

# ParFish Interview ProForma

This interview should be adapted specifically for the fishery you are going to assess, before starting interviews with fishers, for example:

- Translate the questions into the local language;
- Adapt questions for the fishery you are assessing in terms of gears, species, effort terms and catch units;
- Adapt questions to include local concepts and terms for closed areas, fishing seasons, etc.

## Stock Assessment Interview

### Background information:

Fisher Name		Date	
Fishery		Interviewer	

### Units:

Units of effort (e.g. days fishing)		
Units of catch (e.g. kg, numbers, baskets etc.)		Average weight of 1 'unit':
Units of time (e.g. calendar month, lunar month, year)		

### Effort and Catch Rates:

Question	Answer	Comments / Notes				
<b>Importance:</b>						
1. For how many years have you been fishing?						
<b>Gear:</b>						
2. Which is your main gear in this fishery, the one you are most familiar with and use most?						
<b>Usual effort:</b>						
3. In each <i>unit of time</i> (e.g. month), how many <i>units of effort</i> (e.g. days) do you usually spend fishing in this fishery?						
<b>Last year's effort:</b>						
4. How many <i>units of effort</i> did you actually fish last year with this gear?						
<b>Current catch rate:</b>		Catch Category				
5. Normally how many <i>units of catch</i> (e.g. kg) do you catch in one <i>unit of effort</i> ? (e.g. how many kg per day?)		A	B	C	D	E
<b>Trends in catch rate:</b>						
6. Over the last few years, has your catch rate been about the same, declining or increasing? (and why?)						

Question	Answer		Comments / Notes
<b>Last year's catch rate:</b> 7. If the catch rate has been changing: In the same season last year, normally how many <i>units of catch</i> did you get in one <i>unit of effort</i> ?			
<b>Catch rate for unexploited stock:</b> 8. In you were to fish in a fresh ground (never fished before or like the old days, or a place which has been left for some time without fishing to be harvested later), normally how much fish do you think you would catch in one day?	Min		
	Max		
<b>Recovery time:</b> 9. If you were to leave an area where the fish can recover, where no-one fishes, how long do you think it would take for the fish stocks to recover fully? ... or as close as possible to what it was before fishing started?			Time unit you're dealing with
<b>Perception of total fishing effort:</b> 10. Do you think the amount of fishing for the size of the resource is: (Or: Do you think the area can support more fishers, are there enough, or too many?)	Could be greater		
	Just right		
	Too much		

## Constraints:

The following 'constraints' questions define minimum and maximum constraints on the preference scores. This prevents the model identifying optimum controls outside the possible range.

Question	Answer	Comments / Notes
<b>Minimum acceptable catch rates:</b> 11. What is the minimum <i>unit of catch</i> in one <i>unit of effort</i> you would fish that is not worth you going fishing, and you would go and do something else instead?		
<b>Minimum acceptable catch:</b> 12. What is the minimum <i>units of catch</i> in a <i>unit of time</i> you would accept that is not worth you going fishing, and you would go and do something else instead?		
<b>Maximum possible catch rate:</b> 13. What is the maximum <i>unit of catch</i> in one <i>unit of effort</i> you could cope with your current gear?		
<b>Maximum possible effort:</b> 14. What are the maximum <i>units of effort</i> you could apply with your current gear in a <i>unit of time</i> ?		

# ParFish Preference Interview

## Background information:

Fisher Name		Date	
Fishery		Interviewer	

## Background questions:

Question	Answer	Comments / Notes
15(a). <b>Fisher importance:</b> <i>Develop your own question for a measure of fisher importance</i>		
<b>Fisher importance - Household size:</b> 15(b). Including you, how many people are there in your household?		
<b>Fisher importance - Dependence on fishing:</b> 15(c). What proportion of your household income depends on your catch from this fishery?		

## Discounting:

Question	Answer	Comments / Notes
<b>Discount rate (personal):</b> 16. How much do you earn in 1 month? (= 'x')	$X =$	$X + 20\% =$
Time difference where they cannot decide if they would prefer to receive $x$ now, or $x + 20\%$ later: (Would you prefer to receive $x$ now, or $x + 20\%$ in 1 year? ... Repeat the question reducing / increasing the time difference until the respondent has no preference for receiving current 1 month earnings now and 1 month earning + 20% later)		Time Units: <input type="checkbox"/> Days <input type="checkbox"/> Months <input type="checkbox"/> Years

## Catch and Effort Preference:

Record the rank order of the scenarios below from best to worst, and record the score for how much one scenario is preferred over the next, for each pair of scenarios, using the scores 0 – 4 detailed below:

Rank	Scenario	Pairwise Score
1 (Best)	A	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17 Worst	C	

### Pairwise Scoring

Choose the phrase which best matches the preference:

0. I do not mind.
1. I prefer it somewhat.
2. I prefer it.
3. I strongly prefer it.
4. I very strongly prefer it.

You should explain to the fishers the possible range of scores they can give, and they can either indicate the score as a phrase (e.g. 'I prefer it a bit') or as a score directly (e.g. '1').

### Scenarios

- A. 50% increase in catch and 50% decrease in fishing (6,2)
- B. 25% increase in catch and 25% decrease in fishing (5,3)
- C. 50% decrease in catch and 50% increase in fishing (2,6)
- D. 25% decrease in catch and 25% increase in fishing (3,5)
- E. 50% increase in catch and 50% increase in fishing (6,6)
- F. 25% increase in catch and 25% increase in fishing (5,5)
- G. 50% decrease in catch and 50% decrease in fishing (2,2)
- H. 25% decrease in catch and 25% decrease in fishing (3,3)
- I. no change in catch or effort (4,4)
- J. no change in catch and 50% decrease in fishing (4,2)
- K. no change in catch and 25% decrease in fishing (4,3)
- L. no change in catch and 50% increase in fishing (4,6)
- M. no change in catch and 25% increase in fishing (4,5)
- N. 50% increase in catch and no change in fishing (6,4)
- O. 25% increase in catch and no change in fishing (5,4)
- P. 50% decrease in catch and no change in fishing (2,4)
- Q. 25% decrease in catch and no change in fishing (3,4)

## INSTRUCTIONS

Explain to the fisher how many days' fishing each boat represents, and how much catch each fish represents (calculate it according to his or her usual catch and effort rates each month).

All the scenarios on the outside in the bubbles have to be placed on the tree. The scenario you take from the outside is compared to the others that are already on the tree. Stick with the same scenario until you have placed it in a space on the tree.

Work through the non-positioned scenarios in bubble 1: take a scenario, compare it with scenario I.

If the fisher prefers the non-positioned scenario to the one on the tree, move the non-positioned scenario to the LEFT ('LIKE') and compare it with the next scenario on the tree. If the fisher prefers the scenario that is on the tree to the non-positioned one, move the non-positioned scenario to the RIGHT ('DON'T LIKE') and compare it with the next scenario on the tree.

Continue until you place the scenario in an empty space, then write the letter of the scenario in the space.

Work through the other non-positioned scenarios in bubble 1 in the same way. Then work through the scenarios in bubble 2 (J,K), placing them on the tree, starting the comparisons with scenario O. Then place scenario B (from bubble 3) on the tree, starting the comparisons with scenario N. Then work through scenarios L and M (bubble 4), starting the comparisons at scenario Q. Finally, place scenario D (bubble 5) on the tree, starting the comparison with scenario P.

## Preference interview – binary tree for ranking scenarios

