

**Annex 1. Summary of each target fishing village surveyed  
in the Mawtin Coast region**

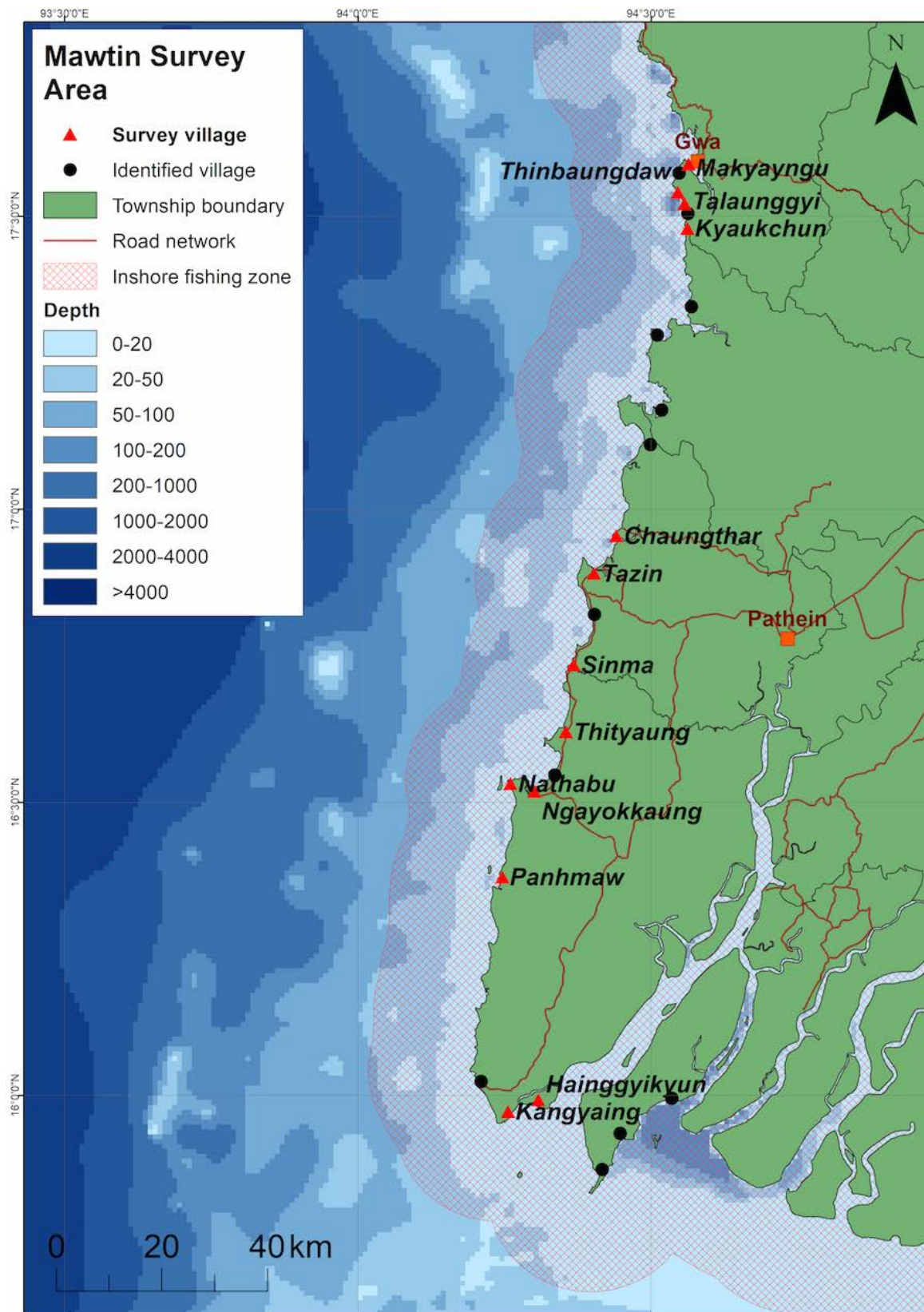


Figure A-1. Map of Mawtin Coast, surveyed fishing villages (red triangles), and inshore fishing zone.

**Table A-1. Household summaries for the surveyed coastal fishing villages (by township) and sample sizes.**

Village Name	Total # HH	Total # Fisher HH	% Fisher HH of total	# HH Sampled	% Fisher HH interviewed
<b>Gwa township</b>					
Kyaukchun	320	423	132%*	36	9%
Makyayngu	315	349	111%*	37	11%
Talaunggyi	112	100	89%	10	10%
Thinbaungdaw	45	36	80%	9	25%
<b>Shwethaungyan town</b>					
Chaungthar	2,060	227	11%	35	15%
Sinma	330	320	97%	36	11%
Tazin	1,455	669	46%	44	7%
<b>Ngaputaw township</b>					
Ngayokkaung	741	404	55%	54	13%
Nathabu	347	242	70%	31	13%
Panhmaw	260	250	96%	45	18%
Thityaung	568	430	76%	40	9%
<b>Hainggyikyun town</b>					
Hainggyikyun	2,774	658	24%	48	7%
Kangyaing	1,050	550	52%	56	10%
<b>Total</b>	<b>10,377</b>	<b>4,658</b>	<b>45%</b>	<b>481</b>	<b>10%</b>

\* The total number of fisher HHs is greater than the total number of HHs in the village due to the (unexpected) presence of migrant fisher HHs in these communities at the time of surveying.

**Table A-2. Annual fisheries earnings (net) and total annual household income for the Mawtin Coast region (Myanmar kyat).**

Group	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
	Median	Min.	Max.		Median	Min.	Max.
<b>All *</b>	1,402,500	30,000	61,038,667	80%	1,800,000	75,000	135,112,000
<b>Crew</b>	1,200,000	30,000	30,000,000	92%	1,300,000	75,000	30,000,000
<b>Owner</b>	3,000,000	120,000	61,038,667	83%	3,600,000	160,000	135,112,000

Note: n=464, which is less than the total number of HHs interviewed (n=481), as some fishers did not provide data that was reliable enough to calculate net income.

**Table A-3. Median, minimum, and maximum annual fisheries earnings (net) and total annual household incomes for each village in the Mawtin Coast region.**

Village	Annual Fisheries Earnings (MMK)			% of income from fisheries	Total Annual HH Income (MMK)		
	Median	Minimum	Maximum		Median	Minimum	Maximum
Chaungthar	1,350,000	500,000	9,600,000	90	1,500,000	714,286	15,000,000
Hainggyikyun	1,000,000	96,000	12,000,000	72	1,389,286	96,000	18,000,000
Kangyaing	1,640,000	200,000	27,000,000	91	1,800,000	200,000	27,000,000
Kyaukchun	1,200,000	290,000	22,925,000	80	1,500,000	320,000	28,656,250
Makyayngu	2,400,000	400,000	30,000,000	80	3,000,000	400,000	30,000,000
Nathabu	1,400,000	500,000	22,644,667	82	1,714,286	500,000	28,305,833
Ngayokkaung	2,050,000	490,000	36,000,000	85	2,400,000	490,000	36,000,000
Panhmaw	1,050,000	100,000	18,000,000	88	1,200,000	100,000	30,000,000
Sinma	2,895,000	246,333	61,038,667	83	3,490,000	328,444	135,112,000
Talaunggyi	1,383,741	30,000	6,000,000	49	2,829,741	150,000	20,000,000
Tazin	2,006,250	175,000	50,000,000	80	2,506,250	520,000	50,000,000
Thinbaungdaw	384,667	120,000	3,850,000	20	1,941,667	533,333	7,700,000
Thityaung	1,200,000	75,000	24,000,000	100	1,200,000	75,000	34,285,714

## 1. Chaungthar

Village Tract: Chaungthar  
 Township: Shwethaungyan  
 Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
2,060	227	11%	35	15%	138

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Two Boat Seine	15	42.9%
Drift Gill Net	3	8.6%
Bottom Set Gill Net	1	2.9%
Diving	6	17.1%
Bottom Long Line	7	20.0%
Fence Net	3	8.6%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	33	1,350,000	500,000	9,600,000	90%	1,500,000	714,286	15,000,000
Crew	20	1,200,000	500,000	2,700,000	92%	1,300,000	714,286	3,375,000
Owner	13	3,000,000	900,000	9,600,000	83%	3,600,000	1,125,000	15,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	Yes	Primary School	Yes	Restaurant	Yes
Bank	Yes	Middle School	Yes	Tea shop	Yes
Public transport (bus sta.)	Yes	High School	Yes	Fish processing facility	No
Petrol station	Yes	Hospital	Yes	Fish storage facility	No
General market	Yes	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	Yes	Guest house	Yes
		Midwife	Yes	Community building	Yes
		Nurse	Yes	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 28.6% (n = 35)					

<sup>1</sup>Source: fisher HH surveys

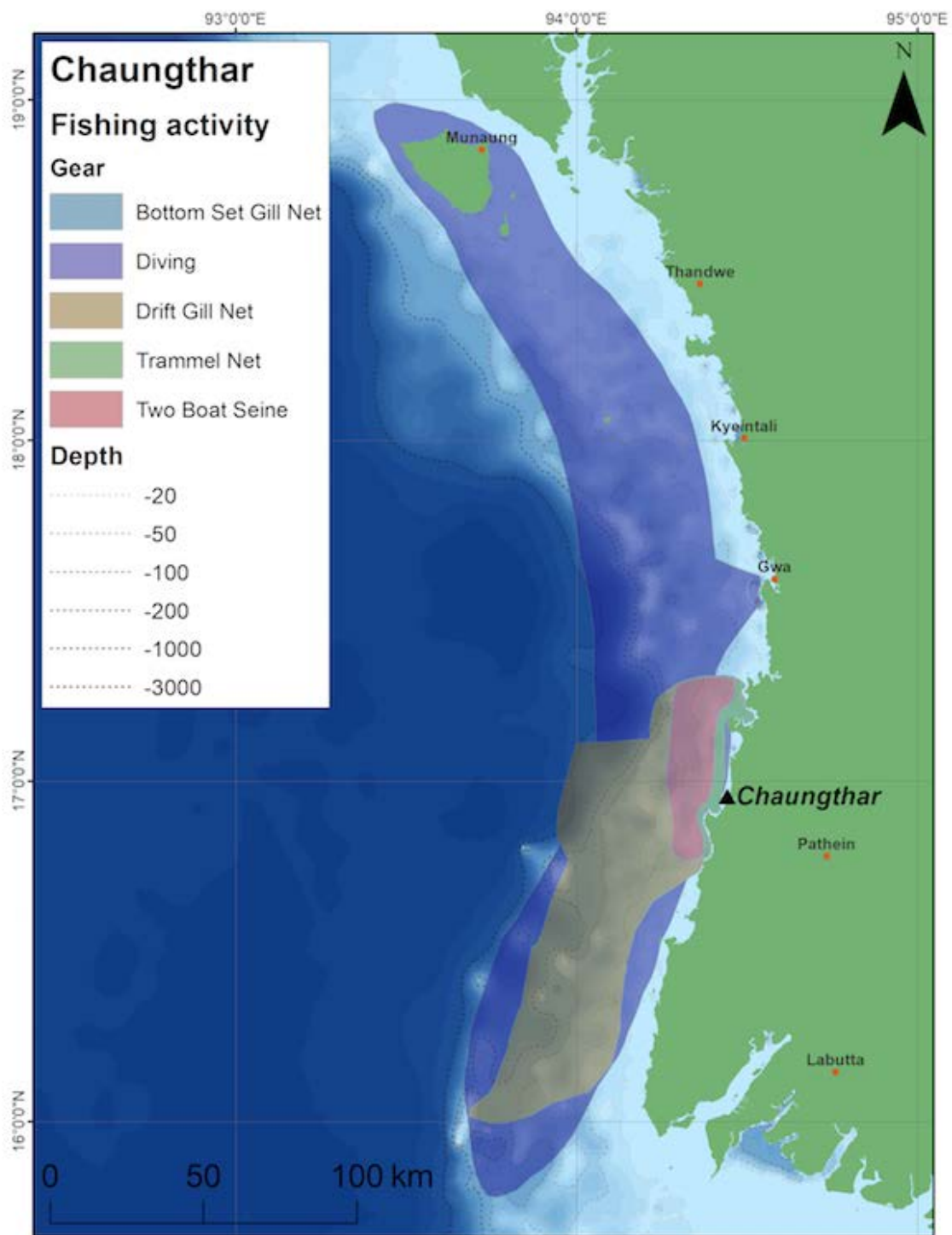


Figure A-2. Activity distribution map of fishing gears utilized in Chaungthar village.

## 2. Hainggyikyun

Village Tract:

Township: Hainggyikhun

Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
2,774	685	25%	48	7%	140

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Trammel Net	28	48%
Drift Gill Net	1	2%
Set Gill Net	1	2%
Beach Seine	13	22%
Bottom Set Gill Net	3	5%
Bottom Long Line	7	12%
Pelagic Long Line	3	5%
Push Net	2	3%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	44	1,000,000	96,000	12,000,000	72%	1,389,286	96,000	18,000,000
Crew	24	1,200,000	96,000	2,820,000	92%	1,300,000	96,000	4,500,000
Owner	20	3000000	120,000	12,000,000	83%	3,600,000	160,000	18,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	Yes	Primary School	Yes	Restaurant	Yes
Bank	Yes	Middle School	Yes	Tea shop	Yes
Public transport (bus sta.)	Yes	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	Yes	Fish storage facility	No
General market	Yes	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	Yes	Guest house	Yes
		Midwife	Yes	Community building	Yes
		Nurse	Yes	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 18.8% (n = 48)					

<sup>1</sup>Source: fisher HH surveys



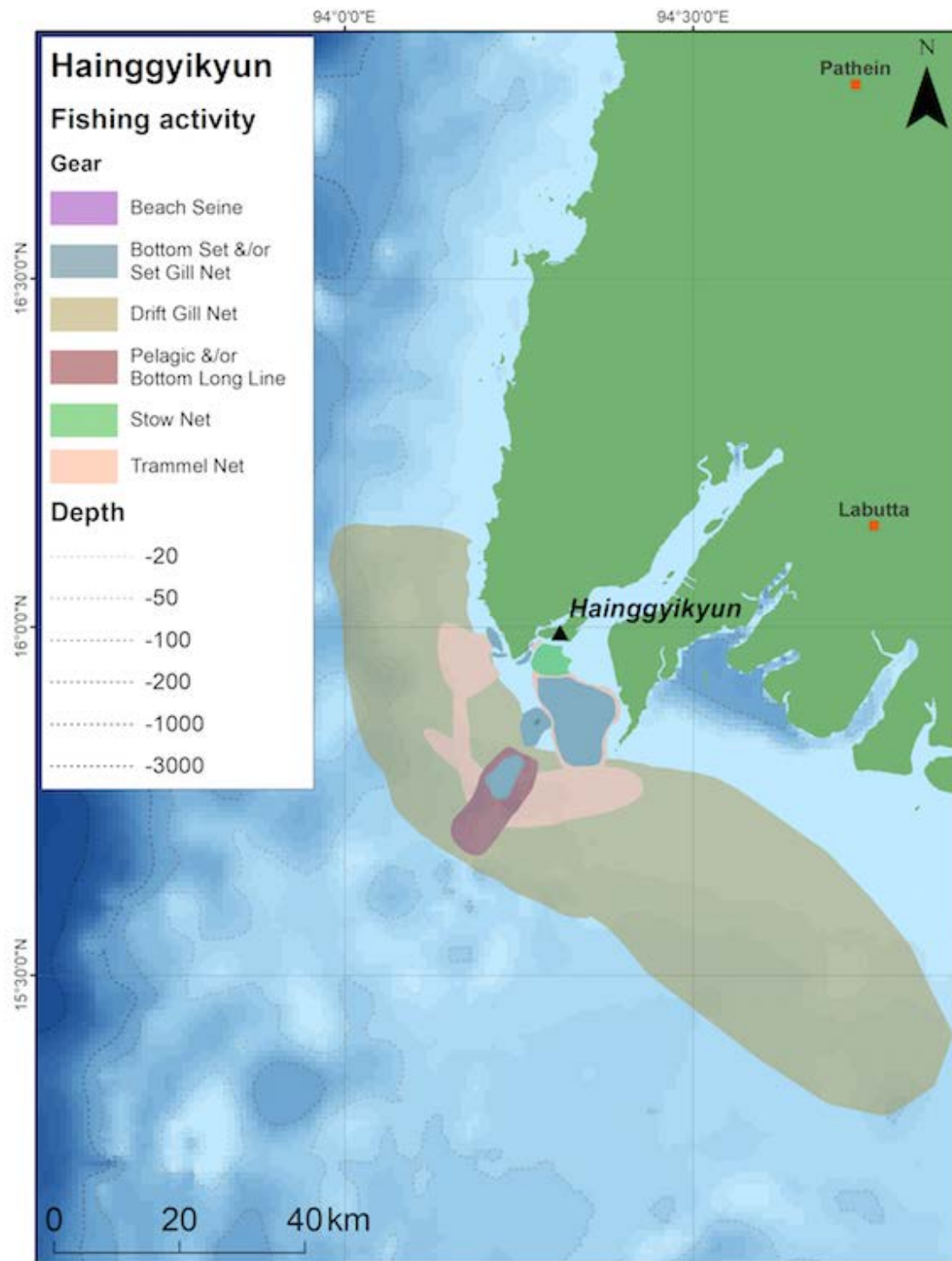


Figure A-3. Activity distribution map of fishing gears utilized in Hainggyikyun village.



### 3. Kangyaing

Village Tract: Kangyaing  
Township: Hainggyikhun  
Region: Ayeyarwady

#### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
1,050	550	52%	56	10%	186

#### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Trammel Net	31	47%
Drift Gill Net	10	15%
Beach Seine	1	2%
Other	11	17%
Bottom Long Line	1	2%
Stow Net	11	17%
Hand Line	1	2%

#### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	52	1,640,000	200,000	27,000,000	91%	1,800,000	200,000	27,000,000
Crew	20	1,200,000	240,000	3,883,333	92%	1,300,000	300,000	8,000,000
Owner	32	3,000,000	200,000	27,000,000	83%	3,600,000	200,000	27,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

#### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	Yes
Bank	No	Middle School	Yes	Tea shop	Yes
Public transport (bus sta.)	No	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	Yes	Fish market	Yes
Library	Yes	General practitioner (doctor)	No	Guest house	No
		Midwife	Yes	Community building	Yes
		Nurse		Monastery	Yes

% of interviewed HH with electricity<sup>1</sup>: 1.8% (n = 56)

<sup>1</sup>Source: fisher HH surveys

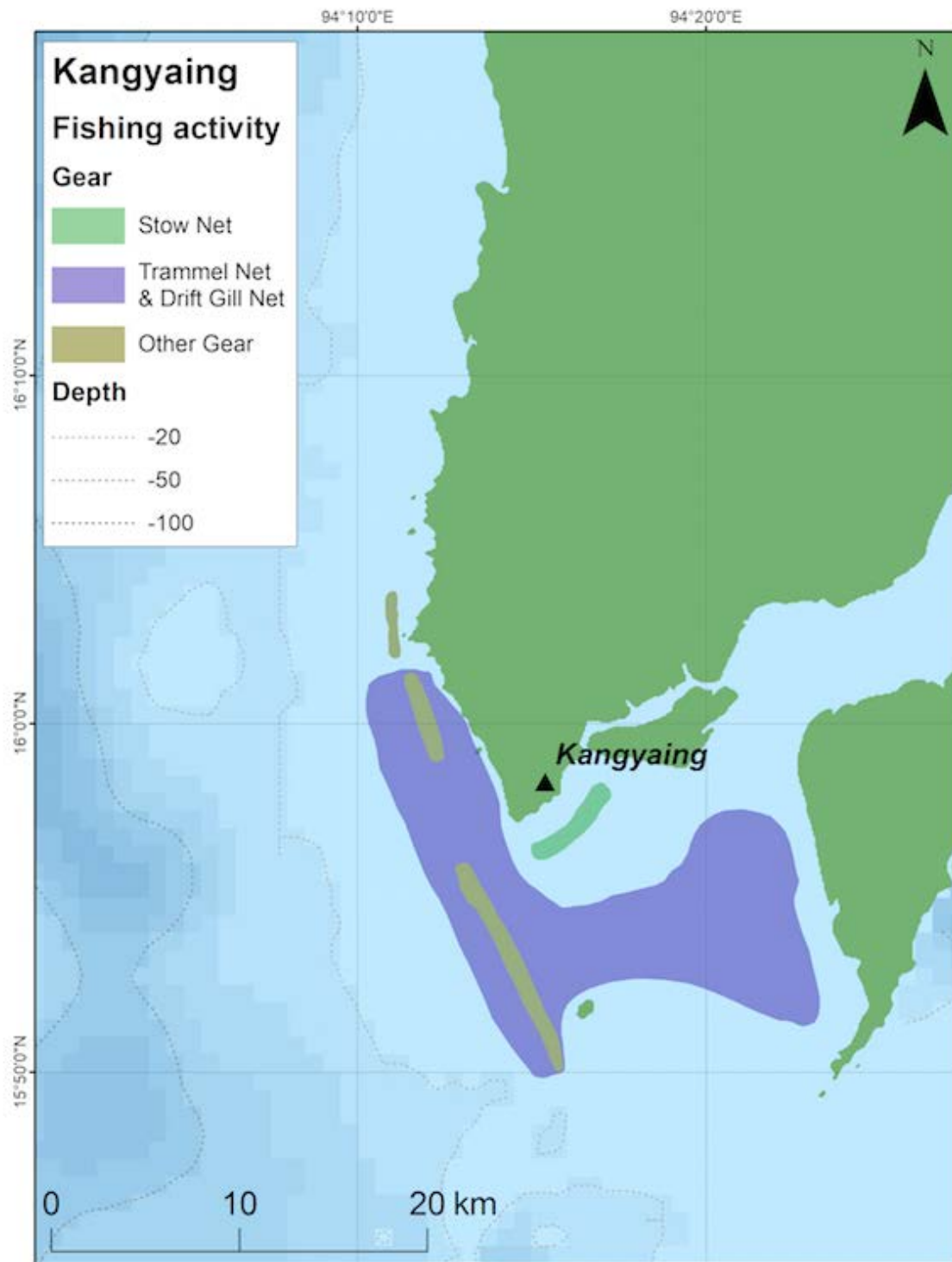


Figure A-4. Activity distribution map of fishing gears utilized in Kangyaing village.

## 4. Kyaukchun

Village Tract: Talaunggyi  
Township: Gwa  
Region: Rakhine

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
320	423	132%*	36	9%	57

\* The total number of fisher HHs is greater than the total number of HHs in the village due to the (unexpected) presence of migrant fisher HHs in these communities at the time of surveying.

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Two Boat Seine	30	81%
Bottom Set Gill Net	2	5%
Diving	5	14%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	36	1,200,000	290,000	22,925,000	80%	1,500,000	320,000	28,656,250
Crew	27	1,200,000	320,000	4,800,000	92%	1,300,000	320,000	6,000,000
Owner	9	3,000,000	290,000	22,925,000	83%	3,600,000	362,500	28,656,250

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	Yes
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	No	High School	No	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	No	Fish market	No
Library	Yes	General practitioner (doctor)	No	Guest house	No
		Midwife	No	Community building	No
		Nurse	Yes	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 16.6% (n = 36)					

<sup>1</sup>Source: fisher HH surveys

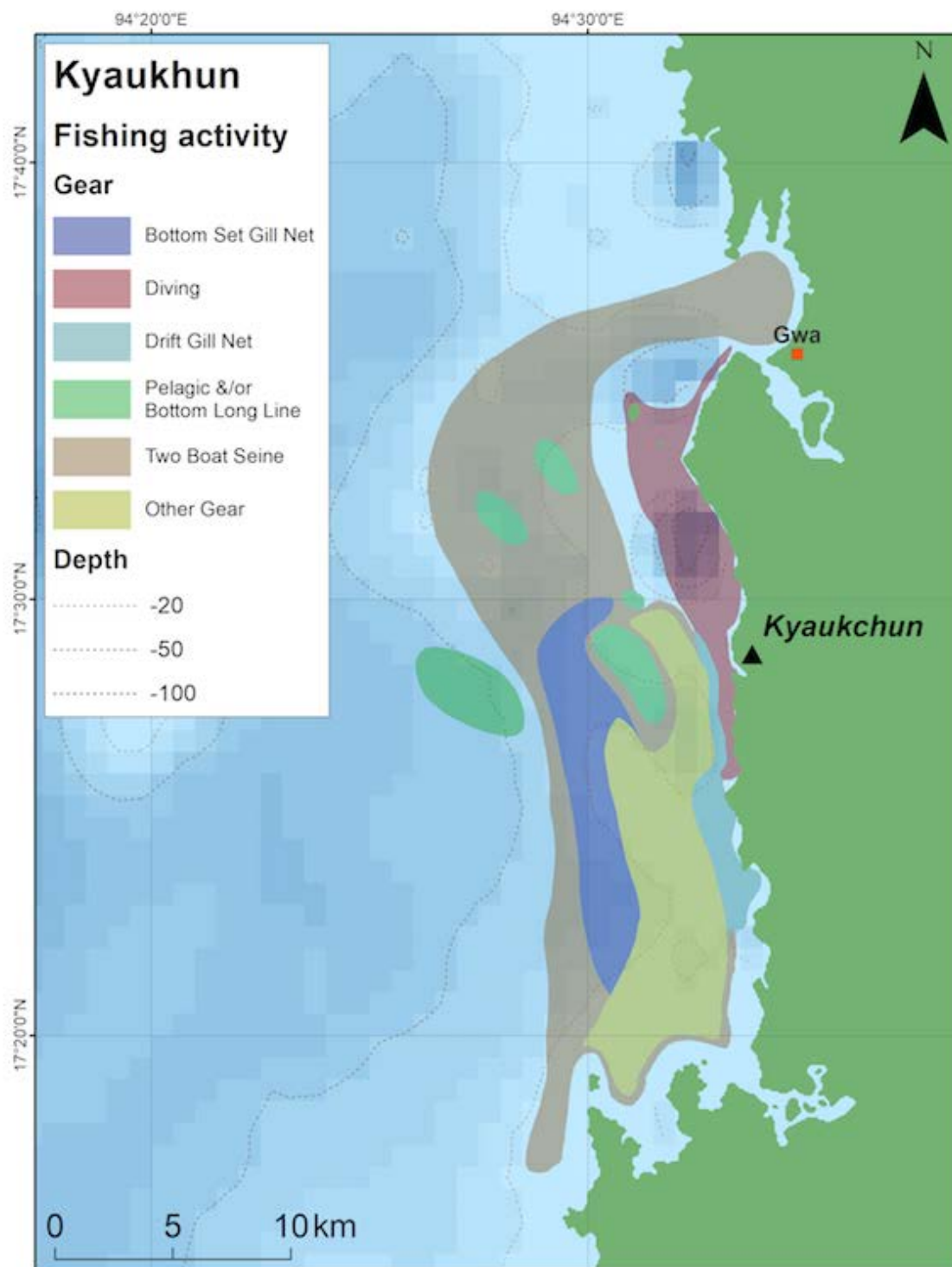


Figure A-5. Activity distribution map of fishing gears utilized in Kyaukhun village.

## 5. Makyayngu

Village Tract: Makyayngu  
Township: Gwa  
Region: Rakhine

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
315	349	111%*	37	11%	83

\* The total number of fisher HHs is greater than the total number of HHs in the village due to the (unexpected) presence of migrant fisher HHs in these communities at the time of surveying.

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Two Boat Seine	12	30%
Drift Gill Net	2	5%
Long Line	11	28%
Bottom Set Gill Net	1	3%
Diving	12	30%
Snail Trap	2	5%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	36	2,400,000	400,000	30,000,000	80%	3,000,000	400,000	30,000,000
Crew	26	1,200,000	480,000	30,000,000	92%	1,300,000	600,000	30,000,000
Owner	10	3,000,000	400,000	29,550,000	83%	3,600,000	400,000	29,550,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	Yes
Bank	No	Middle School	Yes	Tea shop	No
Public transport (bus sta.)	No	High School	No	Fish processing facility	No
Petrol station	Yes	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	No	Fish market	No
Library	No	General practitioner (doctor)	No	Guest house	No
		Midwife	Yes	Community building	No
		Nurse	No	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 44.4% (n = 36)					

<sup>1</sup>Source: fisher HH surveys

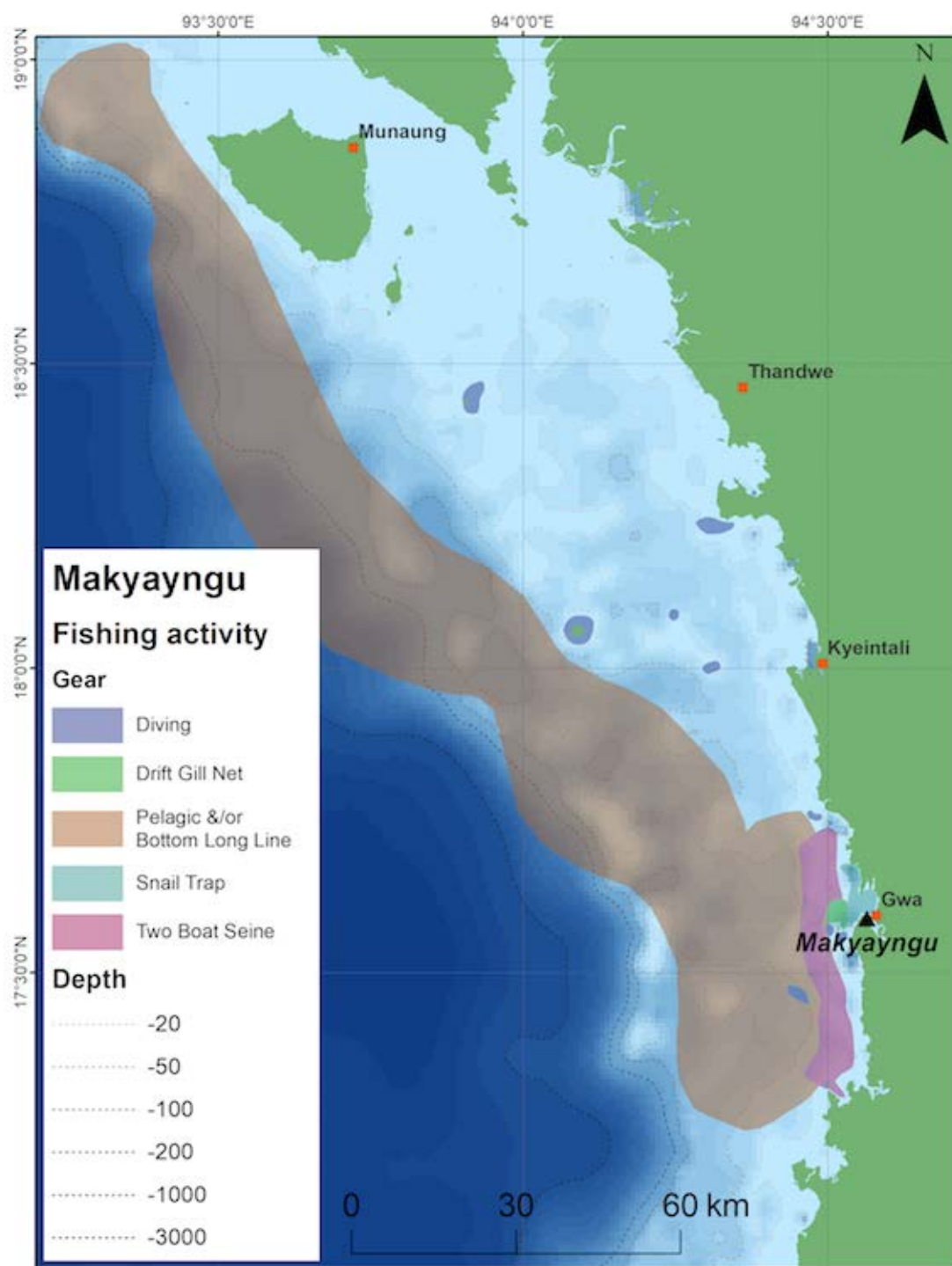


Figure A-6. Activity distribution map of fishing gears utilized in Makyayngu village.

## 6. Nathabu

Village Tract: Nathabu  
Township: Ngayokkaung  
Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
347	242	70%	31	13%	54

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Two Boat Seine	12	29%
Drift Gill Net	6	15%
Set Gill Net	12	29%
Long Line	7	17%
Diving	1	2%
Fish Pot	3	7%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	31	1,400,000	500,000	22,644,667	82 %	1,714,286	500,000	28,305,833
Crew	15	1,200,000	500,000	8,000,000	92%	1,300,000	500,000	8,000,000
Owner	16	3,000,000	914,533	22,644,667	83%	3,600,000	1,000,000	28,305,833

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	Yes
Bank	No	Middle School	Yes	Tea shop	Yes
Public transport (bus sta.)	No	High School	No	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	No	Guest house	Yes
		Midwife	Yes	Community building	Yes
		Nurse	Yes	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 9.7% (n = 31)					

<sup>1</sup>Source: fisher HH surveys



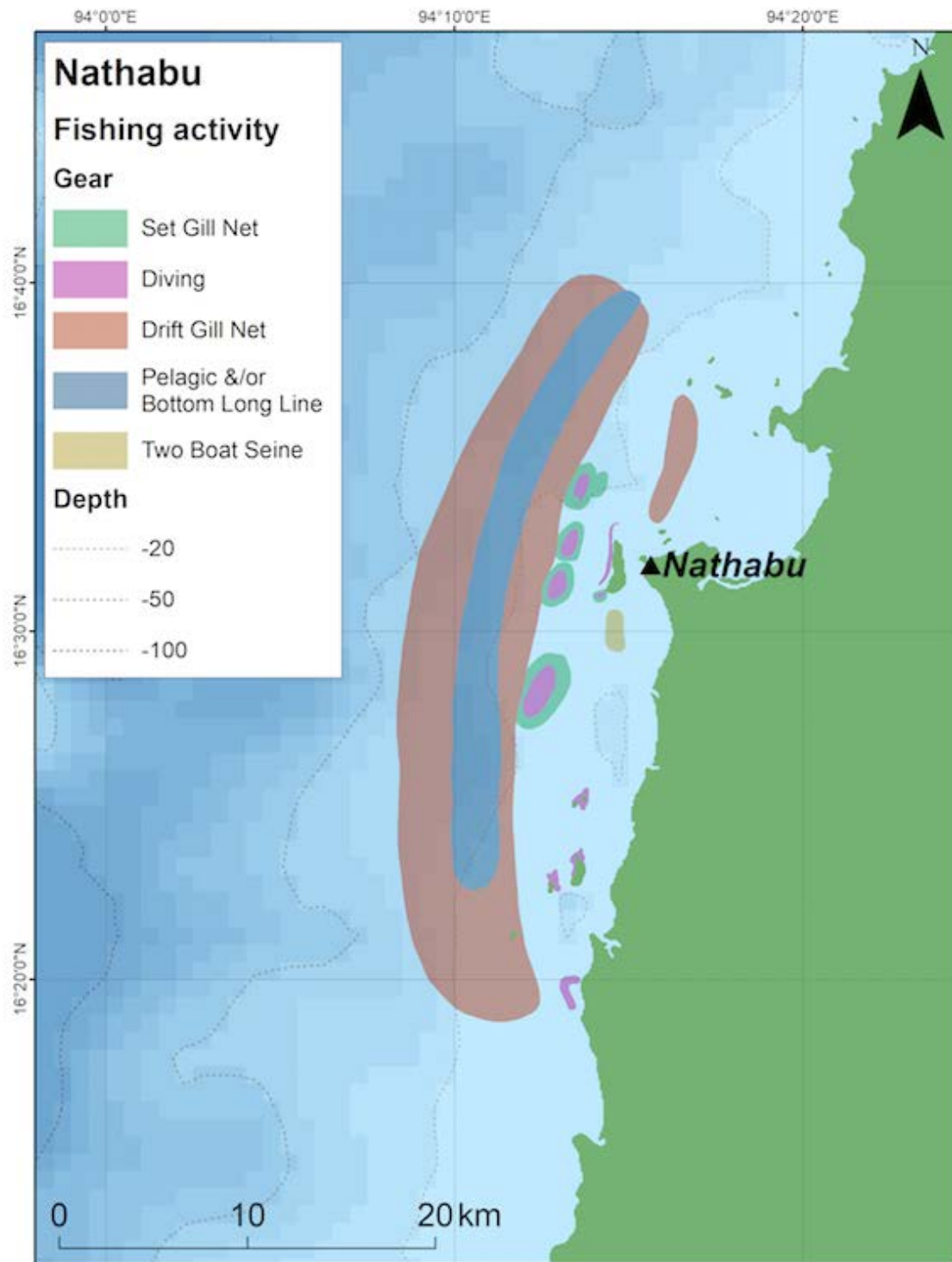


Figure A-7. Activity distribution map of fishing gears utilized in Nathabu village.

## 7. Ngayokkaung

Village Tract:

Township: Ngayokkaung

Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
741	404	55%	54	13%	111

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Trammel Net	12	8%
Drift Gill Net	6	10%
Set Gill Net	12	49%
Beach Seine	7	7%
Long Line	1	25%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	54	2,050,000	490,000	36,000,000	85 %	2,400,000	490,000	36,000,000
Crew	36	1,200,000	490,000	7,200,000	92%	1,300,000	490,000	7,200,000
Owner	18	3,000,000	1,050,000	36,000,000	83%	3,600,000	1,050,000	36,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	Yes	Primary School	No	Restaurant	Yes
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	Yes	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	Yes	Fish storage facility	No
General market	Yes	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	Yes	Guest house	Yes
		Midwife	Yes	Community building	Yes
		Nurse	Yes	Monastery	Yes

% of interviewed HH with electricity<sup>1</sup>: 20.4% (n = 54)

<sup>1</sup>Source: fisher HH surveys

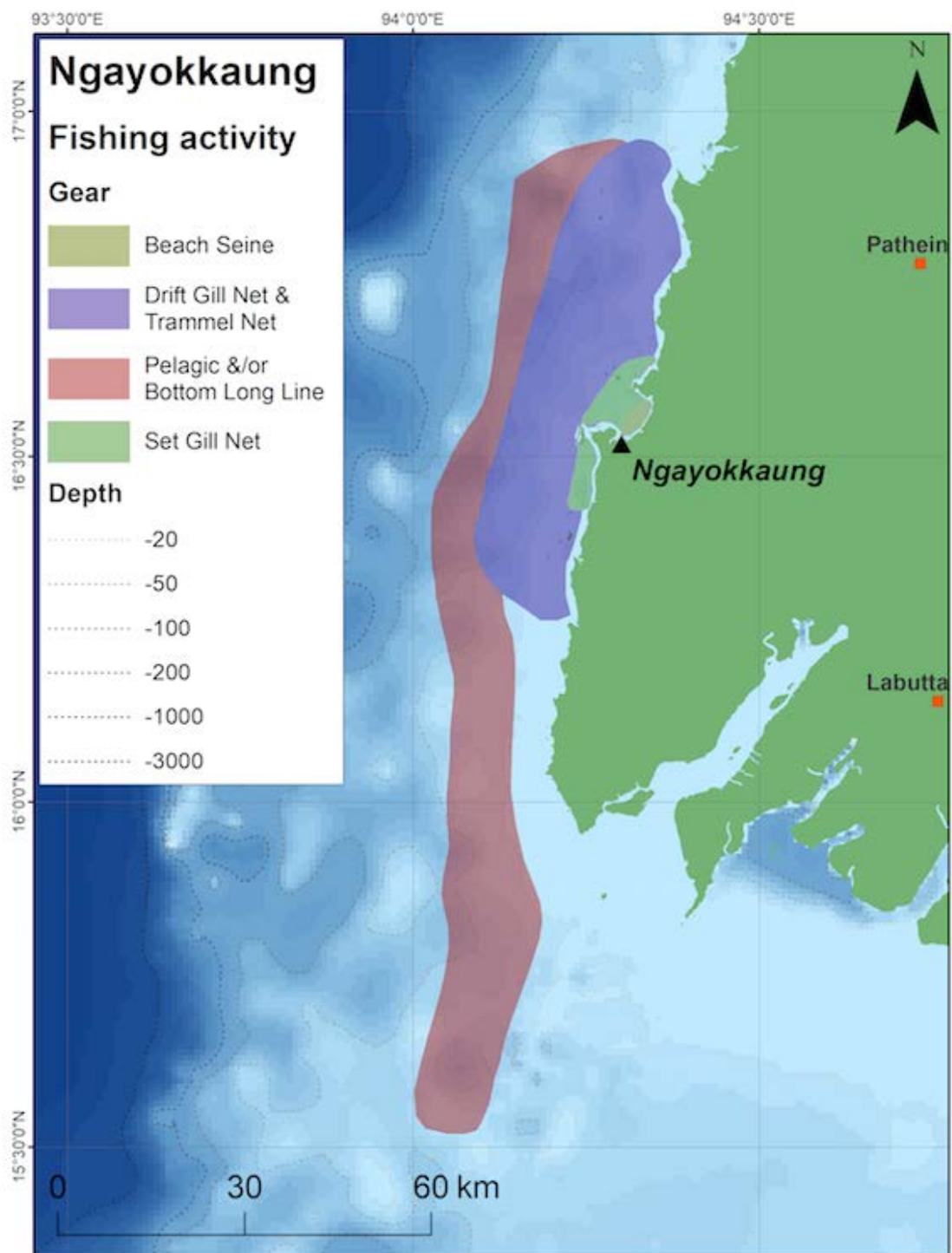


Figure A-8. Activity distribution map of fishing gears utilized in Ngayokkaung village.

## 8. Panhmaw

Village Tract: Panhmaw  
 Township: Ngayokkaung  
 Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
260	250	96%	45	18%	35

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Drift Gill Net	9	20%
Set Gill Net	10	22%
One Boat Seine	25	54%
Beach Seine	1	2%
Fish Pot	1	2%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	45	1,050,000	100,000	18,000,000	88%	1,200,000	100,000	30,000,000
Crew	28	1,200,000	100,000	3,600,000	92%	1,300,000	100,000	6,000,000
Owner	17	3,000,000	420,000	18,000,000	83%	3,600,000	420,000	30,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	No	Restaurant	No
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	No	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	No	Guest house	No
		Midwife	Yes	Community building	Yes
		Nurse	No	Monastery	Yes

% of interviewed HH with electricity<sup>1</sup>: 13.3% (n = 45)

<sup>1</sup>Source: fisher HH surveys

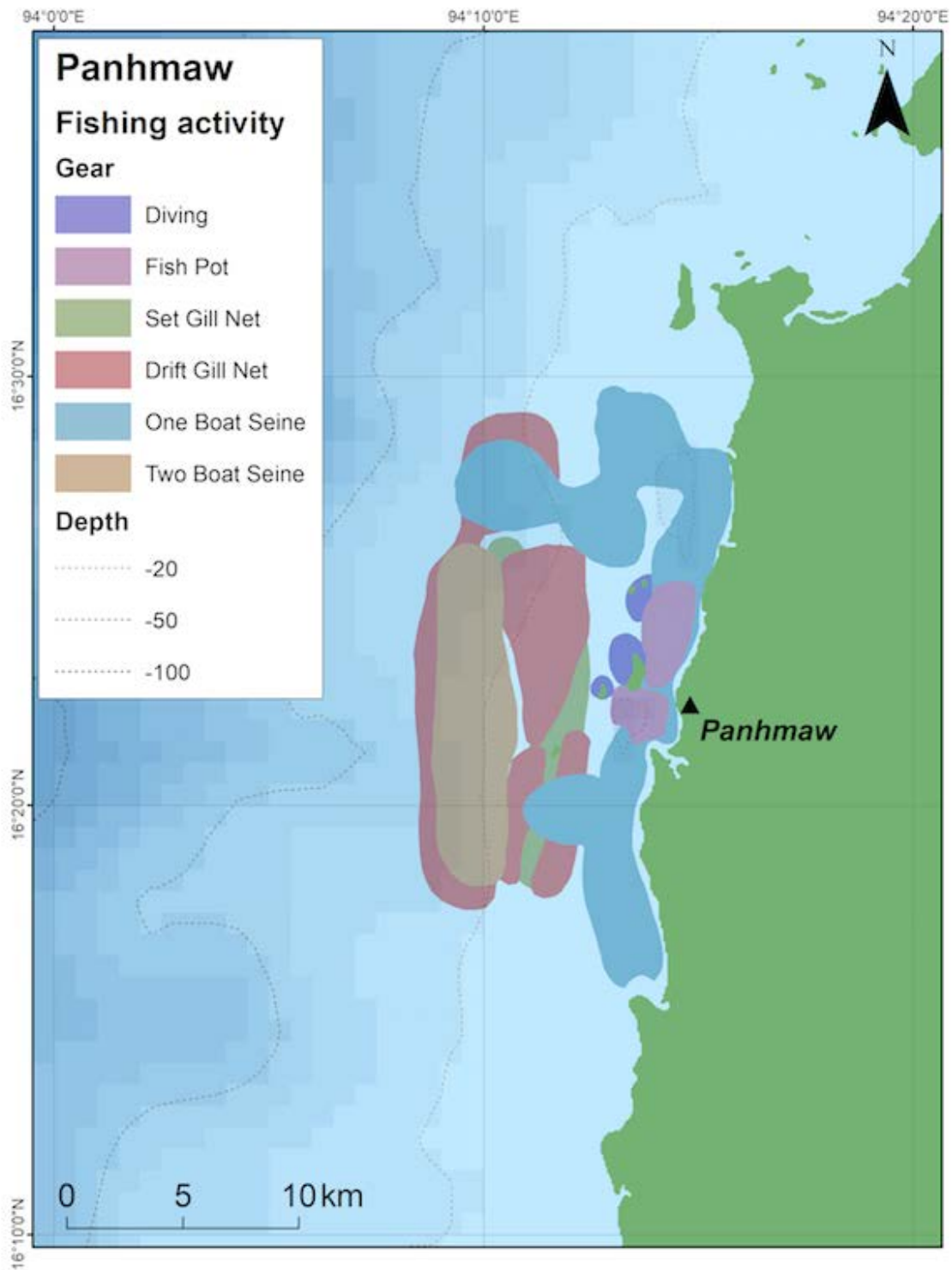


Figure A-9. Activity distribution map of fishing gears utilized in Panhmaw village.

## 9. Sinma

Village Tract: Sinma  
Township: Shwethaungyan  
Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
330	320	97%	36	11%	53

### Fishing Gears (some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Trammel Net	24	40%
Drift Gill Net	5	8%
Set Gill Net	2	3%
Other	17	28%
Bottom Set Gill Net	5	8%
Diving	2	3%
Bottom Long Line	2	3%
Fish Pot	1	2%
Hand Line	2	3%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	32	2,895,000	246,333	61,038,667	83%	3,490,000	328,444	135,112,000
Crew	11	1,200,000	800,000	3,600,000	92%	1,300,000	840,000	4,800,000
Owner	21	3,000,000	246,333	61,038,667	83%	3,600,000	328,444	135,112,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	Yes	Primary School	Yes	Restaurant	Yes
Bank	No	Middle School	Yes	Tea shop	Yes
Public transport (bus sta.)	Yes	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	No	Guest house	No
		Midwife	Yes	Community building	Yes
		Nurse	Yes	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 5.6% (n = 36)					

<sup>1</sup>Source: fisher HH surveys

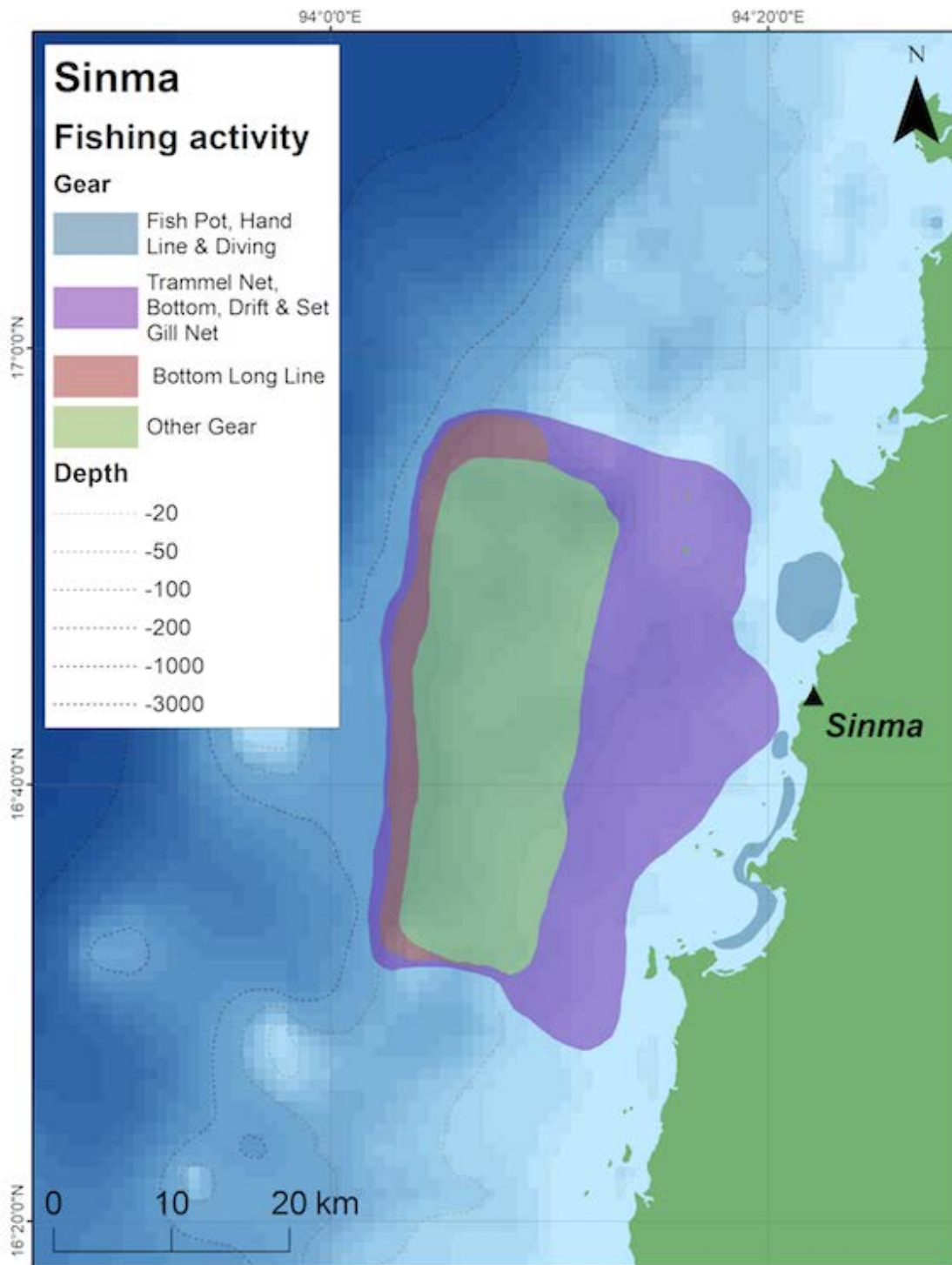


Figure A-10. Activity distribution map of fishing gears utilized in Sinma village.



## 10.Talaunggyi

Village Tract: Talaunggyi  
Township: Gwa  
Region: Rakhine

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
112	100	89%	10	10%	10

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
One Boat Seine	24	80%
Beach Seine	5	20%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	10	1,383,741	30,000	6,000,000	49 %	2,829,741	150,000	20,000,000
Crew	2	1,200,000	30,000	800,000	92%	1,300,000	150,000	1,333,333
Owner	8	3,000,000	320,000	6,000,000	83%	3,600,000	533,333	20,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	No
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	No	High School	No	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	No	Fish market	No
Library	No	General practitioner (doctor)	No	Guest house	No
		Midwife	No	Community building	No
		Nurse	No	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 0.0% (n = 10)					

<sup>1</sup>Source: fisher HH surveys

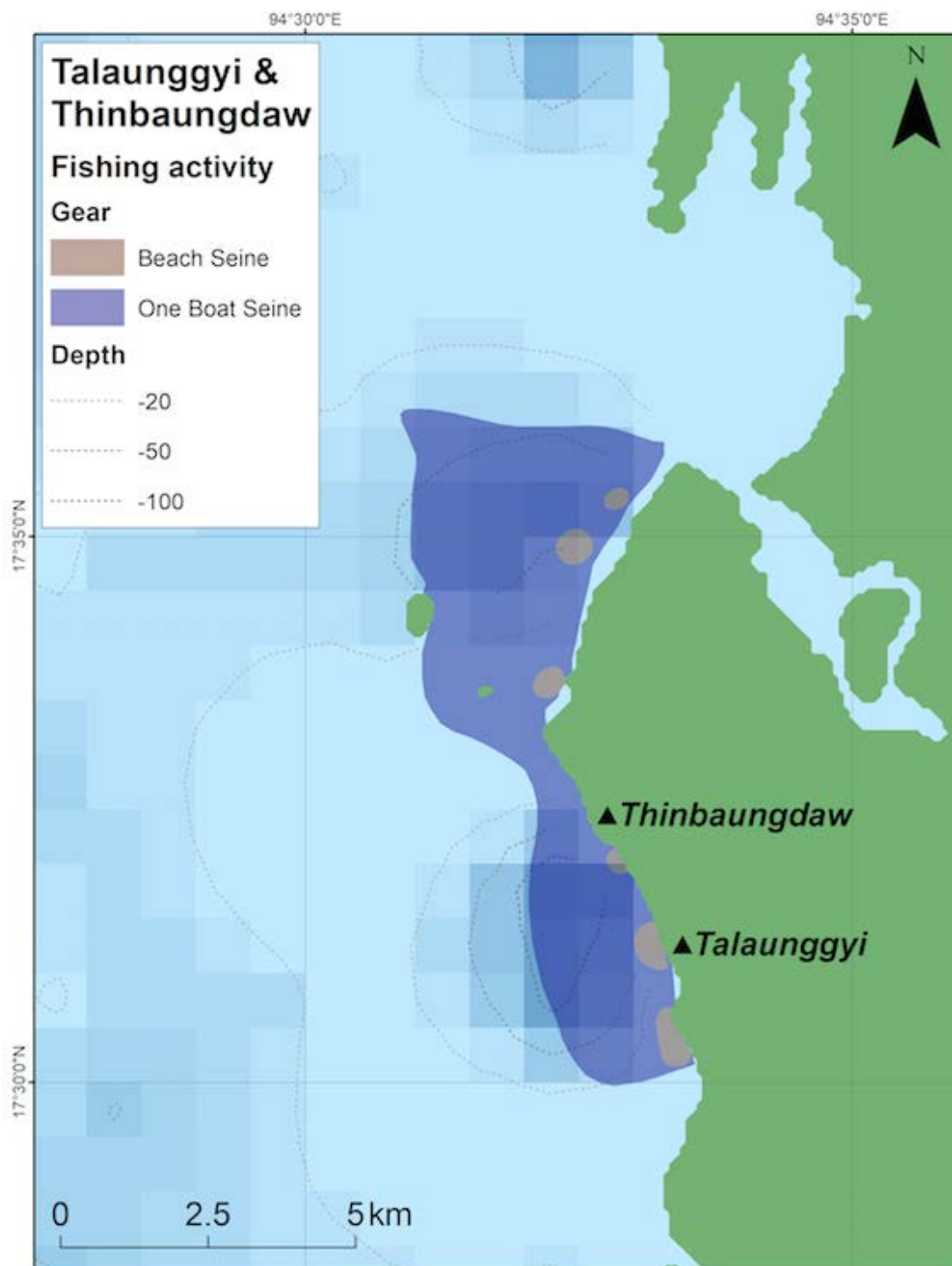


Figure A-11. Activity distribution map of fishing gears utilized in Talaunggyi and Thinbaungdaw villages.

## 11.Tazin

Village Tract: Tazin  
Township: Shwethaungyan  
Region: Ayeyarwady

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
1,455	669	46%	44	7%	105

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Two Boat Seine	21	40%
Drift Gill Net	9	17%
Beach Seine	3	6%
Bottom Set Gill Net	15	28%
Bottom Long Line	1	2%
Pelagic Long Line	4	8%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	44	2,006,250	175,000	50,000,000	80 %	2,506,250	520,000	50,000,000
Crew	20	1,200,000	175,000	10,000,000	92 %	1,300,000	520,000	10,500,000
Owner	24	3,000,000	550,000	50,000,000	83%	3,600,000	550,000	50,000,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	No
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	No	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	Yes	Fish market	No
Library	No	General practitioner (doctor)	No	Guest house	No
		Midwife	Yes	Community building	Yes
		Nurse	No	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 43.2% (n = 44)					

<sup>1</sup>Source: fisher HH surveys

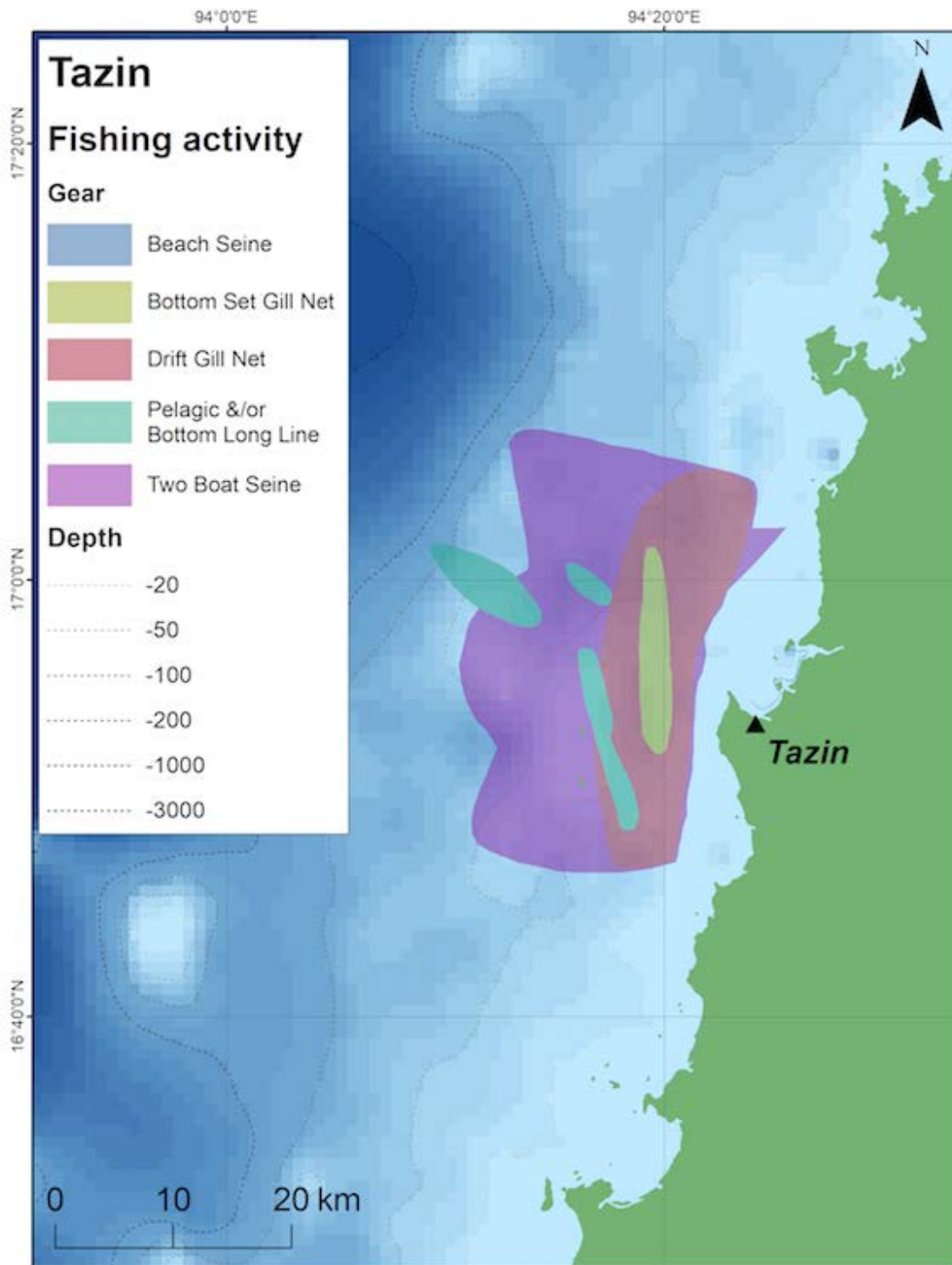


Figure A-12. Activity distribution map of fishing gears utilized in Tazin village.

## 12.Thinbaungdaw

Village Tract: Talaunggyi

Township: Gwa

Region: Rakhine

### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
45	36	80%	9	25%	4

### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Drift Gill Net	3	33%
Beach Seine	6	67%

### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	8	384,667	120,000	3,850,000	20 %	1,941,667	533,333	7,700,000
Crew	4	1,200,000	120,000	320,000	92%	1,300,000	533,333	3,200,000
Owner	4	3,000,000	449,333	3,850,000	83%	3,600,000	641,905	7,700,000

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	Yes	Restaurant	No
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	No	High School	No	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	No	Fish market	No
Library	No	General practitioner (doctor)	No	Guest house	No
		Midwife	No	Community building	No
		Nurse	No	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 22.2% (n = 9)					

<sup>1</sup>Source: fisher HH surveys

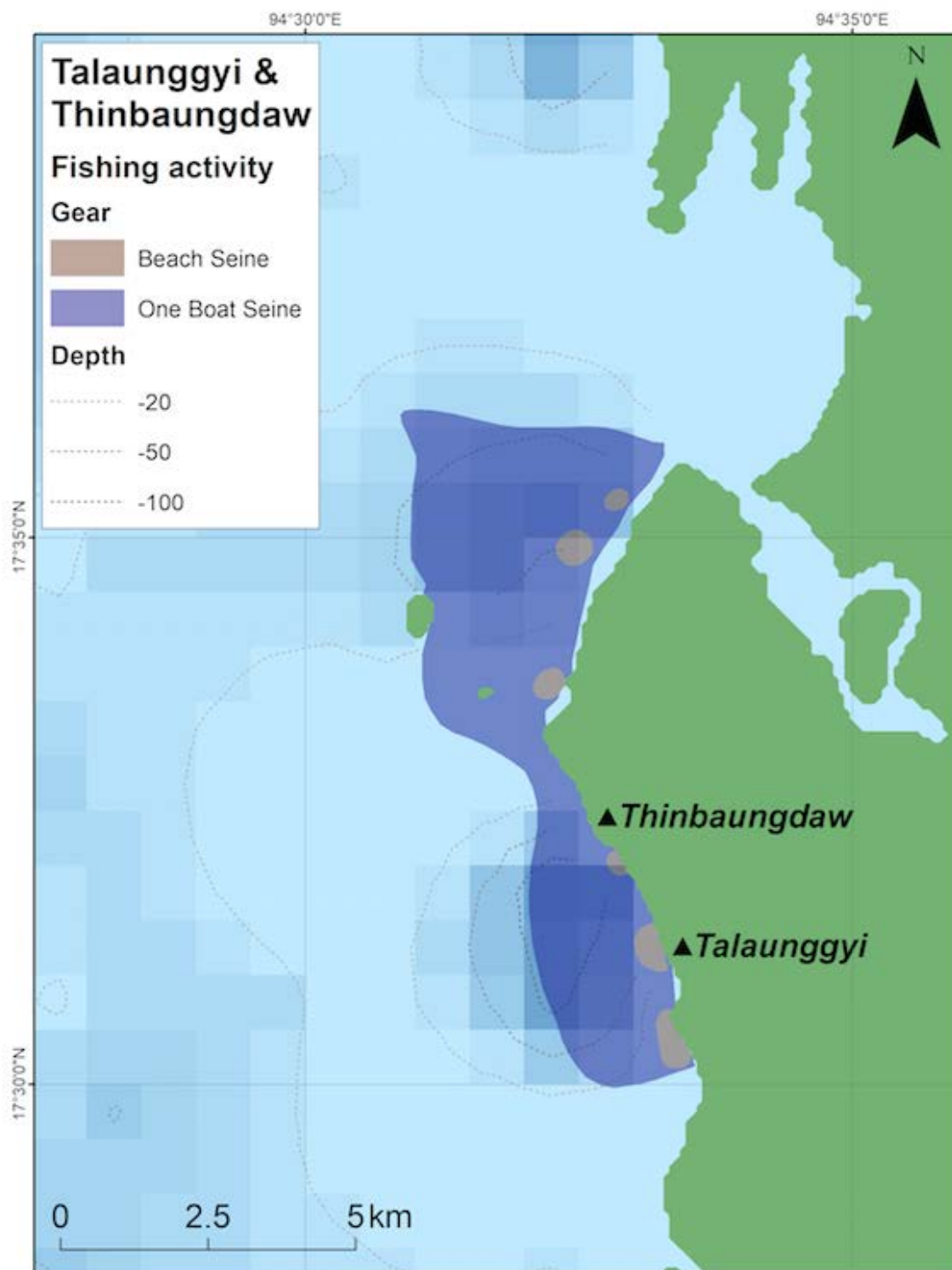


Figure A-13. Activity distribution map of fishing gears utilized in Talaunggyi and Thinbaungdaw villages.

### 13.Thityaung

Village Tract: Thityaung  
Township: Ngayokkaung  
Region: Ayeyarwady

#### Village Household Information

Total # HH	Total # Fisher HH	% Fisher HH of total	# Fisher HH Sampled	% Fisher HH interviewed	# inshore fishing boats
568	430	76%	40	9%	67

#### Fishing Gears

(some fishers may use multiple gear types)

Gear type	Fishers interviewed	
	#	%
Two Boat Seine	25	60%
Drift Gill Net	1	2%
Set Gill Net	1	2%
One Boat Seine	15	36%

#### Annual fisheries earnings (net) and total annual household income (Myanmar kyat).

Group	n	Annual Fisheries Earnings (MMK)			% income from fisheries	Total Annual HH Income (MMK)		
		Median	Min.	Max.		Median	Min.	Max.
All *	39	1,200,000	75,000	24,000,000	100%	1,200,000	75,000	34,285,714
Crew	30	1,200,000	75,000	3,500,000	92%	1,300,000	75,000	4,200,000
Owner	9	3,000,000	900,000	24,000,000	83%	3,600,000	900,000	34,285,714

Note: n in this table may be less than the total number of HHs interviewed in this village, as some fishers did not provide data that was reliable enough to calculate net income.

#### Community Assets (from key informant interviews)

Infrastructure		Education and Health		Services	
Police Office	No	Primary School	No	Restaurant	Yes
Bank	No	Middle School	No	Tea shop	Yes
Public transport (bus sta.)	No	High School	Yes	Fish processing facility	No
Petrol station	No	Hospital	No	Fish storage facility	No
General market	No	Community medical clinic	Yes	Fish market	No
Library	Yes	General practitioner (doctor)	Yes	Guest house	No
		Midwife	Yes	Community building	Yes
		Nurse	No	Monastery	Yes
% of interviewed HH with electricity <sup>1</sup> : 2.5% (n = 40)					

<sup>1</sup>Source: fisher HH surveys



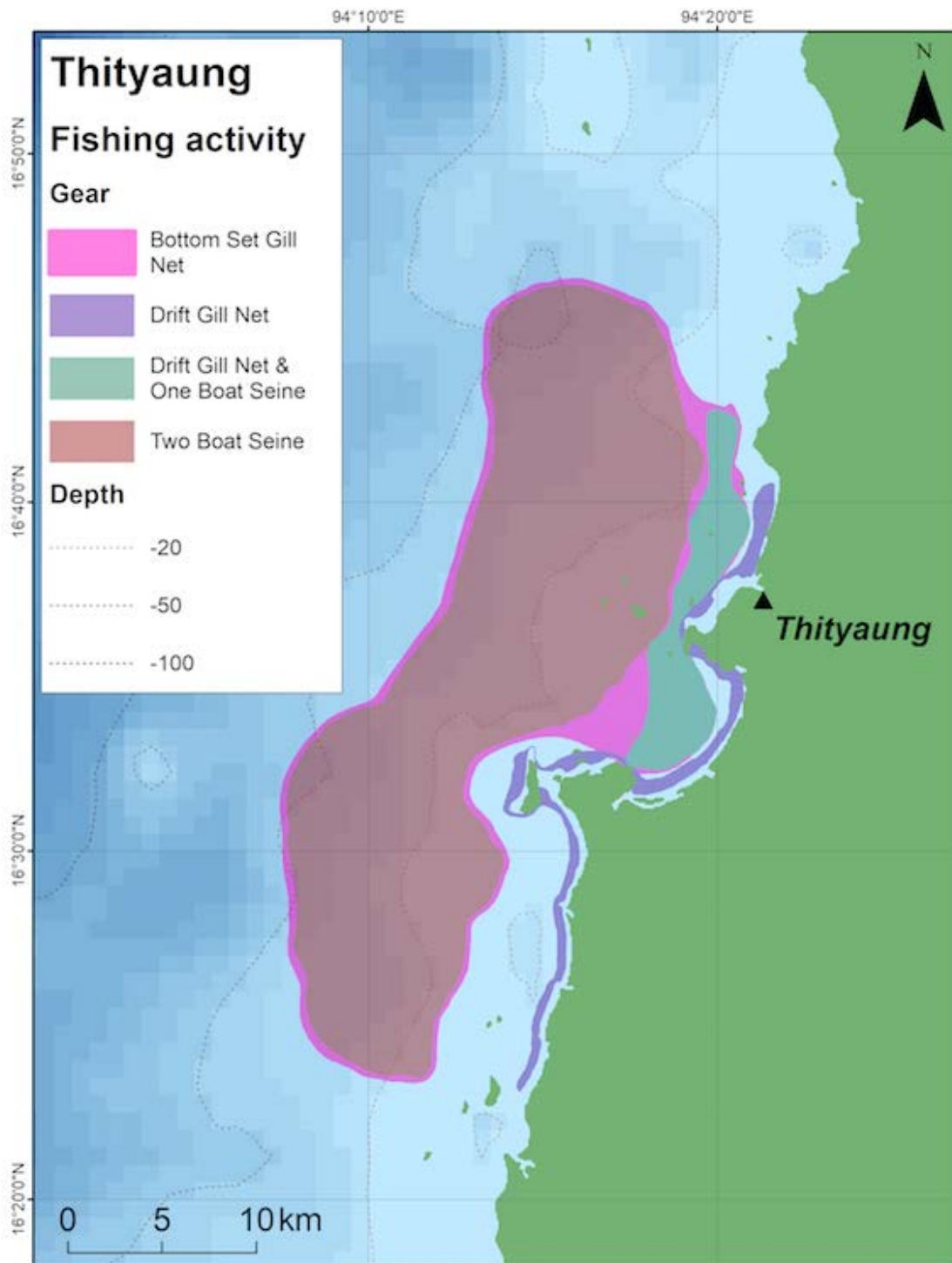


Figure A-14. Activity distribution map of fishing gears utilized in Thityaung village.

## **Annex 2. Data Collection Questionnaires and Templates**

1. ***Key Informant Site Survey:*** Village/community level information
2. ***Fishers Participatory Mapping Workshop:*** Village/community level information
3. ***Fishers Household Survey:*** Socio-economic information of fisher households
4. ***Trader Household Survey:*** Socio-economic information of fishing related occupation households
5. ***Offshore fisheries survey:*** Fisheries and spatial use information

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**1. Key informant site survey: Village/community level information**

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The purpose of the survey is to provide socio-economic data on the inshore fisheries of the Mawtin Coast (from Gwa to Mawtin Point), to help understand fishing practices and how they contribute to households within the communities. These will contribute to baseline data that will assist in the design of future development plans in the area, while making local fisheries and marine resource use more sustainable.

**Participant****UNIQUE IDENTIFIER:**

Date:		Interviewer:	
Interview Location:	Township: _____ Sub-township: _____ Village Tract: _____ Village: _____		
Interviewee Details:			
Male / Female	Occupation of respondent: _____ _____ _____	Geographical area covered by respondent: _____ _____ _____ _____ _____ _____	

**Village / fishing community**

1. How many people live in the community? Estimation: _____ people  or Estimation: _____ households		2. How many are fishers? Estimation: _____ fishers  or Estimation: _____ fisher households	
3. How many boats are in the community?	Estimation: _____ boats	4. How many boats are offshore and inshore?	Estimation: _____ offshore Estimation: _____ inshore
5. Does every fisher live here all year? (tick box)  Yes <input type="checkbox"/> No <input type="checkbox"/>	6. If No, how many fishers come from other places?		_____ fishers

<b>7. Where do the other fishers come from?</b> (e.g. Thai, Myeik)	<hr/> <hr/> <hr/>	
<b>8. How long do they stay?</b>  <b>What time of year do they come?</b>	<hr/> <hr/> From: _____ until _____	
<b>9. What other occupations do people do in this community?</b>    <b>Which are most important?</b>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	
<b>10. What are the main occupations/jobs women do?</b>	<hr/> <hr/> <hr/> <hr/>	
<b>11. Are there any women who go fishing?</b>	<b>Yes / No</b>	<b>12. If yes, how many do the following:</b> Boat fishing _____ Shore fishing _____ Gleaning (nearshore) _____ Others: _____ _____ Notes (e.g. gear type):



[illegible]

### Fishing gear and activity

	Gear Type	✓	Whale shark	Turtle	Dugong	Dolphin/porpoise	Shark	Ray
15. What type of fishing gears are used here? (tick)								
16. Which gears are whale shark found in? (tick)								
17. Which gears are turtles found in? (tick)								
18. Which gears are dugongs found in? (tick)								
19. Which gears are dolphins/porpoise found in? (tick)								
20. Which gears are sharks/rays found in? (tick)								
	Purse seine							
	Long line							
	Trammel net							
	Beach seine							
	Drift gill net							
	Set net							
	Bag/stawl net							
	Baby Trawler							
	Other:							

**21. Does any other type or method of fishing take place apart from the gears we have already talked about?** (e.g. hooker, spear, dynamite, mosquito net, poison etc.)

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**22. Do you ever see or catch sawfish?** (tick box) Yes ☐ No ☐

**When was the last time you saw or caught one?** (how many years ago?)

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**22b. Do you ever see saltwater crocodiles?** (tick box) Yes ☐ No ☐

**Where and when was the last time you saw one?** (how many years ago? Which month or season?)

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**22c. Have you ever seen/heard of sea turtles nesting on local beaches?** (tick box) Yes ☐ No ☐

**If yes, on which beaches and when was the last time you saw or heard of them nesting?** (how many years ago? Which month or season?)

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## Management of fisheries resources

**22. Are there any formal rules (e.g. state or national policy) about where, how or what species people can fish? If so, what are they?**

[illegible]

**23. Are there any traditional rules or community agreements (e.g. in village or area) about where, how or what species people can fish? If so, what are they?**

[illegible]

**24. How sustainable do you think the fishery is? Why?**

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## Threats to fishing activities

25. What do you think the THREE main threats are to the community's fishery? And how can they be overcome/fixed?

1. \_\_\_\_\_

Fix: \_\_\_\_\_

2. \_\_\_\_\_

Fix: \_\_\_\_\_

3. \_\_\_\_\_

Fix: \_\_\_\_\_

[illegible]

27. Are there traditional gender roles within the family or community? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

28. Who typically controls the finances in a household ?

**Village/community facilities \*\*\*TO BE COMPETED BY INTERVIEWER\*\*\***

**29. Which of these facilities are locally accessible?**

**If they are available, how many are there?**

If they are not available, estimate the distance to the nearest facility

Facility	Available (tick box)	If not available, distance to nearest (hrs by... foot/bicycle/car etc)
Primary School	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Middle School	Yes <input type="checkbox"/> No <input type="checkbox"/>	
High School	Yes <input type="checkbox"/> No <input type="checkbox"/>	
College	Yes <input type="checkbox"/> No <input type="checkbox"/>	
University	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Hospital	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Community medical clinic	Yes <input type="checkbox"/> No <input type="checkbox"/>	
General practitioner (Doctor)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Midwife	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Nurse	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Police Office	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Bank	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Restaurant	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Tea shop	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Petrol station	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Public transport (bus station)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
General market	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Fish processing facility	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Fish storage facility	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Fish market	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Guest house	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Library	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Community building	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Monastery	Yes <input type="checkbox"/> No <input type="checkbox"/>	

Other comments/notes:



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## 2. Fishers Participatory Mapping Workshop: Village/community level information

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Participants:

UNIQUE IDENTIFIER:

Date:		Conveners:	
Location:	Township: _____ Sub-township: _____ Village Tract: _____ Village: _____		
No. of participants: _____  Male: _____  Female: _____  Age range: ____ to ____ years		Landing site(s) used: _____ _____  Gear types used by participants: _____ _____ _____ _____	

Questions/statements to initiate the creation of community polygons on acetates placed over maps:

**MAP 1 (Large Scale)**

**Purse seine, long-line, and drift gillnet fisheries**

**1. Please draw on the map any features that are important to fishing in this area** (e.g. local landmarks, areas of different habitats (rocky, sandy), deep/shallow areas, etc.)

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

**2. Please draw a polygon on the map to indicate areas where people from this community fish using purse seine, long-line and drift gillnet gear?**

Use different colours for the three fishing gears and represent areas of very high density/use with a dotted line of the same colour

**Please write the months of the year in which the gears are used in the areas**

**Purse Seine** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Long-line** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Drift gillnet** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**3. Where do the purse seine, long-line, and drift gillnet fishers most often catch:**

Use different colours for each species and represent areas of very high catch with a dotted line of the same colour

**Turtles** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Dugongs** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Dolphins** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Porpoise** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Sharks** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Rays** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**Whale shark** Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**4. Please draw on the map any areas of competition or conflict? e.g. foreign vessels, migrant (Myanmar) fishers, commercial vessels**

Type of competition/conflict: \_\_\_\_\_

\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_

\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_

\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_

\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_

\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_

\_\_\_\_\_ Polygon colour = \_\_\_\_\_

**\*\*\*REMEMBER TO TAKE A PHOTOGRAPH OF EVERY ACETATE/PLASTIC SHEET THAT IS CREATED FOR EACH MAP\*\*\***

**MAP 2 (Small Scale)**

**All other fishing gear**

**1. Please draw on the map any features that are important to fishing in this area** (e.g. local landmarks, areas of different habitats (rocky, sandy), deep/shallow areas, etc.)

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

Landmark: \_\_\_\_\_ Polygon colour: \_\_\_\_\_

**2. Please draw a polygon on the map to indicate areas where people from this community fish using other gear types?**

Use different colours for each fishing gears and represent areas of very high density/use with a dotted line of the same colour

**Please write the months of the year in which the gears are used in the areas**

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

Gear type: \_\_\_\_\_ Polygon Colour = \_\_\_\_\_ Months = \_\_\_\_\_

**(\*\*\*IF MORE THAN 5 GEARS ARE DRAWN ON THE ACETATE/PLASTIC SHEET, THEN REPLACE / OR OVERLAY WITH A SECOND ACETATE/PLASTIC SHEET TO DRAW THE POLYGONS FOR BYCATCH AND CONFLICT AREAS.**

**REMEMBER TO LABEL EACH ACETATE WITH THE MAP NUMBER, UNIQUE ID, ACETATE NUMBER AND THE QUESTION NUMBERS EACH ACETATE/PLASTIC SHEET REPRESENTS\*\*\*)**



### 3. Using these gears where do the fishers most often catch:

Use different colours for each species and represent areas of very high catch with a dotted line of the same

<b>Turtles</b>	Polygon Colour = _____	Months = _____
<b>Dugongs</b>	Polygon Colour = _____	Months = _____
<b>Dolphins</b>	Polygon Colour = _____	Months = _____
<b>Porpoise</b>	Polygon Colour = _____	Months = _____
<b>Sharks</b>	Polygon Colour = _____	Months = _____
<b>Rays</b>	Polygon Colour = _____	Months = _____
<b>Whale shark</b>	Polygon Colour = _____	Months = _____

### 4. Please draw on the map any areas of competition or conflict? e.g. foreign vessels, migrant (Myanmar) fishers, commercial vessels

Type of competition/conflict: \_\_\_\_\_  
\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_  
\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_  
\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_  
\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_  
\_\_\_\_\_ Polygon colour = \_\_\_\_\_

Type of competition/conflict: \_\_\_\_\_  
\_\_\_\_\_ Polygon colour = \_\_\_\_\_

**\*\*\*REMEMBER TO TAKE A PHOTOGRAPH OF EVERY ACETATE/PLASTIC SHEET THAT IS CREATED FOR EACH MAP\*\*\***

Notes:



### 3. Fishers Household Survey: Socio-economic information of fisher households

The purpose of the survey is to provide socio-economic data on the inshore fisheries of the Mawtin Coast (from Gwa to Mawtin Point), to help understand fishing practices and how they contribute to households within the communities. These will contribute to baseline data that will assist in the design of future development plans in the area, while making local fisheries and marine resource use more sustainable.

#### **Demographic information:**

UNIQUE IDENTIFIER:

Date:		Interviewers:	
Name:	(not obligatory)		
Interview Location:	Township: _____ Town: _____ Village Tract: _____ Village: _____		
1. Which landing site(s) do you use? (If >1 which one do you use most often? (Circle)	_____ _____ _____ _____		
2. Nationality:		3. Place of birth:	
4. Ethnic group:	_____		
5. Do you live here all year? (tick box))	Yes <input type="checkbox"/> No <input type="checkbox"/>	6. If No, when do you live here? (circle answers) Jan / Feb / Mar / Apr / May / Jun / Jul / Aug / Sep / Oct / Nov / Dec 7. Total months: _____ 8. Where do you live the rest of the year? _____ 9. How far is that from here? (miles) _____ 10. Why do you come here? _____	
11. If you were not born here, why do you live here? (circle answer)	Family / Work / Other		Other (explain): _____ _____ _____

**Fishing activity:**

12. What gear types do you use? (circle) ***Asked about others***	13. What species/groups do you catch? (main target species)	14. Where do you use this gear?  Maximum depth, distance, and travel time from landing site (here)?	15. Which months of the year do you use this fishing gear? (Tick or put a line/mark indicating the period)											16. How many trips do you <u>usually</u> make per month?	17. How long (time) is each trip <u>usually</u> ?	18. Do you find these species in this gear? (Tick for yes)					
			J	F	M	A	M	J	J	A	S	O	N	D		Whaleshark	Turtle	Dugong	Dolphin/porpoise	Shark	Ray
Purse Seine		Depth: _____ m Distance: _____ n miles Travel time: _____ hours													# trips _____ per month _____ hours						
Long-line		Depth: _____ m Distance: _____ n miles Travel time: _____ hours													# trips _____ per month _____ hours						

<b>Trammel net</b>		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours						
<b>Beach seine/net</b>		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours						
<b>Drift gill net</b>		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours						
<b>Set net</b>		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours						
<b>Baby trawler</b>		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours						
<b>Other:</b> (e.g. compressed air, explosives, cyanide, traps)		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours						

		Depth: _____ m Distance: _____ n miles Travel time: _____ hours														# trips _____ per month _____ hours							
		Depth: _____ m Distance: _____ n miles Travel time: _____ hours															# trips _____ per month _____ hours						

**19. Do you ever see or catch sawfish?** *(tick box)* Yes ☐ No ☐

**When was the last time you saw or caught one?** *(how many years ago?)*

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**19b. Do you ever see saltwater crocodiles?** *(tick box)* Yes ☐ No ☐

**Where and when was the last time you saw one?** *(how many years ago? Which month or season?)*

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**19c. Have you ever seen/heard of sea turtles nesting on local beaches?** *(tick box)* Yes ☐ No ☐

**If yes, on which beaches and when was the last time you saw or heard of them nesting?** *(how many years ago? Which month or season?)*

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**Fishing assets and economics:**

<b>20. Do you own fishing equipment?</b> <i>(tick box)</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>	<b><i>If Yes, continue this section:</i></b>
--	--	--

<b>21. What boat and engine do you own/have?</b>								
<b>Boats</b>	<b>Unit cost (MMK)</b>	<b>Expected Lifetime</b>	<b>Annual repair or replacement cost (MMK)</b>	<b>Length (m)</b>	<b>Num ber of crew</b>	<b>Engine  <i>(tick box)</i></b>	<b>Engine type</b>	<b>If more than one owner, how many?</b>
Boat (1)	_____	_____	_____	Length:____(m)	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>	Make:_____ CC:_____	_____
Boat (2)	_____	_____	_____	Length:____(m)	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>	Make:_____ CC:_____	_____
Boat (3)	_____	_____	_____	Length:____(m)	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>	Make:_____ CC:_____	_____
Boat (4)	_____	_____	_____	Length:____(m)	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>	Make:_____ CC:_____	_____



**22. What type of fishing gear do you own/have?**

Gear type = net, line, or other (e.g. spear, hookah)	No.	Details: FOR NETS, LINE and TRAPS (per unit)						Annual repair cost (MMK) per unit	Expected Lifetime (years)	If more than one owner, how many?
		Material	Dimensions: Length x height/width (m)	Minimum Mesh Size (mm) or specify unit	Long-line gear (only)		Unit Cost (ONLY for 1 item)			
					No. of hooks	Size of hooks				
							_____MMK			
							_____MMK			
							_____MMK			
							_____MMK			
							_____MMK			
							_____MMK			
							_____MMK			
							_____MMK			

<b>Other fishing equipment:</b>			
<b>23. Do you own any of the following equipment? (tick box)</b>			
Paddle	Yes <input type="checkbox"/> No <input type="checkbox"/>	Bamboo drying rack	Yes <input type="checkbox"/> No <input type="checkbox"/>
Knives	Yes <input type="checkbox"/> No <input type="checkbox"/>	Stove	Yes <input type="checkbox"/> No <input type="checkbox"/>
Salt (for preserving)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Winch	Yes <input type="checkbox"/> No <input type="checkbox"/>
GPS (or other navigational or communications aids (i.e. starband radio)	Yes <input type="checkbox"/> No <input type="checkbox"/>	7-10 kilo dynamo	Yes <input type="checkbox"/> No <input type="checkbox"/>
Signal lights	Yes <input type="checkbox"/> No <input type="checkbox"/>	Raincoat	Yes <input type="checkbox"/> No <input type="checkbox"/>
Fish finder (echo sounder)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Hook	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ice boxes	Yes <input type="checkbox"/> No <input type="checkbox"/>		
<b>24. How much do you spend on this equipment?</b>	Estimate per month: _____ MMK <b>Or</b> Estimate per year: _____ MMK		

**Fishing expenses/income:**

<b>25. Are you a:</b> (circle answers)	Boat owner	Pilot / Skipper / Captain	Leader (master fisherman)	Crew member	Shore fisher
<b>26. How much do you <u>usually</u> spend on fuel per month?</b> (circle fuel type)				Fuel type =    Petrol / Diesel  _____ MMK _____ Amount (gallons)	
<b>27. How much money do you earn (gross) from the sale of fish?</b>  <b>Per season or per month(MMK)</b>	Estimate per season: Wet/monsoon (May – September) _____ MMK Winter (October – January) _____ MMK Summer (February – April) _____ MMK <b>Or</b> Estimate per month: _____ MMK				
	<b>27a.</b> <u>For boat owners:</u> How much do you pay your crew per month (average)? _____ MMK				
<b>28. How many viss to you catch a day?</b> _____ viss			<b>29. How many do you keep for your family?</b> _____ viss		

<b>30. How many do you sell?</b> _____ viss	<b>31. Who do you sell them to?</b> <i>(circle answers)</i>	Friends Processor Collector	Community Market trader Trader		
<b>32. Do you ever sell/trade fish between boats while at sea? (tick box)</b>		Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, explain:			
<b>33. Do you travel to sell your catch?</b> <i>(tick box)</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>34. If Yes, where and how much does it cost?</b> <i>(travel/accommodation)</i>	_____ Location cost: _____ MMK (per time)		
<b>35. If Yes, how many times do you travel per month?</b>		_____ times per month			
<b>36. For the main species/groups you catch, how does the price of fish change with buyer?</b>	<b>Species (indicate fresh or dry or processed)</b>	<b>Buyers price (MMK per viss)</b> <b>***ONLY INCLUDE PRICE FOR BUYERS THEY USE***</b>			
		Family/friends	Processor	Market	Collector/merchant
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK

	_____	_____MMK	_____MMK	_____MMK	_____MMK
	_____	_____MMK	_____MMK	_____MMK	_____MMK

### **Household information:**

#### ***Household assets***

<b>37. Is the house you live in (circle answer):</b>		Owned by you / Owned by family / Rented / Temporary house	
<b>38. What are the walls of the house constructed from?</b> (circle answer)	Brick-concrete / Wood / Bamboo / Thatch / Tarpaulin / No walls		
<b>39. What is the roof of the house constructed from?</b> (circle answer)	Concrete-cement / Metal / Wood / Bamboo / Thatch / Tarpaulin		
<b>40. What is the floor materials of the house constructed from? (circle answer)</b>	Concrete-cement / Wood / Bamboo / Beetel-palm / Earth		
<b>41. Does your household have (tick box):</b>			
Electricity	Yes <input type="checkbox"/> No <input type="checkbox"/>	Water tank	Yes <input type="checkbox"/> No <input type="checkbox"/>
Batteries	Yes <input type="checkbox"/> No <input type="checkbox"/>	Electric stove	Yes <input type="checkbox"/> No <input type="checkbox"/>
Generator	Yes <input type="checkbox"/> No <input type="checkbox"/>	Gas cooker	Yes <input type="checkbox"/> No <input type="checkbox"/>
Solar panel	Yes <input type="checkbox"/> No <input type="checkbox"/>	Home Library	Yes <input type="checkbox"/> No <input type="checkbox"/>
Refrigerator	Yes <input type="checkbox"/> No <input type="checkbox"/>	Car/van	Yes <input type="checkbox"/> No <input type="checkbox"/>
Satellite dish	Yes <input type="checkbox"/> No <input type="checkbox"/>	Motorbike	Yes <input type="checkbox"/> No <input type="checkbox"/>
TV	Yes <input type="checkbox"/> No <input type="checkbox"/>	Tricycle (engine)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Radio	Yes <input type="checkbox"/> No <input type="checkbox"/>	Bicycle	Yes <input type="checkbox"/> No <input type="checkbox"/>
Telephone (cordless)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Porcelain seat toilet	Yes <input type="checkbox"/> No <input type="checkbox"/>
Mobile phone	Yes <input type="checkbox"/> No <input type="checkbox"/>	Porcelain squat toilet	Yes <input type="checkbox"/> No <input type="checkbox"/>
Electric fan	Yes <input type="checkbox"/> No <input type="checkbox"/>	Plastic squat toilet	Yes <input type="checkbox"/> No <input type="checkbox"/>

#### ***Household income/occupations***

<b>42. How many people live in your household?</b>	Total: _____  Adults (>16): Male: _____ Female: _____  Children (≤16): Male: _____ Female: _____					
<b>43. How many people in your household contribute to the household income?</b>	(including respondent) Total: _____  Adults (>16): Male: _____ Female: _____  Children (≤16): Male: _____ Female: _____					
<b>44. Are there other people who depend on you who don't live in your household? If so, how many? (tick box)</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>  Total: _____					
<b>45. Number of children attending school:</b>						
<div style="display: flex; justify-content: space-between;"> <span>Female: _____</span> <span>Male: _____</span> </div>						
<b>46. Is your income from fishing sufficient to meet your needs? (circle answer below)</b>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Not enough</td> <td style="width: 25%;">Almost enough</td> <td style="width: 25%;">Enough</td> <td style="width: 25%;">More than enough</td> </tr> </table>		Not enough	Almost enough	Enough	More than enough	
Not enough	Almost enough	Enough	More than enough			
<b>47. How as the economic status of your household changed over the last 12 months? (circle answer)</b>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Much worse</td> <td style="width: 20%;">Slightly worse</td> <td style="width: 20%;">Same</td> <td style="width: 20%;">Slightly better</td> <td style="width: 20%;">Much better</td> </tr> </table>		Much worse	Slightly worse	Same	Slightly better	Much better
Much worse	Slightly worse	Same	Slightly better	Much better		
<b>48. Do you have access to credit? (tick box)</b> Yes <input type="checkbox"/> No <input type="checkbox"/>						
<b>If yes, from who?</b> Family / community / merchant / boat owner / government						
<b>And what type?</b> Cash / Food / Fishing gear / Labour / Fuel						
Other: _____						

49. What jobs or activities do you and other people in your household do for income or for food? (tick box and circle answer)			50. How many people do this job? (Number of male and female)	51. What % of income comes from each activity (e.g. >50%)	52. Please rank each jobs/activities importance (RANK ALL)
<b>Fisher</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Processor</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Collector</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Trader</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Gleaning</b> (e.g. collecting mangrove crab, clams, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Farming (rice)</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Farming (other crops / livestock)</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Salaried employment</b> (e.g. teacher, government worker, RCA etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
<b>Other informal</b> (e.g. labouring, fixing nets. sewing, construction, rent, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
				<b>Total = 100%</b>	

**Change, threats and the future:**

53. How much time do you spend fishing compared to 10 years ago? <i>(circle answer)</i>		Less / the same / more
54. How much fish do you catch compared to 10 years ago? <i>(circle answer)</i>		Less / the same / more
55. Have you noticed any change in the size of species caught compared to 10 years ago? <i>(circle answer)</i>		
Smaller / the same / larger		
56. Have you noticed any change in the type of species being caught compared to 10 years ago? <i>(circle answers)</i>		
Catch new ones / Catch the same species / Don't catch some species anymore		
57. What do you think are the THREE biggest threats to your livelihood? <b>(PLEASE CIRCLE THREE ONLY)</b>		
Overfishing	Depletion of stocks	Climate change
		Habitat destruction / Declining health of marine environment
Market inequality	Lack of investment in modern gears	Decrease of fish prices
		Labour scarcity
		Lack of space and facilities for processing or adding value
Inshore/offshore conflict	Illegal fishing	Destructive fishing
		Lack of law enforcement
		Increasing travel cost to fishing grounds
58. Do you want to continue being a fisher? <i>(tick box)</i>		Yes <input type="checkbox"/> No <input type="checkbox"/>
59. Would you like your children to do the same job as you? <i>(tick box)</i>		Yes <input type="checkbox"/> No <input type="checkbox"/>

**Personal details:**

60. Age (exact): _____	Age unknown <i>(circle estimated age group)</i> : < 15 / 15 – 25 / 26 – 35 / 36 – 45 / 46 – 55 / > 56	
61. Level of education: <i>(circle answer)</i>	No schooling / Primary (Monastery) / Middle / High School / College / University	Other: _____
62. Religion:	_____	

[illegible]



#### 4. Trader Household Survey: Socio-economic information of fishing related occupation households

The purpose of the survey is to provide socio-economic data on the inshore fisheries of the Mawtin Coast (from Gwa to Mawtin Point), to help understand fishing practices and how they contribute to households within the communities. These will contribute to baseline data that will assist in the design of future development plans in the area, while making local fisheries and marine resource use more sustainable.

##### Demographic information

UNIQUE IDENTIFIER:

- ☐ Collector/Merchant
- ☐ Trader
- ☐ Processor
- ☐ Other \_\_\_\_\_

Date:		Interviewers:	
Name:	(not obligatory)		Male / Female
Interview Location:	Township: _____ Town: _____ Village tract: _____ Village: _____		
1. Which landing site(s) do you use? (If >1, which more often? Please circle)	_____ _____ _____ _____		
2. Nationality:		3. Place of birth:	
4. Ethnic group	_____		
5. Do you live here all year?	Yes <input type="checkbox"/> No <input type="checkbox"/>	6. If No, when do you live here? (circle answer) Jan / Feb / Mar / Apr / May / Jun / Jul / Aug / Sep / Oct / Nov / Dec 7. Total months: _____ 8. Where do you live the rest of the year? _____ 9. How far is that from here? _____ 10. Why do you come here? _____	
11. If you were not born here, why do you live here? (circle answer)		Family / Work / Other	Other (explain): _____ _____ _____

**Collector and processor activity and economics:**

12. What species do you buy/trade/process? (SPECIFY IF BLADDER OR GILLS OF SPECIES)	13. What time of year do you usually buy/process them?												14. Who do you buy/get the fish from? (e.g. family, fishers, processors, boat owners)	15. What price do you buy at? (MMK per unit)	16. How are the species processed? (circle answers)	17. What price do you sell at? (MMK per unit)	18. Who do you sell them to? (e.g. restaurants, wholesalers)
	J	F	M	A	M	J	J	A	S	O	N	D					
														_____ MMK  per unit (viss, kg, #)	No processing  Dried  Smoked  Salted  Iced	_____ MMK  _____ MMK  _____ MMK  _____ MMK  _____ MMK	_____  _____  _____  _____  _____
														_____ MMK	No processing  Dried  Smoked  Salted  Iced	_____ MMK  _____ MMK  _____ MMK  _____ MMK  _____ MMK	_____  _____  _____  _____  _____
														_____ MMK	No processing  Dried  Smoked  Salted  Iced	_____ MMK  _____ MMK  _____ MMK  _____ MMK  _____ MMK	_____  _____  _____  _____  _____
														_____ MMK	No processing  Dried  Smoked  Salted  Iced	_____ MMK  _____ MMK  _____ MMK  _____ MMK  _____ MMK	_____  _____  _____  _____  _____

				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____

				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____
				_____MMK	No processing Dried Smoked Salted Iced	_____MMK _____MMK _____MMK _____MMK _____MMK	_____ _____ _____ _____ _____

19. Do you ever buy/sell/process:	20. What time of year do you usually buy/sell/process them?												21. Who do you buy/get them from? (e.g. fishers, processors)	22. What price do you buy at? (MMK per unit)	23. How are the species processed? (e.g. dried, smoked)	24. What price do you sell at? (MMK per unit)	25. Who do you sell them to?
	J	F	M	A	M	J	J	A	S	O	N	D					
Shark (meat)														_____ MMK	No processing Dried Smoked Salted Iced	_____ MMK _____ MMK _____ MMK _____ MMK _____ MMK	_____ _____ _____ _____ _____
Shark (fins)														_____ MMK	No processing Dried Smoked Salted Iced	_____ MMK _____ MMK _____ MMK _____ MMK _____ MMK	_____ _____ _____ _____ _____
Shark (gills)														_____ MMK	No processing Dried Smoked Salted Iced	_____ MMK _____ MMK _____ MMK _____ MMK _____ MMK	_____ _____ _____ _____ _____
Ray (meat)														_____ MMK	No processing Dried Smoked Salted Iced	_____ MMK _____ MMK _____ MMK _____ MMK _____ MMK	_____ _____ _____ _____ _____

[illegible]

26. Do you travel to sell your fish? <i>(tick box)</i>			Yes <input type="checkbox"/> No <input type="checkbox"/>
27. If Yes: where, how far, and how much does it cost per trip? <i>(travel/accommodation)</i>	_____ Location	_____ Location	_____ Location
	_____ Distance (mi)	_____ Distance (mi)	_____ Distance (mi)
	_____ MMK	_____ MMK	_____ MMK
28. How much do you <u>usually</u> spend on expenses for your work per month?  (include non-official expenses if participant is willing)	Salt		_____ MMK
	Ice		_____ MMK
	Diesel/petrol		_____ MMK
	Vehicle hire		_____ MMK
	Labour hire		_____ MMK
	Land hire		_____ MMK
	Drying equipment		_____ MMK
	Smoking equipment		_____ MMK
	Loans/credit		_____ MMK
	Other: _____		_____ MMK
	Other: _____		_____ MMK
	Other: _____		_____ MMK
29. How much money do you earn (gross) from processing or trading fish?  Per season or per month or per year (MMK) – only one of three ways	Estimate per season:		
	Wet/monsoon (May – September)	_____	MMK
	Winter (October – January)	_____	MMK
	Summer (February – April)	_____	MMK
	<u>Or</u>		
	Estimate per month:	_____	MMK
	<u>Or</u>		
	Estimate per year:	_____	MMK

**Household information:****Household assets**

<b>30. Is the house you live in</b> <i>(circle answer):</i>		Owned by you / Owned by family / Rented / Temporary house	
<b>31. What are the walls of the house constructed from?</b> <i>(circle answer)</i>	Brick-concrete / Wood / Bamboo / Thatch / Tarpaulin/ No walls		
<b>32. What is the roof of the house constructed from?</b> <i>(circle answer)</i>	Concrete-cement / Metal / Wood / Bamboo)/Thatch / Tarpaulin		
<b>33. What is the floor materials of the house constructed from?</b> <i>(circle answer)</i>	Concrete-cement / Wood / Bamboo / Beetel-palm / Earth		
<b>34. Does your household have</b> <i>(tick box):</i>			
Electricity	Yes <input type="checkbox"/> No <input type="checkbox"/>	Water tank	Yes <input type="checkbox"/> No <input type="checkbox"/>
Batteries	Yes <input type="checkbox"/> No <input type="checkbox"/>	Electric stove	Yes <input type="checkbox"/> No <input type="checkbox"/>
Generator	Yes <input type="checkbox"/> No <input type="checkbox"/>	Gas cooker	Yes <input type="checkbox"/> No <input type="checkbox"/>
Solar panel	Yes <input type="checkbox"/> No <input type="checkbox"/>	Home Library	Yes <input type="checkbox"/> No <input type="checkbox"/>
Refrigerator	Yes <input type="checkbox"/> No <input type="checkbox"/>	Car/van	Yes <input type="checkbox"/> No <input type="checkbox"/>
Satellite dish	Yes <input type="checkbox"/> No <input type="checkbox"/>	Motorbike	Yes <input type="checkbox"/> No <input type="checkbox"/>
TV	Yes <input type="checkbox"/> No <input type="checkbox"/>	Tricycle (engine)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Radio	Yes <input type="checkbox"/> No <input type="checkbox"/>	Bicycle	Yes <input type="checkbox"/> No <input type="checkbox"/>
Telephone (cordless)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Porcelain seat toilet	Yes <input type="checkbox"/> No <input type="checkbox"/>
Mobile phone	Yes <input type="checkbox"/> No <input type="checkbox"/>	Porcelain squat toilet	Yes <input type="checkbox"/> No <input type="checkbox"/>
Electric fan	Yes <input type="checkbox"/> No <input type="checkbox"/>	Plastic squat toilet	Yes <input type="checkbox"/> No <input type="checkbox"/>

**Household income/occupations**

<b>35. How many people live in your household?</b>	Total: _____
	Adults (>16): Male: _____ Female: _____
	Children (≤16): Male: _____ Female: _____
<b>36. How many people in your household contribute to the household income?</b>	(including respondent) Total: _____ Adults (>16): Male: _____ Female: _____ Children (≤16): Male: _____ Female: _____



<b>37. Are there other people who depend on you who don't live in your household? If so, how many? (tick box)</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>  Total: _____			
<b>38. Number of children attending school:</b>	Female: _____ Male: _____			
<b>39. Is your income from fishing-related activities sufficient to meet your needs? (circle answer below)</b>				
Not enough	Almost enough	Enough	More than enough	
<b>40. How as the economic status of your household changed over the last 12 months? (circle answer)</b>				
Much worse	Slightly worse	Same	Slightly better	Much better
<b>41. Do you have access to credit? Yes / No</b>  <b>If yes, from who?</b> Family / community / merchant / boat owner / government / bank  <b>And what type?</b> Cash / Food / Fishing gear / Labour / Fuel  Other: _____				

42. What jobs or activities do you and other people in your household do for income or for food? (tick box and circle answer)			43. How many people do this job? (Number of male and female)	44. What % of income comes from each activity (e.g. >50%)	45. Please rank each jobs/activities importance (RANK ALL)
Fisher	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Processor	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Collector	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Trader	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Gleaning (e.g. collecting mangrove crab, clams, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Farming (rice)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Farming (other crops, livestock)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Salaried employment (e.g. teacher, government worker, RCA etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
Other informal (e.g. labouring, fixing nets. sewing, construction, rent, etc.) _____	Yes <input type="checkbox"/> No <input type="checkbox"/>	Food / Income	Male:____ Female: ____	____%	_____
				<b>Total = 100%</b>	

**Change, threats and the future:**

46. How much time do you spend fish trading/collecting/processing compared to 10 years ago? <i>(circle answer)</i>	
Less / the same / more	
47. How much fish do you sell/process compared to 10 years ago? <i>(circle answer)</i>	Less / the same / more
48. Have you noticed any change in the size of species caught compared to 10 years ago? <i>(circle answer)</i>	
Smaller / the same / larger	
49. Have you noticed any change in the type of species being caught compared to 10 years ago? <i>(circle answers)</i>	
Catch new ones / Catch the same species / Don't catch some species anymore	
50. What do you think are the THREE biggest threats to your livelihood? (please circle three ONLY)	
<div>Overfishing      Depletion of stocks      Climate change      Habitat destruction/ Declining health of marine environment</div> <div>Market inequality      Lack of investment in modern gears      Decrease of fish prices      Labour scarcity      Lack of space and facilities for processing or adding value</div> <div>Inshore/offshore conflict      Illegal fishing      Destructive fishing      Lack of law enforcement      Increasing travel cost to fishing grounds</div>	
51. Do you want to continue being a fisher trader/collector/processor? <i>(tick box)</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>
52. Would you like your children to do the same job as you? <i>(tick box)</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>

**Personal details:**

53. Age (exact): _____	Age unknown <i>(circle estimated age group)</i> : < 15 / 15 – 25 / 26 – 35 / 36 – 45 / 46 – 55 / > 56	
54. Level of education: <i>(circle answer)</i>	No schooling / Primary (Monastery) / Middle / High School / College / University	Other: _____
55. Religion:	_____	

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## 5. Offshore fisheries survey: Fisheries and spatial use information

The purpose of the survey is to provide fishery, spatial use and community information for boats using the offshore waters adjacent to the west coastline of the Ayeyarwady region. The information will help understand the fishing fleets, fishing activity, and communities that could be impacted by any development planned in this area (offshore from Gwa in the north to Mawtin Point in the south), and provide focus for further investigation.

### Fishery information:

UNIQUE IDENTIFIER:

Date:		Interviewer:			
Name:	(not obligatory)				
Interview Location:	Township: _____ Sub-township: _____ Village Tract: _____ Village: _____				
1. What is your job/role? (circle answers)		Business/Boat Owner	Boat Captain	Boat Crew	Other: _____
2. Nationality: _____		3. Place of residence: _____		4. Ethnic group: _____	
5. What type of fishing/boat licence do you have?  Where does it allow you to fish? (offshore blocks or areas)	Type: _____ Where: _____ Type: _____ Where: _____ Type: _____ Where: _____ Type: _____ Where: _____				
6. Are there other permits or registration required for you to fish/work offshore? (please detail)	_____ _____ _____ _____				
7. Where do you land your catch? Please list if more than one site	1. _____ 2. _____ 3. _____				
8. Where do the boat crew (mainly) live? (townships/villages)	1. _____ 2. _____ 3. _____				

**Fishing activity:**

9. What gear types do you use? (circle) ***Asked about others***	10. What are your target fish species/groups?	11. What depth do you use this gear? (MAX depth)	12. Which months of the year do you use this fishing gear? (Tick or put a line/mark indicating the period)											13. How many trips do you <u>usually</u> make per year?	15. Do you find these species in this gear? (Tick for yes) - indicate species if possible						
			J	F	M	A	M	J	J	A	S	O	N	D	14. How long (time) is each trip <u>usually</u> ?	Whaleshark	Turtle	Dugong	Whale, Dolphin	Shark	Ray
Purse Seine		Depth: _____ m													_____ per year _____ days						
Long-line		Depth: _____ m													_____ per year _____ days						
Trawler		Depth: _____ m													_____ per year _____ days						
Drift gill net		Depth: _____ m													_____ per year _____ days						
Trap (entrapping gear)		Depth: _____ m													_____ per year _____ days						

Cast net (squid)		Depth: _____ m													
Others? Please list : _____		Depth: _____ m													
_____		Depth: _____ m													

**Other notes / description of fishing activity:**

Other boat companies / fleets fishing in the target area?

**Fishing equipment and economics:**

16. What boat and engine do you own/use?							
Boats	Unit cost (MMK)	Expected Lifetime (Years)	Annual repair cost (MMK)	Length(m)	No. of crew	Engine type	If more than one owner, how many?
Boat (1)	_____	_____ yrs	_____	Length: _____(m)	_____	Make: _____ CC: _____	_____
Boat (2)	_____	_____ yrs	_____	Length: _____(m)	_____	Make: _____ CC: _____	_____
Boat (3)	_____	_____ yrs	_____	Length: _____(m)	_____	Make: _____ CC: _____	_____
Boat (4)	_____	_____ yrs	_____	Length: _____(m)	_____	Make: _____ CC: _____	_____
Boat (5)	_____	_____ yrs	_____	Length: _____(m)	_____	Make: _____ CC: _____	_____
Boat (6)	_____	_____ yrs	_____	Length: _____(m)	_____	Make: _____ CC: _____	_____



17. What type of fishing gear do you own/use?									
Gear type = net, line, or other (e.g. traps)	Details: FOR NETS, LINE and TRAPS						Annual repair cost (MMK)	Expected Lifetime (years)	
	No.	Material	Dimensions: Length x height/width	Minimum Mesh Size	Long-line gear (ONLY)				Cost (ONLY for 1 item)
					No. of hooks	Size of hooks			
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs
_____	_____	_____	_____X_____	_____	_____	_____	_____MMK	_____	_____yrs

**Fishing expenses/income:**

<b>18. How much do you <u>usually</u> spend on fuel per trip?</b> <i>(circle fuel type)</i>		Fuel type =    Petrol / Diesel _____ MMK			
<b>19. How many viss to you <u>usually</u> catch a trip? <i>(estimate an average)</i></b> _____ viss					
<b>20. For the target species/groups you catch, how much do you <u>usually</u> sell them for?</b>	<b>Species</b>	<b>Price (MMK per viss)</b> <b>***ONLY INPUT PRICE FOR THE TYPE THEY SELL***</b>			
		<b>Fresh</b>	<b>Dried</b>	<b>Salted</b>	<b>Other:_____</b>
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK
	_____	_____ MMK	_____ MMK	_____ MMK	_____ MMK

### Mapping fishing activity

**A. On the supplied map(s) could you please draw a polygon/shape indicating where you fish?**

**B. Within these drawn areas please could you also draw a dotted lined polygon/shape identifying the most fished areas (hotspots)?**

**C. If you use more than one gear please use different colours to complete A & B above for each gear.**

Notes, other observations:

[illegible]

# Department of Fisheries Fishing Grounds of Myanmar and Landing Sites

