Other: _____	☐				☐	☐	☐	☐

IF8. Which preservation method do you use for your catch? (Tick ✓ boxes) ☐ None

Species	Fresh/meat	Dried	Shell	Smoked	Specify:
	☐	☐	☐	☐	
	☐	☐	☐	☐	
	☐	☐	☐	☐	
	☐	☐	☐	☐	
	☐	☐	☐	☐	
	☐	☐	☐	☐	
	☐	☐	☐	☐	

Thank you !!

Key Informant Survey

Target group: Key informants (men and women) in the community(ies) (for example, chiefs, village elders, priests, spokespersons, community leaders, leaders of women's and youth groups) who have a good insight into the general perceptions and attitudes of marine resource use and management

Objective to To learn about: locations and names of fishing grounds; management rules (known and applied); major recurrent problems related to marine resource management in the community;

selected information on marketing and costs; vernacular names; seasonality of species.			
Island:		Village:	
Latitude (DD):		Longitude (DD):	
Surveyor 1:		Surveyor 2:	
Date:		Survey ID Number:	
Person interviewed (confidential, names will not be published)			
First name:		Last name:	
Date of birth:		Gender:	☐ Male ☐ Female

K1. Record the areas and names of fishing grounds used by the community	*Prepare a map of the area, or use a nautical chart if available. Indicate areas, places and names of fishing, diving and gleaning grounds used.*
K2. Who owns the reefs and fishing grounds?	☐ Community ☐ Open access ☐ Individual ownership ☐ Jointly owned with other villages, list names of villages:

K3. Are the fishing grounds in this village used by other villages?	☐ Yes	☐ No
If yes, who uses them? (List names of other villages)	1 2 3 4	
K.4 Are the people in your village aware of the regulations issued by the Department/Ministry of Fisheries?	☐ Yes ↓ ☐ Mostly ☐ Sometimes ↓ ☐ Not really ↓	☐ No
And do they comply with the regulations?	☐ Yes	☐ No
If they do not comply with the regulations, why not?		
K.5 Has this community made its own rules and regulations (including customary rules)?	☐ Yes ↓	☐ No
If yes, what are they?		
K6. Does the community respect these rules and regulations?	☐ Yes	☐ No ↓
If not, why not?		

K7. If the fishing grounds are used by fishers from other villages, do these other fishers respect the government regulations and/or community rules?	☐ Yes	☐ No ↓
If not, why not?		

K8. Do people sell their catch in the community?	Yes ↓	No
Reef and lagoon fish	☐	☐
Invertebrates	☐	☐

If Yes, for what price?

Type	Name	Price/unit	Units (e.g. kg, piece)
Fish		$	
Fish		$	
Invert		$	
Invert		$	
		$	
		$	
		$	

K9. Conversion of local units in kg (Information on local units may be provided by key informant(s); however, corresponding weight in kg may require sampling in the field)

Type	Name	Local Unit	Avg Weight kg
Fish			
Fish			
Invert			
Invert			

K10. List of seasonal reef and lagoon finfish species usually caught

Local / common Name	Scientific name	Most abundant months:	
		Start month	End month

K11. List of seasonal reef and lagoon invertebrate species usually caught

Local / common Name	Scientific name	Most abundant months:	
		Start month	End month

K12. Local, common and scientific names for reef and lagoon species (new names)		
Local name	Common name	Scientific name

Thank you !!

Additional information required for analysis

A. Marketing information for finfish and invertebrates

A1. People sell their catch in the community	Reef / lagoon fish		Invertebrates	
	☐ Yes	☐ No	☐ Yes	☐ No

A2. Prices for reef and lagoon fish	Type/Species	Price	Unit (e.g. kg)
		$	
		$	
		$	
		$	
		$	

A3. Prices for Invertebrates	Type/Species	Price	Unit (e.g. kg)
		$	
		$	
		$	
		$	
		$	

B. Information on canned fish

A4. Price and weight of canned fish	Can size	Weight per can (g)	Price (local currency)
	Small		
	Medium		
	Large		

D. Conversion of local finfish units to weight (kg)

Local unit (string, heap, bag etc)	Average weight (kg)

E. Conversion of local invertebrate units to weight (kg)

Species	Processing*	Local unit**	Average weight (kg)

** Processing level refers to: unprocessed (alive, such as crab or lobster), with shell or shelled, gutted (bêche-de-mer), cooked, dried, etc. ** Heap, bag, string, bottle, sack, basket, bucket, etc.*

F. Seasonality of finfish species

Local / common Name	Scientific name	Most abundant months:	
		Start month	End month

G. Seasonality of invertebrate species

Local / common Name	Scientific name	Most abundant months:	
		Start month	End month

H. Local, common and scientific names for reef and lagoon species (new names)

Local name	Common name(s)	Scientific name(s)

I. Any other notes or comments?

Thank you

7.5 SPC Seafood Poisoining Report Form (SPC)

SPC Seafood Poisoning Report Form

This is an electronic form. Please fill the fields or check the boxes using your keyboard and mouse. Text fields will expand to accommodate any amount of text, so do not worry of the space for your answer seems small.

Report Form

Details of person filling in report form	
Name	Job/Position
Contact Address	
Date	Signature

Poisoned person's details		
Name	Sex (M/F)	Age (yrs)
Address		

Details of the seafood that caused the poisoning (tick all that apply)				
Type of food	Where caught	How preserved	What eaten	How eaten
Fish ☐	River ☐	Fresh, no ice ☐	Head ☐	Raw ☐
Crab ☐	Mangrove ☐	Fresh, iced ☐	Flesh ☐	Marinated ☐
Lobster ☐	Beach ☐	Frozen ☐	Skin ☐	Cooked ☐
Other crustacean ☐	Patch reef ☐	Salted ☐	Liver ☐	
Gastropod ☐	Lagoon ☐	Dried ☐	Roe ☐	How many others:
Bivalve ☐	Outer reef ☐	Smoked ☐	Other ☐	Ate this meal?
	Ocean ☐	Pickled ☐	Specify:	Felt sick?
Other mollusc ☐ Specify:	Other ☐ Specify:	Other ☐ Specify:	Specify: Specify:	Were admitted to hospital?
Unknown ☐	Unknown ☐	Unknown ☐	Unknown ☐	Unknown ☐
What is the local name of the seafood?				
What is the English name of the seafood?				
Name of vendor or restaurant (if bought)				
Name of the place it was caught (if known)				
When was the food eaten?	Date:		Time:	
When did you first feel sick?	Date:		Time:	

Symptoms (tick all that apply)		
Burning or pain when touching cold water ☐		Pin pricking sensation on touching water ☐
Tingling or numbness ☐		Strange taste in mouth ☐
Difficulty or pain urinating ☐		Skin itching or red ☐
Difficulty breathing ☐	Excessive salivation ☐	Fever / chills ☐
Difficulty walking ☐	Excessive sweating ☐	Headache ☐
Difficulty talking ☐	Diarrhoea ☐	Joint aches ☐
Eye irritation ☐	Vomiting ☐	Muscle cramps ☐
Others:		
History		

Have you had seafood poisoning before?			Yes ☐ | No ☐	
How many times?				
Details	When?	Type seafood	Hospital?	How long to recover?
Case 1			Yes ☐ | No ☐	
Case 2			Yes ☐ | No ☐	
Case 3			Yes ☐ | No ☐	
Case 4			Yes ☐ | No ☐	
Case 5			Yes ☐ | No ☐	
Case 6			Yes ☐ | No ☐	
Anything you remember about past poisoning?				

Medical data		
Pulse:	Blood pressure: /	Pupils:

In case of death
Date of death:
Autopsy findings:
Other information:

Local Knowledge and Background Data

Survey Questionnaire No. _____/_____

Details of person filling out this form	
Name:	Job/Position:
Contact Address:	
Date:	Signature:

Details of the person interviewed (optional)	
Name:	Sex (M/F): Male ☐ | Female ☐
Age (years):	Ethnic Group:

Questionnaire (tick the boxes where appropriate or fill in the blank spaces)

1. Are you aware of any previous cases of food poisoning from seafood products among your family and friends? Yes ☐ | No ☐

2. If so, could you give a rough estimate of the number of such cases of food poisoning?

Yes ☐ | No ☐ If yes, how many?

3. Have there been periods or years in which the number of cases has been higher?

Yes ☐ | No ☐ If yes, when?

How would you explain this?

4. What are the most frequent symptoms of the people who have such food poisoning?

5. Which seafood products were supposed to have caused this seafood poisoning?

Fish ☐ What type of fish?

Other ☐ What type of seafood?

Don't know ☐

6. Where are the toxic seafood products most often caught?

Ocean ☐ | Lagoon ☐ | Others ☐ Specify:

Please return this form to: The Tuvalu Fisheries Department. Thank you.

7.6 Creel Survey (SPC)

Tuvalu Fisheries Creel Survey Data Sheets

Use ONE sheet for each landing met (replicate). This can be a boat or catch basket brought in by gleaners etc. Note that this is presented by slice, to show all the data so you can choose which parts of the information you want to collect.

Date:	Serial / ID Number:		
Island:	Village/Site:		
Surveyor 1:	Surveyor 2:		
Latitude (DD):	Longitude (DD):		
C1 Basic Information on Fishers			
Lead Fisher's Name:			
Date of birth:	Gender:	☐ Male	☐ Female
Address as Village / Town / City:			
Is the fisher with others?		☐ Yes	☐ No
➔ Data on other fishers in the landing today:			

#	Fisher's Name:	DOB (d/m/y)	Gender	
1			☐ Male	☐ Female
2			☐ Male	☐ Female
3			☐ Male	☐ Female
4			☐ Male	☐ Female
5			☐ Male	☐ Female

➔ Back to Lead fisher:		
How often do you go fishing per month?		/ month
How many months a year do you fish *(i.e. exclude closed months)*		months fished
What fishing methods do you usually use *(over the last year)?*	Method 1:	
Method 2:	Method 3:	
Method 4:	Method 5:	

Where else do you land your fish? What other locations?
(List by priority and use map)

Most often	#	Location	# trips/month
↓	1		
	2		
	3		

	4		
Least often	5		

Why do you go fishing?	☐ Subsistence | ☐ Income | ☐ Both | ☐ Other _____
Please provide details:	

About how much of today's catch will be eaten at home / sold?	Home: %	Sold: %
What would you expect as income from today's catch overall?	$	
What is your eye-estimate of the total weight of the day's catch? *(Estimated by you, not the fisher)*	kg	

C2 Species composition / counts

What is the total count by species of all fishes / invertebrates / other landed?

Species name / Group	Number	Species name / Group	Number

C3 Species sizes and C4 Species weights

Species Name	All sizes in the catch in cm and all weights in kg *(Continue along rows for a species. Each row fits 5 fish. Repeat species in a new line if you need more space)*									
	cm	kg	cm	kg	cm	kg	cm	kg	cm	kg

C5 Effort data for CPUE

How many hours spent fishing today?	hrs
Fishing method / gears used for each species group (separate pelagic fish, reef fish, crabs, lobsters etc) and how much they cost the fisher to buy	

#	Species / Group	Methods / gears used	Cost buy
1			$
2			$
3			$
4			$
5			$

Did you have any gear losses during this fishing trip? What and how much to replace or repair?

#	Gear	What loss / damage?	Cost r/r
1			$
2			$
3			$
4			$
5			$

Please list any other costs of this fishing trip. Include fuel, wages, ice, food, drink, any other items

#	Item description	Price
1		$
2		$
3		$
4		$
5		$

What is the distance to the furthest site you fished in today? *(ask person to show you on map and draw, we will extract coordinates later)*	km

#	Site name	Latitude (DD)	Longitude (DD)
1			
2			
3			
4			
5			

What kind of boat used today?

Construction: ☐ Wood | ☐ Fibreglass | ☐ Plastic | ☐ Steel | ☐ Concrete

Type of boat: ☐ Alia | ☐ Canoe | ☐ Dinghy | ☐ Punt | ☐ Skiff | ☐ Other | ☐ None

If “other”, what kind of boat?

How is the boat powered?	☐ Paddle | ☐ Sail | ☐ Inboard | Outboard: ☐ 2 stroke | ☐ 4 stroke		
Length:	m	Engine:	hp
What safety gear do you have on board today? *(tick all that apply)*	☐ Oars | ☐ Life jackets | ☐ Water | ☐ EPIRB | ☐ GPS | ☐ Flares | ☐ Bailer / Bilge | ☐ Extra fuel | ☐ Others (specify):		

C7 Perceptions of fishers

How long have you been fishing?	years	
How long have you been doing **this type** of fishing?	years	
What **other types** of fishing have you done in the **past**?		
Do you do **other** types of fishing now?	☐ Yes	☐ No
Describe:		
Are you fishing in the same **areas** as 5 years ago?	☐ Yes	☐ No
Please explain:		
Are you catching the same **quantities** as 5 years ago?	☐ Yes	☐ No
Please explain:		
Are you catching the same **sizes** as 5 years ago?	☐ Yes	☐ No
Please explain:		
If catches are **different**, what has changed?		
Are you aware of any existing Fisheries Laws?	☐ Yes	☐ No

Please explain:
Do you have any **concerns** about the resources?
Thank you

7.7 LMMA/MPA

Tuvalu Fisheries Survey Data Sheets

Community Feedback on LMMA/MPA		
Target Group:	Island Community	
Island:	Date:	
Latitude (DD):	Longitude (DD):	
Surveyor 1:	Surveyor 2:	
Village/Community:	# Males:	# Females:
_____	_____	_____

General Information		
1. Is there an existing LMMA/MPA on this island?	☐ Yes (🡻Q2)	☐ No (🡻Q3)
2. If Yes, what were the reasons for establishing one?		
3. If No, why not?		
4. Who were the people involved in deciding about an LMMA/MPA?		
If no LMMA/MPA stop here		
5. If you have an LMMA/MPA, how was its size and location selected?		

6. Are there any rules, regulations or other for controlling your LMMA/MPA?	☐ Yes (🡻Q7)	☐ No (🡻Q8)

7. If Yes, who was involved in formulating the rules?

8. If Yes, What kind of regulatory system do you have in place?

9. If No, how do you manage your LMMA/MPA?

9a. Collect a copy of any by-laws, rules or other system; or write a detailed description of how it is run.

Document	Copy collected?	
	Yes	No
	☐	☐
	☐	☐
	☐	☐
	☐	☐

10. What are the benefits of the LMMA/MPA on this island?

11. Are there any issues or problems with your LMMA/MPA?	☐ Yes (🡻Q12)	☐ No (🡻Q15)
12. If Yes, what are the issues or problems?		
13. How could the issues or problems be addressed?		
14. What, if anything, would you change about your LMMA/MPA?		
15. What role, if any, could Fisheries play to help with your LMMA/MPA?		
16. Any other suggestions or comments?		
THANK YOU		

7.8 Independent Boat Survey

Tuvalu Fisheries Independent Boat Survey Data Sheets

Boat and Canoe Survey			
The objective is to get independent counts and measurements data on all boats and canoes on the island. At the same time we can record some condition information. No not include 'dead' boats that are really rubbish.			
Island:		Date:	
Latitude (DD):		Longitude (DD):	
Surveyor 1:		Surveyor 2:	
GPS:			

Boat and Canoe Counts				
Type (boat/ canoe/etc)	Lat (DD)	Lon (DD)	Length (m)	Condition / Comments (storage, good, poor, etc)

Comments and observations				

8 Appendix: Current draft of MOU for FADs

PEIGA, TAUSIGA MOTE FAKATUMAUGA O POE FAKALATA IKA SE FAKATOKAGA IO MESE FEAGAIGA (MOA) ITE VASIA OTE KAUPULE, FAKAPOTOPOTOGA TAGATA FAIKA O MOTE MALO.

E ATAFIAGINA me i poe fakalaika ka fesoasoani malosi ki tagata faika pena foki tino ote fenua i te fakamauaga mote fakafaigofiega te sala o ika pela mo atu, kasi/tavatava, takua mo nisi ika aka foki, fakafolikiga a te fakamaumau o penitini kae fakamama foki a te faika i koga tai pili ote fenua;

E ATAFIAGINA FOKI ite fakamauaga, faitega mote peiga ote POE fakalata ika e se faigofie tusa ko mea ne fakaoga kite faitega, peofuga o tino mote togi ote vaka, pooti ne aofia i te peiga;

E AMANAIAGINA i te MALO fakatasi foki mo taugasoa feasoasoani e se mafai o fakatumau a te fesoasoani ki te fakamauaga o POE, vagana ke isi ne fakamaoniga e iloa i ei a te aoga mote fesoasoani o POE i feitu tau sene, kae ke maua foki se fakamapatonuga me ka se afaina a sose POE pogai mai te fakamasei o te kope io me kote tuku tiakina;

E MALAMALAMA foki ite Tulafono mo Maumea ote Tai e fakatapu ne ia a mea konei - te fakamasei, kaisoa io me sai (o se paopao, pooti, foulua) ki luga i te POE, kae e fakasala foki ne ia sose tino e soli ne ia ate tulafono ki sala e aofia – togi tupe kise aofaki e mafai o oko kise $5,000, 3 masina ite falepuipui, io me togi tupe (pau mote togi ote POE katoa) kite malo;

E ATAFIAGINA KAE AMANAIAGINA FOKI ate tusaga fesoasoani ote NAPA 2 ki fenua tela ka aofia e 4 POE fakalata ika ka pei i loto i te 4 tausaga ote polotieki (2015-2018);

MAI POGAI KONEI MAI LUGA, a te Fakapotopotoga Tagata Faika mote Kaupule o ……. mote Malo (auala ite matagaluega Faika o Tuvalu) ko talia kae lotofiafia ki fakanofoga konei e fakaasi mai lalo;

FAKAMAUAGA MOTE PEIGA O POE

1. Ate matagaluega faika ote malo ka fesoasoani kite fenua ite fakamauaga pena foki mote peiga o POE aofia I ei a POE kola ka fakamaua mai lalo ote NAPA;
2. Ate matagaluega faika ka fai ne ia se akoga mo tagata faika ote fenua kite fakapikipikiga pena foki mote peiga o POE mote taimi muamua.
3. A te fakapotopotoga faika ote fenua ka panaki mote fakapikiga mote peiga o sose POE faopoopo mai tua o te akoakoga tenei.
4. Ate fakapotoptoga tagata faika ote fenua mote matagaluega ke galue ke maua ne sene mo togi ne POE faopoopo pena foki mote tausiga o POE ko oti ne pei fakatasi mo poe e 4 ote NAPA konei ka fakatautau ke pei;
5. Ate fakapotopotoga tagata faika ote fenua ke fakapatonu a kogakoga kola ka pei ki ei a sose POE fou kae ke sokotaki foki kite matagaluega faika fakatasi mote matagaluega o vaka koi tuai o pei a te POE;

TAUPULEGA, TAUSIGA MOTE ONOONOGA

6. Ate kope tenei ia te fenua (Falekaupule) kae kote te tausiga mote fakaogaaga o te kope e nofo mote fakapotopotoga tagata faika fakatasi mote Kaupule.
7. Ate Falekaupule ke fakatoka ne ia ne aofaga ko tino ote fenua ke usiusi tai ki fakanofoga o POE fakalata ika. Kote fakapotopotoga faika MOTE Kaupule ote fenua ka onoono kite fakamalosiga o tulafono mo POE mo nisi fakanofoga faopoopo kola ko oti ne pasia nete falakaupule;

8. Ate fakapotopotoga faika ote fenua ka fai ne ia ne asiasiga fakatumau ki POE fakalata ika kae fai foki a galuega e fakatau ifo e tau ke fai. Konei mea e manakogina ke fai I asiga takitasi,
    a. Asi a launiu – sai mafai ko galo
    b. Asi a te mata ote loopu tela i tou – toe sai mafai a poe ko tai too
    c. Asi ate soko – mafai e mafai, sui ate uka tela ki luga mafai ko kaina ate loopu
    d. Lipooti tala ote asiga kite matagaluega faika
9. A te Kaupule ke fesoasoani kite fakapotopotoga tagata faika i te fakatupega ote galuega asiasi ki POE fakalata ika pena foki mote fakamauaga o POE fou manafai ko manakogina.

FAKAMAUGA O IKA MAUA MAI POE

10. Ate fakapotopotoga faika ote fenua ke galue tasi mo tino fakamau ika i luga i te fenua kite fakamauaga o mea konei -
    a. Aofaki o ika (I vaega kesekese) ne maua i POE
    b. Te ioga ote faiva ne fai, aso mote po masina
    c. Te aofaki mo igoa o tino ne olo ite faiva
    d. Te koga ne faika I ei mote leva ote faikaga
    e. Mo nisi mea aka foki

TALA O ASIASIGA FAKATASI MO TULAGA FAKAMASEIGINA O SOSE POE

11. Fakapotptoga tagata faika ke avaka se lipooti kite Kaupule i sose taimi e fai ei ate asiasiga.
12. Ate Kaupule ke fakaokooko a tala o asiasiga o POE kite matagaluega faika fakatasi ite 3 masina. Te lippoti tenei ke aofia te aofaki o taimi ne asiasi mo galuega ne fai ki POE (mafai e isi).
13. Te Kaupule ke lipooti fakavave kite matagaluega faika mafai ko isi se fakalavelave ko tupu kite POE
14. Matagaleuga faika ka fai ne ia se sukesukega mafai ko isi se POE ko lipooti mai me ko galo ko te mea ke maua se tala maea kite pogai ne galo I ei
15. Kafai ate POE ne fakamaseigina, ke fakasala eiloa a tino io mese fakapotoptoga tela/kola ne aofia ite fakamaseiga ote POE.

FAKALAUSAGA TE ILOA O TINO

16. A te matagaluega faika ka fai ne ia ne polokalame ko te mea ke avaka te iloa o tino ote atufenua i POE fakalata ika, te taua/aoga, tausiga, koga e pei i ei mo nisi mea aka.
17. Ate matagaluega faika ke fakailoa kite matagaluega o vaka a kogakoga o POE fakalata ika o fenua katoa