

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: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>

2. How old is the head of household? (enter year of birth)	<input style="width: 50px; height: 25px;" type="text"/>
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3. How many people ALWAYS live in your household? (enter number)	<input style="width: 50px; height: 25px;" type="text"/>
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	male	age	female	age
4. How many are male and how many are female? (tick box and enter age in years or year of birth)	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>

5. Does this household have any agricultural land?

yes	<input style="width: 30px; height: 25px;" type="text"/>	no	<input style="width: 30px; height: 25px;" type="text"/>
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6. How much (*for this household only*)?

for permanent/regular cultivation (unit)

for permanent/regular livestock (unit)

type of animals _____ no.

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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?

no. of people

having achieved:

elementary/primary education

secondary education

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 style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 150px; height: 25px;" type="text"/>
Other seafood	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 150px; height: 25px;" type="text"/>
Canned fish	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 150px; height: 25px;" type="text"/>

17. Mainly at

breakfast

lunch

supper

Fresh fish	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
Other seafood	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>
Canned fish	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" type="text"/>	<input style="width: 50px; height: 25px;" 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 style="width: 40px; height: 25px;" type="text"/>	<input style="width: 40px; height: 25px;" type="text"/>		<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 30px; height: 25px;" type="text"/>	<input style="width: 60px; height: 25px;" type="text"/>

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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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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?

{	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"/>

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2	{	canoe (paddle) <input style="width: 50px;" type="text"/>				sailing <input style="width: 50px;" type="text"/>
		motorised <input style="width: 50px;" type="text"/>	HP outboard <input style="width: 50px;" type="text"/>	4-stroke engine <input style="width: 50px;" type="text"/>		
		coastal reef <input style="width: 50px;" type="text"/>	lagoon <input style="width: 50px;" type="text"/>	outer reef <input style="width: 50px;" type="text"/>		
3	{	canoe (paddle) <input style="width: 50px;" type="text"/>				sailing <input style="width: 50px;" type="text"/>
		motorised <input style="width: 50px;" type="text"/>	HP outboard <input style="width: 50px;" type="text"/>	4-stroke engine <input style="width: 50px;" type="text"/>		
		coastal reef <input style="width: 50px;" type="text"/>	lagoon <input style="width: 50px;" type="text"/>	outer reef <input style="width: 50px;" type="text"/>		

7. How many fishers ALWAYS go fishing with you?

Names: _____

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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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	<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 (handheld) <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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8. Do you use ice on your fishing trips?

<input type="checkbox"/> always	<input type="checkbox"/> sometimes	<input type="checkbox"/> never
<input type="checkbox"/> is it homemade?	<input type="checkbox"/> or bought?	

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

size class:	A	B	C	D	E	>E (cm)
number:	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 100px;" type="text"/>

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	<input style="width: 50px;" type="text"/>	<u>OR:</u>				
size class	A	B	C	D	E	>E (cm)
no.	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 100px;" type="text"/>
and the rest you gift?	yes	<input style="width: 30px;" type="text"/>				
how much?	kg	<input style="width: 30px;" type="text"/>	<u>OR:</u>			
size class	A	B	C	D	E	>E (cm)
no.	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 100px;" type="text"/>
and/or sell?	yes	<input style="width: 30px;" type="text"/>				
how much?	kg	<input style="width: 30px;" type="text"/>	<u>OR:</u>			
size class	A	B	C	D	E	>E (cm)
no.	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 100px;" type="text"/>

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14. What sizes of fish do you use for your family consumption, what for sale and what do you give away without getting any money?

size classes:	all	A	B	C	D	E	and larger (no. and cm)
consumption	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
sale	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
give away	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

15. You sell where?

☐ inside village ☐ outside village where? _____

and to whom?

market ☐ agents/middlemen ☐ shop owners ☐ others ☐ _____

16. In an average catch what fish do you catch, and how much of each species? (*write down the species in the table*)

technique usually used: _____ boat _____ type _____ usually used: _____
habitat usually fished: _____

Specify the number by size

Name of fish	kg	A	B	C	D	E	>E cm

20. Do you also fish invertebrates?

Yes ☐ no ☐ if yes for consumption? ☐ sale? ☐

-THANK YOU-

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**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?

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

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INVERTEBRATE FISHING AND MARKETING SURVEY – FISHERS

GLEANNING: seagrass ☐ mangrove & mud ☐ sand & beach ☐ reef top ☐
DIVING: bêche-de-mer ☐ lobster ☐ mother-of-pearl, trochus, pearl shell, etc. ☐ other (clams, octopus) ☐

SHEET 1: EACH FISHERY PER FISHER INTERVIEWED: ☐ HH NO. **gender:** ☐ F ☐ M ☐
 What transport do you mainly use? ☐ walk ☐ canoe (no engine) ☐ motorised boat (HP) ☐ sailboat
 How many fishers are usually on a trip? (total no.) ☐ walk ☐ canoe (no engine) ☐ motorised boat (HP) ☐ sailboat

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		plastic bag unit		average size cm	cons.	gift
		total kg	1	3/4	1/2	1/4		
								sale

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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

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INVERTEBRATE FISHING AND MARKETING SURVEY – FISHERS

GLEANNING: ☐ seagrass ☐ mangrove & mud ☐ sand & beach ☐ reef top ☐ other (clams, octopus)

DIVING: ☐ bêche-de-mer ☐ lobster ☐ mother-of-pearl, trochus, pearl shell, etc. ☐

SHEET 2: SPECIES SOLD PER FISHER INTERVIEWED: **HH NO.** ☐ **Name of fisher:** _____

Copy all species that have been named for 'SALE' in previous sheet

Who markets your products? ☐ you ☐ your wife ☐ your husband ☐ a group of fishers ☐ other _____

Species for sale – copy from sheet 2 (for each fishery per fisher) above	Processing level of product sold (see list)	Where do you sell? (see list)	How often? Days/week?	How much each time? Quantity/unit	Price

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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.).

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Seasonality of species

What are the **FINFISH** species that you do not catch during the total year? Can you specify the particular months that they are **NOT** fished?

[illegible]

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Seasonality of species

What are the **INVERTEBRATE** species that you do not catch during the total year? Can you specify the particular months that they are **NOT** fished?

[illegible]

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

GLEANING	no. from this village	no. from village	no. from village
<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"/>
 DIVING			
<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 _____		

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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 _____		

Appendix 1: Survey methods

Socioeconomics

DIVING (mother-of-pearl, trochus, pearl shell, etc.)

<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 (other, such as clams, octopus)

☐ spoon ☐ wooden stick ☐ knife ☐ iron rod ☐ spade
☐ hand net ☐ net ☐ trap ☐ goggles ☐ dive mask
☐ snorkel ☐ fins ☐ weight belt
☐ air tanks ☐ hookah ☐ other _____

Any traditional/customary/village fisheries?

Name:

Season/occasion:

Frequency:

Quantification of marine resources caught:

[illegible]