

'EUA DISTRICT EMERGENCY MANAGEMENT PLAN



Kingdom of Tonga

Prepared under the provisions of the ***EMERGENCY
MANAGEMENT ACT 2007***

Foreword

'Eua Island is vulnerable to a range of hazards, both natural and human caused which have the capacity to impact significantly on the district.

The plan is being prepared under the provisions of the section 29 of the Emergency Management Act 2007 while the District Emergency Management Committee is being established under sections 18 and 19 of the Emergency Management Act 2007.

This District Emergency Management Plan was developed by the Office of the Government Representative together with the District and Town Officers and Line Ministries, in close liaison with the National Emergency Management Office in March 2016. It identifies the risk environment for the district and outlines the key institutional arrangements to effectively manage, prepare, respond and coordinate the rehabilitation and recovery measures after the impact of an adverse event.

The plan is not conclusive and is flexible subject to changes for strengthening whenever it deem necessary but especially after an impact.

I encourage all stakeholders to support the effort of the Office of the Government Representative of 'Eua in reducing the vulnerability and nurturing of capacities to enhance the resilience of the people of the district.

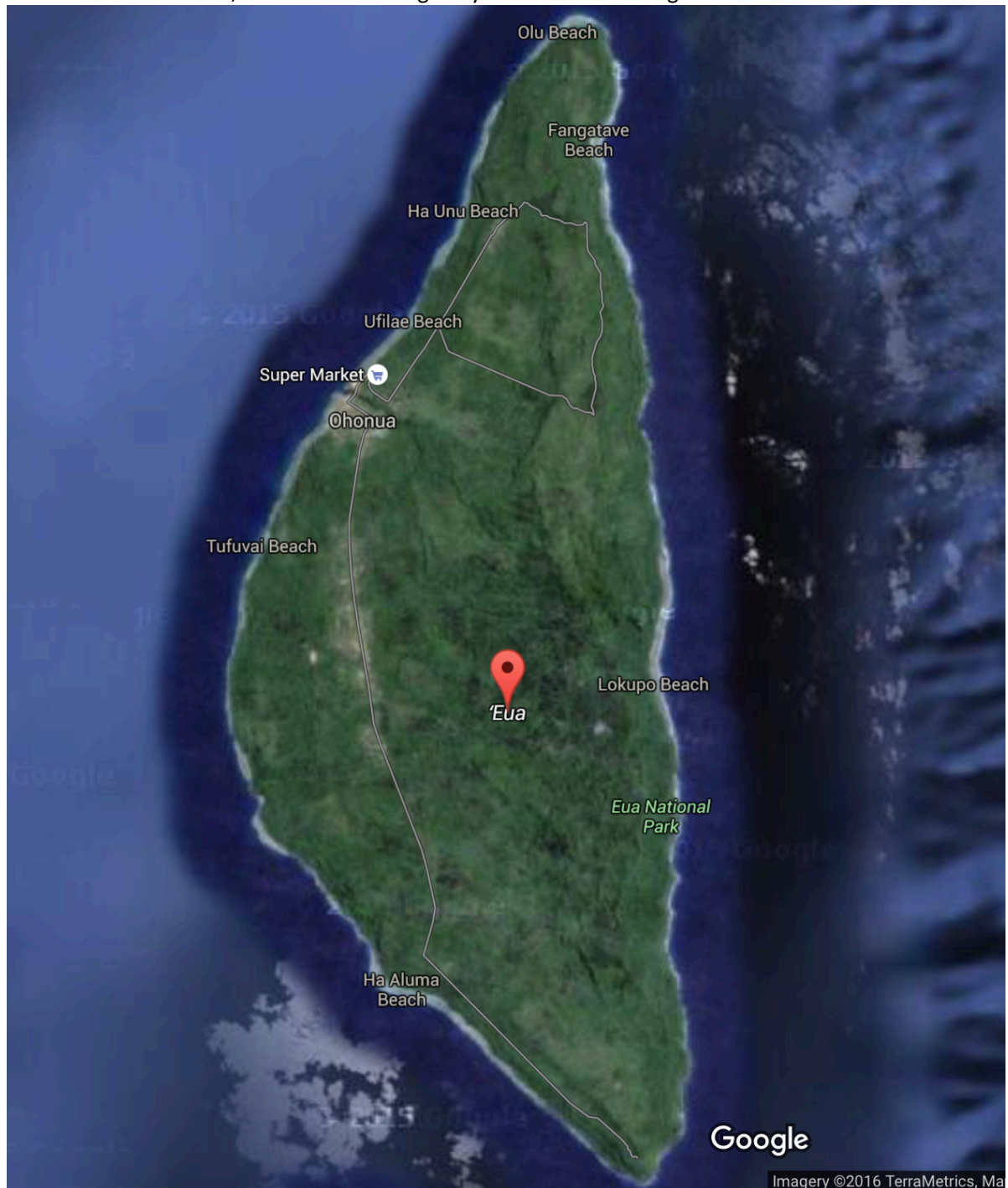
Malo 'Aupito,

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Tonga Faeamani
Government Representative of 'Eua

Background

'Eua is a volcanic and limestone island. It is located 17.5 km southeast of the main island of Tongatapu with a population of 5 016 (2011 census). It covers an area of 33.7 square miles (87.4 square km), and rises to an elevation of 312m at Mt *Te'emoa*, and 305m where the *Vaiangina springs form (9 springs)*. It is the highest island in Tonga and is not related geologically to the other islands, as it is much older. It has beaches on the western side but dramatic cliffs on the east coast, with Tonga's largest tropical rain forest; suitable for trekking. Sighted in 1643 by the Dutch navigator Abel Janszoon Tasman, the island was originally named Middleburg.



Eua has many caves, not all of which have yet been explored. It is the only island in Tonga that has a river. It also had the only bridge in the kingdom until Vava'u also built one. The river drains into the harbour near the capital of the island, 'Ohonua. A unique feature is the shore between 'Ohonua and Tufuvai. Many small tidal pools are found, named the 'Otumatafena.

'Eua is divided into two districts

- 'Eua Motu'a (Old 'Eua), in the north, with six villages with a population of 2 855 (2011 census)

- 'Eua Fo'ou (New 'Eua), in the south, with nine villages with a population of 2 156 (2011 census)

The nine villages of the southern district 'Eua Niuafu'ou (or shortly 'Eua Fo'ou) are all named after the villages of the island Niuafu'ou. It was founded by former residents Niuafu'ou who had to leave the island in 1946 due to a volcanic eruption. The northern district is Old 'Eua. The southern village of Kolomaile's inhabitants however are the former inhabitants of the island of Ata, Tonga's southernmost island.

'EUA ISLAND 2011 POPULATION & HOUSING CENSUS

National Census 2011					
	Names	Households	2011 Population & Housing Census		
			Males	Females	Total
	Tonga	18,156	51,979	51,273	103,252
	'Eua	870	2,514	2,502	5,016
T	'Eua Motu'a	511	1,446	1,406	2,852
145	'Ohonua	266	768	760	1,528
146	Tufuvai	37	114	117	231
147	Pangai	59	177	156	333
148	Houma	58	141	129	270
149	Ha'atu'a	91	246	244	490
150	Ta'anga				
U	'Eua Fo'ou	359	1,068	1,096	2,164
151	Angaha	72	199	202	401
152	Futu	43	126	136	262
153	'Esia	32	99	113	212
154	Sapa'ata	23	75	75	150
155	Fata'ulua	34	122	103	225
156	Mu'a	29	89	85	174
157	Tongamama'o	26	76	82	158
158	Petani	52	148	165	313
159	Mata'aho	48	134	135	269

Weather Pattern

The weather pattern of the district is similar to the weather experienced by whole of Tonga and is significantly affected by the South Pacific Convergence Zone (SPCZ) as other countries in the south pacific.

The tropical weather with a distinct warm period (December-April), during which the temperatures rise above 32 °C (89.6 °F), and a cooler period (May-November), with temperatures rarely rising above 27 °C (80.6 °F). The temperature increases from 23 to 27 °C (73.4 to 80.6 °F), and the annual rainfall is from 1,700 to 2,970 millimetres (66.9 to 116.9 inches). The average wettest period is around March with on average 263 mm (10.4 in).

Tonga experience extreme events including tropical cyclones, storm surges, heatwaves, drought and heavy rainfall. Tropical cyclones produce damaging winds, heavy rainfall and storm surges which can have devastating impacts are experienced between Octobers – April.

Governance

There is a Government representative posted in 'Eua as well as a noble's representative and people's representative for the 'Eua district in the Tongan Parliament. Some of the estates belong to a few nobles but most of the estates are under the King's care. The local administration is headed by the Government Representative. There are 2 District Officers whom the 15 Town Officers report to and then from them to the Government Representative to whom, all come under his supervision. The Representative's office is the main link to the community through the District Officers who lead the Town Officers. Representative of line ministries in the district reports vertically to their headquarters in Nuku'alofa but laterally to the Government Representative's Office. The traditional leadership is through nobles who are appointed by His Majesty the King.

Socio economic status of the district

Due to its proximity to Tongatapu, 'Eua continues to enjoy easier access to markets and services. Tourism has grown steadily in recent years – hiking and whale watching are popular with tourists. Current annual tourist arrivals are about 2000 – but arrivals are down by about 35% in the last 2-3 years due to the unreliability of domestic airline and boat ferry services. Agriculture production is diverse, with vanilla, kava, watermelon and root crops providing the greatest earnings. But significant and readily achievable growth potential remains in agriculture – especially in yield improvements and value adding opportunities, notably with vanilla curing. The 'Eua production forest is mature and currently being harvested – providing 36 jobs on 'Eua. Seasonal migrant labour schemes to NZ and Australia provide seasonal employment opportunities for around 4,000 Tongans of whom 150 - 200 are sourced from 'Eua and can typically save around T\$15-20,000 per year. The other major economic driver has traditionally been remittances from family members in NZ, Australia and USA. But as a result of economic weakness in those countries, remittance flows have slowed. Most of the local income is derived from agriculture (largely pine and timber wood), some fishing and eco-tourism. However, as in much of Tonga, the largest source of income is remittances from family members living abroad.

Hango Tertiary Institute is the only vocational educational establishment on the island along with Hofangahau College offering some technical courses. There are 3 high schools, which are 'Eua High, 'Eua Middle School and Hofangahau College. They are located in separate parts of the island, 'Ohonua, Pangai and Ha'atu'a respectively. There are also six Government Primary Schools located in Houma, Ta'anga, 'Ohonua, Angaha, Ha'atu'a and Tufuvai. There are six kindergartens belonging to various church institutes located around the island.

There are no sporting facilities in 'Eua although there is great potential to develop sporting talent among the youth. Office of the Youth comes under the care of the Government representative who is under the Ministry of Internal Affairs. There is also a Tonga Health Association located on the island to help men and women who are reluctant to go to the hospital for check ups.

Niu'eiki hospital is located in Angaha and caters to the entire population. There was a clinic established in 'Eua High School but has not been operational since it's establishment. There is a need for the clinic to reopen and staffed for the students and teachers. First aid training should also be conducted within the student population in times of disaster to aid the limited medical staff.

There have been recent upgrades to telecommunications (including internet and cell phone coverage) and the 'Eua airport (resurfacing). Electricity is reticulated to 90% of homes but diesel

generation is costly and runs at an approximately T\$1 million annual loss. Water is reticulated to most homes on a metered basis but there are significant water quality issues. New boreholes have been drilled to increase the capacity of water supplies to be able to cater to the water needs of the population. Sanitation has improved in the past 20 years – reliance on pit toilets has fallen from 80% of households to 20%.

Infrastructure

Government offices and the Tonga Development Bank take up most of the infrastructure in the main town of 'Ohonua where the wharf is also located. The wharf needs upgrading due to the current shallow position it is in. Electricity covers the entire island with newly installed solar street lights to help illuminate streets at night. Road infrastructure also needs improvement in order to facilitate ease of transport from one side to the other especially the rural roads.

Kaufana airport is the only airport located in Mu'a.

Emergency and Disaster Management

The District Emergency Management Committee is established under section 18 and 19 of the Emergency Management Act 2007. It is accountable to the National Emergency Management Committee to which the National Emergency Management Office is the secretariat.

Members of the 'Eua District Emergency Management Committee are as follows;

1. Government Representative of 'Eua – Chairperson
2. Officer in Charge Tonga Police Service, 'Eua
3. Officer in Charge Tonga Fire Service, 'Eua
4. Officer in Charge Ministry of Health, 'Eua
5. Officer in Charge Ministry of Agriculture, Forest, and Food Security, 'Eua
6. Officer in Charge of the Ministry of Fisheries, 'Eua
7. Officer in Charge Ministry of Infrastructure, 'Eua
8. Officer in Charge, Ministry of Education and Training, 'Eua
9. Tonga Development Bank – Finance Officer (Government Representative)
10. District Officer, 'Eua Fo'ou (Hahake)
11. District Officer, 'Eua Motu'a (Hihifo)
12. Officer in Charge Tonga Communication Corporation, 'Eua
13. Officer in Charge Digicel, 'Eua
14. Officer in Charge Tonga Water Board, 'Eua
15. Officer in Charge Tonga Power Limited, 'Eua
16. Officer in Charge Tonga Red Cross, 'Eua branch
17. Secretary Government Representative Office – Secretary

The Committee may co-opt representative from any other agency that it consider appropriate that can contribute to enhance emergency and disaster management in the district

Role of the 'Eua District Emergency Management Committee

The 'Eua District Emergency Management Committee shall perform the following roles as stated in the National Emergency Management Act 2007;

- to prepare, and regularly review, a District Emergency Management Plan;
- to develop and implement effective emergency management in the district in accordance with any relevant policies issued by the National Emergency Management Committee;
- to provide reports and make recommendations to the National Emergency Management Committee about disaster risk reduction and emergency management activities in the district;
- to regularly conduct exercises of operational procedures
- to provide support to communities to ensure effective emergency management in communities before, during and after the impact of an event;
- to ensure community awareness of emergency management, including ways of mitigating, preparing for, responding to and recovering from an emergency;
- to identify and coordinate the use of resources for emergency operations in the district;
- to establish and review communications systems in the district for use when an event threatens or an emergency happens; and
- To ensure information about an event or an emergency in the district is promptly provided to the National Emergency Management Committee.

Meeting procedure

The 'Eua District Emergency Management Committee (EDEM) shall **meet once every quarter or more frequent due to the urgency of the issues that are to be discussed**. The quorum shall be 50% of the members and in the absence of the Chairperson, the members present shall elect a fellow member to chair the meeting and the minutes of the deliberations to be provided to the Chairperson within seven (7) days after the meeting for his/her ratification.

The issues of emergency and disaster management may also be discussed in the regular operational District Heads of Government Department meeting as an agenda item. In such instance the minutes are to be shared with members representing the Non State Actors within seven (7) days after the meeting for their information and appropriate action.

Reporting and accountability

1. The 'Eua District Emergency Management Committee shall prepare and submit to the National Emergency Management Committee an annual work plan outlining the various activities it intends to carry out in the ensuing year before the 31st of October of each year
2. The work plan shall include the following –

- a) information about the proposed management activities to be undertaken in the ensuing year to properly coordinate emergency and disaster management including number of meetings of the EDEMC, number of village emergency plans planned to be developed, number of agency emergency plan planned to be developed, number of simulation exercise planned to be organised etc.
 - b) Details of proposed emergency and disaster management activities by sectors collated from members of the 'Eua District Emergency Management Committee. These includes their planned core ministerial activities that will reduces vulnerability in the community
3. The 'Eua District Emergency Management Committee shall prepare and give to the National Emergency Management Committee an annual report about emergency management in the district, by 30th March of each year.
4. The report shall include the following —
- a) information about management activities undertaken during the year to maintain or enhance the district's emergency coordination including number of meetings of the EDEMC, number of village emergency plan developed, number of agency emergency plan developed and number of simulation exercise organised etc.
 - b) Details of emergency operations undertaken during the year;
 - c) Details of emergency and disaster management activities implemented by sectors. These includes core ministerial activities that reduces vulnerability in the community
 - d) Other matters about emergency management the National Emergency Management Committee considers appropriate.

Risk Management through prevention/mitigation and adaptation

To better manage the risks to which the district is exposed to the 'Eua District Emergency Management Committee is required to carry out the following specific tasks;-

- a) conduct hazard assessment that the district is exposed to and prioritise in terms of the severity and frequency
- b) conduct vulnerability assessment of the key elements at risk namely, people, property, economy, environment and society
- c) propose actions to relevant line government ministries that will reduce vulnerability to be factored in their ministerial priorities for the district
- d) collaborate with NGO's on community risk reduction actions

Effective Disaster Preparedness

To better prepare the community to effectively respond to emergencies and disasters the 'Eua District Emergency Management Committee is required to carry out the following specific tasks—

- a) support town officers develop their village emergency management plan
- b) support agencies develop their Agency Emergency Plan
- c) prepare an Emergency Operation Centre with all communication facilities and its Standard Operating Procedure

- d) maintain and update a contact list for all district and town officers so that they can be contacted when a threat is eminent
- e) carry out training and awareness sessions to villages, schools and churches and general public
- f) identify potential evacuation centres and seek approval for their use during an emergency from the owners
- g) support development of school evacuation plan
- h) organise simulation exercise to test the early warning systems and response arrangements

Effective response to disasters

The 'Eua District Emergency Management Committee shall carry out the following roles in order to better respond to emergencies and disasters –

- a) activate the district emergency operation centre (EOC) and maintain communication with all town and district officers
- b) maintain and update a map within the EOC showing all key infrastructure and population under threat
- c) consistently provide situation report to the National Emergency Coordination Centre
- d) coordinate assessment with Red Cross to ensure victims are identified and assisted in the shortest possible time
- e) coordinate distribution of humanitarian needs to victims in coordination with NEMO, Red Cross and other stakeholders

Durable recovery

The 'Eua District Emergency Management Committee shall carry out the following roles in order to ensure durable recovery is realised after an event;

- a) coordinate detail sectoral assessment in close liaison with NEMO
- b) prepare detail assessment report for the district
- c) in close liaison with NEMO supervise all rehabilitation and recovery efforts implemented in the district

Appendix 1: Roles of the Line Ministries within the District Emergency Management Committee

Agency	Roles in Prevention	Roles in preparedness	Roles in response	Roles in Recovery
Government Representative office	<ul style="list-style-type: none"> • Coordinate risk assessment in liaison with district and town officers • Identify capital development that will reduce the vulnerability through the district and town officers • Propose capital development that will reduce the vulnerability to the Vava'u Development Committee 	<ul style="list-style-type: none"> • Organise meeting of the 'Eua District Emergency Management Committee • Coordinate the development of the village emergency plan in close liaison with District and Town Officers • Coordinate training and awareness programs in liaison with other members of EDEMC and NEMO • Provide space for an Emergency Operation Centre (EOC) • Coordinate development of the EOC standard operating procedure 	<ul style="list-style-type: none"> • Activate the EOC as deemed necessary or as directed by NEMO • Coordinate emergency operations and Rapid Assessment • Coordinate distribution of humanitarian assistance 	<ul style="list-style-type: none"> • Provide relevant information to NEMO for rehabilitation and recovery • Assist NEMO in carrying out detail sectoral assessment
Tonga Police Service	<ul style="list-style-type: none"> • Cooperate with other different developing committee to activate Risk assessment to community • Cooperate with other different committee • Work together with other emergency response agency 	<ul style="list-style-type: none"> • All staff on standby across the station • Conduct appropriate training • Check equipment and available resource 	<ul style="list-style-type: none"> • Coordinate emergency response plan • On mobile patrol around the community • Collaborate with other agencies under NEMO • Inform head office as soon as possible 	<ul style="list-style-type: none"> • Assist other emergency response agency • Provide assistance to NEMO
MAFFF	<ul style="list-style-type: none"> • Advice to farmers relative to crop protection • Advice to a farmer relative to livestock matters • Support community disaster awareness and preparedness program through agricultural extension officer 	<ul style="list-style-type: none"> • Encourage farmers of providing temporary animal enclosures • Advice farmers for crops and animal protection through a workshop • Make sure that all families here in 'Eua prepared enough stocking foods 	<ul style="list-style-type: none"> • Lead agency role relative to any animals or crops disease • Inform DEP as soon as possible 	<ul style="list-style-type: none"> • Control/containment of emergency animal disease • Encourage farmers to plant short term crops for recovery • Support people for developing crops by supplying material and seeds • Link FAO for any aids

Tonga Fire Emergency Service	<ul style="list-style-type: none"> • Work together with other emergency response agencies at community, national and regional level. • Activate emergency response plan for large scale fire and natural disaster “ERPFLSFND” 	<ul style="list-style-type: none"> • Activation of ERPFLSND • All staff on standby across all station • Check of equipment and available resources • Conduct appropriate resources 	<ul style="list-style-type: none"> • Activate ERPFLSND • Coordinate emergency response plan • Collaborate with other agencies under NEMO • Conduct preliminary assessment • Provide any other such assistance as required 	<ul style="list-style-type: none"> • Provide assistance to NEMO • Assist other emergency response agency • Interval review of ERPFLSND for improvement
Ministry of Health	<ul style="list-style-type: none"> • Hospital availability • Facilities be in good supply • Gas eg. Oxygen be available • Emergency drugs provided and available • Health professions available • Emergency kits available 	<ul style="list-style-type: none"> • Train and experience staff in all areas mention in column 1 • Non-medical staff ready for lifting and help 	<ul style="list-style-type: none"> • Every staff will confidence all health workers don't be nervous • Tender, loving, care to every patient • Reassure and counselling to everyone in first aid before taken to hospital 	<ul style="list-style-type: none"> • Make sure tender loving care • Reassurance, counselling for spiritual, emotional and physical support • Make sure everyone in comfortable position and suitable area
Ministry of Infrastructure	<ul style="list-style-type: none"> • Enforce the code of construction • Look for fund for evacuations eg. Roads and drainage • Prepare wharf and roads to ensure safe passage • Prepare tools and materials (eg. Chainsaw, bulldozer etc.) • Asset mapping from Statistics 	<ul style="list-style-type: none"> • Estimate cost for houses. Work together with the town officer • Clear fallen trees and fallen power lines and water taps • Building code experts to help residents ‘build better’ adhering to the building codes for future building • Seek donor fund for building material 	<ul style="list-style-type: none"> • Conduct survey on infrastructures and buildings/houses • Maintenance work on both infrastructure and roads 	<ul style="list-style-type: none"> • Provide relevant information to district and NEMO through the Government Representative
Ministry of Finance and Planning	<ul style="list-style-type: none"> • Support the other functional areas through the financing of operations as well as providing administrative support and management of the coordination 	<ul style="list-style-type: none"> • Check and keep track the amount of money for the use when disaster happens • Divide up the various cash to various ministry before the disaster happens 	<ul style="list-style-type: none"> • Check with the damages and see the cost • Coordinate in distributing the cash for the individual damages 	<ul style="list-style-type: none"> • Provide relevant information to NEMO for rehabilitation and recovery • Have the district + NEMO carry out

	<p>centre.</p> <ul style="list-style-type: none"> Responsible for tracking of response cost for corporate accounting 	<ul style="list-style-type: none"> Check with the town officers list of problem happen in various areas 		assessment
Ministry of Education	<ul style="list-style-type: none"> Assist in risk assessment with district and town officers 	<ul style="list-style-type: none"> Assist in meeting of district emergency committee Provide relevant information regarding emergency management with students Provide space for the people Coordinate to provide safe house Check weather bulletins Check schools (classrooms) are appropriate 	<ul style="list-style-type: none"> Coordinate distribution of humanitarian assistance Assist emergency operations and assessment 	<ul style="list-style-type: none"> Provide relevant information for report

Appendix 2: Community Emergency Management Committees and their roles

Western district

Community institution	Preparedness – Mateuteu	Relief response	Recovery – Fakaakeake	Prevention – Faka'ehi'ehi	Mitigation – Fakasi'isi'i e ola kovi e fakatamaki
1. Community disaster committee	<ul style="list-style-type: none"> Langa pe teuteu'i pe alea'i ha Fale Hufanga Vai – taautaha mo fakakolo Me'a sivi vai Maama – te'elango, generator, maama matangi, kasa Letio Maka Telefoni satelaite Sitou 	<ul style="list-style-type: none"> Fetukutuku mo fakanofonofu e kau vaivai, kakai fefine & fanau ki he fale hufanga 'Ave ni'ihi faingata'ia ki falemahaki Fetu'utaki ki he Komiti Lahi Fakafonua 'a 'Eua, Polisi & Tamate Afi & NEMO Fakahoko e savea fakavavevave (IDA form) 	<ul style="list-style-type: none"> To e ngoue taimi nounou ke vave mo lahi (koane, kumala, vesitapolo) Kole teniti mei he NEMO Tokoni'i pulopula, palau Monomono mo langa fale fo'ou Uki e ngaue fakakolo ke fakama'opo'opo maumau Kole tokoni Potungae Ngoue Muimui'i e palani fakafonua ke 	<ul style="list-style-type: none"> Faka'ehi'ehi laine 'uhila Fakapapau'i vai ke ma'a mo a'u ki he ngaahi 'api Nofo noa Mo'ui ma'a – haisini Fakapapau'i e ngaahi tu'unga fetu'utaki Lipooti ki he ngaahi feitu'u totonu Fakapapau'i e fefononga'aki 	<ul style="list-style-type: none"> Fakalele'i e ma'u'anga me'akai To e ngoue matu'uaki e feliliuaki e 'ea – talo tonga, talo futuna, koane Fakapotopoto ange

	<ul style="list-style-type: none"> • Naunau houa 72 • Naunau first aid • Langa fosa ke malu'l e hake 'a e tahi mei Tufuvai ki 'Ufilei 		<ul style="list-style-type: none"> • ma'u ha tokoni • Tokoni faka'atamai ki he kakai kuo uesia – ngaue'aki e kau taki lotu • Fakalelei'i e tu'unga ngaahi me'a fetu'utaki mo fefolau'aki 	<ul style="list-style-type: none"> • ke malu mo pau 	
2. Youth committee	<ul style="list-style-type: none"> • Tokoni ke fetukutuku 'a e kau vaivai, faingata'ia, kakai fefine mo e longai fanau • Tukituki ngaahi 'api • Fakapapau'i 'oku ngaue longomo'ui 'a e Komiti To'utupu • Tokoni ke fakama'opo'opo vai me'akai 	<ul style="list-style-type: none"> • Takai o fakapapau'i 'oku malu e ngaahi 'api kotoa • Faka'ata'ata e ngaahi hala pule'anga • Tokoni ha ngaahi ngaue kehe 'o ka fiema'u 'e he Komiti Fakakolo 	<ul style="list-style-type: none"> • Fakama'opo'opo • Fakalelei ngaahi 'api 'oku maumau • Fakalelei e ngaahi ngoue 'oku uesia • Mo ha ngaahi ngaue makehe 'e fiema'u 'e he Komiti Fakakolo 	<ul style="list-style-type: none"> • Tokanga'i 'a e fanau iiki ngaahi me'a fakatu'utamaki pe lavea ngofua • Tokoni ki he fakama'a kolo ie – nofo'anga namu etc 	<ul style="list-style-type: none"> • Tokoni ki he komiti fakakolo ke fakasi'isi'i hono faka'aonga'i maumau 'a e me'atokoni mo vai • Faka'ehi'ehi mei he maumau lao
3. Women committee	<ul style="list-style-type: none"> • Tokanga'i e fanau iiki • Tokanga'i e ngaahi koloa fakaTonga • Tokanga'i e me'akai, vala etc • Tokanga'i ke fakamanatu e fatongia e matu'a tangata 	<ul style="list-style-type: none"> • Tokanga'i e malu 'a e fanau mo e kau faingata'ia mo e toulekeleka • Tokoni ki hono teuteu'i 'a e vai fe'unga • Tokoni ki hono teuteu'i 'a e me'atokoni fe'unga ki he fakatamaki 	<ul style="list-style-type: none"> • To 'a e ngaahi vesitapolo taimi vave • Fakapapau'i 'a e fanau 'oku ma'a mo makona 	<ul style="list-style-type: none"> • Faka'ehi'ehi 'a e fanau mei he maumau e me'akai • Fanau ke faka'ehi'ehi mei he 'uli 	<ul style="list-style-type: none"> • Fakasi'isi'i 'a e fakamole 'a e famili • Tokangaekina ta to ha to'u mahaki
4. Community development committee	<ul style="list-style-type: none"> • Ui 'a e fakataha 'a e komiti • Fakama'opo'opo 'a e ngaahi kupu fekau'aki kamata tokoni 	<ul style="list-style-type: none"> • Lipooti ki he Komiti 'a e Vahe Fonua mo fakaha ai 'a e ngaahi fiema'u vivili ke tokoni mai • Fakalelei'i e ma'u'anga vai mo e me'akai • Fakama'opo'opo ngaahi maumau ne hoko 	<ul style="list-style-type: none"> • Uki e kakai ke to ha ngoue • Teuteu ha founa ke ma'u ai ha me'a tokoni vave • Founa ke fai ha kole tokoni 	<ul style="list-style-type: none"> • Komiti ke fakama'a 'a e kolo faka'ehi'ehi mei he ngaahi mahaki pipihi 	<ul style="list-style-type: none"> • Fai ha ako'i 'a e kakai ke fakasi'isi'i 'a e nofo noa • Ako'i e kakai ke longomo'ui he ngaue fakalalakaka pea mo tokangaekina e fakatamaki fakaenatula

Eastern district

Community institution	Preparedness	Relief/response	Recovery	Prevention	Mitigation
1. Community disaster committee	<ul style="list-style-type: none"> • Langa pe teuteu'i pe alea'i ha Fale Hufanga • Vai – taautaha mo fakakolo • Me'a sivi vai • Maama – te'elango, generator, maama matangi, kasa • Letio Maka • Telefoni satelaite • Sitou • Naunau houa 72 • Naunau first aid • Kolosi'anga tele'a mei Ta'anga ki 'Ohonua – hala fakakavakava • Lotu hufia 	<ul style="list-style-type: none"> • Fetukutuku mo fakanofonofo e kau vaivai, kakai fefine & fanau ki he fale hufanga • 'Ave ni'ihia faingata'ia ki falemahaki • Fetu'utaki ki he Komiti Lahi Fakafonua 'a 'Eua, Polisi & Tamate Afi & NEMO • Fakahoko e savea fakavavevave (IDA form) 	<ul style="list-style-type: none"> • To e ngoue taimi nounou ke vave mo lahi (koane, kumala, vesitapolo) • Kole teniti mei he NEMO • Tokoni'i pulopula, palau • Monomono mo langa fale fo'ou • Uki e ngaue fakakolo ke fakama'opo'opo maumau • Kole tokoni Potungaue Ngoue • Muimui'i e palani fakafonua ke ma'u ha tokoni • Tokoni faka'atamai ki he kakai kuo uesia – ngaue'aki e kau taki lotu • Fakalelei'i e tu'unga ngaahi me'a fetu'utaki mo fefolau'aki 	<ul style="list-style-type: none"> • Faka'ehi'ehi laine 'uhila • Fakapapau'i vai ke ma'a mo a'u ki he ngaahi 'api • Nofo noa • Mo'ui ma'a – haisini • Fakapapau'i e ngaahi tu'unga fetu'utaki • Lipooti ki he ngaahi feitu'u totonu • Fakapapau'i e fefononga'aki ke malu mo pau • 	<ul style="list-style-type: none"> • Fakalelei'i e ma'u'anga me'akai • To e ngoue matu'uaki e feliliuaki e 'ea – talo tonga, talo futuna, koane • Fakapotopoto ange •
2. Youth committee	<ul style="list-style-type: none"> • Tokoni ke fetukutuku 'a e kau vaivai, faingata'ia, kakai fefine mo e longa'i fanau • Tukituki ngaahi 'api • Fakapapau'i 'oku ngaue longomo'ui 'a e Komiti To'utupu • Tokoni ke fakama'opo'opo vai me'akai 	<ul style="list-style-type: none"> • Takai o fakapapau'i 'oku malu e ngaahi 'api kotoa • Faka'ata'ata e ngaahi hala pule'anga • Tokoni ha ngaahi ngaue kehe 'o ka fiema'u 'e he Komiti Fakakolo 	<ul style="list-style-type: none"> • Fakama'opo'opo • Fakalelei ngaahi 'api 'oku maumau • Fakalelei e ngaahi ngoue 'oku uesia • Mo ha ngaahi ngaue makehe 'e fiema'u 'e he Komiti Fakakolo 	<ul style="list-style-type: none"> • Tokanga'i 'a e fanau iiki ngaahi me'a fakatu'utamaki pe lavea ngofua • Tokoni ki he fakama'a kolo ie – nofo'anga namu etc 	<ul style="list-style-type: none"> • Tokoni ki he komiti fakakolo ke fakasi'isi'i hono faka'aonga'i maumau 'a e me'atokoni mo vai • Faka'ehi'ehi mei he maumau lao
3. Women's committee	<ul style="list-style-type: none"> • Tokanga'i e fanau iiki • Tokanga'i e ngaahi koloa fakaTonga • Tokanga'i e me'akai, vala etc 	<ul style="list-style-type: none"> • Tokanga'i e malu 'a e fanau mo e kau faingata'ia mo e 	<ul style="list-style-type: none"> • To 'a e ngaahi vesitapolo taimi vave • Fakapapau'i 'a e fanau 'oku 	<ul style="list-style-type: none"> • Faka'ehi'ehi 'a e fanau mei he maumau e me'akai 	<ul style="list-style-type: none"> • Fakasi'isi'i 'a e fakamole 'a e famili • Tokangaekina ta to ha to'u

	<ul style="list-style-type: none"> • Tokanga'i ke fakamanatu e fatongia e matu'a tangata • Ako'i e kakai ki he fakatolonga me'a kai pea 'ai mo e misini ki he ngaue ko ia ie – preservatives 	<p>toulekeleka</p> <ul style="list-style-type: none"> • Tokoni ki hono teuteu'i 'a e vai fe'unga • Tokoni ki hono teuteu'i 'a e me'atokoni fe'unga ki he fakatamaki 	<p>ma'a mo makona</p>	<ul style="list-style-type: none"> • Fanau ke faka'ehi'ehi mei he 'uli 	<p>mahaki</p>
<p>4. Community development committee</p>	<ul style="list-style-type: none"> • Ui 'a e fakataha 'a e komiti • Fakama'opo'opo 'a e ngaahi kupu fekau'aki kamata tokoni 	<ul style="list-style-type: none"> • Lipooti ki he Komiti 'a e Vahe Fonua mo fakaha ai 'a e ngaahi fiema'u vivili ke tokoni mai • Fakalelei'i e ma'u'anga vai mo e me'akai • Fakama'opo'opo ngaahi maumau ne hoko 	<ul style="list-style-type: none"> • Uki e kakai ke to ha ngoue • Teuteu ha founa ke ma'u ai ha me'a tokoni vave • Founa ke fai ha kole tokoni • 	<ul style="list-style-type: none"> • Komiti ke fakama'a 'a e kolo faka'ehi'ehi mei he ngaahi mahaki pipihi 	<ul style="list-style-type: none"> • Ako'i e kakai ke longomo'ui he ngaue fakalalakaka pea mo tokangaekina e fakatamaki fakaenatula

Appendix 3: Pacific Data Loss Assessment Form



Government of the Kingdom of Tonga

Ministry of Meteorology, Energy, Information, Disaster Management,

Environment, Climate Change and Communications

National Emergency Management Office (NEMO)

AHO	4 MA'ASI 2016	TAIMI / LOLOA		MA'U'ANGA FAKAMATALA	'OFISA KOLO
FONUUA	Tonga	VAHE	'EUA	KOLO	ANGAHA
FAKATAMAKI	AFA	FEITU'U		MALOHI	
				MOLE \$TONGA	
				MOLE \$AMELIKA	

NGAAHI UESIA

TOKOLAHI KAU PEKIA		TOKOLAHI KAKAI PULIA		KAKAI LAVEA							
TOKOLAHI UESIA HE FKTAMAKI		TOKOLAHI KAKAI KUO HIKI		<u>FALE MAUMAU</u>		MAUMAU HE HALA \$		HIAPO		KAPE	

TOKOLAHI KAKAI KUMI
HUFANGA

KAKAI HUKITONU HE
FAKATAMAKI

FALE PILIKI

MAUMAU
NGOUE (HA)

AHI

MANGO

FALE PAPA

PULU MOLE

FAINA

NIU

VAKA MAUMAU

**NAUNAU FALE
MAUMAU**

FALE
FAKAPALEPALE

PUAKA MOLE

MANIOKE

IFI

IOTE

NAUNAU
FAKA'ILEKITULONIKA

HOLO
FAKAKOLO

HOOSI MOLE

TALO TONGA

KOANE

VAKA TOUTAI

NAUNAU FAKA'UHILA

FALELOTU

MOA MOLE

TALO
FUTUNA

MOLI

VAKA PAPA

ME'ALELE

FALE KALAPU

SIPI MOLE

KUMALA

AI

VAKA UKAMEA

KOLOA FAKATONGA

FALE LALANGA

KOSI MOLE

NGOUE FUSI

TAVA

POPAO/ KAYAK

FALE KOLOA

PATO MOLE

VANILA

VI

VAKA FAIPA

FALE TONGA

KULI MOLE

UFI

APELE
INITIA

NAUNAU VAKA
FK'ILEKUTULONIKA

FALE KONITEINA

MEI

HINA

NAUNAU TOUTAI

FALE HOLO

KAVA

LESI

VAKA 'ALAMINIUME

FALE PILIKI

LOU'AKAU

MELENI

VAKA PELESITIKI

FALE PAPA

AKAU
FAITO'O

VESITAP
OLO

FALE FAKAPALEPALE	
HOLO FAKAKOLO	
FALELOTU	
FALE KALAPU	
FALE LALANGA	
FALE KOLOA	
FALE TONGA	
FALE KONITEINA	

AKAU KAKALA	
NGOUE MATALA'TAKA U	
AKAU PAPA	
TAPAKA TONGA	
AKAU FUA	

NGAAHI SEKITOA KUO
UESIA

FEFONONGA'AKI	
MALA'EVAKAPUNA	

FETU'UTAKI	
MA'U'ANGA VAI	

POTUNGAUE AKO	
POTUNGAUE MO'UI	

NGAAHI AKO'ANGA	
FALEMAHAKI / KILINIKI	

HALA PULE'ANGA	
NGOUE	

HA TOE SEKITOA KEHE	
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UAFU

NGAUE'ANGA

SEPITIKI

NGAUE
TOKONI

UHILA

NGAAHI MOLE KEHE

FAKAMATALA MAKEHE
