

Conservation management of small core areas: key to survival of a Critically Endangered population of Irrawaddy river dolphins *Orcaella brevirostris* in Indonesia

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Appendix 1

Survey of local residents' attitudes towards and knowledge of the *pesut* in the Mahakam River.

Name _____ Village _____

Age _____ District _____

Origin _____

General questions

1. Where do you originally come from and how long have you been living here?
2. Do you support a family? How many children do you have?
3. What is your job?

Questions about the *pesut*

1. Have you ever seen the *pesut*? How often? Where?
2. When was the last time you saw the *pesut*?
3. When is the best time to observe the *pesut*?
 - a. Month
 - b. Water condition
 - c. Time of day
4. How frequently do you observe the *pesut* in your area?
5. How many individuals on average and how many calves/ juveniles?
6. During which season did you see any calves?
7. What is your estimate of total population size?
8. Do you think that the population has decreased/ increased/ or remained stable compared with 5 and 10 years ago?
9. What changes have you noticed in the river habitat?

Conservation questions

10. What is the significance of the *pesut* to you?
11. Do you think that the presence of the *pesut* brings advantages? Please explain.
12. Do you feel that the *pesut* needs to be protected? For what reason?
13. How would you feel if the *pesut* became extinct?
14. If the *pesut* needs to be protected, what would be the best method?
15. Do you agree that protected areas could be established for the *pesut*? Under what conditions?
16. What will you do if you detect an entangled *pesut* in a net?
17. What will you do if you see someone try to capture or kill a *pesut*?
18. Have you ever found a dolphin in your gill-net or know somebody who has? Alive or dead, when, where, sex, age, which mesh size, name and address of person who caught the dolphin?
19. If you use gill-nets, how often do you check these nets?
20. Do you understand how to release an entangled dolphin? In which way?

Appendix 2

Socioeconomic fisheries survey.

Name _____ Village _____

Age _____ District _____

Origin _____

General questions

1. Where do you originally come from and how long have you been a fisherman?
2. Do you support a family ? How many children do you have?
3. Do you have another job besides fishing? If so, what kind of job and how much time do you spend on each job?

Socioeconomic questions

1. Is the quantity of fish catch increasing or decreasing from year to year? At which time period or season can fish be easily caught?
2. Where do you usually fish and which fishing tool do you use?
3. For each kind of tool you use, please specify how much fish you catch on average per day.
4. When using a gill-net, which mesh sizes do you use to catch which type of fish?
5.
 - a. Is the number of fish species you catch increasing or decreasing?
 - b. Which fish species do you catch now and which species have disappeared/ decreased/ increased?
 - c. How many kg of fish did you catch per day in 1996 and how much now in 2001?
 - d. For each fish species what was the market price per kg in 1996 and what is it now in 2001?
6. Are there any major problems that you are currently facing in your job as a fisherman?
7. In your opinion what measures should be taken by the local government to solve these problems?
8. What is your opinion about electrofishing? Do you agree with this method? Please give your arguments.
9. Do you experience any advantages or disadvantages as a result of logging and mining activities? Please explain what these advantages and disadvantages are.
10. How would you feel if your fishing area became a protected area for the *pesut*? Under what conditions would you agree to this?