



Abatiku Fisheries Management plan

Vision: “In 10 years’ time, Abatiku will be responsible/ in charge in both the ocean and land, island wide well-being and with the preservation of our culture to become a tourists’ attraction destination”

This management plan was developed by members of Abatiku village for the overall benefit of the people of Abatiku through a well-managed and sustained adjacent coastal marine resources. The development of the initial draft of the management plan was facilitated by: Toaiti Vanguna (Nei Tengarengare CBFM) Tekateteke Metai (Nei Tengarengare CBFM) Rauamo Tiam (Fisheries Extension Assistant, Island based) Kiarake Karuaaki (TAK officer) and Rutiana Teibaba (Fisheries Assistant Trainee)

A review of the management plan was facilitated by Toaiti Vanguna (Nei Tengarengare CBFM), Ueakeia Tofinga (GIS officer), Mwatereti Buren (FA trainee), Miriam Bwarai (FA, Abemama)

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1.0 Background of the management plan:

This management plan was initially developed and endorsed in November 2019 by members of Abatiku village for the entire people of Abatiku. The development of this management plan is a consolidation of ideas and concerns through a series of consultations held prior the finalization and endorsement of the plan. A large number of communities were involved in the preparation of the plan and some of the members are listed in Annex 1.

Abatiku became an established incorporated coastal community in _____ pursuant to the Incorporated Societies Act 2002 and includes among its purposes, the purpose of participation in the conservation, management and protection of marine resources in adjacent coastal areas.

A review of the management plan was conducted in November 2020, for the villagers of Abatiku to make necessary amendments and align with the requirements as per the Fisheries (Conservation and Management of Coastal Marine Resources) Regulations 2019.

This management has the full support of the entire people of Abatiku (see Section 2 statement of Endorsement)

Abemama Council has given support and endorsement for this management plan (see Section 2, statement of endorsement by the Island Council).

A statement of endorsement by the Minister of Fisheries and Marine Resources Development is provided in Section 2

This is a duly endorsed plan by the village of Abatiku, the Island Council of Abemama and the Ministry of Fisheries and Marine Resources Development.

2.0 Statements of Endorsement:

2.1 Abatiku Village statements of endorsement:

Name: _____

Signature: _____

Position: _____

Date: _____

2.2 Abemama Island Council Statements of endorsement:

Name: _____

Signature: _____

Position: _____

Date: _____

2.3 Ministry for Fisheries and Marine Resources Development statements of endorsement:

Name: _____

Signature: _____

Position: _____

Date: _____

3.0 Fisheries Management Plan:

3.1.0 Application of the plan:

This management plan applies from the coast shore and extends out into both lagoon and ocean side. Special marine managed areas where specific rules apply are provided in the map. The land boundary was for the whole land of Abatiku islet.

3.2.0 Objectives of the plan:

The general objective of this plan is to ensure the sustainability of the coastal marine resources of Abatiku through well managed fishing and non-fishing practices for the wellbeing of the current and future generation of Abatiku village and Abemama as a whole.

The specific objectives of the plan are as follows:

- ✓ Healthy and Wealthy of all marine resources of Abatiku
- ✓ Restore the health and abundance of all Abatiku finfishes and marine invertebrates
- ✓ Ensure clean coastal and marine environment

3.3.0 Theme 1: Recovering the health of finfish and Invertebrates fisheries in Abatiku:

3.3.1 Target 1: Banning of fishing during the spawning seasons of Bonefish, Silver biddy and Flying fish.

3.3.1.1 No one shall fish for bone fish and Silver biddy during the spawning times outlined below:

- i. Three (3) days before full moon and new moon
- ii. During full moon
- iii. During new moon
- iv. Three (3) days after full moon and new moon

3.3.1.2 No one shall fish for Flying fish during the spawning times outlined below:

- i. Three (3) days before new moon
- ii. During new moon
- iii. Three (3) days after new moon

3.3.2 Target 2: Banning of fishing during the spawning seasons of Invertebrates.

3.3.2.1 No one shall fish for Octopus while carrying berries where have hard heard

3.3.2.2 No one shall fish for Lobster while carrying berries

3.3.2.3 No one shall fish for Mantis shrimp during spawning season where by changing carapace to red and soft.

3.3.3 Target 3: Banning of destructive fishing methods

- i. Water splashing fishing method is prohibited

3.3.4 Target 4: Banning the use of destructive fishing methods

- i. The use of gillnets with more than 100 meters in length is prohibited.
- ii. The use of small mesh gillnets less than 2.5 inches is prohibited (refer to schedule Annex 2 for instruction of mesh size measurement).
- iii. The use of crowbar for destructing Octopus holes is prohibited

3.3.1 Theme 2: Control fishing on Spider conch, Clam (*Tridacna maxima*), Giant clam (*Tridacna gigas*), Lobster, Turtle and Bone fish

3.3.1.1 Target 1: Management rules for the Spider conch

- i. The maximum of 40 Spider conches shall harvest or catch only during special occasions

3.3.1.2 Target 2: Management rules for Clam (*Tridacna maxima*) and Giant clam (*Tridacna gigas*)

- i. The maximum of 20 *Tridacna maxima* shall harvest or catch by every fisher each day
- ii. No one shall fish for Giant clam (*Tridacna gigas*) as per mentioned under (Section 11 Special Protection of Giant clam), the Fisheries Regulations, 2019

3.3.1.3 Target 3: Management rules for Lobster

- i. No one shall fish for undersized Lobster below 8.5 cm (See Annex 2 for instructions of measurement as per the Fisheries Regulations 2019)
- ii. No one shall use Lobster for trade

3.3.1.4 Target 4: Management rules for Turtle

- i. No one shall fish or catch Turtle by gillnetting
- ii. No one shall fish for undersized turtle below 85cm (See Annex 2 for instructions of measurement as per the Fisheries Regulations 2019)

3.3.1.5 Target 5: Management rules for Mantis shrimp

- i. No one shall fish or collect Mantis shrimp below 18cm in length (See Annex 2 for instructions of measurement as per the Fisheries Regulations 2019)

3.3.1.6 Target 6: Management rules for Bonfish

- i. The maximum of 2 bags of sugar Bonfish shall fish during occasion

3.3.2 Theme 3: Management of Marine managed areas

3.3.2.1 Target 1: Managed areas for Clam (*Tridacna maxima*) and Giant clam (*Tridacna gigas*)

- i. No one shall take, harvest or catch the mention clams in Atintoataea and Temwanibwa managed area (See map in Annex 4)

3.3.2.1 Target 2: Management rules for Atintoataea and Temwanibwa managed areas

- i. No one shall enter, fish, swim and drift inside this designated areas (See map in Annex 4)

3.3.2.2 Target 3: Management rules for Tekararang managed area

- i. No one shall fish, drift and swim during the high tide inside this designated area (See map in Annex 4)

3.3.3 Theme 4: Management of Marine habitats

3.3.3.1 Target 1: Banning destructive activities to mangroves

- i. Cutting of mangrove is prohibited

3.3.3.2 Target 2: Banning destructive activities to Coral reefs

- i. No one shall break or use corals to make limestone powder

3.3.4 Theme 5: Maintaining coastal and marine cleanliness

3.3.4.1 Target 1: Management rule for non- biodegradable wastes

- i. No one shall dump or throw non-biodegradable wastes on beaches and in the sea.

3.3.5 Entry into force and implementation:

- i. This management plan will come into force once signed off by the Minister for Fisheries and Marine Resources Development
- ii. The Nautonga committee members will responsible in driving the implementation and monitoring of this management plan
- iii. Members of the CBFM committee consist of:
 - ✓ Nautonga committee members
 - ✓ Fisheries Assistant
 - ✓ Fisheries Extension Assistant
 - ✓ Special constable
- iv. Role of the CBFM committee:
 - ✓ Conduct monitoring and inspection during the spawning seasons of the Bonefish, Flying fish and Silver biddy and other illegal fishing activities
 - ✓ To ensure that no one enter the three managed areas
 - ✓ Receive reports of breaching cases from the villagers
 - ✓ Keeping a record of fines imposed, the number of breaching cases and the amount of fines issued

3.3.6 Monitoring and Enforcement Strategies:

- i. Monitoring of the management plan will be carried out by the following people.

Special constable, Nautonga committee, Fisheries Assistant and Fisheries Extension Assistant

- ii. Enforcement of the management plan will be carried out by Special constable, Fisheries Assistant and Fisheries Extension Assistant
- iii. Reporting on the enforcement and monitoring activities:

Reports will be made on the progress of enforcement and monitoring by the Nautonga committee during the three (3) monthly basis meeting of Abatiku Village.

- iv. Abemama island council Speed boat can be used to monitor and conduct surveillance in managed areas, during the spawning aggregations of bonefish, Flying fish and Silver biddy and any observed illegal fishing

3.3.7 Management plan review

- i. The plan shall be revised every five (5) years or when the Minister considers necessary upon the advice of the Director and of the community involved. Any amendments to the plan shall be endorsed by the community involved and approved by the Minister in writing.

Annex 1: Names of members of Abatiku Village

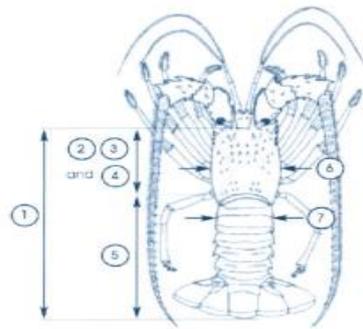
Male

Itimaua Tengikai
Etomwa
Iotebwa Ioane
Baretaiti Taomwati
Tibwere Toromon
Taroro Teakoi
Kaitangare Tekiata
Avia Teruruai
Taraora Teikake
Teakoi Kautoa
Tiaon Bareaka
Tiataake I
Kautoa
Taratobwa
Teaarua
Ititaake
Ietemanga
Aree
Boua
Baiteke
Maraiti
Tekaa Taomwati
Tibwere Toromon
Takaio Moataake

Female

Teeua Don
Eremite Eria
Teaatao Bareaka
Ioana Nanotangare
Karibwaiti
Turia
Orita
Taouea
Kammari
Uenateeta Kiauenai
Reta
Temwau
Bwaaua
Kaeta Tanentoa
Maati Teaeki
Teatu Naimang
Tenekaeko Teiaa
Raaua Senty
Naunae Taumaon
Teretia Maitina
Eretia Tamton
Mwarere Routakarawa
Tiiu Itimaua
Arina Itimeate
Riina Tabakia
Eeruta Avia
Tiantaake Iotebwa
Teaatao Raoboia

Annex 2: Schedule 1 (as per the Fisheries Regulations 2019)



1. from the front edge of the carapace to the rear edge of the telson
2. carapace length
3. from the midline behind the rostral horns to the rear edge of the carapace
4. from the base of the supra-orbital spines to the end of the oostegothorax
5. tail length
6. carapace width
7. tail width between the lateral notches of the first tail segment

Fig. 1 Rock Lobster carapace length

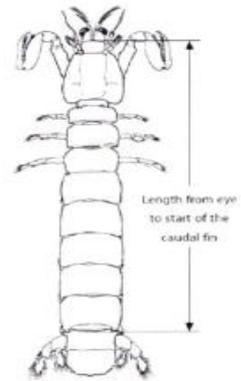


Fig. 2 Mantis shrimp

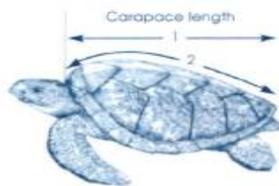


Fig. 3 Turtle carapace length

1. measured in a straight line
2. measured along the curve of the carapace

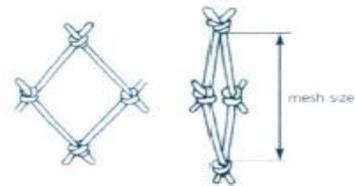
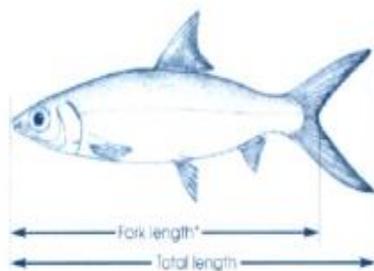


Fig. 4 Stretched mesh size



* or measure taken at the middle of the tail

Fig. 5 Finfish fork and total length

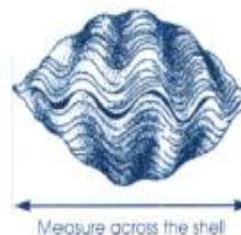
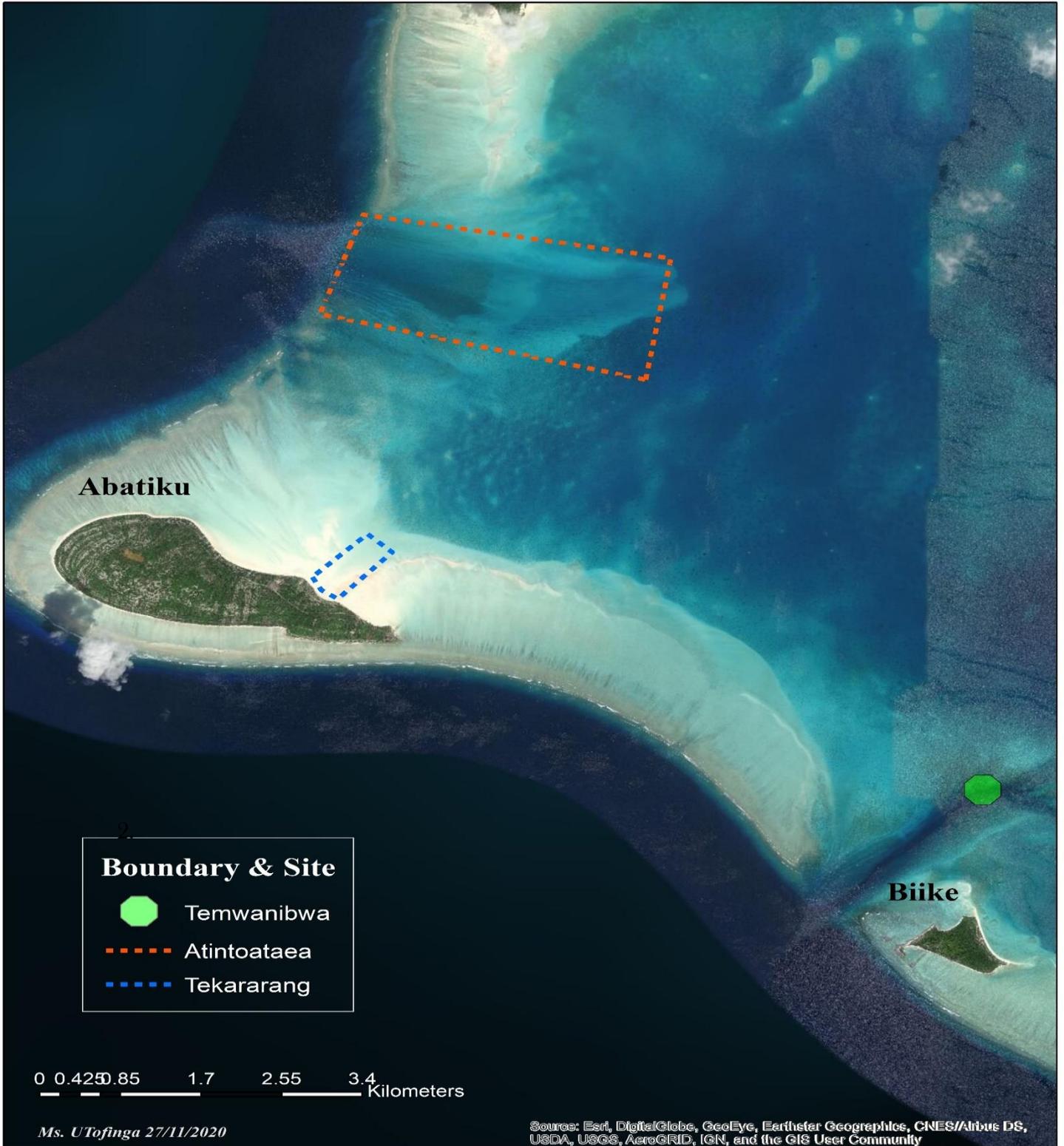


Fig. 6 Bivalve total length

Annex 3: Schedule 2 (as per the Fisheries Regulations 2019)

Goatfish (<i>Upeneus taeniopterus</i>)	Maebo	Minimum fork length 20 cm	Three (3) days before and three (3) days after new moon
Exocoetidae (flying fish)			
Flying fish (<i>Cypselurus suttoni</i>)	Onauti	Minimum fork length 20 cm	Three (3) days before and three (3) days after new moon
2. INVERTEBRATES			
Bivalves (ark, clams)			
Ark shell <i>Anadara sp.</i>	Te bun	Minimum size 4 cm	Director to declare closed season and areas.
Clam (<i>Tridacna maxima</i>)	Were	Minimum size 15 cm	Director to declare closed season and areas.
Clam (<i>Tridacna squamosa</i>)	Were	Minimum size 20 cm	Director to declare closed season and areas.
Giant clam (<i>Tridacna gigas</i>)	Kima	Total ban	Special protection warranted
Crustaceans			
Rock lobster (<i>Panulirus sp.</i>)	Nnewe	Minimum carapace length 8.5cm from front edge of carapace to rear edge of carapace	Director to declare closed season
Mantis shrimp <i>Lysiosquilla maculate</i>	Waro	Minimum size 18cm measured from eye to start of caudal fin	Director to declare closed season
3. SEA TURTLES			
Green Turtle (<i>Chelonia mydas</i>)	Te On	Minimum carapace length 86cm	Director to declare closed season
Hawksbill Turtle (<i>Eretmochelys imbricate</i>) (not fit for consumption)	On-tabwakea	Minimum carapace length 68cm	Director to declare closed season

Abatiku Management Plan Map



Annex 5: Abatiku managed areas coordinates:

- i. Tekararang managed area coordinates

Lat	Lon
0.38652	173.78541
0.38497	173.78627
0.38394	173.78782
0.38944	173.79297
0.39156	173.79064
0.38652	173.78541

- ii. Temwanibwa managed area coordinates:

Lat	Lon
0.36154	173.849

- iii. Atintoataea managed area coordinates:

Lat	Lon
0.4097	173.817
0.42395	173.8194
0.4291	173.7902
0.41742	173.7861

