



UNEP/CMS OFFICE – ABU DHABI
United Arab Emirates

STANDARDISED DUGONG CATCH / BYCATCH QUESTIONNAIRE

Interviewer Name: _____ Date: _____ Data Sheet Serial Number: _____
Town: _____ Province: _____

INTRODUCTION STATEMENT

Note: Reading this statement to the interviewee is compulsory. It ensures all interviews are treated equally.

My name is _____. I work for a project run by the _____, which is an organization based in _____ (*insert location*) which is supporting research to protect the ocean for fishers and wildlife. The goal of this project is to learn more about capture of dugongs and any other marine wildlife in coastal fisheries of _____ (*insert location*). We would like to ask you some questions about wildlife you have seen, what fishing gear you use (if any), where you fish, and questions like that. We have maps and pictures that can be used to help answer some of the questions. The questions will take between 30 to 45 minutes to complete. Information from our research could be used to help reduce the capture of dugongs and other marine mammals and sea turtles, maybe through direct community support for our goals, or possibly through more effective regulations and enforcement. **Your participation in this survey is voluntary and confidential. We will not record your name or any personal information you share with us unless this is ok with you. Individual answers will be collated and reported on as a group to provide a general idea of current status, and we will absolutely not share your individual answers to anyone outside of the research team. You do not have to answer questions you do not want to. THANK YOU FOR YOUR HELP !**

INTERVIEWEE BACKGROUND

Note: Please tick the boxes to the left of any questions not asked.

- 1. Name: _____
- 2. Age: _____ Gender: Male Female
- 3. Have you previously participated in interviews related to:
Fishing Marine Mammals MPAs Ecotourism Sea Turtles Other None
When did you participate? _____
Describe: _____
- 4. What is your main occupation?
Fishing Tour Guide Boat Captain / Crew Air Services Retired
Other Please describe: _____
- 5. For how many years has this been your occupation? _____
- 6. Do you have a fishing background? Yes No
- 7. Were your parents fishers? Yes No Grandparents? Yes No
- 8. Is fishing the main way you earn a living? Yes No
- 9. Is fishing the only way you earn a living? Yes No
(if no) What is (or are) your other occupation(s)? _____
- 10. Which months do you normally fish (out of the last 12)? _____
(if seasonal, indicate season start and end)

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

11. How many days each week do you fish? _____ days (low season) _____ days (peak season)
12. What is your position on the boat? The captain A crew member We have no fixed positions
I do not work on a boat (*skip next questions if person does not work on a boat*)
13. How many fishers, including yourself, work on the boat? _____
14. How long is the boat? _____
(*Note to interviewer: convert and provide answer in meters*)
15. Is the boat motorized? Yes No (if yes) Inboard Outboard
16. What is the horsepower of the motor? _____

DUGONG CATCH / BYCATCH

17. Have you ever personally seen a dugong in our waters? Yes No
Do you have another name for it? _____
18. Tell me about the difference between a dugong and a dolphin? _____
19. How long do you think a dugong lives? _____ Don't know
20. How do you get to see dugongs? Seen while fishing Seen while travelling to fishing areas
Accidentally caught in nets Hunted Stranded on the beach Other _____
Where do you normally fish? (*Note to interviewer: Complete attached table and mark all locations on maps*)
21. How frequently have you seen dugongs? Never Once in my life Only a few times in my life
Frequently Every year for the last five years
In the last year, only once several times every month every week every day .
22. In what month(s) do you see dugongs? (*indicate months when seasons are used*): _____
23. When was the last time you saw a dugong? _____ (*if long time ago note the year*)
24. Do you know of any areas where dugongs regularly occur? Yes No
(*Note to interviewer: Regular means certain times of year when they are always found*)
Where are these special dugong areas? (*Indicate on map*)
25. Do these dugong areas change over time? Yes No Don't Know
26. How many dugongs do you think might live in these areas? 1 <10 >10 Don't Know
27. Have you ever seen dugong calves / babies? Yes No When? _____ (*what month(s)?*)
Where did you see them? (*ask interviewee to show on maps*)
28. Do people from other villages / communities catch dugongs? Yes No Don't Know
(*if yes*) How many (people)? _____ What village? _____
Any other details? _____
Is the catch accidental or on purpose? Accidental On purpose Both
29. Do you have any dugong specialists or catchers in your village? Yes No How many? _____
30. Have people in your village / community ever caught dugongs? Yes No Don't Know
(*if yes*) How many (people)? _____ For how long? _____ Any details? _____
Is the catch accidental or on purpose? Accidental On purpose Both

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

31. Did you personally catch any dugongs in the last year? (*accidentally or hunted*) Yes No
(if yes) How many in the last year? 1-2 ≤10 >10 Any details? (if available): _____
Was this is a typical number to catch in a year? Yes No
(if no) Was it higher or lower than usual? Higher Lower
Was the catch accidental or was it something you were fishing for? Accidental Hunted Both
32. Did you catch any in the last five years? 0 1-2 ≤10 >10 Specifics (if available):_ _____
How many in your life? 0 1-2 ≤10 >10 Specifics (if available): _____
33. How did you catch them? Harpoon Nets Other Please describe: _____
When did you catch them? _____ (what month(s)?) Where? (*ask interviewee to show on maps*)
34. Compared to when you started fishing, are there more , less , or the same number of dugongs
hunted / captured in fishing gear? Don't Know (*Note: this is based on actual numbers, not perception*)
(if more or less) Why do you think this? _____
35. What do you (or would you) do with a dugong if you caught one on purpose?
Eat Sell As Bait Other Use : _____ (*Note: do not lead interviewee*)
36. What do you (or would you) do with a dugong if you caught one accidentally?
Discard (*dead*) Release (*alive*) Eat Sell As Bait Other Use : _____
37. Have you ever found or heard of dugongs stranded on the shore? Yes No (*explain*)
Or have you ever found or heard of dugongs dead in our waters? Yes No
Or have you ever found or heard of dugongs with cut marks on their backs? Yes No (*explain*)
(if yes) Where, when and how many? (*ask interviewee to show on maps*)? _____
What happened to the animal(s)? _____
38. What would you do if you found a stranded dugong? _____

PERCEPTIONS

39. Compared to when you started fishing, do you think there are more dugongs , less , or the same
number of dugongs ? I don't know
(if more or less) Why do you think this? _____
(*Note to interviewer: Try to determine what other impacts may be driving the trend*)
40. Do you think there will always be dugongs in the sea? Yes No Don't Know
(if yes or no) Why? _____
41. Do you think having dugongs around is important? Yes No Don't know Why? _____
42. Do you know what seagrass areas are? Yes No (*Note to Interviewer: show graphics*)
Are there any seagrass areas around here? Yes No Don't know Where? _____
(*Note to Interviewer: mark on maps*)
Do you fish in these seagrass areas? Yes No
Are these seagrass areas important for anything else? Yes No Why? _____

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

43. Is it illegal to intentionally kill a dugong Yes No Don't know
 What about by accident (maybe caught in a net unintentionally)? Yes No Don't know
 Would you report an accidental mortality to the authorities? Yes No
 Details (if given)? _____
44. Are any areas routinely / periodically patrolled? Frequently Infrequently Never Don't know
45. If yes, are penalties ever imposed? Frequently Infrequently Never Don't know
46. Are there any local customs, beliefs, legends or rituals or stories related to dugongs? Yes No
 (if yes) Please describe: _____

 Where / from whom did you hear this? _____
 Any additional stories / incidents you wish to report: _____

FISHERY INFORMATION

Note to interviewer: Respondent should answer these questions to describe his/her individual experience, not that of their community. Use illustrations to assist where necessary.

Habitat Codes: (D) Deep Water; (C) Coral; (S) Seagrass; (F) Fine Sediments; (M) Mangroves; (R) Rocks; (E) Estuaries; (U) Unknown

47. What type of fishing gear do you use? *(Indicate what months)*
- | | |
|---|--|
| Gill or trammel nets | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____
Do you tend the nets when they are in the water? Yes <input type="checkbox"/> No <input type="checkbox"/>
How long do you leave the nets in the water? _____ hours
Do you fish during the day <input type="checkbox"/> or night <input type="checkbox"/> ? Both <input type="checkbox"/> ?
What is the position of the gear? Surface <input type="checkbox"/> Mid-water <input type="checkbox"/> Bottom <input type="checkbox"/>
Full water depth <input type="checkbox"/> (<i>normally in shallow waters</i>)
Describe the net: Length _____ Depth _____ Mesh size _____ |
| Longline
<i>(many hooks)</i> | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____ |
| Bottom longline
<i>(many hooks set at depth)</i> | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____ |
| Hook and line
<i>(one or few hooks)</i> | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____ |
| Purse seine
<i>(or surround nets)</i> | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____ |
| Beach seine | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____ |
| Trawl nets
<i>(or other towed net)</i> | Only <input type="checkbox"/> Mostly <input type="checkbox"/> Sometimes <input type="checkbox"/> Season: _____
Habitat: _____ Target: _____ |

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

Traps Only Mostly Sometimes Season: _____
Habitat: _____ Target: _____
Other (describe): _____
Only Mostly Sometimes Season: _____
Habitat: _____ Target: _____

48. In what places do you normally fish? _____
(Use prepared road maps, charts, Google maps and have interviewee point out areas)
Do you use different gears in different areas? Yes No If yes, please describe: _____

(Use prepared road maps, charts, Google maps, and have interviewee point out areas)

49. Do people in your village / community target sharks? Yes No No, but they are occasionally landed
Please elaborate: _____
(Note to interviewer: This can be area sensitive)

SEA TURTLE CATCH / BYCATCH

(Optional if time permits and interviewee is keen)

50. Have you ever seen sea turtles? Yes No Do you have another name for them? _____

51. What species of turtles do you see? Green Hawksbill Olive Ridley Loggerhead
Flatback Leatherback Don't know

Do you know the difference between these turtle species? Yes No Don't know
(Note to Interviewer; Show ID chart or graphics)

Please describe: _____

Do they have different names? (if yes) Please list: _____ (determine for each species)

52. How long do you think a turtle lives? _____ Don't know

53. How do you see turtles? Seen while fishing Seen while travelling to fishing areas
Coming ashore to lay eggs Accidentally caught in nets Hunted Stranded on the beach
(Note to interviewer: Refer to and complete attached table and mark all locations on maps)

54. How frequently have you seen turtles? Never Once in my life Only a few times in my life
Frequently Every year for the last five years
In the last year, only once several times every month every week every day

55. When do you see turtles? (indicate months or seasons): _____

56. When was the last time you saw one? _____ (if long time ago note the year)

57. Do you know of any areas where turtles regularly occur? Yes No
(Note to interviewer: Regular means certain times of year when they are always found. Indicate on maps)

58. Do these turtle areas change over time? Yes No Don't Know

59. How many turtles do you think might live in these areas? <10 >10 >100 Don't Know

60. Do you see mating turtles? Yes No When? _____ Where (use maps)? _____

61. Do people from other villages / communities catch turtles? Yes No Don't Know
(if yes) How many (people)? _____ What village? _____
Is the catch accidental or on purpose? Accidental On purpose Both

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

62. Do people in your village / community catch turtles? Yes No Don't Know
(if yes) How many (people)? _____ For how long? _____
Is the catch accidental or on purpose? Accidental On purpose Both
63. Did you personally catch any turtles in the last year? Yes No
(if yes) How many in the last year? 1-2 ≤10 >10 Specifics (if available): _____
Was this is a typical number to catch in a year? Yes No
(if no) Was it higher or lower than usual? Higher Lower
Was the catch accidental or was it something you were fishing for? Accidental Hunted Both
64. Did you catch any in the last five years? 0 1-2 ≤10 >10 Specifics (if available): _____
How many in your life? 0 1-2 ≤10 >10 Specifics (if available): _____
65. How did you catch them? Harpoon Nets Other Please describe: _____
When did you catch them? _____ (what month(s)?) Where? (ask interviewee to show on maps)
66. Compared to when you started fishing, are there more , less , or the same number of turtles captured in fishing gear? Don't Know (Note: based on actual numbers, not perception)
(if more or less) Why do you think this? _____
67. What do you (or would you) do with a sea turtle if you caught one on purpose?
Eat Sell As Bait Other Use : _____ (Note: do not lead interviewee)
68. What do you (or would you) do with a sea turtle if you caught one accidentally?
Discard (*dead*) Release (*alive*) Eat Sell As Bait Other Use : _____
69. Have you ever found or heard of turtles stranded on the shore? Yes No
Or have you ever found or heard of turtles dead in our waters? Yes No (*explain stranded*)
Or have you ever found or heard of turtles with cut marks on their backs? Yes No (*explain*)
(if yes) Where, when and how many? (ask interviewee to show on maps)? _____
What happened to the animal(s)? _____
70. What would you do or did you do if you found a stranded turtle? _____
71. Compared to when you started fishing, do you think there are more turtles , less , or the same number of turtles ? I don't know
(if more or less) Why do you think this? _____
(Note to interviewer: Try to determine what other impacts may be driving the trend)
72. Do you think there will always be turtles in our waters? Yes No Don't Know
(if yes or no) Why? _____
73. Do you think having turtles around is important? Yes No Why? _____
74. It is illegal to intentionally kill a turtle? Yes No Don't know
What about by accident (maybe caught in a net unintentionally)? Yes No Don't know
75. Are there any local customs, beliefs, legends or rituals or stories related to turtles?
Yes No (if yes) Please describe: _____
Where / from whom did you hear this? _____

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

DOLPHIN CATCH / BYCATCH

(Optional if time permits and interviewee is keen)

76. Have you ever seen dolphins? Yes No Do you have another name(s) for them? _____
(list by species)
77. What species of dolphins do you see (*describe*)? _____
Any other cetaceans (*describe*)? _____ Don't know
78. How long do you think dolphins live? _____ Don't know
79. How do you get to see dolphins? While fishing While travelling to fishing areas
Accidentally caught in nets Hunted Stranded on the beach
Are these areas different by species? Yes No Don't Know
(if yes) Please explain: _____
(Note to interviewer: mark locations on maps by species)
80. How frequently have you seen dolphins? Never Once in my life
Only a few times in my life Frequently Every year for the last five years
In the last year: Only once Several times Every month Every week Every day
81. When do you see dolphins? (*indicate months or seasons*): _____
82. When was the last time you saw one? _____ (*if long time ago note the year*)
83. Do you know of any areas where dolphins regularly occur? Yes No
Where are these dolphin areas?: _____
(Note to interviewer: Regular means certain times of year when they are always found. Indicate on maps)
84. Do these dolphin areas change over time? Yes No Don't Know
85. How many dolphins do you think might live in these areas? <10 >10 >100 Don't Know
86. Do people from other villages / communities catch dolphins / other marine mammals?
Yes No Don't Know
(if yes) How many (people)? _____ What village? _____
Is the catch accidental or on purpose? Accidental On purpose Both
87. Have people in your village / community ever caught dolphins / other marine mammals?
Yes No Don't Know
(if yes) How many (people)? _____ For how long? _____
Is the catch accidental or on purpose? Accidental On purpose Both
88. Did you personally catch any dolphins in the last year? Yes No
(if yes) How many in the last year? 1-2 ≤10 >10 Specifics (*if available*): _____
Was this a typical number to catch in a year? Yes No
(if no) Was it higher or lower than usual? Higher Lower
Was the catch accidental or was it something you were fishing for? Accidental Hunted Both
89. Did you catch any in the last five years? Yes No
0 1-2 ≤10 >10 Specifics (*if available*): _____
How many in your life? 0 1-2 ≤10 >10 Specifics (*if available*): _____

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

90. How did you catch them? Harpoon Nets Other Please describe: _____
When did you catch them? _____ (*what month(s)?*) Where? (*ask interviewee to show on maps*)
91. Compared to when you started fishing, are there more , less , or the same number of dolphins captured in fishing gear? Don't Know (*Note: based on actual numbers, not perception*)
(if more or less) Why do you think this? _____
92. What do you (or would you) do with a dolphin if you caught one on purpose?
Eat Sell As Bait Other Use : _____ (*Note: do not lead interviewee*)
93. What do you (or would you) do with a dolphin if you caught one accidentally?
Discard (*dead*) Release (*alive*) Eat Sell As Bait Other Use : _____
94. Have you ever found or heard of dolphins stranded on the shore? Yes No
(if yes) Where, when and how many? (*ask interviewee to show on maps*)? _____
Have you ever found or heard of dolphins dead in our waters? Yes No (*explain stranded*)
Or have you ever found or heard of dolphins with cut marks on their backs? Yes No (*explain*)
(if yes) Where, when and how many? (*ask interviewee to show on maps*)? _____
What happened to the animal(s)? _____
95. What would you do or did you do if you found a stranded dolphin? _____
96. Compared to when you started fishing, do you think there are more dolphins , less ,
or the same number of dolphins ? I don't know
(if more or less) Why do you think this? _____
(*Note to interviewer: Try to determine what other impacts may be driving the trend*)
97. Do you think there will always be dolphins in our waters? Yes No Don't Know
(if yes or no) Why? _____
98. Do you think having dolphins around is important? Yes No Why? _____
99. It is illegal to intentionally kill a dolphin? Yes No Don't know
What about by accident (maybe caught in a net unintentionally)? Yes No Don't know
100. Are there any local customs, beliefs, legends or rituals or stories related to dolphins?
Yes No (if yes) Please describe: _____

Where / from whom did you hear this? _____

Please tick the boxes to the left of any questions not asked. Provide appropriate ID charts and maps for interviewee to point to during the interview.

CONFIDENTIAL INTERVIEWER COMMENTS

101. How open and honest did the fisher seem about answering bycatch questions?

Very open/honest Somewhat open/honest Not honest

102. How interested and engaged did the fisher seem with interview?

Very interested Moderately interested Bothered/ Not interested

103. How certain did the fisher seem about answers to numerical questions?

Very sure Reasonable sure Unsure

104. How comfortable were you about the respondents' ability to discriminate between the species

Very comfortable Reasonable Not comfortable

105. Why do you think this? _____

106. Please indicate why (if any) questions were not asked _____

Survey ID Number	Sighting Record #	# Individuals seen	Habitat	Size S,L	Mother - Calf Pair Y / N	Day / Night	Year	Month	Dead / Alive	Cause	Condition	Accidental / Direct	Reported Y / N	Notes

Habitat Codes: (D) Deep Water; (C) Coral; (S) Seagrass; (F) Fine Sediments; (M) Mangroves; (R) Rocks; (E) Estuaries; (U) Unknown
Cause: (G) Gill net, (O) Other Fishing Gear (specify in notes), (B) Boat Strike, (H) Hunting (D) Don't Know
Condition: (F) Fresh, (D) Decomposed