

Metronome 19 Report, 10th-31st MAY 2021(Niulakita & Nukulaelae)



FUNDED BY PROP, TFSP, EIF PROJECT and TUVALU GOVERNMENT



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1.0 SUMMARY

Metronome 19 trip mainly visited the southern islands of Tuvalu (Niulakita and Nukulaelae) to fulfill one of the major activities for the Outer Island subsection under the Coastal Workplan funded by PROP, TFSP, EIF project and Tuvalu Government. The trip covered numerous activities for the department such as Kaupule and Community consultations, Community and School awareness, Boat and canoe survey, Ciguatera fish poisoning case follow-up, Outer island data collector refresher training, Manta Tow Survey of Bechedemer, Post harvesting activities, Smoke box construction training, FAD maintenance, LMMA and MPA activities and Grab bags inspection for the safety of fishermen. All activities were completed within its standard procedures and guidelines by responsible officers, stakeholders and other relevant parties.

Information were collected through verbal interview, consultation, field surveys by foot, boat and snorkeling. However, the management plans priorities for Niulakita and Nukulaelae were to deploy a nearshore FAD and conducting a capacity training on motor engines and procurement of motor engine spare parts. Topics conveyed to both communities consisted of Vessel Sighting and FAD reporting, importance of LMMA and MPAs, fish sizes and sea safety of fishermen. The same themes were given to both schools excluding vessel sighting and FAD reporting. A total of 2 aluminum boats been surveyed at Niulakita, 20 aluminum boats, 6 wooden canoe, a single wooden boat, aluminum canoe and fiberglass boat at Nukulaelae. None of the CFP cases on both islands and Nukulaelae FAD was still in good condition with little work done to improve its aggregation purpose. Beche-de-mer survey was dominant by lollyfish (4252), followed by curryfish (88), leopardfish (10) and black teat fish (5) in Nukulaelae lagoon. A high roll of participants for the post harvesting training -19 from Niulakita and 40 from Nukulaelae was a good indication of both community's capacity -building and knowledge-added being improved. Fisheries officers just found out a new MPA has been located on Niulakita island within its LMMA by R2R project thus needs proper investigation while Nukulaelae island have plotted 14 islets as their terrestrial protected areas named as Muliteatua, Motutala, Asia, Motukatuli lasi, Puuniu, Motukatuli foliki, Kavutu, Teafaatule, Te motuloto, Motutafa, Aaula, Fenuaalago, Te motu o Lepeka, Fetuaatasi, Taapuailani. The OI DC for Nukulaelae raised issues of receiving late payments and requiring assistance during creel survey. Niulakita community do not have a grab bag but there was a need to procure one for their safety at sea. Nukulaelae grab bag assessment was a bit chaos as more than half of the fishermen did not turn up due to several reasons but overall, fishermen did very well in managing their grab bags.

In fact, management of marine resources in both islands was a bit challenging due to a lack of scientific information been collected so far. However, LMMA and MPA is one key activity that needs baseline surveys and monitoring over time. Proper scientific research and surveys are highly demanding with regards to issues such as not many fish in the reef of Niulakita and beche-de-mer survey design for both sites (lagoon and ocean) to provide reliable data for a national BDM management plan.

Despite having an unfavorable weather during the beginning of the trip and the last days on Niulakita, the team managed to accomplish all activities laid out in the tentative program for both islands and returned back to the office safe and sound.

2.0 INTRODUCTION

The metronome trip was held in the Southern Group of Tuvalu (Niulakita and Nukulaelae). The team consisted of Coastal, Oceanic, Operations & Development and Administration sections from the Fisheries Department and one from the Trade Department. The team embarked on the *FV Manau* on the 10th of May around 4 PM to Niulakita. The team stayed for nearly 2 weeks due to bad weather in Niulakita and maintenance issue with the vessel. Hence, the program was delayed for a few days. On the 22nd of May, the team embarked on the same vessel and headed to Nukulaelae around 3 PM. The team arrived in Nukulaelae on midnight, but the team stayed on the vessel until daytime. The team landed in Nukulaelae on the 23rd of May. Then, the team wrapped up the trip in Nukulaelae on the 31st of May bound for Funafuti around 1 PM. The team arrived safely in Funafuti at 1140 PM 31st of May.

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

The team's purpose in coming to the South 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 island. Programs like Community and School Awareness, Ciguatera Fish Poisoning Case Update, Boat and Canoe survey, LMMA Activities, Manta Tow, Post-Harvest Activities and FADs maintenance. The officer from the Trade Department joined in this trip in collaboration with the Operations & Development Section in working on Post-Harvest Activity. The Trade Department played a vital role towards the Operations & Development sections in aiding the island communities on their needs to help develop their local product and use that product to export globally.

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 Nukulaelae; part of the phase to develop a national management plan of sea cucumbers. Nonetheless, the trip was made successful throughout with the available resources and courageous hearts of those who were able to be part of Metronome 19 trip.

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. In addition, the community selected one priority from the extracted fisheries related issues in their Management Plans that was suffice with the allocation of a 10K per 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 the LMMA. Plotting of selected sites (Ifilele pond in Niulakita, Niulakita LMMA and MPA boundary. There were 14 LMMA islets on Nukulaelae).**

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 had consulted with the Kaupule in arranging with the Island Communities with the programs provided for them. Brief discussion was made with the Kaupule on the tentative program and sought their approval based on their time schedule for availing themselves for the program.

However, in Nukulaelae there were some clashes with the Ministry of Health team that made arrangements with the Kaupule prior to the Metro team's arrival. There were some changes made in the tentative program and followed with the community's available time for a week.

4.2 Community Consultation

The consultation was made with the community in raising awareness of their management plans made with R2R years ago. Here are the results from each island.

4.2.1 Niulakita Community Consultation

The community had only one issue that needed to be solved. The community wrote their only priority which was "*Se uke a ika ote papa*" translates that into "Not many fish in the reef". The community expressed their views based on how to monitor the issue due to the island coastline structure. An officer suggested that a survey is the best monitoring method to look into the issue in the long term but for the sake of the community in the short term, FAD deployment would be a great solution indeed to aggregate fish nearshore.

4.3 Nukulaelae Community Consultation

The island of Nukulaelae from all age groups (Women Association, Fishermen Association, *Kaupule* and the Youths) gathered during the event. Issues were discussed related from the fisheries issues mentioned in the Management Plan from Ridge to Reef Project (R2R). The communities were productive in discussing the prevalent issues happened in Nukulaelae. There were 2 issues been commonly raised during the consultation; they were: "*Seai se VHF Base*" and "*Masei o mooto faika kae se lava te atamai*". However, the community made a vote to select one out of the two. The vote was unanimous on "*Masei o mooto faika kae se lava te atamai*". The community advised the team not to disregard the other main issue.

4.4 Ciguatera Fish Poisoning (CFP) Case Update

The team paid visit to the island medical center and discussed with the nurse if there were any positive cases of CFP. Both Niulakita and Nukulaelae have confirmed **that there were no cases of CFP**.

4.5 Boat & Canoe Survey in Southern islands (Niulakita & Nukulaelae)

The team from the Coastal section made a survey on Boat & Canoe around the island and here are the tables below:

Table 1: Boat & Canoe survey showing the conditions in Niulakita

	Aluminum Boat	Aluminum Canoe	Wooden Boat	Wooden Canoe
Good	2	0	0	0
Poor	0	0	0	0

Others	0	0	0	0
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Table 2: Boat & Canoe survey showing the conditions in Nukulaelae

	Aluminum Boat	Aluminum Canoe	Wooden Boat	Wooden Canoe	Fiberglass Boat
Good	15	1	1	3	1
Storage	4	0	0	0	0
Poor	1	0	0	3	0
GRAND TOTAL	20	1	1	6	1

4.6 FADs Status & Maintenance

Nukulaelae FADs deployed earlier this year in February, with FADs coordinate of **(Latitude: 09°22.051'S / Longitude: 179°47.783'E)**. There was no diving inspection done to the main line and the anchor as this FAD was still in good condition with no complication that needs a proper diving. There were 3 officers that assessed the FADs and aggregated the FADs, the team included 2 from Fisheries and 1 from the association of fishermen. After snorkeling assessment, the team aggregate the FADs with purse seiner fishing net. This would allow small fish to protect themselves by sheltering under those net, which attracted big fish into the FAD.



Fig.1 FAD in Nukulaelae island

4.7 Other Activities

4.7.1 Manta Tow Activity in Nukulaelae

The Resource Assessment and Monitoring sub-section officers took part in surveying the number of sea cucumbers within Nukulaelae Lagoon. The team was assisted by Nukulaelae Data Collector and a locale in surveying the area. The distance covered whilst surveyed was 2010 m.

Table 3: Sea cucumber Counts in Nukulaelae lagoon

Sea Cucumber Species	Number of each species
Lollyfish (<i>Holothuria atra</i>)	4252
Curryfish (<i>Stichopus hermanni</i>)	88
Leopardfish (<i>Bohadschia argus</i>)	10
Black Teatfish (<i>Holothuria nobilis</i>)	5

The above results showed that the lagoon was dominant with lollyfish species counted in thousands compared to the other species such as curryfish, leopardfish and black teatfish which were far low in count.

4.7.2 Awareness Program

The awareness program was one of the vital programs that need to be delivered to the community of being aware of their Marine Resources and the Safety of Fishermen. The presenters were Filipino Makolo, Lavata Nivaga and Pafini Fepuali. There was a special awareness from the Oceanic Section which was presented by Uni Liufau based on his topics: “**Report of FADs**” and “**Vessel Sighting**”. The topics covered were: **Fish Size, Importance of LMMA/MPA and Sea Safety of Fishermen.**

However, in Nukulaelae during the school awareness, some officers replaced Filipino Makolo and Lavata Nivaga due to their busy schedule planned out in the program. The officers who replaced them were Hetoa Taula and Lotokufaki Kaitu.

4.6.2.1 Community Awareness

Niulakita

The presentation took place in *Salamanu 2* Hall on the 13th of May. The community were impressed with the presenters’ presentations. There were points raised on certain topics and some were praises for providing valuable information to the community. The points raised during the community awareness were:

- **Fishing Vessels being spotted most of the times near Niulakita waters.**
- **Vessels being close to the island at night but further during the day.**
- **Abundant number of FADs being abandoned and drifted ashore to Niulakita – some beacons were active**
- **Issue on relaying the info to the right stakeholders about FADs.**

Nukulaelae

During the community awareness, the audience were productive and attentive to the topics delivered. It was held at the “*Akau Fakalava – Dining Area*” on the 25th of May. Some of the audience commented or critique the topics presented. There were some issues raised on all topics. Issues raised were:

- **Establishing of MPA in Nukulaelae**
- **Equipment in the Grab Bag**
- **Fishing Vessels been sighted near Nukulaelae**
- **FADs damage the coral reef ecosystem**

4.6.2.2 School Awareness

Niulakita School Awareness

The school awareness in Niulakita was held at the *Salamanu 2* Community Hall. Five students were present during the awareness including some guardian and parents. There were some comments made from the audience regarding on each topic been shared. Here were the points raised during the school awareness:

- **The certainty of when the rescue team will be able to respond to fishermen who were out at sea during bad weather.**
- **Fishermen in Niulakita currently do not have Grab Bags in their possession**
- **LMMA in Niulakita have been mismanaged of their marine resources or highly unlikely of fish growing in those LMMA area**
- **Survey on Reef Fish have not been conducted in Niulakita for some time. However, an expert mentioned that the breeding season occur during the new moon or full moon.**

Nukulaelae School Awareness

During the school awareness, it was held at Faikimua Primary School at the Computer Lab. Students from Class 5 and above attended the awareness program including their Classroom Teachers. The students learned a lot through watching videos from SPC topics on Sea Cucumbers and Parrotfish. The presenters gave pop quizzes to observe the students' attention span from the presentation.

4.7.3 O IDC Refresher Training

The officers from the Outer Island sub-section and Resource Assessment & Monitoring sub-section conducted a refresher training with the Island Data Collector. The training was done by going through Creel Datasheets, Fortnightly Report templates and proper measurements in measuring the length of invertebrates.

Consultation commenced after the refreshing training was done. The issues raised from the Island Data Collector were the payment issue and assistance in conducting Creel. The issues were noted and worked on that matter.

Issues raised were:

- **Late Payments**
- **Assistance needed for Creel**

4.7.4 LMMA Activity

In the consultation with two islands, the LMMA officer found out that Niulakita has selected two specific areas as their MPA. One is the Ifilele pond and the other is a part of their LMMA on the coastal of the Eastern side of the island. One end of the Niulakita coastal MPA boundary was demarcated by red cloth tightened to the trees to show transit bearing that indicate the boundary of the MPA. On the other end of the boundary, a rock and a tree were used to indicate the boundary of the Niulakita coastal MPA. In addition, Fisheries officers were not aware of how Niulakita Island managed to locate their MPA and why they chose those particular areas.

With Nukulaelae, the LMMA officer found out that there were 14 islets that has been chosen by the Nukulaelae Falekaupule to be protected as their Terrestrial protected areas. These islets are Muliteatua, Motutala, Asia, Motukatuli lasi, Puuniu, Motukatuli foliki, Kavutu, Teafaatule, Te motuloto, Motut'afa, Aaula, Fenuaalago, Te motu o Lepeka, Fetuaatasi, Taapuailani.

LMMAs and MPAs for both islands have been plotted onto the Global Positioning System (GPS) for future references and for the Tuvalu Fisheries Department records.

4.7.5 Post-harvest Activities

4.6.5.1 Smoke Box Construction

On the 13th May 2021, box construction training was successfully implemented with the Niulakita community while in Nukulaelae on the 25th May 2021. Materials needed for this training were funded under the Trade and EIF assistance. The following were covered during the box construction training;

1. **Box layout and dimensions,**
2. **Materials needed for the smoke box.**



Figure 2: Participant from Niulakita part taking in Box Construction



Figure 3: Participant from Nukulaelae part taking in Box construction

The training was a success and completed within 2 days, where after discussion with them on the layout and the materials needed, participants were asked to participate in constructing the box using the provided materials. The participants understood on how to construct the smoke box in different sizes, materials needed and usage of the box. The training completed with positive feedbacks from participants and a word of thanks for the fruitful training. The team acknowledged the participants for their participation during the entire 2 days training as well as taking part in all other activities.

4.6.5.2 Post-Harvest Training

Background

The Operation and Development Unit under Tuvalu Fisheries department is supporting the communities and the people of Tuvalu on Post-Harvest Training. Under the Tuvalu Fisheries work plan that is align with Corporate plan, one of the target objectives was to support sustainable development of small-scale fisheries for livelihoods, food security and healthier diets.

The report highlighted and discussed the main objectives of the training on the 2 islands (Niulakita and Nukulaelae), the importance of fish handling and preservation. The objectives and outcomes of the training were as followed;

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.**

Outcomes of the Training workshop

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. Introducing trends of domestic trading and Packaging.

4.6.5.3 Training Organization

The training was designed to support a sustainable development for small scale fisheries on livelihoods, food security and healthier diets in 2 days. The training was structured in 2 ways, first day in a classroom

Training Coordination

The Operation and Development unit, Trade and EIF was responsible for organizing, planning and coordinating Post-Harvest Training to Niulakita and Nukulaelae. PROP, Trade and EIF provided immense support in funding workshop venues, expenses and refreshment for these 2 islands.

Participants

Table below showed the number of men and women participated in the training activities from Niulakita and Nukulaelae. Participants which included youth, women, fishermen and elders from these islands.

Table 4: Number of Participants for Niulakita and Nukulaelae (Refer to Appendix)

Island	Number of Female	Number of Male	Grand Total
Niulakita	7	12	19
Nukulaelae	10	30	40
Grand Total	17	42	59

4.6.5.4 Training Workshop and Activities

Introduction to Post Harvest Training

Introduction to post harvest training in Niulakita started on the 17th May 2021 with power point presentation on post-harvest and trading of our local products for 2 days. While in Nukulaelae started on the 27th of May 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 18th May 2021, the practical session for the community of Niulakita started. The participants were all asked to participate in the practical session. The practical session basically focused on how to marinate fish, smoking of fish, preserving of fish in bottles and lastly how to pack and labelled fish products using the vacuum sealer (packing machine). 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.



Fig.4 Post harvest training in Niulakita

On the 27th May 2021, a refresher training on post-harvest training was executed to the Nukulaelae community including fishermen, youth, women and elders. 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.



Fig.5 Post harvest training in Nukulaelae

After practical completed, recap of the training was done by Mr Pafini Fepuali on the importance of the training to the communities. The skills and knowledge gained from the training would help them sustained and improved their livelihoods and to become resilient and adapt changes for any unexpected events.

Table.5 Achievement and Outcome of the training

Expected Outcome	Remarks
1. Produce healthy fish product	The people from these 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 and labelling 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.

4.6.6 Grab Bags Inspection

On the 28th May 2021, Grab Bag Inspection was made during the metronome 19 to Nukulaelae, 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. **Discussion on issues and challenges; and**
3. **Recommendations to improve the movement of the association in terms of sea safety.**

TABLE.6 INSPECTION RESULTS OF GRAB BAGS IN NUKULAEALAE

Equipment List	# of lost/missing gears	Comment
Laser flare	2	Lost during the inspection
PLB	1	Missing during the inspection
Strobe Light	1	Lost during the inspection
SRS	1	Lost during the inspection
GPS	3	2 Lost and 1 Broken
Map Compass	2	Lost during the inspection
Sea anchor	1	Lost during the inspection

Signal Mirror	1	Lost during the inspection
Whistle	1	Lost during the inspection
VHF	4	3 Lost and 1 broken
Life jacket	1	Lost during the inspection
Thermal blanket	1	Lost during the inspection
Thermal bag	1	Lost during the inspection
Batteries (spare)	10	No spare batteries

A total number of 26 bags, 16 bags was donated by the Fisheries and 10 bags was procured by the Kaupule of Nukulaelae. There were 12 bags inspected and 14 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.

Discussion was made after refresher training and the inspection about issues facing the association. Reports also found out that, carelessness of each individual to look after each gear inside the grab bag was an issue. And lastly, the team discussed with them the way forward to solve and overcome the challenges that has been faced by the association.

5.0 ISSUES & RECOMMENDATION

During the metronome trip, the team had encountered issues during the trip and have gathered all the information from the activities done in the Southern Islands. Then, recommendations were made in order for the issues to be mitigated in the next trip to the South.

Issues in Niulakita and Nukulaelae

- **Delay of the boat schedule to pick the team up.**
 - **Affected the tentative program and had to delay just to make up for the program to be completed**
- **Replacement of used gears, missing, damage and stolen gears inside the Grab Bag – it was each grab bags owner responsibility and the association to replace any gears that was used, damage and stolen. Lastly, EIF and trade supported the association in terms of funding to replace any gears that has been used, expired, damaged, and stolen through proposal writing.**
- **Improve safety at sea for fisherman in Niulakita, - Niulakita requesting if Tuvalu Fisheries to prioritize and donated 1 Grab Bag for Niulakita once new Grab Bags arrived**

Recommendations in Niulakita and Nukulaelae

- **To improved and maintain fish quality and its freshness. – There was only 1 boat in Niulakita that R2R procured and now under the management of the island, Niulakita requested if Tuvalu Fisheries could provide 2 cooler and 1 deep freezer to improved and maintained fish quality and freshness. Given Niulakita has a wide reef area given more time to catch enough fishes for consumption and also for marketing. Niulakita also proposed to EIF if they could provide a small ice making machine which improved and maintain high quality and freshness of fish.**
- **Proper demarcation of LMMA and MPA boundaries for both islands using buoys and beacons.**
- **Investigation should be carried out to confirm on how MPAs on Niulakita was made.**
- **Surveys should be carried out in the Niulakita MPAs to seek scientific opinion(s) on the selected MPA sites.**
- **Monitoring surveys for both island’s LMMA to see the utility of their LMMAs.**
- **Proper management techniques for Niulakita island to support the restoration of their marine resources.**

6.0 APPENDIX

6.1 Seafood Poisoning Report Form (CFP)



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"/>	How many others:
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:		

Symptoms (tick all that apply)				
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:				
History				
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:

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 <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
	WPT START	DISTANCE	WPT FINISH	SPEED	TIME START: MAPS & NOTES TIME FINISH:
1					
2					
3					
4					
5					
6					

	WPT START	DISTANCE	WPT FINISH	SPEED	TIME START: MAPS & NOTES TIME FINISH:
1					
2					
3					
4					
5					
6					

	WPT START	DISTANCE	WPT FINISH	SPEED	TIME START: MAPS & NOTES TIME FINISH:
1					
2					
3					
4					
5					
6					

6.4 Minutes

Date: 12/05/2021

Time: 1034

Event: Niulakita Kaupule Consultation - Opening

Venue: Salamanu 2 (Community Hall)

Activities

1034

- **Maani gave a brief intro and apologised for the change in date of the team's arrival due to the weather.**
- **Passed the floor to the Pastor**
- **Opened with an opening hymn and prayer**
- **Maani gave the floor to the metro team members to introduce themselves to the audience.**
- **Maani gave a brief discussion on the Tentative program for Niulakita for a week.**
 - **He allowed the audience to amend the program of their time's availability.**
 - **He explained the activities in detail and the purpose of doing it.**
 - **He mentioned the Management Plan and wanted to review the Management Plan.**
 - **He discussed on the Post-Harvest activities – Construction of Smoke Box and Smoked Fish training**
 - **He mentioned on the Awareness Program for the community and school.**
 - **He asked the community's permission if it is possible to have a post-harvest training on Saturday.**
 - **The final day will be a presentation of the team's findings and discussions whilst staying in Niulakita.**
- **The floor was opened for discussion**

1103

- **Pastor thanked Maani and the team. He commented about the Team's last-minute change of date of arrival to the island. He recommended to avoid this action as the community have been confirmed with the original tentative program. He asked about the Smoke box construction**
 - **Neli answered that that program was made for all community members to be involved especially women.**
- **Maani thanked the Pastor for the concern and also the time of consultation. He apologized the community and will improve on that behavior.**
- **Maani added on the trays (refreshments) and informed that the team member.**

1113

- **Matelina asked the assistance from the women association on fishing practices that is common in Niulakita.**
- **She mentioned that she was making a documentary on fishing practices in Tuvalu.**
 - **The pastor will make an arrangement with the women in the community.**
- **Matapua commented on the work of Matelina and the importance of having a documentary.**
- **The pastor apologized to the team due to the number of people travelling to other islands.**
- **Maani reminded the audience for today's program in site seeing the LMMA area in Niulakita and asked if a locale could guide us to the destination. The program commenced after lunch.**
- **He asked if the team could borrow a boat to catch fish for the Post-Harvest training.**
 - **The KPL member could arrange for that activity.**
- **He concluded the program and thanked the kaupule member for listening to the program.**

1124

The kaupule consultation ended

Date: 13/05/2021

Time: 1032

Venue: Salamanu 2

Event: Community Consultation

Activities

1032

- **Consultation commenced with an opening prayer from the Pastor**
- **Maani opened the floor by briefing the program for the day.**
- **He gave the floor to Lotokufaki**

1035

- **LK mentioned the Management Plan that was extracted that relates to the fisheries related issues**
- **She mentioned the donor that is willing to give \$10K**
- **She explained that the Niulakita community made only one issue which was "*Se uke a ika ite papa*"**

- She added on the activities listed in the Management Plan under the same issue and explained each activity that should be done by 2025.
- She explained the stakeholders and officers involved in carrying out the activities
- She mentioned the dates that each activity should be achieved.
- She explained the Monitoring Plan briefly.
- She explained the solution “*Fakaleiga tulaga o ika o Niulakita*”. She recommended that “Surveying” is a best monitoring method and asked the community their feedbacks on it.
- Floor was opened for discussion

1047

- Fatuvae commented on that issue and asked for a reason why this activity was delayed or not active.
- A community member commented on the difficulties in getting fish from the sea.
- Another community member recalled a researcher who made a survey in Niulakita and deduced that the structure of the island coastline was the reason that there was no variety of reef fish.
- The pastor asked when the Management Plan was made.
 - LK answered when Management Plan was made and how other stakeholders were involved during the establishment of their Management Plan
- The Pastor commented his observation of the island’s coastline structure. He mentioned that the coral reefs were supposed to be home of reef fish varieties. He was asking if there is a chance for planting coral reefs in the island.
- A pastor gave his thought on deploying the FADs.
- LK thanked the community on their thoughts about the issue.
- A community member asked if it is possible that the fish could live inside the reef flat.
 - LK reiterated the use of the buoy
- A community member commented his thoughts on the buoy and the sea conditions in Niulakita
- The pastor commented on the seaweed on the reef flat and asked if there is a way to repopulate the seaweed.
- Fatuvae commented on the wave actions and how it is very risky for small boats and the community travelling.
- A Pastor asked about the issue mentioned and which area is it referring to; either the coast or the lagoon/pond.
 - LK answered that the issue mentioned was referring to the coast
- LK mentioned on the sea level change and the effects on the coastal area. She talked about the winds affecting the sea waves that contribute to huge waves.
- Fatuvae commented on the wave actions and its impact on sand.

- LK commented on the waves' impact on fish.
- Pastor asked if the fish could grow in Niulakita and commented on the FADs.
 - LK reiterated on the FADs function in attracting fish. She mentioned that the survey could be made to survey the area.
 - NS commented on the FADs. He described the FADs type (Sub-surface FAD) and how it could be a solution to help the community's plea. He described the functions and condition of a Sub-surface FAD.
- The pastor asked if the FAD could attract big and small fish (reef fish) near to the shore.
- LK reminded the community on the donor's aid of \$10K. She mentioned that the fisheries were willing to assist their plans and activities.
- Fatuvae thanked the presenter and the team
- LK thanked the community for their feedbacks and passed the floor to MP.

1139

- MP thanked the community for being proactive in the discussion
- Passed the floor to UL to present.

1141

- UL presented on Fishing Vessel Sighting
- UL briefly explained the reason for Tuna Fishery Industry
- He gave a brief history on Tuvalu's ratification in the UNCLOS
 - He explained the meaning on "Right of Innocent Passage"
- He displayed the images of the common fishing vessels: Purse Seine, Longline and Fish Carrier. He explained the differences for each vessel.
- He explained the procedure of how to sight the vessel: i) Vessel Name, ii) Vessel Colour, and iii) Call Sign (IRCS). Then he showed the procedures on how to relay information to the TFD. Vessel Sighting -> MET/Police -> TFD.
- He explained further on the works of the Fisheries work in tracking down the vessels and storing information. RSP & VMS, FIMS, NTIS and RFSC
- He concluded his presentation and the floor was opened for discussion

1151

- Pastor thanked the presenter and commented that there was a lot of fishing vessel spotted. He thanked UL for the clear information in relaying information and ways to sight the vessel. He expressed his concern on fishing vessels in fishing most of the Tuna near Niulakita.
- Fatuvae commented on the fishing vessel being sometimes close to the island at night but in the day were spotted further away.

- **UL answered on his comment by showing the image of the “Maritime definitions in the U.N. Law of the Sea Convention”. He added that the TFD have a system that were able to track the fishing vessel and briefly explained the TFD system in tracking FV.**
- **Fatuvae thanked UL for the useful information.**

1159

- **Uni presented another topic on FADs Reporting**
- **He explained the differences of the FADs that is commonly known, and the FADs used for Tuna Fishery.**
- **He explained the Drifting FADs and the purpose of this FAD. He explained the design of this FAD and the materials use for creating this FAD.**
- **He showed the tracking records of FADs and mentioned that Tuvalu had the Highest FAF densities.**
- **He explained the**
- **He explained the procedures on how to record the details of the FADs.**
- **He concluded his presentation and floor was opened for discussion.**

1206

- **Fatuvae mentioned that there used to be a lot of abandoned FADs found in Niulakita. He mentioned that the beacon was still active.**
 - **UL answered that buoys have a tracking system**
- **Pastor commented that 4 buoys were found abandoned and was furious on the buoys being abandoned and found in Niulakita. He did not how to relay information at that time. He thanked UL for the presentation**
 - **UL commented on the abandoned buoys.**
- **Pastor mentioned on the relaying of information about vessel sightings. He was concerned about relaying the message to the MET which takes long for the info to reach TFD.**
 - **UL suggested that using the internet is quite faster in relaying the info straightaway.**

1219

- **MP thanked the UL for the presentation.**
- **He concludes the program and thanked the community for coming to the consultation and awareness program.**
- **He reminded the community in the upcoming activity that commenced around 1 or 2 PM today.**
- **MF reminded the community that the posters on Fishing Vessel was meant for them to keep.**

- **10 minutes break commenced for the food to arrive.**

1230

- **Closing prayer commenced**
- **Lunch commenced**
- **The Community Consultation Program concluded.**

School awareness

14/05/21

Salamanu II

5 children

Presentation a Pafini – Sea safety.

Questions:

1. **LYNN: Kafai nei la ne fakaoga loa ne tamaliki mote matua ate lima minute o fakamasaua kite avaga a mea faika aia, kafai e fano te tamana kae tupu se fakalave2 ona ko aso e masei, e mata e pefea te gasuega o koutou TFD o fakafesagai a fakalavelave konei?**
 - ➔ **A te fakalavelave e mafai attend kiei te malo o sala ki vaka io me vakalele mafai ko katoa te 24 itula. Comment – ko too leva, e pokotia kii, too leva e mafai o toto maluga te matua ite faitaliga ke fai se faiga ke maua tena avaga/ tamana. Kae fakamaua ake la ne omotou peeki puipui ola mo fai se fesoasoani ki feitu konei. Taku avaga ne galo foki, mote sua tino, au koi malosi tela e mafai o fakakii te matakua kae kote avaga ate sua tino ne ova loa tena toto.**
 - ➔ **Kae kafai e isi sau grab bag e mafai faeloa o detect mai ne te base ate koga e galo koe iei.**
 - ➔ **Kaati e gali mafai ke fai se FB page ma tagata faika mo koutou te TFD.**

Lavata presentation.

2. **E mata nei e aoga a LMMA mo MPA, nei a Niulakita nei tena LMMA seai ailoa se aoga. Se uke io me seai loa ne ika nei I tai.**
 - ➔ **E aoga e lavea ite MPA o Funafuti ko lasi kii te olaola lei o ika I loto mote uke pena foki mote LMMA I Nanumaga e uke kii foki a ika kola ne matemategina me seai I Nanumaga nei ko olo I fagota (ava/milkfish)**

Filipo presentation.

3. **LYNN: e mat ate TFD ko iloa ne koulua masina kola e fanau ei te ika.**

➔ Seki ai nei ne Savea ki taimi fanafanau o ika, kae ne matemategina ne tagata poto me ika e fanafanau I taimi ote new moon mote full moon.

4. Kaati e gali mafai kena iloa ne koulua fai savea kote mea kena fakamalosi ne koulua o fakatapu taimi fanafanau o ika.

Faiakoga: Fakafetai mo mealofa ne present ma te akoga kae e request me mafai o maua ne charts ma latou ite akoga, charts o ika

Date: 20/05/2021

Time: 1405

Venue: Salamanu 2

Event: Kaupule Consultation – Closing

Activities

1405

- **Consultation commenced**
- **Maani gave an update on the boat's arrival to Niulakita**
- **He passed the floor to LN**
- **Lavata presented his findings on Ifilele and gave his results based on his observation.**
- **He mentioned that he would get the area digitized and mark it on the map**
- **Tefau explained that the area has already been marked and certain areas have been declared as MPA and the other was declared as LMMA.**
- **Lavata thanked Tefau for the explanation. He heard from the R2R Officer – Feagaiga Penivao that the whole area was marked as LMMA.**
 - **Tefau reiterated his point and mentioned that the R2R officer demarcated the area. He updated the info on Ifilele's case.**
- **Lavata mentioned that he would amend the map and cross check with the R2R Officer to justify his points on Ifilele.**
- **Maani asked on what????**
 - **Tefau answered that the community were aware of the area. Certain fishing techniques could be applied once they fish in that area.**
- **Maani added on the point of the establishing the MPA. He mentioned that the size of the MPA depends on the islands' lagoon circumferential distance.**
- **Lavata added that establishing the MPA or LMMA, the fisheries department provides assistance or advice the community. It was the community's decision to drive in establishing the LMMA/MPA.**
- **Maani commented on the activity done in the awareness program and passed the floor to Pafini.**

1421

- Pafini briefly talked on the presentation made previously during the awareness program. He mentioned that they will note the Grab Bags for Niulakita.
- Pafini passed the floor to Matapua
- Matapua talked on the School Awareness.
 - She reiterated the LMMA presentation during the awareness program. She mentioned that the Fisheries could only provide assistance or advice the community based on the Fisheries findings and scientific reporting.
- She passed the floor to Filipino
 - Filipino discussed on the Fish Size. He highlighted the common question raised during the awareness program which was the sex determination of the fish and the possibility of fish changing sex.
- Floor was opened for comments

1426

- Tefau asked if they could acquire the Fish Size Sticker Ruler for cross referencing.
 - Filipino answered that the stickers or equipment was expected from the next cargo vessel.

1428

- Maani discussed on the Community Consultation. He passed the floor to Matapua.
 - Matapua mentioned on the suggestions made for Monitoring activity - Survey. However, if urgent, then FADs should be made then deployed.
 - Matapua discussed on the issues raised made previously and noted down the comments made from the public.
- Floor was opened for discussion.
- Tefau asked if there was a way in solving the issue based on the sand rubble that covers the near shore.
 - Matapua answered that the team would look into it.

1433

- Maani discussed on the CFP Case Update and Boat and Canoe survey done in Niulakita.
- The floor was opened for discussion.
- Tefau mentioned that the Fisheries had a training on Canoe building. Asking if it was possible to have a training in Niulakita.
 - Maani mentioned that the team would look into it with the TFD Staff in Funafuti.
- Maani passed the floor to Pafini discuss on the Post-Harvest activity done in Niulakita.

1436

- Pafini describe how the program went and participants' building capacity in constructing the smokebox.
- He mentioned that that training was vital for the community to practice sustainably with their resources.
- He discussed on the issues found in Sea Safety and Post-Harvest training.
 - He noted that there was no Grab Bag in the island
 - No coolers in the island
 - No freezer to store the catch.
- Maani reiterated Pafini's presentation and floor was opened for discussion.

1442

- Tefau requested if the team could make a proposal to procure some coolers and deliver it to Niulakita.
- Maani passed the floor to Uni to briefly explain his presentation.

1444

- Uni discussed the reasons for his awareness.
- He mentioned that the community could set up a team to watch out for fishing vessel and send the info to the fisheries via social media.
- He mentioned on the Drifiting FADs and its reasoning.
- He mentioned ways to solve the issue when the community come across this.
- Floor was opened for discussion.

1447

- Maani concluded the the presentation from the Fisheries Department.
- He passed the floor to Falaoa.

1448

- Falaoa discussed on the product from Niulakita - Red Toddy.
- He metioned that the tests are still going as the samples were sent to USP and SPC to determine the quality.
- He laid out the important information noted based:
 - Tuvalu to export products to NZ and Aussie
 - Community's request to get equipment.
- He mentioned that the department is willing to assist the communities in the outer islands to help boost their livelihoods.
- He mentioned that the community and the Trade Department need to work together to achieve better livelihood.
- Floor was opened for discussion.

- **Fiatala asked about the cooker listed in the presentation.**
 - **FS answered that that the cooker is used for Red Toddy processing. That equipment could be procured if a person has started processing toddy.**
- **Tefau asked Falaoa if the Trade department could get a good knife found in NZ used for outdoor gardening.**
 - **FS answered that he had noted it down**
- **Tefau asked about the point made by Fiatala.**
 - **FS explained**
- **Tefau asked on the Premise????**
 - **FS answered that its already been noted it down.**
- **Tefau asked about the buckets.**
 - **FS answered that there was a certain bucket and would try to track it down.**

1504

- **Maani asked the community if there was any comment based on the whole presentation.**
- **He thanked the whole community for attending the consultation.**
- **He mentioned that the report will be soon sent to the Niulakita community to read through the specifics of the findings.**
- **Fatuvae thanked Maani and the team for the presentation. He mentioned that the report could be submitted in the next day as today was a long day and everyone needs to rest.**
- **Tefau thanked the team for the presentation and commented on the boat's arrival.**

1512

Consultation ended

Date: 24/05/2021

Time: 1325

Venue: *Akau fakalava* Community Hall (Dining Area)

Event: Kaupule Consultation – Opening

Activity:

1325

- **Maani opened the consultation**
- **Gave a brief description of the metronome's team purpose for coming to the island**
- **Maani passed the floor to Auega to commenced with an opening prayer**

1328

- **Opening prayer ended**
- **The team members introduced themselves to the kaupule**
- **Maani opened the tentative program for a week in Nukulaelae**
- **He explained the programs for each day and the expectations from each day.**
- **The floor was opened for discussion for the community to amend the program we have**

1345

- **Leata thanked the team for the presentation.**
- **She mentioned that there was a program already been made for this week**
- **She mentioned that the Ministry of Health team will soon be arriving in Nukulaelae for an awareness program and roll out of vaccine.**
- **She mentioned if there is a possibility for the program to be amended. She mentioned if the awareness program only could be shifted to another day or slot into other days in the same week. She was concerned about the community's commitment in attending the program as only some will attend the program.**

1350

- **Saosaoa thanked the presentation**
- **He agreed with Leata's point about the community's time in attending the TFD program.**
- **He mentioned that the community will be busy with the Ministry of Health team coming to the island.**
- **Leata asked if there is a possibility for the team to change the schedule. By slotting the awareness program.**
 - **LK mentioned that TFD was the first one to contact the island a month's prior.**
 - **Leata mentioned that the TFD did contact first with the island. However, the island community received the Letter from the Ministry of Health on the program made for them. MOH needed the island community to get vaccinated**
- **Auega requested the metro team to agree with the community's decision on the time change.**
- **Leata seconded Auega's point**
- **He mentioned about the some of the community members will be busy doing their activities. Also, he mentioned that if the community members do get vaccinated, and the metro team's awareness program was held on the same day. Most of the people will feel weak and will not pay attention to the awareness.**
- **Leata asked if the tea can switch the awareness program to today.**

- LK reiterated that this program could be changed according to the request made from the island community that was suitable for their time.
- Leata asked if it was possible for the awareness program to be done at night.
- Auega commented that they have to look into it first before officiating the time for awareness program.
 - LK mentioned that she understood the island's commitment and respect their choices. She mentioned if the island is busy, the team could adapt to their time schedule.
- Leata suggested that it was best to have it on Wednesday (26/05/2021).
 - Matapua mentioned the side effects of being vaccinated.
- Leata changed her mind to have it on the next day (25/05/2021).
 - MF mentioned that under the awareness program there are 2 programs included. One was awareness program and the other was consultation in discussing their management plan.
 - Leata mentioned that only the awareness program was their only concern.
 - LK mentioned that we have limited budget to pay for the catering.
- LK suggested that the TFD team to start off in the morning tomorrow at 9 AM. Whilst the MOH can wait until the TFD program was done for the awareness program. The MOH can start their awareness program tomorrow evening and start vaccination on the following day.
- Leata announced to the Kaupule that the time for the metro team have been confirmed to commenced on the next day at 9 AM.
 - She mentioned that the committee will discuss with the kaupule on the programs.
 - She passed the floor to Maani.

1418

- Maani thanked the kaupule for the constructive discussion.
- He passed the floor to Matelina.
- Matelina laid out her purpose for the trip in documenting fishermen of each island based on their traditional fishing technique and fish they catch.
 - Leata thanked Matelina and she mentioned the different traditional fishing technique. She will look for the fishermen or fisherwomen to be part of the documentary and arrange the time.
- Maani requested a boat if it was available for the team's use for manta tow survey.
 - Leata mentioned that there are 2 boats available: 1 for the R2R and the other for the Kaupule. She mentioned that the boats are for hire.
 - Leata mentioned that there is a boat driver that goes by a specific rate if hired.
- Maani inform the kaupule that the team will survey the lagoon including the LMMA.

- **Maani mentioned Lavata's work on visiting the LMMA site by plotting the points in the LMMA area.**
- **Maani thanked everyone for the discussion. Floor still opened for discussion**
- **Leata introduced the kaupule members to the team**
- **She laid out the island policies while staying in the island. She asked if Falaoa could arrange a show for the community.**
- **NS thanked the kaupule for the discussion. He mentioned on the FAD's maintenance and Post-Harvest Training.**

1433

- **Saosaoa thanked the team for discussion**
- **Passed the floor to Maani**
- **Maani thanked Saosaoa and passed the floor to Silitone for the prayer.**
- **Afternoon tea commenced**

1435

- **Kaupule Consultation concluded.**

Date: 25/05/2021

Time: 0934

Venue: *Akau Fakalava* – Dining Area

Event: Community Consultation & Awareness Program

Activities

0934

- **The program commenced**
- **Maani thanked the community for attending the program for the day**
- **He passed the floor to the Rev. Tofi to give an opening prayer**

0936

- **Maani laid out the program for the day**
- **He mentioned that the Awareness program will begin first then end with the Consultation in discussing their Management Plan.**
- **Maani passed the floor to Lavata to present first.**

0939

- **Lavata presented on the Importance of LMMA/MPA.**
 - **He gave a brief outline of his presentation**

- He discussed the differences between LMMA and MPA by giving a visual aid to the community
- He displayed the Map of Nukulaelae and discussed the highlighted areas in the map.
- He discussed the benefits of establishing the MPA could be used for eco-tourism
- He then discussed the disadvantages of not implementing the MPA. Then showed a solution by creating a By-Law and/or enforce the by-laws been established.
- He concluded his presentation.
- Maani thanked the presenter and passed the floor to the community for discussion.

0947

- Saosaoa thanked the presenter. He commented on the certain areas in Nukulaelae and areas that could be open for fishing. He commended Lavata's point on the benefits of having an MPA.
- Rev. Tofi asked who implements the establishing of the MPA whether it's the government or the Nukulaelae community.
 - Lavata answered that the people of Nukulaelae are the ones who can establish their MPA. The government cannot implement it for them. He mentioned that the LMMA Officer can assist in their establishing their MPA.
- A community member commented that they island have practiced well in sustaining their resources. He mentioned about the R2R works done in Nukulaelae but haven't seen any progress.
 - Lavata answered that the point he made was LMMA as they were able to open and close their areas. He mentioned that he would cooperate with R2R
- Saosaoa mentioned that the MPA have not been made. He asked on the ways in establishing the MPA.
 - Lavata reiterated that the MPA could be done by the island. It is solely their decision in creating an MPA. He mentioned that if the island wishes to create an MPA, the fisheries officer could assist by doing a survey and present their findings to the community.
 - Maani seconded Lavata's answer. He mentioned the procedures of making an MPA.
- A community member expressed his views that he does not want to establish an MPA and wants to stick with having LMMA.
- Another community member commented that the Falekaupule would have to discuss on this matter before giving the final say.
- Maani wrapped up Lavata's presentation and passed the floor to Pafini

1001

- **Pafini presented on the Sea Safety of Fishermen**
 - He outlined his presentation briefly
 - He discussed on the 5-minute strategy on Sea Safety. He mentioned the disadvantages of that strategy.
 - He mentioned the procedures in securing their safety.
 - He concluded his presentation in summarizing his topic.
- **Maani thanked Pafini and the floor was opened for discussion.**

1007

- **A community member commented on the point in letting their relatives know on their whereabouts. He mentioned about the fishing techniques.**
 - PF answered that the relatives should their whereabouts ensuring of their safety and timing their arrival.
- **A community member commented on the Grab Bags (particularly the Walkie-Talkie) in becoming faulty.**
 - PF answered that each Grab Bag should have a walkie-talkie and there was a discussion with their TA in ordering the Grab Bag.
 - The same member commented on the Grab Bag being wet.
 - Pafini added that the Grab bag should not be wet as Grab bags were supposed to be waterproof. However, if the Grab bags were not waterproof then the O&D team would look into that issue.
- **Filipo Alama commented the procedures of securing safety of fishermen.**
- **Maanie wrapped up Pafini's presentation and passed the next presenter – Uni Liufau.**

1016

- **Uni Liufau presented on Vessel Sightings**
 - He briefly outlines the presentation
 - He mentioned the revenues that Tuvalu receives
 - He mentioned the UNCLOS and when Tuvalu ratified and implemented the convention. He discussed the Maritime Definition and laid out the distances from Land to High Seas.
 - He discussed the differences of the fishing vessels commonly fished in Tuvalu.
 - He gave the procedures on how to sight a vessel.
 - He mentioned the procedures on relaying the information
 - He discussed on the Information System in tracking the fishing vessel.
 - He concluded the presentation and opened the floor for discussion.

1022

- **Maani summarized the point on “Right of Innocent Passage”**
- **A community member mentioned that they have seen a Fishing Vessel came close to the island. He wondered about their transshipment site.**
 - **Uni answered that there was an area where the Fishing Vessel could do their transshipment. He gave a specific distance that the Fishing Vessel should know in not getting close to the island. He mentioned about Observers being on-board but due to COVID, things went array.**
- **A community member commented on the fishing vessel’s transshipment.**
- **Another community asked if there was a system in tracking the vessel**
 - **Uni answered that there was a system in tracking the vessels**
- **Another community asked if there are fishing vessel that get their license to fish their waters and use it to track the vessel.**
 - **Uni answered yes saying that there was a sub-section that handles in licensing.**
- **Uni concluded his topic and presented his next topic**

1030

- **Uni presented on the Reporting of FADs.**
 - **He briefly outlined his presentation**
 - **He mentioned the differences of FADs design.**
 - **He discussed the FADs used by Purse Seiners.**
 - **He discussed the concentration of FADs deployed in the Pacific and mentioned that it was heavily concentrated in Tuvalu waters.**
 - **He mentioned the procedures on relaying information.**
 - **He displayed the images of FADs and noted the things on where to get the info.**
 - **He concluded his presentation**
- **Floor was opened for discussion**

1035

- **A community member asked about the FADs**
 - **Uni answered that there is a certain period (3 months in a year) that looked into the FADs.**
- **A community member mentioned that at times the FADs damaged the coral reefs which left rubbles on the floor.**

1038

- **Maani thanked the presenters**

- He mentioned on the next program in which the consultation commenced. Topics in discussing their Management Plan made.
- He passed the floor to LK.

1039

- LK presented the extracted Management Plans (Fisheries related issues)
- She mentioned on the donor willing to give \$10K in aid for each island
 - She explained the first issue *“Fanaifo ote Maumea ote Tai”*.
 - She explained the second issue *“Se uke/’kalo a manu lele”*
 - She explained the third issue *“Se uke a fonu”*
 - She explained the fourth issue *“Seai se VHF Base”*
 - She explained the fifth issue *“Se lava te iloa I taimi fanafanau o Ika kesekeese”*
 - She explained the 6th issue *“Masei o mooto faika kae se lava te atamai”*.
- She passed the floor to the community for discussion.

1045

- A community member voted the 4th issue to be their first priority
- Another community member voted the 6th issue
 - NS commented their 4th issue. He mentioned that the VHF Base was already been established.
- Another community member asked if there
- PL mentioned there was a training done in Funafuti based on Motor Training.
- Saosaoa commented on the 6th issue. He mentioned that it was spare parts that needed the most. He voted the 1st issue as the main priority due to the coral reef ecosystem been deteriorating in a rapid pace.
- Another community member commented on the 4th issue.
 - NS reiterated the point on the 4th issue and the 6th issue.
- A community member voted the 6th issue to be their main priority.
- Filipino Alama voted the 6th issue to be the main priority.
- LK announced the audience that the voting of issue to be their main priority commenced
 - 4th Issue
 - 9 Votes
 - 6th Issue
 - 12 Votes
 - Therefore the 6th Issue have become their main priority.

1103

- Maani thanked the audience for the constructive discussion

- He mentioned that the team will report back to TFD and liaise with the Donor on Nukulaelae's priority.

1105

- **Community Awareness and Consultation program concluded.**

Date: 28/05/2021

Time: 1048

Venue: Faikimua Primary School

Event: School Awareness Program

Activities

1049

- **Awareness program commenced with an infomercial of Sea Cucumbers from SPC.**

1051

- **Hetoa gave a brief summary of the importance of Sea Cucumbers**
- **He presented on the Importance of LMMA and MPA.**
 - He outlined his presentation of his topic
 - He explained the differences between LMMA and MPA
 - He displayed the map of Nukulaelae and pointed the highlighted areas where LMMA is and the Special Protected Area.
 - He discussed the benefits of having LMMA and MPA
 - He explained the issues faced when the LMMA and MPA was not strengthen in implementation.
 - He discussed the possible solutions in implementing the LMMA and MPA
 - He concluded his presentation by summarizing the points from the previous slides

1103

- **Hetoa gave a pop quiz to the students.**
 - "What is the difference between LMMA and MPA?"
- **Hetoa passed the floor to the next presenter to present.**

1105

- **Lotokufaki presented on Fish Size**
 - She discussed the differences of fish size in given years: 1965, 1985 and 2020
 - She explained the time took for fishers to go fishing
 - She explained the use of fuel over the mentioned years

- She explained the human population in Tuvalu and the impact towards the fish population
- She briefly explained the spawning of fish by comparing the >20%, at 20% and <20% of fish spawning
- She compared the fish spawning to human population to the number of children each family get.
- She explained the image showing LMMA/MPA, Creel Activity, Spawning Season & Site, and licensing.
- She explained the differences of fish size and the number of fries spawned
- She briefly explained the Fish Size sticker and the use of that sticker.
- She concluded her presentation.

1115

- Lotokufaki gave a pop quiz to the students
 - “What is your understanding when we compare the undersized fish and right sized fish? (In regard to their spawning differences)”
- She concluded the pop quiz and passed the floor to the next presenter

1118

- Pafini introduced himself and presented on the Sea Safety of Fishermen
- Neli distributed Sea Safety handouts to the students
 - Pafini outlined his presentation
 - He discussed the 5-minute strategy in rescuing Fishermen if lost at sea
 - He explained the disadvantage of the 5-minute strategy
 - He explained the pathway of being prepared before fishing.
 - Weather Updates from the Radio
 - Checklist of fishing gears and Grab Bag
 - Informing relatives of their designated location of fishing
 - Motor Check
 - He concluded his presentation by summarizing the points made previously

1126

- Pafini gave a pop quiz
 - “Give one point of ensuring the safety of fishermen before fishing?”
 - “What is the reason of having Sea Safety?”

1127

- Lotokufaki concluded the program by thanking the staff and students in participating the school awareness program.
- Neli presented the school incentives to the staff as a gift from the Fisheries Department.

- A staff member thanked the fisheries team for presenting useful information about the marine resources and sea safety.
- She also mentioned that the topics from the presentation was similar to what the students were studying and would love to get the copy of the presentation as a reference.
- She thanked the fisheries team for gifting the school incentives.
- Lotokufaki asked the students and staff that there was another video from SPC regarding on Parrotfish.
- The video was played

1134

- The infomercial ended
- A staff member thanked the team for playing the video on Parrotfish
- The staff member reminded the students the importance of parrotfish.

1139

- **School Awareness Program ended**

Date: 31/05/2021

Time: 0941

Venue: *Akau Fakalava* – Dining Area

Event: Kaupule Consultation – Closing

Activities

0941

- **Maani opened the consultation**
- **Auega made an opening prayer**

0943

- **Prayer ended**
- **Summary report commenced**
- **Maani briefly explained the activities done in the week and some of the work that were still pending**
 - **Maani summarized the on the consultation done and the priorities that the community.**
 - **He mentioned that there was an issue that the team had noted and been advised not to discard the other issue.**
 - **He briefly discussed the Boat & Canoe survey done and summarized the findings based on the conditions.**

- He mentioned on the case update based on Ciguatera Fish Poisoning case where the officer consult with a medical officer in the island
- He discussed the awareness program and the common questions raised from the community.
 - He mentioned the school awareness program made
- Maani passed the floor to Lavata to briefly discussed the LMMA visitation
 - Lavata mentioned that he digitized the sites.
 - He mentioned the islets that have been recorded
- Maani discussed the manta tow results from the number of sea cucumber species found in the Nukulaelae lagoon.
- Maani passed the floor to Pafini to present the findings from the Post-Harvest activities
 - Pafini summarized the activities done in Nukulaelae
 - He mentioned the achievements made in Smoke Box Construction and Smoked Fish Activities
 - He mentioned that the number of participants was high
 - He summarized the Grab Bags been assessed
 - Pafini discussed the remaining activities that was yet to be completed
 - Pafini discussed the issues found during the Grab Bag assessment
 - He passed the floor to Falaoa in discussing the EIF Project.
- Falaoa discussed the EIF purpose in aiding the island communities
 - He mentioned that the EIF worked with the interested sectors
 - Labour
 - Fisheries
 - Agriculture
 - Tourism
- Leata asked about the Grab Bags
 - Pafini answered that the assessment was made to ensure that the equipment was functional.
- Leata commented about the Grab Bags and the fishers being busy with other activities. S
 - Pafini answered that if some fishers do not attend the Assessment, consequences could occur in the future.
- KOliano commented that there were some fishermen staying in Funafuti
- Koliano added that another FAD should be deployed in Nukulaelae
 - Pafini answered that at that time, the deployment of FAD was not mentioned in the tentative program but will take note.
- Floor was opened for discussion

1011

- Saosaoa asked about the seaweed and the impact towards the Ciguatera Fish Poisoning.
 - LK answered that the survey for seaweed was not in the current program but can be done if the kaupule made a proposal.
- Auega commented on the CFC. The building needs to be renovated as materials have been corroded. He asked if the Fisheries could assist in renovating the CFC roof.
 - Maani answered that he recalled an officer from PWD made a list of materials in constructing the CFC. He mentioned that the certain material for roofing was not mentioned in the material list.
- Leata asked on the smoked fish. She mentioned if the materials should be procured by the kaupule or some other stakeholder.
 - Pafini answered that the Fisheries procure the materials for smoked fish.
 - Pafini added that the assistance from the EIF Project could assist the island communities.
- Lotokufaki asked Saosaoa if the island community want the fisheries team to conduct the GTOX survey in the lagoon
 - Saosaoa answered that there was training done previously. He suggested that if the training could be done to the outer islands like how to use the GPS.
- Pafini thanked Saosaoa for the point made and he mentioned that in the future there will be a capacity training for the outer islands.
- Auega mentioned that the ice making machine was not functioning. He mentioned if the parts could be procured in repairing the ice making machine.
 - Pafini answered that the EIF could look into that issue.

1028

- Maani thanked the kaupule members in attending the program
- Maani mentioned that the issues listed would be submitted to the TFD Office and would look on to that matter.
- Saosaoa thanked the team for the summary report made. He mentioned that that the Fisheries sector was vital for the community and need to be monitored well (like managing the marine resources).
- Maani thanked Saosaoa and asked Silitone for a closing prayer.

1033

- Kaupule Consultation program concluded.

6.5 Grab Bag Inspection Results

Nukulaelae Grab Bag Inspection Analysis																	
Name of owner	Grab Bag #	Laser flare	PLB #	Strobe light	Sea Rescue Streamer	GPS (72HR)	Map Compass	Sea Anchor	Medical Kit	Signal Mirror	Whistle	VHF	Life Jacket	Thermal Blanket	Thermal Bag	Batteries	Comment
Tui Tiniau		Yes	5877	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Fiavai	8	Lost	8516	Yes	Lost	Yes	Lost	Lost	Yes	Lost	Lost	Lost	Lost	Lost	Lost	No	
Koliano Alama	10	Yes	8511	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Lomi P		Yes	5875	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	
Falani Valoa		Yes	5876	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	
Akelei Limalofa		Lost	5855	Yes	Yes	Yes	Lost	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Eli Vaega		Yes	5845	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Tavita Melita	17	Yes	8555	Lost	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Broken	Yes	Yes	Yes	No	
Taukiei Ulukoloa	15	Yes	8358	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Falagai Ulukoa	20	Yes	8525	Yes	Yes	Broken	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Viose Leiki	6	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Saosao Tinilau	21	Yes	5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

*Please note that "YES" meaning the items is available in the Grab Bag and "No" meaning no items in the beginning or before handing over to the owner and "N/A" meaning not available or missing during the inspections

6.6 Attendance

2021
Notes: 12/05/21 (Wednesday)
Attendance Niulakita Community Consultation Friday

New Year's Day	1	2	3	4	5	6	7	8
8	IGOA	TAUHAGA	F/M	Occupation	SAINAGA			
9	Tefau Peia	32	M	Artist				
10	Taanibeia Mounesi	60	F	Nurse				
11	Ahauka Mepio	23	F	PIP officer				
	FAKURAS.V	56	M	Sui Police				
	Touea Kaulasi	62	M					
	Fiatala Limoni	57	M					
	Tuapa Fealiki	42	M					

2021
Notes: Nukunua
Attendance - Kaupule Consultation 24/05/21 (Monday)
JANUARY 3
3-362

Name	Age	F/M	Occupation
8 Auega	56	M	Kaupule akaga
9 Peleli	47	F	KPL Member
10 KILIA.T	35	F	KPL Member
11 SILIDONE	55	M	KPL member
12 KOLIANOA	51	M	
13 Sioana	67	M	PK kaupule
14 Leate	36	F	AG Secretary

Venue: Akaupalsalava
Tuvalu Fisheries Department
Date: 27/05/2021

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
1 Savatiani Ione	15	M		
2 Teli	37	M		
3 Vaitoa - Iona	26	M		
4 FALAGAI - ULUKOLA	52	M		
5 SILIDONE	55	M		
6 Sio	29	M		
7 Teuani	34	M		
8 Vioa	34	M		
9 Sime	51	M		
10 ABAKIKI, NIVI	78	M		
11 Touciei - U	47	M		
12 Tamaita - Mawabi	34	F	TAMANO	
13 FRACUS	49	M		
14 Sione	39	M	MALOSIA	
15 PAUETA - UROE	54	M	Proharman	
16 PILE - TAATA	65	M	FOHOMANATA	
17 KAITU - TAULAGA		M		
18 LEKAS - TAULAGA	28	M		
19 Samolua - Teuani	48	F	Fafine	
20 Palaketa - Fofu	59	F		
21 Palaketa - Noateta	70	F		
22 Satafa - Mawabi	73	F		
23 Matu - Fulu	67	F		
24 Sioana - Honolulu	46	M	ulu Kaupule	
25 Saosaoa - Tindau	69	M		
26 Sime - TAUMUKA	35	F	KB Member	
27 Palaketa - M	39	F	Talavou	
28 Sime - Kulu	49	F	LUM	
29 Sime - Tino	62	M		
30 Steve - Sio	43	M	Malosiga	
31 Lolani - Alua	53	M		
32 Kiotou - Lusia	32	M	malosiga	

ATTENDANCE LIST
Post Harvest Training
(Per MC & R do.)

Venue: Salamaru 2 (Nukaketa)

Tuvalu Fisheries Department

Date

	NAME	AGE	GENDER	OCCUPATION	SIGNATURE
1	Tupa. Fakiki	42	M		
2	Fatuvae. Vaiti	57	M	KPL FOREMAN	
3	Fatala. Limoni	67	MA		
4	Melina. Senu	25	MA	MET OFFICER	
5	Salina. Malone	22	F		
6	Upan. Fua	23	M		
7	John. Fua	29	F		
8	Teana. Kaitasi	62	M		
9	Kejuna. Fapuali	33	MA		
10	Takopi. F				
11	Tuesaga. F				
12	Jy. Ria. Tefau				
13	Salamaru. Tefau				
14	Vaitilo. Malone				
15	Motoese. Tupa				
16	Arella. Tupa				
17	Apele. Tupa				
18	Maketa				
19	Tuafakatau. Kautaitu	28	F	FRI Teacher	

ATTENDANCE LIST

Post harvest training & Sea Safety

Community Awareness & Consultation.

Venue: Te Atan Fakalava.

Tuvalu Fisheries Department

Date: 25th May, 2011
Tuesday

	NAME	AGE	GENDER	OCCUPATION	SIGNATURE
	Palanitina Saosaa	34	F	NKI Women's association	
	Aueria	56	F		
	Letiaq	36	F	Kaupule staff	
	Lanundana. Lotom	28	F	LD Rep NKI	
	Taukies. Uluiceloa	47	M		
	Viosa. Leki	37	M	Kaupule staff.	
	Kaup. Tufasi		M	Police officer	

ATTENDANCE LIST

Community Consultation & Awareness

Venue: Te Akau Fakalava

Tuvalu Fisheries Department

Date: 25th May, 2021
Tuesday

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
FIYAAI. T	61	M	Fale Kampule	[Signature]
SELAHU. TOEMAI	60	M		[Signature]
Ailiis. Tina	62	M		[Signature]
PAULATA. Utepa	54	M		[Signature]
FALAGAI. UUKOLOA	52	M		[Signature]
PULE. TAATA	65	M		[Signature]
SIALA. LIVA	85	M		[Signature]
Sakanaia. Iona	65	M		[Signature]
UUKAFA. VAKILISA	49	M	Fale Kampule	[Signature]
SIOSTOK. TINIKAU	67	M		[Signature]
Taolu. Aliona	68	M		[Signature]
Tapuanga. Iosefa	87	M	Fale Kampule	[Signature]
Silvoni. Ito	55	M	KPL member	[Signature]
K. M. F. Vaungu	48	M	Assistant Supervisor	[Signature]
KOLIANO. KILANAI	51	M	K.P.L. Kampule	[Signature]
Pali. Apelo	48	M	F - Kampule	[Signature]
Sakanaia. Iona	43	M	Malaysia	[Signature]
Kilelo. H	64	F	Fafine	[Signature]
Loleni. A.	52	M	Fale Kampule	[Signature]
Mase. Malaki	52	M	KPL Accredited Extension	[Signature]
Moro. Silo	28	M	Class	[Signature]
Kurovau. Lusaut	62	M	awoo	[Signature]
Tamale. Mawalii	34	F	Malaysia	[Signature]
Tala. M	44	F	Fafine	[Signature]
Talau. M	44	M	Fale Kampule	[Signature]
Tandi. M	35	F	Fafine	[Signature]
Lita. Tavenus	48	F	Fafine (Live & Learn)	[Signature]
Sampina. Tava	41	F	KPL member	[Signature]
Pakeli. John	41	M	Fafine	[Signature]
Mary. Tulimaru	39	F	Fafine	[Signature]

ATTENDANCE LIST

0930 hrs.

Venue: SALAMAND II (Niumata)

Tuvalu Fisheries Department

Date:

NAME	AGE	GENDER	OCCUPATION	SIGNATURE
1 Faturae. V	57	M	KPL Foreman	[Signature]
2 Tanga. F	46	F		[Signature]
3 Teonibeia. Mamulisi	60	F	Senior Staff Nurse (SSN)	[Signature]
4 Salina. Numa	20	F		[Signature]
5 Malona. Semu	20	M	Met officer	[Signature]
6 Tevao. Kailasi	62	M		[Signature]
7 Tapa. Paia	33	M	Pastor	[Signature]
8 Tapa. Paia	29	F		[Signature]
9 Muriel. D				[Signature]
10 Kuan. Popmali	39	F		[Signature]
11 Salangini. Tefau		M		
12 Jura. King. Tefau				
13 Lotose. Tapa				
14 Apate. Tupa				[Signature]
15 Valilila. Malona				[Signature]
16 Avela. Tupa				[Signature]
17 Pratala. Tomoni	64	M		[Signature]
18 Tupa. Aialiki	42	M		[Signature]
19 Tusage. Pabuae				

ATTENDANCE LIST

Post harvest training to Sea Safety

Niulakita - Community Awareness Program
S - T 13/05/21 (Thursday)

Name	Last Name	Age	Gender
Melana	Semu	25	M
Japa	F	47	M
MARUS	F	24	M
Teuer	Kilisi	67	M
Fiatab	Lupai	62	M
Faturese V.	Vavili	56	M
Futata L.	Limotia		M
ALIMANE	ALIFALO	23	F
Pfau P	Bea	33	M

Venue: Akau Fakalaua

Tuvalu Fisheries Department

Date: 17/05/2021

	NAME	AGE	GENDER	OCCUPATION	SIGNATURE
32	KOLIANO ALAMA	50	M	K.P.R	<i>[Signature]</i> ✓
33	Kosa	31	F	Tranjan	<i>[Signature]</i> ✓
34	Falanina Sogooa	34	F	Police	<i>[Signature]</i> ✓
35	Kaum Tuma	24	M	POLICE OFFICER	<i>[Signature]</i> ✓
36	Fadi Mulieli	20	M	Tractor	<i>[Signature]</i> ✓
37	Fasani S.	25	M	Tractor	<i>[Signature]</i> ✓
38	Slate Alama	59	F	Tractor	<i>[Signature]</i> ✓
39	SOFA OF TUMU	59	M	Tractor	<i>[Signature]</i> ✓
40	Heleli Lualua	31	M	COMPANYS (KPL)	<i>[Signature]</i> ✓
41	Rotan Tui		M		<i>[Signature]</i> ✓

ATTENDANCE LIST Post Harvest Training
 (EIF, Traders, TFD)