# **Fisheries Questionnaire**

*Please read out the text for the participant.*

Introduction

This survey is conducted to understand the historical changes in individual catches of Chwaka Bay fishers. The data gathered is anonymous and kept for scientific purposes only. Your answers will be used within a research project that aims to parameterize an ecosystem model of Chwaka Bay. This model will then be used to explore the impact of different management interventions on the ecosystem and individual profits.

|  |  |
| --- | --- |
| 1. I understand that my participation is voluntary. I can withdraw at any time from the interview and I can decline to answer a question. |  |
| 1. I understand that my answers will be kept confidential and that I will remain anonymous. |  |
| 1. I understand that I can access the information I provide in this questionnaire at any time and that I can demand the destruction of my answers. |  |
| 1. I agree to participate in this questionnaire. |  |

Name of participant (Block letters) Date Signature

Participant does not wish to reveal his/her name.

Name of interviewer (Block letters) Date Signature

# Part A. Background information

*The questions in this section are designed to collect general information about the fisher.*

**A1. In which fishing village do you live?**

Chwaka  Uroa  Marumbi  Other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A2. Are you male or female?**

Male  Female

**A3. How old are you?**

**A4. How long have you been fishing?**

# Part B. Fishing practices

*The questions in this section are designed to collect information on the type of gear used and species caught by the fisher.*

**B1. Which gear do you use?**

Primary gear/gears:

Madema  Dragnet  Mishipi  Spear

Floatnet  Gillnet  Longline  Fence

Foot Fisher  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Secondary gear/gears:

Madema  Dragnet  Mishipi  Spear

Floatnet  Gillnet  Longline  Fence

Foot Fisher  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B2. Do you own the equipment?**

Boat owner  Gear owner  I do not own the fishing equipment.

**B3. Do you fish alone?**

Yes. If no, please answer the following questions:

I fish with other fisher.

I am part of a fishing crew, role: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B4. Do you target the following species/type of fish?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **Not at all** | **Occasionally** | **Often** | **Main target species** | **Gear used to catch the species\*** |
| 1. Siganus sutor |  |  |  |  |  |
| 2. Siganus stellatus |  |  |  |  |  |
| 3. Lethrinus lentjan |  |  |  |  |  |
| 4. Lethrinus borbonicus |  |  |  |  |  |
| 5. Lethrinus harak |  |  |  |  |  |
| 6. Lethrinus variegatus |  |  |  |  |  |
| 7. Lethrinus mahsena |  |  |  |  |  |
| 8. Monodactylus argentus |  |  |  |  |  |
| 9. Lutjanus fulviflamma |  |  |  |  |  |
| 10. Scarus ghobban |  |  |  |  |  |
| 11. Hipposcarus harid |  |  |  |  |  |
| 12. Calatomus carolinus |  |  |  |  |  |
| 13. Leptoscarus vaigiensis |  |  |  |  |  |
| 14. Plecthorinchus gibbus |  |  |  |  |  |
| 15. Acanthurus spp. |  |  |  |  |  |
| 16. Serranidae |  |  |  |  |  |
| 17. Mullidae |  |  |  |  |  |
| 18. Balistidae |  |  |  |  |  |
| 19. Mugilidae |  |  |  |  |  |
| 20. Belonidae |  |  |  |  |  |
| 21. Chirocentridae |  |  |  |  |  |
| 22. Sphyraenidae |  |  |  |  |  |
| 23. Caesionidae |  |  |  |  |  |
| 24. Sardinella spp. |  |  |  |  |  |
| 25. Anguilliformes |  |  |  |  |  |
| 26. Rhinobatidae |  |  |  |  |  |
| 27. Octopus |  |  |  |  |  |
| 28. Squids |  |  |  |  |  |
| 29. Crabs/Lobsters |  |  |  |  |  |
| 30. Snails |  |  |  |  |  |
| 31. Others |  |  |  |  |  |

*\*Please use the following abbreviations unless the gear is not listed.* ***N****=Dragnet;* ***NF****=Float net/White net (Chwaka village);* ***M****=Trap;* ***H****=Handline;* ***S****=Spear;* ***GN****=Gillnet;* ***LL****=Longline;* ***F****=Fence;* ***IC****=Invertebrate collector*

**B5. How long have you been fishing in Chwaka Bay?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B6. Do you fish all year long in Chwaka Bay? If not indicate during which seasons/months you don’t fish in Chwaka Bay**

yes no, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Part C. Current and historical catches

*The questions in this section are designed to collect information on historical and current catch per fisher. In the first two questions the fisher is asked about his/her total catch. In the third and fourth question the fisher is asked about the historical and current catches of his/her main target species and the species he/she fishes often.*

**C1. In the following questions, we are interested in your average catch per fishing trip. Please indicate if you can report on your individual catch or if your answers refer to the catch of a team/crew of fisher.**

Individual catch

Catch of a crew, number of fisher

*The following questions should not be asked for those past years in which the fisher did not fish in Chwaka Bay. If possible, catch changes should be reported in kg.*

**C2. What is your current average total catch per single fishing trip?**

kg  numbers  batch

**C3. What is the current average total catch per single fishing trip for your main target species and species you catch often? Please indicate the gear you use to catch this type of species if different from answer in B1.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Species** | **Gear\*** | **Current catch** | **kg/nr./batch** |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |

*\*Please use the following abbreviations unless the gear is not listed.* ***N****=Dragnet;* ***NF****=Float net/White net (Chwaka village);* ***M****=Trap;* ***H****=Handline;* ***S****=Spear;* ***GN****=Gillnet;* ***LL****=Longline;* ***F****=Fence;* ***IC****=Invertebrate collector*

**C4. What was your average total catch per single fishing trip in the listed years?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time period** | **Gear used\*** | **Number of fishing trips per year** | **Fishing trip duration** | **Main fishing ground Chwaka Bay? Yes/No** | **Catch kg/nr./batch** |
| 5 years ago |  |  |  |  |  |
| 2014\*\* |  |  |  |  |  |
| 10 years ago |  |  |  |  |  |
| 25 years ago |  |  |  |  |  |
| 50 years ago |  |  |  |  |  |
| When you started fishing |  |  |  |  |  |

*\* Please use the following abbreviations unless the gear is not listed.* ***N****=Dragnet;* ***NF****=Float net/White net (Chwaka village);* ***M****=Trap;* ***H****=Handline;* ***S****=Spear;* ***GN****=Gillnet;* ***LL****=Longline;* ***F****=Fence;* ***IC****=Invertebrate collector.*

*\*\**

**C5. What was your average total catch per single fishing trip in the listed years for your main target species and species you catch often? Please indicate the gear you used to catch this type of species if different from answer in B1.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Species** | **Gear\*** | **5 yrs.** | **2014\*\*** | **10 yrs.** | **25 yrs.** | **50 yrs.** | **When you started fishing** | **kg/nr./batch** |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |

*\*Please use the following abbreviations unless the gear is not listed.* ***N****=Dragnet;* ***NF****=Float net/White net (Chwaka village);* ***M****=Trap;* ***H****=Handline;* ***S****=Spear;* ***GN****=Gillnet;* ***LL****=Longline;* ***F****=Fence;* ***IC****=Invertebrate collector.*

# Part D. Additional information

**D1. Would you like to be informed about the results of this research project?**

Yes  No

**Thank you for your time!**