

## Metronome 20 Report (Vaitupu)

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## Content Page

1.0 Summary.....	3
2.0 Introduction.....	4
3.0 Methodology.....	4-5
4.0 Results & Data Storage.....	5
4.1 Kaupule Consultation.....	5
4.2 Community Consultation.....	5
4.3 Ciguatera Fish Poisoning Case Update.....	5
4.4 Boat & Canoe Survey.....	5
4.5 LMMA Activity.....	5-6
4.6 Manta Tow.....	6
4.7 Other activities.....	6
4.7.1 Awareness Program.....	6
4.7.1.1 Community Awareness.....	6
4.7.1.2 School Awareness.....	6
4.7.2 Post-Harvest Activities.....	7-11
4.7.3 Grab Bag Inspection.....	11-12
4.7.4 OIDC Refresher Training.....	12
4.8 FADs Maintenance.....	12-13
5.0 Issues & Recommendations.....	14
6.0 Appendix.....	15
6.1 Seafood Poisoning Sheet.....	15-19
6.2 Boat & Canoe survey.....	20-21
6.3 Manta Tow Survey sheet.....	21-22
6.4 Minutes.....	23-39
6.5 Attendance Sheet.....	40-44
6.6 Map of Vaitupu LMMA.....	45

## 1.0 Summary

Metronome 20 mainly targeted Vaitupu Island with the purpose of accomplishing the planned fisheries activities including consultations and awareness, follow-up with fish poisoning cases, visiting locally managed marine areas and also grasped updated information, post-harvest training, sea safety training and assessment of grab bag equipment, fish aggregating devices maintenance, data collector refresher training, boat and canoe survey and Manta Tow survey for sea cucumber in the lagoon only. The trip occurred from the 29<sup>th</sup> June to the 9<sup>th</sup> July 2021 on the RV Manau 1 with a total of nine nights in Vaitupu. The trip was successful with funding support from Pacific Regional Oceanscape Project PROP, Tuvalu Fisheries Support Program II (TFSP II) and Tuvalu Government. All activities were pre-arranged through the Kaupule secretary and approval for entry to Vaitupu was given by the Permanent Secretary of Local Government. Every individual activities results and minutes were well taken by the assigned fisheries staff for later report analysis and write-up.

Key findings stated that Vaitupu community chose “enhancing of milkfish pond at Te Gie Mate” as their priority from the Management Plan list of fisheries related issues. None of the ciguatera fish poisoning cases on Vaitupu was reported by the clinic nurse and a total of 46 boats and canoes (26 aluminum boats, 2 aluminum canoes, 7 wooden boats, 7 wooden canoes and 4 fiberglass boats). Lollyfish (*Holothuria atra*) was known as the only species found in Vaitupu lagoon during the Manta Tow survey with a total of 25 species. Locally managed marine areas remain as it is from the previous year thus no changes to its boundaries and locations known as (Te Namu, Boat harbor marked by “Te Fatu o Isa” and “Te Fatu o Tupata”, Gie Mate and Te Loto. In addition, a seasonal closure for crabs/tupa was implemented since January until July where prohibition of catching tupa was practiced for coastal areas and Gie Mate and giant swamped areas were opened. Awareness programs for schools and communities were satisfied with reasonable numbers of participants ( all Form 1 and Form 2 students of Tolise Pirmary School attended, 73 attendees from the community and the whole school of Motufoua Secondary School). Nevertheless, post-harvesting activities conducted amongst the community and TVSD students of Motufoua and participants turned out to be great with 29 from community and 27 from Motufoua respectively. Grab bag assessment concluded that some grab bags have broken, lost and malfunction equipment that needs to be replaced. Some of the issues were raised during the refresher training of the data collector include the untimely payment, tablet malfunction and misplacement of GPS. Lastly, Vaitupu left with one FAD which was deployed in September 2018 with the main line still in good condition at a depth of 40 metres.

However, some of the key issues raised comprised of the lack of confidence in fishers by using safety gears in the grab bags especially GPS, therefore needed regular trainings by fisheries officers. Another issue was what tools to be used as a guide to compare the catch’s size with regards to fish size limit. Moreover, it is recommended for fisheries department to properly demarcate locally managed marines areas with buoys and beacons in the near future, have a grab bag MOA in place to better manage and guide the utilization of grab bags by Kaupule and fishermen association, improve skills of fishermen in the usage of grab bag equipment and to have posters or billboards in public places to inform the public about locally managed marine areas. Overall, the trip was productive and useful to the whole community as well as other targeted key stakeholders.

## 2.0 Introduction

A team of eleven staff from various sections of the Tuvalu Fisheries Department travelled on the RV Manau 1 to Vaitupu Island to fulfill its planned activities. The boat departed Funafuti on the 29<sup>th</sup> June which was a Tuesday night and arrived Vaitupu early morning of Wednesday the 30<sup>th</sup> June. Nine nights were spent on Vaitupu and the boat arrived Funafuti after picking up the team from Vaitupu on Friday the 9<sup>th</sup> July.

The team were funded by Pacific Regional Oceanscape Project (PROP), Tuvalu Fisheries Support Program II (TFSP II) and Government of Tuvalu. These funds were used to support the program conducted in the Vaitupu in carrying out activities from the tentative program.

The team's purpose in coming to Vaitupu was to consult with the Kaupule and the communities in discussing their Management Plans (Fisheries related issues) as the donor was willing to aid the island's issue in prioritizing their most needed issue to be solved.

Also, the team had programs planned during their stay in each islands. Programs like Awareness Program, Ciguatera Fish Poisoning Case Update, LMMA Activities, Manta Tow, Post-Harvest Activities and FADs maintenance.

The Manta Tow activity was recently added this year. This was the buildup in counting the number of BDM species and its population together with the coverage of live and dead corals in Vaitupu; part of the phase to develop a national management plan of sea cucumbers.

## 3.0 Methodology

The arrangements with each island in the central was prepared prior to the departure for the south islands. This was done by contacting the Island Secretary (*Failautusi*) for booking the consultation for the kaupule and arranging the accommodation for the team to stay. Prior to the team's departure, the metronome team had a final consultation with the *Kaupule* members in presenting the findings made during the team's stay for a week.

The island communities were gathered in the meeting hall to look at the Management Plans that were done previously with the R2R project. The community focused on the Monitoring Plan and discussed each of the fisheries related issues of their own island.

Selected number of presenters presented during the Community and School awareness in raising awareness on the islands' marine resources and sea safety of fishermen.

The Refresher training for Island Data Collector was done by arranging the time available for the Data Collector to visit the team.

The team members would visit to the medical center and discuss with the nurse on the positive cases of Ciguatera Fish Poisoning.

The team were divided into groups of two and the number within the group; it varies depending on the team members' time availability. The group would stroll around the island to find the boat or canoe then gets its measurements (measuring the length of the boat or canoe). Coordinates were recorded of where the boat or canoe was located using a GPS

The team from Resource Assessment and Monitoring sub-section made a trip around the lagoon and used the Manta Tow method in counting the invertebrates (Beche-de-mer or BDM).

There were two methods used to collect LMMA related information during this Metronome trip.

1. Consultation with the Kaupule members
2. Exploring and observing the LMMA.

The Operations & Development section had a workshop on preservation in doing smoked fish. The team also made a smoke box construction.

The Operations team and some members from the Resource Assessment & Monitoring sub-section made an inspection on the FADs by observing the status of the buoy.

Prior to the team’s departure, the metronome team had a final consultation with the *Kaupule* members in presenting the findings made during the team’s stay for a week.

## 4.0 Results & Data Storage

### 4.1 Kaupule Consultation

The team consulted with the Kaupule on the program allocated for the specific timeframe of the week. However, the Kaupule informed the team that the community was busy with the Local Government Department’s workshop. The Kaupule urged the metro team to amend the program to be allocated on the following week.

### 4.2 Community Consultation

The team consulted with the community in discussing their existing management plan by looking at fisheries related issues to be their main priority. Vaitupu had 4 issues mentioned in the management plan. Out of the 4 issues, the community made a unanimous vote in voting “*Paneava ote Gie Mate*” as their main priority.

### 4.3 Ciguatera Fish Poisoning Case Update

The team paid a visit to the medical center in Vaitupu. As of now, there were no cases of Ciguatera Fish Poisoning.

### 4.4 Boat & Canoe Survey

The team made a survey in observing the conditions of the boat or canoe. Here is the table below showing the boat and canoe surveyed.

**Table 4.4a shows the total number of boats and canoes in Vaitupu.**

Aluminum Boat	Aluminum Canoe	Wooden Boat	Wooden Canoe	Fiberglass Boat
26	2	7	7	4
Total = 46				

### 4.5 LMMA Activity

In the consultation with the Kaupule member, the LMMA officer found out that there is no changes in the Vaitupu LMMA boundaries and locations which are the Vaitupu lagoon or Te namo, Boat harbor, Gie mate and Te Ioto. The only change is that as of January this year, the Vaitupu Falekaupule and the

Kaupule has permitted people to catch “Tupa” Crab (*Cardisoma carnifex*) in the Gie mate and “Pulaka” pits or Giants swamp taro (*Cyrtosperma merkusii*) pits and prohibit the Vaitupu coastal areas in catching Tupa. However, the Vaitupu Falekaupule and Kaupule planned this change to be effective for a period of 6 months and therefore it is said to end and prohibit catching of “Tupa” in the Gie mate in July. In visiting the Vaitupu LMMA’s, Fisheries officers noticed that the LMMA boundaries at the Boat harbor is been demarcated with two big rocks (one on each side). They called this rocks “Te fatu o Isa” and “Te Fatu o Tupata”.

#### 4.6 Manta Tow Activity

The Resource Assessment & Monitoring sub-section made a manta tow survey around the LMMA site in Vaitupu in counting of sea cucumbers and the substrata of the area. Here is the result from the survey that the team conducted:

**Table 4.6a shows the total number of sea cucumbers in Vaitupu lagoon.**

Beche-de-mer species	Species Population
Lollyfish ( <i>Holothuria atra</i> )	25

From the above table, the biodiversity of beche-de-mer was quite poor and the need for a variety of beche-de-mer is needed.

#### 4.7 Other Activities

##### 4.7.1 Awareness Program

There were four presenters during the stay in Vaitupu. Presenters were: Filipo Makolo, Lavata Nivaga, Pafini Fepuali and Uni Liufau with their topics on “Issues of Overfishing”, “Importance of LMMA and MPA”, “Sea Safety of Fishermen”, “Vessel Sightings” and “Report of FADs” respectively (Note: Uni Liufau presented 2 topics during the metronome).

##### 4.7.1.1 Community Awareness

All presenters presented on the 6<sup>th</sup> July, 2021 after the consultation program. The whole community attended the program with the number of 73 attendees. The highlights of each topic was noted.

- Issues on overfishing
  - Size Limit training needed
- Importance of LMMA/MPA
  - Public awareness of the LMMA sites for local and visiting tourists
- Sea Safety of Fishermen
  - Land Based VHF need to be assessed on the equipment

##### 4.7.1.2 School Awareness

The school awareness was done in two schools. One from Tolise Primary School and the other was the Motufoua Secondary School.

##### 4.7.1.2.1 Tolise Primary School

Three presenters (Filipo M., Lavata N. and Pafini F.) presented on the 1<sup>st</sup> July, 2021 after school lunch time. The audience were the senior students from Tolise Primary School with their Classroom

Teachers. The teachers and staff were pleased with the gifting of school incentives from the Metronome Team. The students were attentive to the presentation details and were told from the staff members that some topics from the presentation were somewhat related for their upcoming research assessments or “Internal Assessment”.

#### **4.7.1.2.2 Motufoua Secondary School**

All presenters presented to the whole school at the *Tulagafou IV* on the 2<sup>nd</sup> July, 2021. The team distributed Notebooks and pens to all students for taking notes. Infomercials were displayed during the awareness program; topics were based on Parrotfish and Sea Cucumbers. After each presenters ended their presentation, they each gave a quiz question to grasp the information from the students to how well they understood the presentation.

From each question, the students received prizes for giving the correct answer. However one student raised a point on Vessel Sighting. She mentioned that when a citizen reports the Vessel and submitted the report to the designated authorities, does the citizen get rewarded? The point was noted for record keeping.

#### **4.7.2 Post-Harvest Activity**

Under the Tuvalu Fisheries Corporate Plan Objectives 4: Supporting sustainable development of small scale fisheries for livelihoods, food security and healthier diet, the department has an ongoing mandate to provide technical assistance and improved capacity building for all fishers and members of the community on Funafuti. These are the key responsibilities of the department under its 2021 work plan.

The Fisheries sector through artisanal fishing is very important to the people in Tuvalu as their main source of living. The Operation and Development section is devoted in helping artisanal fishers and the people in Tuvalu to ensure sustainable fishing operations, good catch returns and ability to produce healthy fish products, which can preserve their catches for future use, sale and possibly export. These skills are need to train our people in Tuvalu to enable them to increase economic benefits to support their families financially, their food security and livelihoods.

The training targeted TVSD students in Motufoua secondary school, Women and Youth in the community of Vaitupu to build and ensure improving skills and knowledge on fish handling and preservation and producing healthy fish products. These skills will support the significant of the wisely used of our marine resources, improved the ability to produce healthy products, and sustained financially supports, our food security and livelihoods.

#### **Objectives of the Training workshop;**

1. Fish Handling, Storage, Processing awareness and training;
2. Maintain and improve the quality of fish product (appearance, texture, flavor and nutritive value);
3. To protect food safety (fish products); and
4. To reduce losses between harvest and consumption.

#### **Expected Outcomes of the Training;**

1. Able to produce healthy fish products;
2. Improved knowledge on Fish Handling;
3. Improving opportunities for marketing fish product;

4. Improving trading of fish product between Tuvalu and the Pacific Islands; and
5. Understanding the different ways of preservation methods.

Post-harvest training in Niulakita was conducted in 2 days while in Nukulaelae for 1 day, the training was designed to refresh and to train fishermen, women and youth from these islands to improve their skills and knowledge and to become resilient and adapt changes of any kind of hindrance. The training context focused on 3 areas which were;

1. Fish handling and processing;
2. Fish preservation; and
3. Packaging.

### Training Organization

The training was designed to improve and sustained capacity of the students, women and youth of the community on fish processing, preservation and packaging. The training was structured in 2 ways, first day in a classroom and second day in practical.

### Training Coordination

The Operation and Development unit was responsible for organizing, planning and coordinating Post-Harvest Training to TVSD students (MSS), women and youth form the community. PROP and TFSP provided immense support in funding workshop venues, expenses and refreshment for this training.

### Participants

Table below showed the number of men and women participated in the training activities from MSS-TVSD students and Vaitupu community (specifically for women and youth). Participants which included youth, women and TVSD students.

**Table 4.7.2a: Number of Participants for VTP community and TVSD students (Refer to Appendix)**

Island	Number of Female	Number of Male	Grand Total
VTP Community	23	6	29
MSS – TVSD students	4	23	27
<b>Grand Total</b>	<b>27</b>	<b>29</b>	<b>56</b>

### Training Workshop and Activities

#### Introduction to Post Harvest Training

Introduction to post harvest training for TVSD students (MSS) started on the 2<sup>nd</sup> July 2021 with power point presentation and successfully completed on the 3<sup>rd</sup> July 2021. While for Vaitupu community (women and youth) started on the 7<sup>th</sup> July 2021 for 1 day. The training formally opened with a short summary and the benefits of the training. Then lastly, followed by a summary of the training expectations which included;

- ✓ Able to produce healthy fish products;
- ✓ Improved knowledge on Fish Handling;
- ✓ Improving opportunities for fish product marketing;
- ✓ Improving trading of fish product between Tuvalu and the Pacific Islands; and

- ✓ Understand different ways of preservation methods.

### **Fish Handling and Processing**

Presentation briefly provided an overview of the Section activities to give clear ideas to the participants on the importance of the section to fishermen and the community. And followed by a presentation on how we handle fish properly; the following is a short summary of the presentation content;

- ✓ What is fish spoilage
- ✓ What is the cause of fish spoilage
- ✓ Why is it important to handle fish properly
- ✓ Ways to preserve fish to maintain good quality of fish

After the fish handling presentation, participants showed interests that fish handling is very important and to educate more people of these communities on the impact of carelessness of fish handling.

### **Fish Preservation**

In this session the presenter provided a full idea and concept of fish preservation. There were many ways which we can use to preserve our fish and to use it in longer period of times or in times of cyclones etc. And also discussed on why it is important to preserve our fish as summarized below;

- ✓ To maintain quality of fish (appearance, texture, flavor and nutritive value)
- ✓ To Protect food safety
- ✓ To reduced losses between harvest and consumption
- ✓ Introduced trend of domestic trading.

Participants showed their interests and understood the different ways used to handle and preserve fish. And lastly, the community understood the importance as to why we need to handle fish properly and preserved them.

### **Practical Session**

On the 2<sup>nd</sup> July 2021, the practical session for TVSD students started after presentation and successfully completed on the 3<sup>rd</sup> July 2021. The following were the required areas that students took parts and participated;

1. Processing of fish,
2. Marinating of fish using the provided ingredients
3. Drying of fish
4. Smoking of fish
5. Preserving of fish in bottles and
6. Packing.

The participants showed interests in each practical areas which helping them improved, maintained and sustained their skills and knowledge in the processing of fish, fish handling, preserving and lastly introduced them with the possibility to trade their products locally and also internationally.



**Figure 4.7.2a: Post harvest training for TVSD students**

On the 7<sup>th</sup> July 2021, a refresher training on post-harvest training was successfully implemented specifically to women and youths group for 1 day. Post-harvest training was started with power point presentation and lastly with practical on fish processing, preservation, packaging and labelling. Participants took part in all the practical areas.



**Figure 4.7.2b: VTP women and youth post-harvest**

### Achievement and Outcome of the training:

Expected Outcome	Remarks
1. Produce healthy fish product	Participants from these 2 targeted communities showed their interest and understand the impact of fish handling to the processing period. These communities also related their understanding to the personnel hygienic of fish handling and its impact.
2. Improved knowledge on Fish handling.	People seems to understand without confusion the importance and why we need to handle fish properly. Some of the participant gave their appreciation that they now understood, why fish became spoiled in different ways when caught by fishermen.
3. Improving opportunities for fish product marketing	The participants showed their interest about the content of the training as it reduces losses between harvest and consumption. It helps developing their skills on different ways to reduce losses while selling fish.
4. Improving trading of fish product between Tuvalu and the Pacific.	The training also introduced some basic knowledge on packaging of fish product. The participants really appreciated as it encouraged the people to do marketing and trade to boost their economy
5. Understand different ways of preservation methods.	Participants get to know the different ways of preserving fish, and also understand the importance of preserving fish in terms of strong wind and potential hazards. The participants get to understand the 2 preservation methods that has been shown and the content.

#### 4.7.3 Grab Bag Inspection & Activities

On the 7<sup>th</sup> July 2021, Grab Bag Inspection was made during the metronome 20, to effectively inspect the condition of Grab Bags and each gears. As part of its activities under Annual Work Plan 2021 to ensure the safety of fishermen were well equipped and the wisely use of their safety equipment (Grab Bag) at sea.

This report highlighted the inspection results for grab bag users, issues and challenges faced by each fishermen and recommendation to improve the movement of the association in terms of their safety at sea. Grab Bags inspection for each grab bags user include the following;

1. Individually Inspects each equipment in the Grab Bags;
2. Refresher training on each safety gears in the Grab Bag;
3. Discussion on issues and challenges;

**Table 4.7.3a: Inspection results of grab bags in Vaitupu (FTFV)**

Equipment List	# of equipment	Comment
Strobe Light	1	Strobe light broken and not working
GPS	2	GPS batteries stuck and rotten inside and malfunction
VHF	3	Broken antenna and malfunction
Spare batteries	3	3 bags found with no spare batteries

Signal Mirror	1	Broken mirror and cannot reflect anything sun rays
Thermal blanket	1	1 Bag found with thermal blanket lost
Thermal Bags	1	1 Bag found with thermal bag lost
Sea Rescue Streamer	1	Lost during the inspection

On the 7<sup>th</sup> July 2021, a Grab Bag inspection was successfully implemented at night time. A total number of 16 bags was donated by the Fisheries and its partner. There were 6 bags inspected and 10 bags yet to inspect due to not turning up for this training and inspection. The results indicated moderate to good management of these grab bags by the association.

As a result, the following encountered during the inspection;

1. 1 bag with broken strobe light and not working
2. 2 GPS batteries rot inside and malfunction
3. 3 VHF with broken antenna and malfunction
4. 3 bags with no spare batteries,
5. 1 broken mirror which cannot reflect any sun rays
6. 1 bag with set of 2 thermal blanket lost
7. 1 bags with no thermal bags and
8. 1 sea rescue streamer lost.

Discussion was made after refresher training and the inspection about issues facing the association. One of the issued encounter during this training, as there was no manuscript that guided the management and the operation of the Grab Bag by both parties. Distribution of grab bags whom to use it, was managed by the Kaupule alone without acknowledgement of the associations.

#### 4.7.4 Outer Island Data Collector Refresher Training

The refresher training was done on the 3<sup>rd</sup> of July, 2021. The training was held at Elisala's residence where the team were accommodated. The officer from Outer Island sub-section conducted the refresher training. The Data Collector discussed the issues faced. Here are the issues listed from the Refresher Training:

- Payment Issues
  - Pay was not deposited on time
- Tablet Issues
  - Not functioning well – Charged tablet but cannot turn on.
- GPS
  - Misplaced GPS

During the refresher training, the data collector requested one item needed to assist her in doing the Creel work. A paper ream was needed to help in printing out the Creel Datasheets and Fortnight Creel Report Template.

#### 4.8 FAD Maintenance

Vaitupu FADs deployed in September 2018 with FADs coordinate of **(Latitude: 07'29.053'S / Longitude: 178'39.847'E)**. There were 5 officers that assessed the FADs and aggregated the

FADs, the team included 2 from Operation and 3 officers from coastal. The team aggregate the FADs with coconut leaves. This would allowed small fish to protect themselves by sheltering under those coconut leaves, which attracted big fish into the FAD. After aggregating FAD's, the team dived 40 meter down to assessed the main line to the anchor. Result found out that, the main line was still in good conditions. The team successful completed this inspection and maintenance at 1535hrs and return safely ashore.

**Figure 4.8a: Vaitupu Fad Maintenance**



## 5.0 Issues & Recommendations

The team had encountered some of the issues during the stay in Vaitupu. Also, there were some recommendations that can improve or mitigate whatever challenges that may come in the future when visiting to the outer islands.

### ***Issues faced in Vaitupu***

- Specific funds to be allocated when it comes to funding the community's management plan
- Reporting of shipping vessels; does the person reported get some reward
- Fish size limit; what were the tools used as a guide to compare the catch's size
  - Training needed for fisheries officers to expand their knowledge on fish size.
- Member of the fishermen association found with the lack of confidence in using safety gears in the Grab Bag especially on GPS.
- Grab Bags is under management of the Kaupule. Operational and management of the Grab Bag was being managed by the Kaupule alone.

### ***Recommendations for the future trip***

- Posters and billboards should be displayed in public areas so that everyone can access to the Vaitupu LMMA information.
- The Vaitupu LMMA's should be properly demarcate with buoys and beacons as the "*Te Fatu o Sina*" and "*Te Fatu o Tupata*" is not enough to pinpoint the boundary beyond the reef and inshore.
- Further advice would be addressed to the senior administration on funding
- Seek advice to the Principle Fisheries Officer (Oceanic), Fisheries Advisor, Director and the Permanent Secretary of Fisheries & Trade on how to approach with the people when it comes to reporting of fishing vessel; possibility of them in getting rewards.
- To improve skills of fishermen to build the confidence of each member in using any kind of safety gears especially GPS. These skills will improved safety of members during fishing operations.
- Grab Bag MoA to have in place, to manage and guide the operational and governance of the Grab Bags by both parties.

## 6.0 Appendix

### 6.1 Seafood Poisoning Report Form



## 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 if 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 <input type="checkbox"/>	River <input type="checkbox"/>	Fresh, no ice <input type="checkbox"/>	Head <input type="checkbox"/>	Raw <input type="checkbox"/>
Crab <input type="checkbox"/>	Mangrove <input type="checkbox"/>	Fresh, iced <input type="checkbox"/>	Flesh <input type="checkbox"/>	Marinated <input type="checkbox"/>
Lobster <input type="checkbox"/>	Beach <input type="checkbox"/>	Frozen <input type="checkbox"/>	Skin <input type="checkbox"/>	Cooked <input type="checkbox"/>
Other crustacean <input type="checkbox"/>	Patch reef <input type="checkbox"/>	Salted <input type="checkbox"/>	Liver <input type="checkbox"/>	
Gastropod <input type="checkbox"/>	Lagoon <input type="checkbox"/>	Dried <input type="checkbox"/>	Roe <input type="checkbox"/>	<b>How many others:</b>
Bivalve <input type="checkbox"/>	Outer reef <input type="checkbox"/>	Smoked <input type="checkbox"/>	Other <input type="checkbox"/>	Ate this meal?
	Ocean <input type="checkbox"/>	Pickled <input type="checkbox"/>	Specify:	Felt sick?

Other mollusc <input type="checkbox"/>	Other <input type="checkbox"/>	Other <input type="checkbox"/>	Specify:	Were admitted to hospital?
Specify:	Specify:	Specify:	Specify:	
Unknown <input type="checkbox"/>	Unknown <input type="checkbox"/>	Unknown <input type="checkbox"/>	Unknown <input type="checkbox"/>	Unknown <input type="checkbox"/>
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:		

<b>Symptoms (tick all that apply)</b>				
Burning or pain when touching cold water <input type="checkbox"/>	Pin pricking sensation on touching water <input type="checkbox"/>			
Tingling or numbness <input type="checkbox"/>	Strange taste in mouth <input type="checkbox"/>			
Difficulty or pain urinating <input type="checkbox"/>	Skin itching or red <input type="checkbox"/>			
Difficulty breathing <input type="checkbox"/>	Excessive salivation <input type="checkbox"/>	Fever / chills <input type="checkbox"/>		
Difficulty walking <input type="checkbox"/>	Excessive sweating <input type="checkbox"/>	Headache <input type="checkbox"/>		
Difficulty talking <input type="checkbox"/>	Diarrhoea <input type="checkbox"/>	Joint aches <input type="checkbox"/>		
Eye irritation <input type="checkbox"/>	Vomiting <input type="checkbox"/>	Muscle cramps <input type="checkbox"/>		
Others:				
<b>History</b>				
Have you had seafood poisoning before?		Yes <input type="checkbox"/>   No <input type="checkbox"/>		
How many times?				
Details	When?	Type seafood	Hospital?	How long to recover?
Case 1			Yes <input type="checkbox"/>   No <input type="checkbox"/>	
Case 2			Yes <input type="checkbox"/>   No <input type="checkbox"/>	
Case 3			Yes <input type="checkbox"/>   No <input type="checkbox"/>	

Case 4			Yes <input type="checkbox"/>   No <input type="checkbox"/>	
Case 5			Yes <input type="checkbox"/>   No <input type="checkbox"/>	
Case 6			Yes <input type="checkbox"/>   No <input type="checkbox"/>	
Anything you remember about past poisoning?				

### Medical data

Pulse:	Blood pressure:     /	Pupils:
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### In case of death

Date of death:

Autopsy findings:

Other information:

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## 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 <input type="checkbox"/>   Female <input type="checkbox"/>
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 <input type="checkbox"/>   No <input type="checkbox"/>
2. If so, could you give a rough estimate of the number of such cases of food poisoning?	
Yes <input type="checkbox"/>   No <input type="checkbox"/>	If yes, how many?
3. Have there been periods or years in which the number of cases has been higher?	
Yes <input type="checkbox"/>   No <input type="checkbox"/>	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.





**SPC INVERTEBRATE SURVEYS**  
**MANTA TOW - if found pls return to: BP D5 98848 Noumea Cedex New Caledonia**

				DATE	Pg
	<b>WPT START</b>	<b>DISTANCE</b>	<b>WPT FINISH</b>	<b>SPEED</b>	<b>TIME START:</b> <b>MAPS &amp; NOTES</b>     <b>TIME FINISH:</b>
1					
2					
3					
4					
5					
6					

	<b>WPT START</b>	<b>DISTANCE</b>	<b>WPT FINISH</b>	<b>SPEED</b>	<b>TIME START:</b> <b>MAPS &amp; NOTES</b>     <b>TIME FINISH:</b>
1					
2					
3					
4					
5					
6					

	<b>WPT START</b>	<b>DISTANCE</b>	<b>WPT FINISH</b>	<b>SPEED</b>	<b>TIME START:</b> <b>MAPS &amp; NOTES</b>     <b>TIME FINISH:</b>
1					
2					
3					
4					
5					
6					

6.4 Minutes

### Minutes

Date: 30/06/21

Time: 1510

Venue: Conference Room (Vaitupu Falekaupule)

Event: Opening Kaupule Consultation

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1510

- Consultation commenced
- Kaleia (*Pule Kaupule*) thanked the team for arriving in Vaitupu.
- Maani gave a brief outline for today's consultation.
- Pitasi made an opening prayer

1514

- Maani apologized the kaupule for the delay of the team's arrival due to Manau'i's abrupt shipping schedule.
- He briefly described the activities done for the week in Vaitupu.
  - He discussed the activities from different sections in the Fisheries Department.
  - He mentioned the management plan already been established and the donor was willing to fund their main priority in the management plan.
  - He mentioned the awareness program made for schools and community.
  - He mentioned the LMMA activity in visiting the LMMA area in Vaitupu.
  - He mentioned that before the team return to Funafuti. There would be a brief summary report be presented to the Kaupule.
- Kaleia mentioned that the community would be reviewing the Falekaupule Act with the Local Government this week. Hence, requested the team to have the program to be done next week.
- He reiterated that the involvement with the community need to be commenced next week due to a workshop with the Local Government Department.
- Tavita supported Kaleia's point about the involvement of the community to be present with the fisheries program. He added that the tentative program was submitted a bit late to the Kaupule when they had other tentative programs from other departments.
- LK apologized to the Kaupule as there were other factors that impacted the team's preparation. She mentioned that there was a procedure for relaying the information to the Kaupule.
- She mentioned that the team would look into it and amend the program to suit the community's time of availability.
- A Kaupule member suggested to have the school awareness to be done this week whereas the community to be switched to next week.
- Kaleia advised that the morning activity for this week was busy due to the involvement of participating the LGD program.

- A KPL mentioned that on the Thursday's program (01/07/2021), the program should be amended for letting the program of MSS to be inserted there.
- LK agreed with the points made from the KPL and amendments would be changed.
- Maani thanked the KPL for their output on the tentative program and reminded the KPL that the team were here for the community.

1540

- Maani mentioned the special activity of Manta Tow.
  - He mentioned that that activity was for the establishment of the Sea Cucumber National Management Plan.
  - He asked if there was a guide who would assist the fisheries team to survey their LMMA area.
    - Tavita answered that they would arrange it with specific stakeholders to approve the team in surveying the LMMA area.
- Matelina described her activity here in Vaitupu.
  - She mentioned that she was making a documentary on Traditional Fishing Technique for each island.
  - She asked if the fishermen were willing to volunteer to allow her to document the traditional fishing technique.
    - Tavita and Kaleia were willing to find someone to volunteer to showcase their traditional fishing technique.
- Nelly mentioned the MOU Grab Bag to be signed and mentioned that the new batch of Grab Bag would arrive soon.
  - He mentioned that the Grab Bag MOU was referring to the Grab Bag that the fishermen had currently.
- Kaleia asked if there was a specific site for the team to survey
  - Maani mentioned that there would be an awareness program that the presenter presenting on LMMA areas.

1551

- Kaleia thanked the team for showing the tentative program and the productive discussion
- He laid out the protocols for staying in Vaitupu and the curfew time and days.
- Closing prayer commenced

1554

- Opening consultation with the Kaupule concluded

### **Minutes**

**Date:** 01/07/2021

**Time:** 1359

**Venue:** Tolise Primary School

**Event:** School Awareness (Primary Division)

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### Activities

1359

- Awareness program commenced
- Maani made salutations to the students
- Neli gave an opening prayer

1401

- Maani briefly explained to the class the purpose of having an awareness program
- Maani introduced the first presenter: Lavata Nivaga

1404

- Lavata introduced himself and his area of work
- He presented on the Importance of LMMA and MPA
  - Gave a brief outline of his presentation
  - He gave the differentiation between LMMA and MPA
  - He displayed the map of Vaitupu and its LMMA site
  - He gave the benefits of having LMMA and MPA established in the island.
    - He gave an example of eco-tourism
  - He mentioned the disadvantages of not establishing the LMMA and MPA site
  - He concluded his presentation in summarizing the topic.
- Floor was opened for discussion.
- Lavata ended his presentation and Filippo presented next.

1411

- Filippo presented on Issues of Overfishing
  - He briefly explained the topic
  - He compared the differences of fishing effort from different time period and its fishing gears and motor
  - He compared the fish sizes from the years: 1965, 1985, and 2020
  - He displayed an image showing MPA/LMMA, Creel, Spawning Area, and Inspection of fishing gears and issuing of fishing license.
  - He explained the Human population and the producing offspring of less than 2, at 2 and more than 2
  - He compared the human population to fish population
  - He gave a recommendations on the impact of overfishing.
  - He concluded his presentation
- Floor was opened for discussion
- Filippo ended his presentation and Pafini presented next.

1423

- Pafini gave a quick recap on Filippo's presentation
- Pafini presented on the Sea Safety of Fishermen
  - Pafini briefly described the outline of the presentation
  - He discussed the 5 minutes sea safety strategy in rescuing fishermen lost at sea
  - He then discussed the disadvantage of having a 5 minute sea safety strategy in rescuing fishermen lost at sea
  - He discussed the best method of being prepared before going fishing
    - Listen to the weather updates
    - Checklist on fishing gears
    - Informing the relatives and friends on when and where he/they was/were fishing
    - Checking on the motor
  - He summarized his presentation
  - Floor was opened for discussion
- Pafini ended his presentation

1430

- Maani thanked the class for being attentive to the awareness program
- Maani thanked the presenters for their presentation
- Uni gifted the school incentives to the staff of Tolise Primary School
- Maani passed the floor to Peleta
- She thanked the staff for the presentation and the gifts from the metro team
- She mentioned that the topics shared would be useful for the students' school project research.
- Maani thanked Peleta for the speech

1437

- School Awareness Program ended.

### **Minutes**

**Date:** 02/07/2021

**Time:** 1441

**Venue:** Tulagafou IV (School Hall) – Motufoua Secondary School

**Event:** School Awareness

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### **Activities**

1441

- The metronome team members distributed the school incentives (Notebooks and colored pen) to the students of MSS

1454

- The school awareness program commenced
- Leotasi briefly informed the students about the team from the fisheries

1455

- Maani gave salutations to the students
- He briefly describe the purpose of the fisheries team coming to the MSS Awareness program
- He briefly explained the outlined for the awareness program.
- He passed the floor to Leotasi for the opening prayer.

1459

- Prayer ended
- Each team member introduced themselves to the students
- The infomercial on the “Parrtofish” from SPC was played
- Maani summarized the infomercial
- He passed to the first presenter: Lavata Nivaga

1510

- Lavata presented on the topic: The importance of LMMA and MPA
  - He briefly describe the outline of the presentation
  - He differentiated between the LMMA and MPA
  - He displayed the maps of each island and their allocated LMMA site
  - He explained the benefits of establishing the LMMA and MPA
  - He explained the disadvantages of not establishing the LMMA and/or MPA
  - He explained the solutions of the prevalent issues
    - BE engaged with the establishing of LMMA/MPA
    - Possibility of fish species population to boom if managed well
  - He concluded his presentation
  - The floor was opened for discussion
  - Lavata gave a pop quiz
    - What is the long form of LMMA?
    - What is the difference between LMMA and MPA?
- Lavata’s presentation ended

1524

- Maani passed the floor to Filipino Makolo

- Filipo presented on the “Issues of Overfishing”
  - He explained the differences of fishing effort over the years
  - He explained the fish size difference between 1965, 1985 and 2015
  - He briefly explained the Human Population in looking at offspring of: less than 2, 2 and more than 2 children
  - He then compared the human population to the fish spawning population
  - He described the image showing LMMA/MPA, Creel, and Inspection of Fishing Gears, Issuing of Fishing License and spawning season and site.
  - He describe the effective of measuring fish – Fish Size sticker.
  - He gave recommendations on ways to mitigate overfishing
  - He concluded the presentation
  - The floor was opened for discussion
  - Filipo gave a pop quiz
- Filipo’s presentation ended

1536

- Pafini presented on the Sea Safety of Fishermen
  - Pafini briefly described the outline of his presentation
  - He explained the 5-minute strategy of rescuing fishermen lost at sea
  - He explained the disadvantage of the 5 minute strategy in rescuing fishermen lost at sea
  - He explained the steps of sea safety
    - Listening to the weather update from the radio
    - Informing relatives and friends on the time and place the person was going fishing
    - Checklist on fishing gears and rations
    - Motor check
  - He concluded the presentation and summarizing his points.
  - The floor was opened for discussion
  - Pafini gave a pop quiz
    - What is the strategy to solve/improve ecosystem?
    - What is the strategy in helping fishermen before they go fishing?
    - What is one advantage of the 5-minute strategy in rescuing the fishermen lost at sea?
  - Pafini’s presentation ended

1552

- Maani thanked Pafini’s presentation
- He passed the floor to Uni Liufau
- Uni Liufau presented on Vessel Sightings
  - He briefly explained the outline of his presentation
  - He explained the Oceanic Section Workforce structure and each sub-section function under Oceanic Section
    - He explained Oceanic Section functions

- He explained the sub-sections under oceanic section
      - Licensing
      - Observer Program
      - VDS and VMS
      - MCS
  - He explained the government revenue and which section receives the most revenue
  - He explained the Maritime definition of the UNCLOS
    - He explained the EEZ and its distance
    - He mentioned the “Innocent Passage”
  - He mentioned the differences between Purse Seiner, Longline and Fish Carrier
  - He explained the ways on how to spot the vessel by looking at the: Name, Call Sign, Date and Colour
  - He explained the proper channel of passing the information on vessel sightings.
  - He mentioned the tracking system used in tracking fishing vessels
  - Floor was opened for discussion
  - ***A student asked if someone reported the vessel, would there be a reward?***
    - Uni answered that we would note the point down
  - Uni gave a pop quiz
    - Give 3 ways in recording the vessel
    - What’s the distance of the EEZ?
- Uni ended his first presentation

1610

- Uni presented on the FADs
  - He briefly explained the outline of his presentation
  - He explained the concentration of the number of FADs in the Pacific Ocean
  - He gave the explanation on the reason for doing the FADs presentation
  - He gave the long form of FADs
  - He explained the variations of FADs
  - He explained the procedure of report FADs been discarded, abandoned or drifted.
  - He shows the ID of the FADs located.
  - He reiterated the point on the procedures of reporting the FADs found ashore.
  - The floor was opened for discussion
  - UNi gave a pop quiz
    - What is one way in recording the FADs when reporting?
    - How many variations of FADs?
- Uni ended his presentation

1620

- Maani thanked the presenters
- He played an infomercial on “Sea Cucumbers”

1623

- Filipino gave a pop quiz
  - What are the ways to improve overfishing?
  - Why do we set up a management strategy in the marine ecosystem
  - What's the function of the Parrotfish?
  - How many kilogram that the parrotfish can excrete sand in a year?
  - What is the use of the sea cucumber?
- Maani gave a pop quiz
  - What is the name of "Ulafi" in English common name?
  - What is the English name of "Funafuna"?
- Nelly gave a pop quiz
  - Whats the long form for FADs?
- Lavata gave a pop quiz
  - Which island has the MPA?
- Uni gave a pop quiz
  - What is the distance of the Territorial Sea?
  - What is the difference between Purse Seiner and Longliner?
- Pop quiz activities ended.

1642

- Maani thanked the students for attending the program
- A short physical activity commenced

1646

- Maani thanked the students and staff for attending the awareness program
- He passed the floor to Leotasi
- Leotasi thanked the presenters on the useful topics based on fisheries.
- He gave a pop quiz
  - What is "Equality"?
  - What is "Equity"?
  - What is "Liberation"?
  - What is the "Tragedy of the Commons"?
  - What is the major factor that contributes to depletion of resources?
- Leotasi reminded the students about the pop quizzes he made and compared it with the fisheries presentation.

1655

- Awareness program concluded.

### **Minutes**

Date: 06/07/2021

Time: 0909

Venue: Anipule II

Event: Community Consultation & Awareness

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### Activities

0909

- Teauoki opened the floor in welcoming the audience and the metro team
- A community member gave an opening prayer
- Teauoki passed the floor to Maani
- Maani thanked the attendees
- He briefly mentioned the Management Plan and said that there was a donor who was willing to fund their main priority.
- He passed the floor to Lotokufaki

0917

- Lotokufaki presented on the extracted management plan – fisheries related issues only
  - She mentioned that there was a donor from NZ who was willing to fund
  - She listed down the issues found in the management plan
- She discussed the 1<sup>st</sup> Issue – *Ika o te papa (Fua kinase mo fuagutuloo)*
  - She discussed their Solutions and activities
- She discussed the 2<sup>nd</sup> Issue – *Paneava o te gie mate*
  - She briefly discussed that issue and was supposed to commence in 2020
- She Discussed the 3<sup>rd</sup> Issue – *Mago*
  - She briefly explained the solutions and activities
- She discussed on the 4<sup>th</sup> Issue – *Vaka faika*
  - She briefly explained the solutions and activities
- She mentioned that the community need to select one out of the four issues as their main priority.
- Floor was opened for discussion

0927

- A woman commented on the 3<sup>rd</sup> Issue. She recommends the 2<sup>nd</sup> Issue to be the main priority
- An elder recommended that the 2<sup>nd</sup> Issue to be the main priority. She briefly explained the on-going issue
- A community recommended the 2<sup>nd</sup> Issue to be the main priority.
- A community member asked about the funds
  - LK answered that the funds will be used once the community sort out their main priority
- Olepa commented on the 2<sup>nd</sup> Issue and was wondering about the funds being sufficient to fund the 2<sup>nd</sup> Issue.
  - LK clarified the 2<sup>nd</sup> Issue

- A community member asked if the fund was one-off. The he asked if there's a fund for assisting the fishermen. He mentioned that there was a fund from USAID costing around AUD\$3million.
  - LK answered that the team would look into it and verify it.
- A woman asked if the fund was used for ministerial use or travelling expenses.
  - LK answered that the community was going off-track and mentioned that the senior admin from TFD were expected to arrive to VTP soon.
  - She mentioned that she had no information on the USAID.
  - The same lady asked that the fund could only fund one issue
    - NS answered that the donor only fund the materials needed in building the *keli* at the *Gie mate*
- Kaleia agreed with Neli's point.
  - He briefly explained the issue (2<sup>nd</sup> Issue) and what needs to be done to prevent the issue.
- LK thanked Kaleia for the discussion. She mentioned that the voting of issues to be commenced.
- A unanimous vote in placing the 2<sup>nd</sup> Issue as their main priority.

0947

- Maani remind the community on the next program: Awareness Program
- Maani passed to the first presenter: Lavata Nivaga.
- LN presented on the Importance of LMMA/MPA
  - He briefly outline the his presentation
  - He explained the difference between LMMA and MPA
    - He mentioned that Funafuti was the only island to have established the MPA
  - He discussed the areas labelled on the Map of Vaitupu
    - He informed the community to update him on the changes of the LMMA sites.
  - He explained the benefits of establishing the LMMA/MPA
  - He discussed the disadvantages of not establishing the MPA/LMMA
  - He explained the solutions and ways to establish the LMMA/MPA
  - He summarized his presentation on the importance of LMMA/MPA
- Floor was opened for discussion

0957

- Alatele asked how does the people when someone visited Vaitupu and they do not know the LMMA
  - LK answered there were ways in letting the public aware of the LMMA.
- Sui asked if there was a way in establishing the MPA
  - LN answered that the Kaupule and the TFD should collaborate in setting up the MPA.
- Kaleia thanked Lavata's presentation. He suggested to stick with having LMMA.
- Maani thanked the audience and passed to the next presenter: Filipino Makolo

1005

- Filipino presented on the Issues of Overfishing
  - He discussed the differences of fishing effort in looking at the fishing gears, motor and fuel
  - He then discussed on the fish size in different periods: 1965, 1985 and 2015
  - He explained the human population of couples and their number of children. Discussed on: less than 2, at 2 and more than 2.
  - He compared the human population to fish spawning. Discussing on: less than 20%, at 20% and more than 20%.
  - He explained the ways of managing marine resources.
  - He explained the image showing the MPA, creel, inspection of fishing gears, issuing fishing license and spawning season. He mentioned that those were the ways in reducing overfishing.
  - He mentioned on the fish size sticker and its use for comparing catch
  - He gave a recommendation on managing marine resources
  - He concluded his presentation
- Floor was opened for discussion

1017

- Olepa asked about the grouper in knowing the fish was about to spawn
  - FM answered that knowing the fish about to spawn was difficult. However, the length is the only way in determining the fish about to spawn.
- A lady commented that there was a by-law already been established
- Maani reiterated to Olepa's point on the Grouper. He mentioned that its difficult to see it
- Alatele asked about
  - FM answered that the fish size sticker was used as a guide to compare the size of the catch. However, he mentioned if the island have established a by-law that
- A community member commented on the fish size in relation to its poison potency.
  - FM answered that the size of fish is determined by the amount of meat.
- Kaleia commented that there should be an expert to look into the specific fish species in determining the spawning season.
  - LK commented that the fisheries could set up a training with the expert from overseas. However, the costs of the training was quite expensive.

1030

- Maani passed the floor to Neli – Sea Safety of Fishermen
  - He outlined his presentation
  - He discussed on the 5-minute strategy in rescuing fishermen lost at sea
  - He then discussed the disadvantages of the 5-minute strategy in rescuing fishermen lost at sea
  - He explained the ways on being prepared and alert before fishing
    - Listening to weather updates
    - Informing relatives and friends on when and where they're going fishing
    - Checklist on Fishing gears

- Checking on the motor
  - He concluded his presentation in summarizing the topic
- Floor was opened for discussion

1038

- Olepa asked about the canoes
  - NS answered that the fisheries are still process in getting the canoes procured
- Teauoki asked how could a fishermen contact the people whilst out at sea
  - NS answered that a VHF need to be tested in order to reach the land base.
- A community member asked that the land based VHF was not installed
  - NS answered that the CFC was used as a station. They would look into it.

1049

- Ice breaker commenced

1051

- Maani passed to the next presenter : Uni Liufau – Vessel Sighting
  - He briefly outlined his presentation
  - He explained the work of the Oceanic Section and its sub-section. He explained each sub-section:
    - Licensing
    - Observer Program
    - VDS & VMS
    - MCS
  - He explained the government revenue of Tuvalu and the sectors that contributed the most.
  - He explained the Maritime Definition of the UNCLOS
    - He briefly explained Tuvalu’s involvement in the ratification of the convention
  - He explained the differences between Purse Seine, Longline and Fish Carrier
  - He discussed on the ways to sight a vessel:
    - Vessel Name
    - Call Sign
    - COlour
    - Date and Time
    - Photo of the vessel
  - He explained the channel of sending the report to the fisheries.
  - He explained the tracking/monitoring systems used for monitoring fishing vessel
  - He concluded his presentation
- Floor was opened for discussion

1103

- Olepa commented that the community find it difficult to sight the vessel in noting down the call sign and the vessel name
- Uni then presented his next topic: FADs
  - He briefly outlined his presentation
  - He explained the concentration of FADs deployed in the Pacific. He mentioned that the number FADs was abundant in Tuvalu's territory
  - He explained the reason for FADs presentation
  - He explained the use of FADs
  - He discussed the variations of FADs.
    - Float
    - Suspended Net
    - Buoy
  - He explained the ways on how to report the FADs and where to take note
    - He showed the images of FADs been recorded with its ID Number
  - He concluded his presentation
- Floor was opened for discussion.

1112

- A lady asked about the FADs and if there was a way to penalize
  - Uni answered there was no penalty in place for discarded FADs.
- The lady was asking about the FADs commonly deployed in Tuvalu
  - NS answered that there's a difference between the FADs commonly deployed in Tuvalu and FADs deployed by the fishing vessel.
  - He mentioned that there's a law on that
- A community member asked about the licensing of fishing vessel.
  - Uni answered that there's a designated area where fishing vessel would do their transshipment.
- A community member mentioned about the Blue Boat.
  - Uni answered on the Blue Boat. He mentioned about Blue Boat's design originated from Vietnam.
- John commented about the FADs.
  - Uni was asking what FADs was he referring to
  - John reiterated that the FADs from different variations have been attracting sharks that becomes a major hindrance.
- Luka asked about the equipment from the Grab Bag
  - NS answered that the PLB were useful in terms of emergency. He explained the function of the PLB.
- Luka mentioned cases happening when someone activated the PLB. He received complaints from NZ and AU that the PLB was activated on land.
  - NS answered that there were similar cases happened in other islands where children played with the PLB that accidently activated the PLB.
- John pointed out on the equipment from the Grab Bag
  - NS answered that he was not aware of the issue happening.
  - He would go through that issue

- Kaleia briefly explained on the VHF that was installed by the Telecom. He mentioned that land base was damaged severely due to strong winds. He then explained that some of the materials have been removed from the damaged land based.

1139

- Maani thanked the community for attending the consultation and awareness program.
- He mentioned that there will be a group photo then lunch.

1140

- Teauoki reminded the community about the group photo.
- Group photo commenced

1145

- Neli reminded the community on the program for tomorrow – Post-Harvest Activities
- Teauoki reminded the community about the activities for tomorrow.
- Closing prayer commenced

1148

- Consultation and awareness program concluded.

### **Minutes**

Date: 08/07/21

Time: 0923

Venue: VTP Kaupule Conference Room

Event: Kaupule Consultation - Closing

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#### Activities

0923

- Consultation commenced
- Kaleia thanked the team and expected the results found from the Metro team
- Tavita made an opening prayer
- Kaleia passed the floor to Maani

0926

- Maani thanked the Kaupule for coming for the program

- Maani briefly introduced the report
  - He discussed surveys done: CFP Case Update, Boat & Canoe Survey
  - He discussed on the Manta Tow results and explained the bioindicators in determining the water quality.
    - He mentioned that a management plan will soon be established in focusing on the sea cucumber
  - He discussed on the awareness program done in school
  - He briefly explained the slide on the community program (Consultation & Awareness).
    - He mentioned that the senior admin were expected to arrive in Vaitupu soon.
  - Maani passed the floor to Lavata to discuss on the LMMA results
    - Lavata briefly explained his findings done when visited the LMMA sites.
    - He discussed on the ways to assist the Kaupule in reviewing and amending the by-laws.
    - He mentioned that there was a plan to demarcate and deploy buoys in the LMMA sites
    - He passed the floor to Maani
  - Maani discussed on the Drifting FADs survey
    - He discussed the number of FADs recorded.
  - He passed the floor to Neli.

0941

- Neli discussed on the results from Post-Harvest Activities.
  - He mentioned the successful event done as the community were eager to join the workshop
  - He discussed on the Grab Bag Inspection.
    - He mentioned the attendance of fishermen
    - He mentioned the refresher training done during the Inspection.
    - He discussed on the new grab bags that would soon be delivered to Tuvalu later in the year.
  - He discussed on the FADs maintenance
    - He mentioned how the FADs function
    - He mentioned on the installation on the buoy.
- Neli passed the floor to Maani

0952

- Maani informed the Kaupule about Matelina's work to be done today
- He informed the Kaupule about the metro team's departure time.
- He passed the floor to Matapua

0954

- Matapua added on to the Post-Harvest Activities done in Motufoua Secondary School (TVET Students)

- She passed the floor

0956

- Kaleia informed the team on the places that were opened. ????
- He commented on where the Grab Bag was stored. He mentioned that if the Data Collector could make a note on checking the Grab Bag.
  - He mentioned that most times the inside of the Grab Bag was wet. He deduced that the water was leaked through the zip of the Grab Bag.
- He commented on Canned Fish
  - He reviewed the product to be excellent in terms of its sauce/marinade. He suggested that this activity should be practiced and could be used for the children's break.
- Pitasi commented on the drifting FADs found ashore.
  - She asked on how...
    - Maani answered that the purpose of that was for reporting purpose.
  - She commented on the FADs been found in dumpsite
- Kufaki commented on the FADs and how the fishing companies searched for their missing FADs
- Matapua briefly explained the process of reporting of FADs (Drifting)

1007

- Neli displayed the new grab bags that soon be arriving to Tuvalu.
  - He described the Mini Grab Bag and its equipment
  - He mentioned that the Mini Grab Bag is useful for Canoe
  - He described the specification of the Large Grab Bag
- Kaleia commented on the FADs that had been cut off by the MV Manufolau
  - He mentioned that there was an issue when someone made a maintenance on the buoy and someone else fished there and also cut off the parts of the buoy.
  - He mentioned that there were some issue among the fishermen and how some of the policies made were not transparent.
- Kaleia thanked the team for the report.

1015

- Neli mentioned that there would be an extension officer to be stationed in all outer islands.
  - He mentioned that the extension officer would also investigate on FADs issue
- He passed the floor to Maani

1019

- Maani concluded the report
- He passed the floor to Kaleia
- Kaleia thanked the team for working well during their stay in vtp

1023

- Kaupule Consultation program concluded.



6.5.3 Post-Harvest Training in Motufoua Secondary School (03/07/2021) – Day 2

Venue: MSC Training Hall Tuvalu Fisheries Department Date: 03/07/2021

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
Saosao	17	M	TVSD Student	[Signature]
Vaitasiana	18	F	TVSD student	[Signature]
Kritele	18	F	TVSD student	[Signature]
Edrick Raugatasi	17	M	TVSD student	[Signature]
Totuna	20	F	TVSD students	[Signature]
Tomasi	17	M	TVSD student	[Signature]
Taanua	18	M	TVSD student	[Signature]
Nukualofa	17	M	TVSD student	[Signature]
Fiumalu	17	M	TVSD student	[Signature]
Teisi	16	M	TVSD student	[Signature]
Haea	17	M	TVSD student	[Signature]
Telega	19	M	TVSD student	[Signature]
Vaialo	17	M	TVSD student	[Signature]
Hiiti	17	M	TVSD student	[Signature]
Dagmar	19	M	TVSD student	[Signature]
Taii	18	M	TVSD student	[Signature]
Tui	17	M	TVSD student	[Signature]
Amu	17	M	TVSD student	[Signature]
Jatta		M	work	[Signature]
Dani		M	work	[Signature]
Falalumea		M	work	[Signature]

ATTENDANCE LIST DAY 2. Post-Harvest Training.

6.5.4 Community Consultation & Awareness Program (06/07/2021)

Venue: ANIPILE II Tuvalu Fisheries Department Date: 06/07/21

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
1. Tukaei Auega	78	M	Elderly	[Signature]
2. Iqaele Pitea	56	M		[Signature]
3. Fua Lofa	55	M	Farmer	[Signature]
4. Sione Kaitiama	59	M		[Signature]
5. Teakali Kaitiama	57	M		[Signature]
6. Isako Isako	43	M	Agri	[Signature]
7. Sione Kaitiama	38	M	Agri	[Signature]
8. Fua Siale	58	M	Farmer	[Signature]
9. Lika Kaitiama	56	M		[Signature]
10. Sione Kaitiama	36	M	Tourism	[Signature]
11. Fua Kaitiama	26	M	KOV	[Signature]
12. Lika Kaitiama	57	M	KOV	[Signature]
13. Auega Lofa	44	M	Agri	[Signature]
14. Malaga Kaitiama	35	M	Fish	[Signature]
15. P. Lofa	40	M	KOV	[Signature]
16. Lika Kaitiama	28	M	Agri	[Signature]
17. Lika Kaitiama	42	M	KOV	[Signature]
18. Danny Telega	36	M	Agri	[Signature]
19. Siale Telega	40	M	Tourism	[Signature]
20. Lika Kaitiama	41	M	Agri	[Signature]
21. Fua Kaitiama	42	M	Carpenter	[Signature]
22. Kaitiama Kaitiama	38	M	KOV	[Signature]
23. Lika Kaitiama	38	M	Agri	[Signature]
24. Lika Kaitiama	30	M	KOV	[Signature]
25. Lika Kaitiama	30	M	Agri	[Signature]
26. Fua Kaitiama	55	M	KOV	[Signature]
27. Telega Kaitiama	29	F	KOV	[Signature]
28. Lika Kaitiama	49	T	KOV	[Signature]
29. Malaga Kaitiama	69	T	"	[Signature]
30. Siale Kaitiama	73	T	"	[Signature]

ATTENDANCE LIST

Venue: ANIPALE II

Tuvalu Fisheries Department

Date: 06/07/21

COMMUNITY CONSULTATION & AWARENESS				
NAME	AGE	GENDER	OCCUPATION	SIGNATURE
31. Magona. Tofufo	24	M	KOV	[Signature]
32. Tanta. Mulu	25	M	KOV	[Signature]
33. Tolea. Toga	62	M	KOV	[Signature]
34. Tolea. Toga	62	M	KOV	[Signature]
35. Tolea. Toga	62	M	KOV	[Signature]
36. Tolea. Toga	62	M	KOV	[Signature]
37. Aneva. Eganole	61	F	KP. member	[Signature]
38. Sela. Vili	59	F	HLW	[Signature]
39. Sikinale. Apasa	65	F	HLW	[Signature]
40. Sela. Vili	73	F		[Signature]
41. Sela. Vili	59	M		[Signature]
42. Uluva. Kava	46	F		[Signature]
43. Uluva. Kava	45	F	Kamp. member	[Signature]
44. Pula. Toga	53	M	KOV	[Signature]
45. Pula. Toga	53	M	KOV	[Signature]
46. Pula. Toga	53	M	KOV	[Signature]
47. Pula. Toga	39	M	KOV	[Signature]
48. Pula. Toga	36	M	KOV	[Signature]
49. Pula. Toga	58	M	KOV	[Signature]
50. Pula. Toga	38	M	KOV	[Signature]
51. Pula. Toga	57	M	KOV	[Signature]
52. Pula. Toga	79	M	KOV	[Signature]
53. Pula. Toga	24	M	KOV	[Signature]
54. Pula. Toga	69	M	KOV	[Signature]
55. Pula. Toga	69	M	KOV	[Signature]
56. Pula. Toga	63	M	KOV	[Signature]
57. Pula. Toga	45	M	KOV	[Signature]
58. Pula. Toga	43	M	KOV	[Signature]
59. Pula. Toga	46	M	KOV	[Signature]
60. Pula. Toga	57	M	KOV	[Signature]
61. Pula. Toga	24	M	KOV	[Signature]

ATTENDANCE LIST

Venue: ANIPALE II

Tuvalu Fisheries Department

Date: 06/07/21

COMMUNITY CONSULTATION & AWARENESS				
NAME	AGE	GENDER	OCCUPATION	SIGNATURE
61. Tala. OMA	21	M	F.C (Tumasea)	[Signature]
62. Tala. OMA	25	M	Fisherman (Toga)	[Signature]
63. Kaka. Kaitu	62	M	Vendor	[Signature]
64. MARE. Tofufo	64	M	Fish. lampole	[Signature]
65. MARE. Tofufo	26	M	AGRIC	[Signature]
66. MARE. Tofufo	75	M	land. collector	[Signature]
67. MARE. Tofufo	75	M	land. collector	[Signature]
68. MARE. Tofufo	69	M		[Signature]
69. MARE. Tofufo	72	M	Tumasea	[Signature]
70. MARE. Tofufo	72	M	Tumasea	[Signature]
71. MARE. Tofufo	57	M	Tumasea	[Signature]
72. MARE. Tofufo	24	M	Tumasea	[Signature]
73. MARE. Tofufo	20	M	Tumasea	[Signature]

ATTENDANCE LIST

6.5.5 Post-Harvest Training for Women & Youths (07/07/2021)

Venue: ANIPULE 2. Tuvalu Fisheries Department Date: 07/07/21

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
Kanava Tapui	66	Female	H/Wife	[Signature]
Kuan' Sapala	66	F	H/Wife	[Signature]
Sera' Sapala	59	F	H/Wife	[Signature]
Ariera Paqalale	61	F	KPL member	[Signature]
Amanila Tapui	56	F	H/Wife	[Signature]
Sikinala Apasai	65	F	H/Wife	[Signature]
Tilansa Paumotoga	45	F	Kaupule member	[Signature]
Uluva Paumotu	46	F	H/Wife	[Signature]
TERIKI. KIVIA	60	M	FKP	[Signature]
Fona	58	M	FKP	[Signature]
Soso	27	F	FKP	[Signature]
Maloky	38	F	FKP	[Signature]
ELIA LAFAI	55	M	Civil servant	[Signature]
Esou. SOROGA	40	M	Community	[Signature]
Mua'aka'atani	44	M	Community	[Signature]
Le'ale'ale	68	M	Community	[Signature]
Pepeta	55	F	Community	[Signature]
Elisab.	43	M	Community	[Signature]
Solome F.	32	F	Community	[Signature]
Le'ale'ale Teama	46	F	Community	[Signature]
Siona Kivama	31	F	Community	[Signature]
Tealima. I. Islamo	20	F	Data Collector	[Signature]
Loma Fona	46	F	Community	[Signature]
Peneli	65	F	Community	[Signature]
Noama	24	F	Youth	[Signature]
Makalata Paumotu	51	F	Community	[Signature]
Talasila. Kallag.	58	F	Community	[Signature]
Le'ale'ale S.	48	F	Community	[Signature]
Hosihosi	42	F	Community	[Signature]

ATTENDANCE LIST VTP WOMEN & Youth Post harvest training

6.5.6 Grab Bag Inspection (07/07/2021)

Venue: ANIPULE II Tuvalu Fisheries Department Date: 07/07/21

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
Semelo Katapu	59	M	Fisherman	[Signature]
Kolia Kelone	65	M	Fisherman	[Signature]
Tapu Tapa	64	M	Fisherman	[Signature]
Taketa'atani	58	M	Fisherman	[Signature]
Ihnu Tala	67	M	Fisherman	[Signature]
Mona Paumotu	57	M	Fisherman Kaupule Fisheries VTP	[Signature]
Kalelaga Siona	58	M	Fisherman	[Signature]
Kila'atani	49	M		[Signature]
Ketala Tama	50	M		[Signature]
Talaga Lameke	26	M		[Signature]
Tavaga Tuka	33	M		[Signature]
Talaga'atani	42	M		[Signature]
Le'ale'ale Kates	45	M	CFC ICON	[Signature]
Le'ale'ale Siona	25	M	F-MEM	[Signature]
Talaga Mose	23	M	Fisherman	[Signature]
Talaga Mose	21	M	CFC	[Signature]
Le'ale'ale Siona	40	M	Fisherman	[Signature]
Le'ale'ale Siona	38	M	Tolu Laka	[Signature]
Le'ale'ale Siona	52	M	FKP	[Signature]
Le'ale'ale Siona	60	M	Talaga'atani o dik'i	[Signature]

ATTENDANCE LIST Grab Bag Inspection

6.5.7 Kaupule Consultation (Closing) – 08/07/2021

Attendance List

Date: 08/07/21  
 Venue: Vaitupu Kaupule  
 Event: Kaupule Consultation (closing).

	Name:	Age	Occupation	Signature
1.	Kaleia	62	P/K	[Signature]
2.	Taife	52	Gov Sec A	[Signature]
3.	Pitaasi Paumalea	45	Kaupule member	[Signature]
4.	Sua maha	73	"	[Signature]
5.				
6.				
7.				
8.				

6.6 Map of Vaitupu Island and its allocated sites of LMMA.

