

**Appendix 1: Survey methods**  
**Socioeconomics**

**1.1.2 Socioeconomic survey questionnaires**

- Household census and consumption survey
- Finfish fishing and marketing survey (for fishers)
- Invertebrate fishing and marketing survey (for fishers)
- Fisheries (finfish and invertebrate and socioeconomics) general information survey

**HOUSEHOLD CENSUS AND CONSUMPTION SURVEY**

**HH NO.**

Name of head of household: \_\_\_\_\_ Village: \_\_\_\_\_

Name of person asked: \_\_\_\_\_ Date: \_\_\_\_\_

Surveyor's ID: \_\_\_\_\_

	male	female
1. Who is the head of your household? <i>(must be living there; tick box)</i>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 50px; height: 20px;" type="text"/>

2. How old is the head of household? <i>(enter year of birth)</i>	<input style="width: 50px; height: 20px;" type="text"/>
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3. How many people ALWAYS live in your household? <i>(enter number)</i>	<input style="width: 50px; height: 20px;" type="text"/>
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	male	age	female	age
4. How many are male and how many are female? <i>(tick box and enter age in years or year of birth)</i>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>
	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>
	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>
	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>
	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>
	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>	<input style="width: 30px; height: 20px;" type="checkbox"/>	<input style="width: 50px; height: 20px;" type="text"/>

5. Does this household have any agricultural land?

yes                       no

6. How much *(for this household only)*?

for permanent/regular cultivation  (unit)

for permanent/regular livestock  (unit)

type of animals \_\_\_\_\_

no.



**Appendix 1: Survey methods**  
**Socioeconomics**

13. How much? (*enter amount*) Every time? (currency)

14. How much CASH money do you use on average for household expenditures (food, fuel for cooking, school bus, etc.)?  
(currency)  per week/2-weekly/month (or? specify\_\_\_\_\_)

15. What is the educational level of your household members?

<u>no. of people</u>	<u>having achieved:</u>
<input type="text"/>	elementary/primary education
<input type="text"/>	secondary education
<input type="text"/>	tertiary education (college, university, special schools, etc.)

**CONSUMPTION SURVEY**

16. During an average/normal week, on how many days do you prepare fish, other seafood and canned fish for your family? (*tick box*)

	7 days	6 days	5 days	4 days	3 days	2 days	1 day	other, specify
Fresh fish	<input type="checkbox"/>	<input type="text"/>						
Other seafood	<input type="checkbox"/>	<input type="text"/>						
Canned fish	<input type="checkbox"/>	<input type="text"/>						

17. Mainly at

	breakfast	lunch	supper
Fresh fish	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other seafood	<input type="text"/>	<input type="text"/>	<input type="text"/>
Canned fish	<input type="text"/>	<input type="text"/>	<input type="text"/>

18. How much do you cook on average per day for your household? (*tick box*)

	number	kg	size: A	B	C	D	E	>E (cm)
Fresh fish	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>				



*Appendix 1: Survey methods*  
*Socioeconomics*

**FISHING (FINFISH) AND MARKETING SURVEY**

Name: \_\_\_\_\_ F  M  HH NO.

Name of head of household: \_\_\_\_\_ Village: \_\_\_\_\_

Surveyor's name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Which areas do you fish?

coastal reef	lagoon	outer reef	mangrove	pelagic
<input type="checkbox"/>				

2. Do you go to only one habitat per trip?

Yes  no

3. If no, how many and which habitats do you visit during an average trip?

total no.	habitats:	coastal reef	lagoon	mangrove	outer reef
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. How often (days/week) do you fish in each of the habitats visited?

coastal reef	lagoon	mangrove	outer reef	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ /times per week/month
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ /times per week/month
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ /times per week/month

5. Do you use a boat for fishing?

	Always	sometimes	never
coastal reef	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
lagoon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
mangrove	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
outer reef	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. If you use a boat, which one?

1	canoe (paddle) <input type="checkbox"/>	sailing <input type="checkbox"/>
	motorised <input type="checkbox"/>	HP outboard <input type="checkbox"/> 4-stroke engine <input type="checkbox"/>
	coastal reef <input type="checkbox"/>	lagoon <input type="checkbox"/> outer reef <input type="checkbox"/>

*Appendix 1: Survey methods*  
*Socioeconomics*

2	canoe (paddle)	<input type="checkbox"/>			sailing	<input type="checkbox"/>
	motorised	<input type="checkbox"/>	HP outboard	<input type="checkbox"/>	4-stroke engine	<input type="checkbox"/>
	coastal reef	<input type="checkbox"/>	lagoon	<input type="checkbox"/>	outer reef	<input type="checkbox"/>
3	canoe (paddle)	<input type="checkbox"/>			sailing	<input type="checkbox"/>
	motorised	<input type="checkbox"/>	HP outboard	<input type="checkbox"/>	4-stroke engine	<input type="checkbox"/>
	coastal reef	<input type="checkbox"/>	lagoon	<input type="checkbox"/>	outer reef	<input type="checkbox"/>

7. How many fishers ALWAYS go fishing with you?

Names: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Appendix 1: Survey methods**  
**Socioeconomics**

**INFORMATION BY FISHERY** Name of fisher: \_\_\_\_\_ **HH NO.**

coastal reef  lagoon  mangrove  outer reef

1. HOW OFTEN do you normally go out FISHING for this habitat? (*tick box*)

Every Day	5 days/ week	4 days/ week	3 days/ week	2 days/ week	1 day/ week	other, specify:
<input type="checkbox"/>	_____					

2. What time do you spend fishing this habitat per average trip? \_\_\_\_\_

(*if the fisher can't specify, tick a box*)

<2 hrs	2-6 hrs	6-12 hrs	>12 hrs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. WHEN do you go fishing? (*tick box*)

day	night	day & night
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Do you go all year?

Yes  no

5. If no, which months don't you fish?

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
<input type="checkbox"/>											

6. Which fishing techniques do you use (*in the habitat referred to here*)?

<input type="checkbox"/> handline	
<input type="checkbox"/> castnet	<input type="checkbox"/> gillnet
<input type="checkbox"/> spear (dive)	<input type="checkbox"/> longline
<input type="checkbox"/> trolling	<input type="checkbox"/> spear walking <input type="checkbox"/> canoe <input type="checkbox"/>
<input type="checkbox"/> deep bottom line	<input type="checkbox"/> poison: which one? _____
<input type="checkbox"/> other, specify: _____	

7. Do you use more than one technique per trip for this habitat? If yes, which ones usually?

<input type="checkbox"/> one technique/trip	<input type="checkbox"/> more than one technique/trip: _____
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**Appendix 1: Survey methods**  
**Socioeconomics**

8. Do you use ice on your fishing trips?

always       sometimes       never  
 is it homemade?       or bought?

9. What is your average catch (kg) per trip?  Kg OR:

size class:      A      B      C      D      E      >E (cm)  
 number:                                   

10. Do you sell fish?      yes       no

11. Do you give fish as a gift (for no money)?      yes       no

12. Do you use your catch for family consumption?      yes       no

13. How much of your usual catch do you keep for family consumption?

kg  OR:

size class      A      B      C      D      E      >E (cm)  
 no                                   

and the rest you gift?      yes

how much?      kg  OR:

size class      A      B      C      D      E      >E (cm)  
 no.                                   

and/or sell?      yes

how much?      kg  OR:

size class      A      B      C      D      E      >E (cm)  
 no.



*Appendix 1: Survey methods*  
*Socioeconomics*

**INVERTEBRATE FISHING AND MARKETING SURVEY  
FISHERS**

**HH NO.**

Name: \_\_\_\_\_

Gender:  female  male      Age:

Village: \_\_\_\_\_

Date: \_\_\_\_\_      Surveyor's name: \_\_\_\_\_

*Invertebrates = everything that is not a fish with fins!*

1. Which type of fisheries do you do?

seagrass gleaning       mangrove & mud gleaning

sand & beach gleaning       reeftop gleaning

bêche-de mer diving       mother-of-pearl diving  
trochus, pearl shell, etc.

lobster diving       other, such as clams, octopus

2. (if more than one fishery in question 1): Do you usually go fishing at only one of the fisheries or do you visit several during one fishing trip?

one only       several

If several fisheries at a time, which ones do you combine?

-----  
-----  
-----  
-----  
-----  
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**Appendix 1: Survey methods**  
**Socioeconomics**

3. How often do you go gleaning/diving (*tick as from questions 1 and 2 above and watch for combinations*) and for how long, and do you also finfish at the same time?

	times/week	duration in hours	<i>(if the fisher can't specify, tick the box)</i>				glean/dive at			fish no. of
			<2	2-4	4-6	>6	D	N	D&N	months/year
<input type="checkbox"/> seagrass gleaning	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> mangrove & mud gleaning	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> sand & beach gleaning	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> reeftop gleaning	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> bêche-de-mer diving	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> lobster diving	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> mother-of-pearl diving trochus, pearl shell, etc.	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> other diving (clams, octopus)	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

D = day, N = night, D&N = day and night (no preference but fish with tide)

4. Do you sometimes go gleaning/fishing for invertebrates outside your village fishing grounds?

yes                       no

If yes, where? \_\_\_\_\_

5. Do you finfish?    yes                       no

for:     consumption?     sale?

at the same time?    yes                       no



*Appendix 1: Survey methods*  
*Socioeconomics*

Species vernacular/common name and scientific code if possible	Average quantity/trip					Used for (specify how much from average for each category (cons., given or sold), and the main size for sale and cons. or given) gift = giving away for no money		
	total number/ trip	weight/trip			average size cm	cons.	gift	sale
		total kg	plastic bag	unit				
		1	3/4	1/2	1/4			



*Appendix 1: Survey methods*  
*Socioeconomics*

**FISHERIES (FINFISH AND INVERTEBRATE AND SOCIOECONOMICS)**  
**GENERAL INFORMATION SURVEY**

**Target group: key people, groups of fishers, fisheries officers, etc.**

1. Are there management rules that apply to your fisheries? Do they specifically target finfish or invertebrates, or do they target both sectors?
  - a) legal/Ministry of Fisheries
  - b) traditional/community/village determined:
2. What do you think – do people obey:  
traditional/village management rules?  
mostly  sometimes  hardly   
legal/Ministry of Fisheries management rules?  
mostly  sometimes  hardly
3. Are there any particular rules that you know people do not respect or follow at all? And do you know why?
4. What are the main techniques used by the community for:
  - a) finfishing  
gillnets – most-used mesh sizes:  
What is usually used for bait? And is it bought or caught?
  - b) invertebrate fishing → *see end!*
5. Please give a quick inventory and characteristics of boats used in the community (length, material, motors, etc.).





**Appendix 1: Survey methods**  
**Socioeconomics**

How many people carry out the invertebrate fisheries below, from inside and from outside the community?

<b>GLEANING</b>	<b>no. from this village</b>	<b>no. from village</b>	<b>no. from village</b>
<input type="checkbox"/> seagrass gleaning	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> mangrove & mud gleaning	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> sand & beach gleaning	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> reeftop gleaning	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<b>DIVING</b>			
<input type="checkbox"/> bêche-de-mer diving	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> lobster diving	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> mother-of-pearl diving trochus, pearl shell, etc.	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> other (clams, octopus)	<input type="checkbox"/>	<input type="checkbox"/> _____	<input type="checkbox"/> _____

What gear do invertebrate fishers use? (*tick box of technique per fishery*)

**GLEANING (soft bottom = seagrass)**

<input type="checkbox"/> spoon	<input type="checkbox"/> wooden stick	<input type="checkbox"/> knife	<input type="checkbox"/> iron rod	<input type="checkbox"/> spade
<input type="checkbox"/> hand net	<input type="checkbox"/> net	<input type="checkbox"/> trap	<input type="checkbox"/> goggles	<input type="checkbox"/> dive mask
<input type="checkbox"/> snorkel	<input type="checkbox"/> fins	<input type="checkbox"/> weight belt		
<input type="checkbox"/> air tanks	<input type="checkbox"/> hookah	<input type="checkbox"/> other _____		

**GLEANING (soft bottom = mangrove & mud)**

<input type="checkbox"/> spoon	<input type="checkbox"/> wooden stick	<input type="checkbox"/> knife	<input type="checkbox"/> iron rod	<input type="checkbox"/> spade
<input type="checkbox"/> hand net	<input type="checkbox"/> net	<input type="checkbox"/> trap	<input type="checkbox"/> goggles	<input type="checkbox"/> dive mask
<input type="checkbox"/> snorkel	<input type="checkbox"/> fins	<input type="checkbox"/> weight belt		
<input type="checkbox"/> air tanks	<input type="checkbox"/> hookah	<input type="checkbox"/> other _____		

*Appendix 1: Survey methods*  
*Socioeconomics*

**GLEANING (soft bottom = sand & beach)**

- |                                    |                                       |                                      |                                   |                                    |
|------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|------------------------------------|
| <input type="checkbox"/> spoon     | <input type="checkbox"/> wooden stick | <input type="checkbox"/> knife       | <input type="checkbox"/> iron rod | <input type="checkbox"/> spade     |
| <input type="checkbox"/> hand net  | <input type="checkbox"/> net          | <input type="checkbox"/> trap        | <input type="checkbox"/> goggles  | <input type="checkbox"/> dive mask |
| <input type="checkbox"/> snorkel   | <input type="checkbox"/> fins         | <input type="checkbox"/> weight belt |                                   |                                    |
| <input type="checkbox"/> air tanks | <input type="checkbox"/> hookah       | <input type="checkbox"/> other _____ |                                   |                                    |

**GLEANING (hard bottom = reef top)**

- |                                    |                                       |                                      |                                   |                                    |
|------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|------------------------------------|
| <input type="checkbox"/> spoon     | <input type="checkbox"/> wooden stick | <input type="checkbox"/> knife       | <input type="checkbox"/> iron rod | <input type="checkbox"/> spade     |
| <input type="checkbox"/> hand net  | <input type="checkbox"/> net          | <input type="checkbox"/> trap        | <input type="checkbox"/> goggles  | <input type="checkbox"/> dive mask |
| <input type="checkbox"/> snorkel   | <input type="checkbox"/> fins         | <input type="checkbox"/> weight belt |                                   |                                    |
| <input type="checkbox"/> air tanks | <input type="checkbox"/> hookah       | <input type="checkbox"/> other _____ |                                   |                                    |

**DIVING (bêche-de-mer)**

- |                                    |                                       |                                      |                                   |                                    |
|------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|------------------------------------|
| <input type="checkbox"/> spoon     | <input type="checkbox"/> wooden stick | <input type="checkbox"/> knife       | <input type="checkbox"/> iron rod | <input type="checkbox"/> spade     |
| <input type="checkbox"/> hand net  | <input type="checkbox"/> net          | <input type="checkbox"/> trap        | <input type="checkbox"/> goggles  | <input type="checkbox"/> dive mask |
| <input type="checkbox"/> snorkel   | <input type="checkbox"/> fins         | <input type="checkbox"/> weight belt |                                   |                                    |
| <input type="checkbox"/> air tanks | <input type="checkbox"/> hookah       | <input type="checkbox"/> other _____ |                                   |                                    |

**DIVING (lobster)**

- |                                    |                                       |                                      |                                   |                                    |
|------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|------------------------------------|
| <input type="checkbox"/> spoon     | <input type="checkbox"/> wooden stick | <input type="checkbox"/> knife       | <input type="checkbox"/> iron rod | <input type="checkbox"/> spade     |
| <input type="checkbox"/> hand net  | <input type="checkbox"/> net          | <input type="checkbox"/> trap        | <input type="checkbox"/> goggles  | <input type="checkbox"/> dive mask |
| <input type="checkbox"/> snorkel   | <input type="checkbox"/> fins         | <input type="checkbox"/> weight belt |                                   |                                    |
| <input type="checkbox"/> air tanks | <input type="checkbox"/> hookah       | <input type="checkbox"/> other _____ |                                   |                                    |

